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Annexure – R-5/15

(AIR, WATER, NOISE LEVEL MONITORING REPORTS OF LAST SIX MONTHS of
FY 2022-23)

	<h2 style="margin: 0;">CENTRAL MINE PLANNING AND DESIGN INSTITUTE LIMITED</h2> <p style="margin: 0;">Environment Laboratory, Regional Institute-V, Phone: (07815) 271646, email: rdri5.cmpdi@coalindia.in, website: www.cmpdi.co.in</p>	 <i>A Mini-Ratna Company</i>
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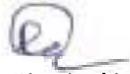
AIR QUALITY REPORT

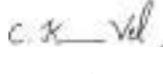
Month	OCTOBER	Area	Sohagpur	Report No	BSP/SGP/2022/10
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	24.11.2022
Name of the Project	Amlai OCM	Sample Reference No.	21-22

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					
21. SAM Office	A-O	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	14.10.2022	142	65	42	12	17
		13.10.2022	15.10.2022	138	58	41	13	18
		17.10.2022	25.10.2022	145	65	45	11	16
		21.10.2022	25.10.2022	135	55	39	16	22
		25.10.2022	05.11.2022	143	61	44	15	23
		27.10.2022	05.11.2022	137	52	38	11	17
		29.10.2022	07.11.2022	142	65	40	13	20
22. Manager Office	A-O	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	14.10.2022	180	74	50	25	29
		13.10.2022	15.10.2022	202	96	62	22	26
		17.10.2022	25.10.2022	195	88	58	21	28
		21.10.2022	25.10.2022	192	90	55	20	25
		25.10.2022	05.11.2022	188	85	52	21	27
		27.10.2022	05.11.2022	194	92	57	22	26
		29.10.2022	07.11.2022	198	92	58	23	30

Analyzed by 

Checked by 

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	24.11.2022
Name of the Project	Amlai OCM	Sample Reference No.	23-24

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						
23. Workshop	A-O	03.10.2022	10.10.2022	202	96	62	22	26	
		07.10.2022	10.10.2022	195	88	58	21	28	
		11.10.2022	14.10.2022	192	90	55	20	25	
		13.10.2022	15.10.2022	188	85	52	21	27	
		17.10.2022	25.10.2022	194	92	57	22	26	
		21.10.2022	25.10.2022	190	90	51	22	27	
		25.10.2022	05.11.2022	185	80	48	21	26	
		27.10.2022	05.11.2022	180	74	50	25	29	
24.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	14.10.2022	505	245	75	30	37	
		13.10.2022	15.10.2022	501	248	72	28	36	
		17.10.2022	25.10.2022	492	244	62	25	32	
		21.10.2022	25.10.2022	480	235	60	23	30	
		25.10.2022	05.11.2022	488	242	63	26	31	
		27.10.2022	05.11.2022	498	246	66	28	35	
		29.10.2022	07.11.2022	510	265	73	31	38	

(Signature)
Analyzed by

(Signature)
Checked by

(Signature)
Manager-Environment

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

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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	Amlai OCM	Sample Reference No.	N25-28

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)	
25. WORKSHOP	A	13.10.2022	59.6	56.3	
		20.10.2022	54.7	53.3	
26. NEAR LOADING POINT	A	13.10.2022	60.8	55.3	
		20.10.2022	65.2	58.7	
27. R.H.COLONY	C	13.10.2022	40.8	45.7	
		20.10.2022	44.9	45.8	
28. MINE SITE OFFICE	A	13.10.2022	49.9	53.3	
		20.10.2022	57.7	53.8	

Analyzed by 

Checked by 

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.	TC-74012213462	Report Issue Date	11-11-2022		
Customer Name	South Eastern Coal Field Ltd Bilaspur	Address & Contact Details	SEEPAT ROAD BILASPUR 7752241927		
Sampling By	Abhishek	Date of Sampling	14-10-2022	Sample ID	12977
Sampling Location	Mine Discharge Amlai O.C	Sampling Plan	FORTNIGHTLY	Sampling Method	CMPDI/BSP/LSOP
Sample Condition	APPROPRIATE	Date of Receipt of Sample	16-10-2022	Date of Analysis	From 27-10-2022 To 09-11-2022

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	7.56	±0.1272 at 7.0074
4	Total suspended Solids mg/l	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	17.00	±0.445 @ 24.429

Reported By
Sanjivkumar Singh

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :11-11-2022 10:20:04

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.
- b. This report shall not be reproduced except in full without approval of the laboratory.

TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		TC-74012214637		Report Issue Date		12-11-2022	
Customer Name		South Eastern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	Abhishek Banerjee	Date of Sampling	31-10-2022	Sample ID	13139		
Sampling Location	Mine Discharge Amlai O.C	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 31-10-2022 To 12-11-2022		

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	24.00	±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	7.15	±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
Sanjivkumar Singh

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :12-11-2022 12:16:01

JSA

Note:

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		TC-74012213463		Report Issue Date		11-11-2022	
Customer Name		South Eastern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	Abhishek	Date of Sampling	14-10-2022	Sample ID	12978		
Sampling Location	Work Shop Effluent Amlai O.C	Sampling Plan	FORTNIGHTLY	Sampling Method	CMPDI/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	16-10-2022	Date of Analysis	From 27-10-2022 To 09-11-2022		

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	7.42	±0.1272 at 7.0074
4	Total suspended Solids mg/l	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	26.00	±0.445 @ 24.429

Reported By
Sanjivkumar Singh

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :11-11-2022 10:20:04

JSA

Note:

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		TC-74012214639		Report Issue Date		12-11-2022	
Customer Name		South Eastern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	Abhishek Banerjee	Date of Sampling	31-10-2022	Sample ID	13140		
Sampling Location	Work Shop Effluent Amlai O.C	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 31-10-2022 To 12-11-2022		

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	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	7.21	±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
Sanjivkumar Singh

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :12-11-2022 12:16:01

JSA

Note:

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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	Amlai OCM	Sample Reference No.	26-27

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. SAM OFFICE	A-O	01.11.2022	16.11.2022	154	76	55	22	27
		04.11.2022	16.11.2022	148	78	54	21	26
		08.11.2022	16.11.2022	146	80	55	25	29
		11.11.2022	16.11.2022	140	75	52	22	26
		15.11.2022	30.11.2022	142	82	52	21	28
		18.11.2022	30.11.2022	141	80	50	20	25
		22.11.2022	30.11.2022	148	70	53	21	27
		25.11.2022	30.11.2022	147	74	56	22	26
		29.11.2022	30.11.2022	145	72	53	23	30
2. Manager's Office	A-O	01.11.2022	16.11.2022	196	65	43	14	17
		04.11.2022	16.11.2022	189	61	42	13	18
		08.11.2022	16.11.2022	187	69	49	11	16
		11.11.2022	16.11.2022	205	69	41	16	22
		15.11.2022	30.11.2022	199	67	40	15	23
		18.11.2022	30.11.2022	196	74	42	11	17
		22.11.2022	30.11.2022	182	63	44	13	20
		25.11.2022	30.11.2022	191	62	46	14	21
		29.11.2022	30.11.2022	192	64	48	16	22

Analysed by 

Checked by 

Manager-Environment 

Note: 1) The results above relate to the samples 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	19.12.2022
Name of the Project	Amlai OCM	Sample Reference No.	28-29

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. Workshop	A-O	01.11.2022	16.11.2022	207	65	41	13	18
		04.11.2022	16.11.2022	194	60	48	11	16
		08.11.2022	16.11.2022	190	55	40	16	22
		11.11.2022	16.11.2022	182	58	42	15	23
		15.11.2022	30.11.2022	197	54	48	11	17
		18.11.2022	30.11.2022	195	55	45	13	20
		22.11.2022	30.11.2022	183	52	32	21	26
		25.11.2022	30.11.2022	181	56	37	25	29
		29.11.2022	30.11.2022	180	55	38	24	26
4. Loading Point	A-O	01.11.2022	16.11.2022	481	190	62	26	36
		04.11.2022	16.11.2022	492	180	58	27	32
		08.11.2022	16.11.2022	502	174	55	30	30
		11.11.2022	16.11.2022	504	196	52	28	31
		15.11.2022	30.11.2022	499	188	57	25	35
		18.11.2022	30.11.2022	489	190	51	23	38
		22.11.2022	30.11.2022	492	185	48	26	34
		25.11.2022	30.11.2022	498	192	50	28	33
		29.11.2022	30.11.2022	508	192	51	31	37

Analysed by

Checked by

Manager-Environment

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

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NOISE QUALITY REPORT

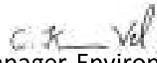
Month	NOVEMBER	Area	Sohagpur	Report No	BSP/SGP/2022/11
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	19.12.2022
Name of the Project	Amlai OCM	Sample Reference No.	N29-N32

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. Workshop	A	11.11.2022	55.1	51.6	
		24.11.2022	54.8	45.5	
2. Near Loading Pont	A	11.11.2022	63.3	61.5	
		24.11.2022	52.2	50.4	
3. R.H.Colony	C	11.11.2022	47.8	44.7	
		24.11.2022	48.8	44.9	
4. Mine Site Office	A	11.11.2022	50.4	49.6	
		24.11.2022	49.3	45.5	


 Sampled by


 Checked by


 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.		TC-74012214688		Report Issue Date		19-11-2022	
Customer Name		South Eastern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	Sibo Tamang	Date of Sampling	04-11-2022	Sample ID	13206		
Sampling Location	Mine Discharge Amlai O.C	Sampling Plan	Fortnightly Plan	Sampling Method	CMPDI/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	07-11-2022	Date of Analysis	From 07-11-2022 To 11-11-2022		

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	6.90	±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
Akash Gupta

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :19-11-2022 10:10:48

JSA

Note:

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		TC-74012216621		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	14492		
Sampling Location	Mine Discharge Amlai O.C	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	7.56	±0.1272 at 7.0074
4	Total suspended Solids mg/l	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	29.00	±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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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.	TC-74012214690	Report Issue Date	19-11-2022		
Customer Name	South Eastern Coal Field Ltd Bilaspur	Address & Contact Details	SEEPAT ROAD BILASPUR 7752241927		
Sampling By	Sibo Tamang	Date of Sampling	04-11-2022	Sample ID	13207
Sampling Location	Work Shop Effluent Amlai O.C	Sampling Plan	Fortnightly Plan	Sampling Method	CMPDI/BSP/LSOP
Sample Condition	APPROPRIATE	Date of Receipt of Sample	07-11-2022	Date of Analysis	From 07-11-2022 To 11-11-2022

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	6.79	±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
Akash Gupta

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :19-11-2022 10:10:48

JSA

Note:

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		TC-74012216622		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	14493		
Sampling Location	Work Shop Effluent Amlai O.C	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	7.36	±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
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	AMLAI OCM	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. Workshop Amlai	A-O	02.12.2022	07.12.2022	204	61	41	15	19
		06.12.2022	18.12.2022	198	67	41	13	18
		09.12.2022	18.12.2022	196	74	42	13	17
		13.12.2022	18.12.2022	185	62	43	14	18
		16.12.2022	25.12.2022	196	61	45	15	19
		20.12.2022	25.12.2022	189	62	41	14	18
		23.12.2022	03.01.2023	196	61	45	15	19
		27.12.2022	03.01.2023	185	62	43	14	18
2. Weigh Bridge Amlai	A-O	02.12.2022	07.12.2022	199	72	41	14	16
		06.12.2022	18.12.2022	196	74	42	13	17
		09.12.2022	18.12.2022	185	62	43	14	18
		13.12.2022	18.12.2022	196	61	45	15	19
		16.12.2022	25.12.2022	198	67	41	13	18
		20.12.2022	25.12.2022	196	74	42	13	17
		23.12.2022	03.01.2023	185	62	43	14	18
		27.12.2022	03.01.2023	196	61	45	15	19
		30.12.2022	03.01.2023	198	65	42	14	17

Analyzed by

Checked by

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	AMLAI OCM	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. Electrical Substation	A-O	02.12.2022	07.12.2022	188	64	43	14	17	
		06.12.2022	18.12.2022	204	62	40	14	19	
		09.12.2022	18.12.2022	198	67	41	13	18	
		13.12.2022	18.12.2022	196	74	42	13	17	
		16.12.2022	25.12.2022	185	62	43	14	18	
		20.12.2022	25.12.2022	196	61	45	15	19	
		23.12.2022	03.01.2023	189	62	41	14	18	
		27.12.2022	03.01.2023	196	61	45	15	19	
4. Workshop Dhanpuri	A-O	02.12.2022	07.12.2022	197	66	41	13	19	
		06.12.2022	18.12.2022	190	61	40	15	18	
		09.12.2022	18.12.2022	188	64	43	14	17	
		13.12.2022	18.12.2022	204	62	40	14	19	
		16.12.2022	25.12.2022	198	67	41	13	18	
		20.12.2022	25.12.2022	196	74	42	13	17	
		23.12.2022	03.01.2023	185	62	43	14	18	
		27.12.2022	03.01.2023	196	61	45	15	19	
30.12.2022	03.01.2023	189	62	41	14	18			

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AIR QUALITY REPORT

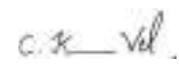
Month	DECEMBER	Area	SOHAGPUR	Report No	BSP/SGP/2022/12
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	18.01.2023
Name of the Project	AMLAI OCM	Sample Reference No.	5-6

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. Bemhourri Village (South)	B	03.12.2022	07.12.2022	120	65	32	12	15
		07.12.2022	18.12.2022	122	64	35	11	14
		10.12.2022	18.12.2022	123	61	33	12	16
		14.12.2022	18.12.2022	127	59	36	13	15
		17.12.2022	25.12.2022	118	58	33	12	14
		21.12.2022	25.12.2022	119	57	34	13	15
		24.12.2022	03.01.2023	116	62	36	12	15
		27.12.2022	03.01.2023	124	62	35	12	15
6. Sanjay Nagar Colony (East)	B	03.12.2022	07.12.2022	114	58	30	12	14
		07.12.2022	18.12.2022	113	57	31	13	15
		10.12.2022	18.12.2022	115	57	32	12	15
		14.12.2022	18.12.2022	115	58	33	12	14
		17.12.2022	25.12.2022	113	57	34	13	15
		21.12.2022	25.12.2022	116	52	36	12	15
		24.12.2022	03.01.2023	114	58	35	12	15
		27.12.2022	03.01.2023	113	60	33	13	15
		31.12.2022	03.01.2023	112	59	31	12	15

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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	AMLAI OCM	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. Amlai CISF Camp (North)	B	03.12.2022	07.12.2022	126	62	36	12	15
		07.12.2022	18.12.2022	124	62	35	12	15
		10.12.2022	18.12.2022	127	59	36	13	15
		14.12.2022	18.12.2022	128	58	33	12	14
		17.12.2022	25.12.2022	124	56	30	11	15
		21.12.2022	25.12.2022	125	54	31	10	16
		24.12.2022	03.01.2023	129	58	34	12	14
		27.12.2022	03.01.2023	127	57	33	13	16
8. Bangawar Colony	B	01.12.2022	07.12.2022	138	50	37	18	24
		05.12.2022	14.12.2022	130	56	39	14	17
		08.12.2022	14.12.2022	136	52	35	12	18
		12.12.2022	14.12.2022	142	63	33	16	22
		15.12.2022	21.12.2022	147	60	40	20	23
		19.12.2022	21.12.2022	130	53	34	18	22
		22.12.2022	03.01.2023	147	60	40	19	22
		26.12.2022	03.01.2023	134	50	42	12	17
29.12.2022	03.01.2023	128	61	35	13	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	AMLAI OCM	Sample Reference No.	9

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					
9. Silpari Village	B	03.12.2022	07.12.2022	110	52	28	10	14
		07.12.2022	18.12.2022	112	50	27	12	14
		10.12.2022	18.12.2022	114	51	29	14	15
		14.12.2022	18.12.2022	110	50	30	12	15
		17.12.2022	25.12.2022	113	50	28	12	14
		21.12.2022	25.12.2022	109	49	29	12	13
		24.12.2022	03.01.2023	107	53	28	13	15
		27.12.2022	03.01.2023	109	51	27	14	14
		31.12.2022	03.01.2023	108	50	29	10	16

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NOISE QUALITY REPORT

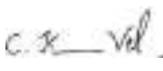
Month	DECEMBER	Area	SOHAGPUR	Report No	BSP/SGP/2022/12
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	10.01.2023
Name of the Project	AMLAI OCM	Sample Reference No.	N1-N8

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. Workshop Amlai	A	09.12.2022	58.0	52.9	
		24.12.2022	57.5	51.6	
2. Weigh Bridge Amlai	A	09.12.2022	62.3	59.4	
		24.12.2022	57.5	53.3	
3. Electrical Substation	A	09.12.2022	54.5	53.6	
		24.12.2022	53.5	48.6	
4. Workshop Dhanpuri	A	09.12.2022	54.2	51.6	
		24.12.2022	55.5	50.4	
5. Bemhourli Village (South)	C	09.12.2022	45.1	41.9	
		24.12.2022	41.4	38.6	
6. Sanjay Nagar Colony (East)	C	09.12.2022	42.5	40.9	
		24.12.2022	46.4	40.7	
7. Amlai CISF Camp (North)	C	09.12.2022	44.3	45.9	
		24.12.2022	45.7	40.7	
8. Silpari Village	C	09.12.2022	43.2	42.5	
		24.12.2022	46.3	43.0	


Sampled by


10.01.2023
Checked by


Manager-Environment

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 CMPDI Complex, Seepat Road, Bilaspur (C.G)-495006
 www.cmpdi.co.in 07752-246371 hk.gour@coalindia.in

TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		16706		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	14547		
Sampling Location	Mine Discharge Amlai O.C	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	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	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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 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.		20893		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	15290		
Sampling Location	Work Shop Effluent Amlai O.C	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	7.23	±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

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	01.02.2023
Name of the Project	AMLAI OCM	Sample Reference No.	SAOA1- SAOA2

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)		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	Value in $\mu\text{g}/\text{m}^3$	Value in $\mu\text{g}/\text{m}^3$	Value in $\mu\text{g}/\text{m}^3$	Value in $\mu\text{g}/\text{m}^3$	Value in $\mu\text{g}/\text{m}^3$
1. Workshop Amlai	A-O	03.01.2023	09.01.2023	189	62	41	14	18
		05.01.2023	09.01.2023	196	61	45	15	19
		09.01.2023	15.01.2023	185	62	43	14	18
		11.01.2023	15.01.2023	187	60	42	15	18
		13.01.2023	15.01.2023	194	72	41	14	16
		18.01.2023	29.01.2023	196	74	42	13	17
		20.01.2023	29.01.2023	185	62	43	14	18
		24.01.2023	30.01.2023	196	61	45	15	19
		28.01.2023	30.01.2023	197	60	42	15	18
2. Weigh Bridge Amlai	A-O	03.01.2023	09.01.2023	185	62	43	14	18
		05.01.2023	09.01.2023	196	61	45	15	19
		09.01.2023	15.01.2023	198	67	41	13	18
		11.01.2023	15.01.2023	196	74	42	13	17
		13.01.2023	15.01.2023	185	62	43	14	18
		18.01.2023	29.01.2023	196	61	45	15	19
		20.01.2023	29.01.2023	198	67	41	13	18
		24.01.2023	30.01.2023	185	62	43	14	18
		28.01.2023	30.01.2023	185	62	43	14	18


 01.02.2023
 Analyzed by


 Checked by


 Manager-Environment

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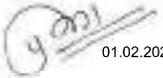
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AIR QUALITY REPORT

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	01.02.2023
Name of the Project	AMLAI OCM	Sample Reference No.	SAOA3- SAOA4

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	Value in $\mu\text{g}/\text{m}^3$	Value in $\mu\text{g}/\text{m}^3$	Value in $\mu\text{g}/\text{m}^3$	Value in $\mu\text{g}/\text{m}^3$	Value in $\mu\text{g}/\text{m}^3$	
3. Electric Sub-station	A-O	02.01.2023	09.01.2023	188	64	43	14	17	
		04.01.2023	09.01.2023	188	64	43	14	17	
		09.01.2023	15.01.2023	196	62	40	14	19	
		11.01.2023	15.01.2023	198	67	41	13	18	
		13.01.2023	15.01.2023	198	67	41	13	18	
		18.01.2023	29.01.2023	196	74	42	13	17	
		20.01.2023	29.01.2023	185	62	43	14	18	
		24.01.2023	30.01.2023	196	61	45	15	19	
4. Workshop Dhanpuri	A-O	03.01.2023	09.01.2023	196	74	42	13	17	
		05.01.2023	09.01.2023	185	62	43	14	18	
		09.01.2023	15.01.2023	196	61	45	15	19	
		11.01.2023	15.01.2023	198	67	41	13	18	
		13.01.2023	15.01.2023	185	62	43	14	18	
		18.01.2023	29.01.2023	196	61	45	15	19	
		20.01.2023	29.01.2023	189	62	41	14	18	
		24.01.2023	30.01.2023	196	61	45	15	19	
28.01.2023	30.01.2023	185	62	43	14	18			


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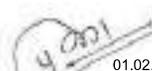
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AIR QUALITY REPORT

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	01.02.2023
Name of the Project	AMLAI OCM	Sample Reference No.	SAOA5- SAOA6

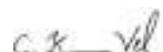
Parameter				PM ₁₀₀	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	Remarks
Limit (in $\mu\text{g}/\text{m}^3$ -24 hrs)	Industrial Zone -(G.S.R. 742(E), dated 25.09.2000)		A-O	600	300	-	120	120	
			A-N	500	250	-	120	120	
Residential Zone-(G.S.R. 826(E), dated 16.11.2009 and GSR 176 (E), 02.04.1996)		B	200	100	60	80	80		
Method 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	Value in $\mu\text{g}/\text{m}^3$	Value in $\mu\text{g}/\text{m}^3$	Value in $\mu\text{g}/\text{m}^3$	Value in $\mu\text{g}/\text{m}^3$	Value in $\mu\text{g}/\text{m}^3$	
5. Bemhourri Village (South)	B	03.01.2023	09.01.2023	129	58	34	12	14	
		05.01.2023	09.01.2023	127	57	33	13	16	
		10.01.2023	15.01.2023	126	53	32	12	15	
		12.01.2023	15.01.2023	138	50	37	18	24	
		2.01.2023	15.01.2023	130	56	39	14	17	
		20.01.2023	29.01.2023	136	52	35	12	18	
		21.01.2023	29.01.2023	142	63	33	16	22	
		27.01.2023	30.01.2023	147	60	40	20	23	
		29.01.2023	30.01.2023	129	58	34	12	14	
6. Sanjay Nagar Colony (East)	B	03.01.2023	09.01.2023	127	59	36	13	15	
		05.01.2023	09.01.2023	128	58	33	12	14	
		10.01.2023	15.01.2023	124	56	30	11	15	
		12.01.2023	15.01.2023	125	54	31	10	16	
		2.01.2023	15.01.2023	129	58	34	12	14	
		20.01.2023	29.01.2023	127	57	33	13	16	
		21.01.2023	29.01.2023	126	53	32	12	15	
		27.01.2023	30.01.2023	138	50	37	18	24	
		29.01.2023	30.01.2023	130	56	39	14	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	01.02.2023
Name of the Project	AMLAI OCM	Sample Reference No.	SAOA7- SAOA8

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	Value in $\mu\text{g}/\text{m}^3$	Value in $\mu\text{g}/\text{m}^3$	Value in $\mu\text{g}/\text{m}^3$	Value in $\mu\text{g}/\text{m}^3$	Value in $\mu\text{g}/\text{m}^3$	
7. Amlai CISF Camp (North)	B	03.01.2023	09.01.2023	132	63	33	16	22	
		05.01.2023	09.01.2023	137	60	40	20	23	
		10.01.2023	15.01.2023	126	58	34	12	14	
		12.01.2023	15.01.2023	127	59	36	13	15	
		2.01.2023	15.01.2023	126	58	33	12	14	
		20.01.2023	29.01.2023	124	56	30	11	15	
		21.01.2023	29.01.2023	125	54	31	10	16	
		27.01.2023	30.01.2023	129	58	34	12	14	
		29.01.2023	30.01.2023	142	63	33	16	22	
8. Bangwar Colony	B	03.01.2023	09.01.2023	114	51	29	14	15	
		05.01.2023	09.01.2023	110	50	30	12	15	
		06.01.2023	15.01.2023	113	50	28	12	14	
		11.01.2023	15.01.2023	109	49	29	12	13	
		13.01.2023	15.01.2023	107	53	28	13	15	
		17.01.2023	29.01.2023	109	51	27	14	14	
		21.01.2023	29.01.2023	114	51	29	14	15	
		24.01.2023	30.01.2023	114	47	32	13	16	
		28.01.2023	30.01.2023	118	49	31	11	25	


01.02.2023

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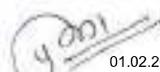
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AIR QUALITY REPORT

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	01.02.2023
Name of the Project	AMLAI OCM	Sample Reference No.	SAOA9

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	Value in $\mu\text{g}/\text{m}^3$	Value in $\mu\text{g}/\text{m}^3$	Value in $\mu\text{g}/\text{m}^3$	Value in $\mu\text{g}/\text{m}^3$	Value in $\mu\text{g}/\text{m}^3$	
9. Silpari Village	B	03.01.2023	09.01.2023	118	51	27	11	14	
		05.01.2023	09.01.2023	114	48	26	13	15	
		10.01.2023	15.01.2023	115	49	28	13	14	
		12.01.2023	15.01.2023	113	50	27	12	16	
		2.01.2023	15.01.2023	112	46	27	11	14	
		20.01.2023	29.01.2023	113	47	28	13	14	
		21.01.2023	29.01.2023	109	48	27	15	16	
		27.01.2023	30.01.2023	107	46	25	14	15	
		29.01.2023	30.01.2023	108	47	26	13	17	


01.02.2023

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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	01.02.2023
Name of the Project	AMLAI OCM	Sample Reference No.	SAON1- SAON8

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. Workshop Amlai	A	13.01.2023	56.8	51.7	
		27.01.2023	57.2	41.5	
2. Weigh Bridge Amlai	A	13.01.2023	62.6	57.8	
		27.01.2023	58.0	45.4	
3. Electrical Substation	A	13.01.2023	60.6	56.2	
		27.01.2023	54.9	44.4	
4. Workshop Dhanpuri	A	13.01.2023	60.4	55.5	
		27.01.2023	58.7	48.4	
5. Bemhourri Village (South)	C	13.01.2023	43.8	40.7	
		27.01.2023	43.6	36.5	
6. Sanjay Nagar Colony (East)	C	13.01.2023	45.7	41.8	
		27.01.2023	44.1	38.5	
7. Amlai CISF Camp (North)	C	13.01.2023	44.7	43.2	
		27.01.2023	42.3	37.4	
8. Silpari Village	C	13.01.2023	45.5	43.1	
		27.01.2023	45.6	36.0	



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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		20801		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	15384		
Sampling Location	Mine Discharge Amlai O.C	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	8.00	±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	10.00	±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

JSA

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		23496	Report Issue Date		18-02-2023
Customer Name		South Eastern Coal Field Ltd Bilaspur	Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927
Sampling By	Indra	Date of Sampling	21-01-2023	Sample ID	15688
Sampling Location	Mine Discharge Amlai O.C	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 23-01-2023 To 29-01-2023

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	6.71	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	BDL	±0.445 @ 24.429

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

Reported By
Nirmal Kumar

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :18-02-2023 11:48:50

JSA

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.	20802	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
Sampling Location	Work Shop Effluent Amlai O.C	Sampling Plan	AS PER MONTHLY PLAN
Sample Condition	APPROPRIATE	Date of Receipt of Sample	09-01-2023
		Sample ID	15385
		Sampling Method	CMPDIL/BSP/LSOP
		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	10.00	±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	10.00	±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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Note:

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		23500		Report Issue Date		18-02-2023	
Customer Name		South Eastern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	Indra	Date of Sampling	21-01-2023	Sample ID	15689		
Sampling Location	Work Shop Effluent Amlai O.C	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 23-01-2023 To 29-01-2023		

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	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	6.82	±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
Nirmal Kumar

Reviewed and Approved

M. Reagan
Manager (Env)

Date&Time :18-02-2023 11:48:51

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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	AMLAI OCM	Sample Reference No.	SAOA1- SAOA2

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	Value in $\mu\text{g}/\text{m}^3$	Value in $\mu\text{g}/\text{m}^3$	Value in $\mu\text{g}/\text{m}^3$	Value in $\mu\text{g}/\text{m}^3$	Value in $\mu\text{g}/\text{m}^3$	
1. Workshop Amlai	A-O	01.02.2023	09.02.2023	188	64	43	14	17	
		04.02.2023	09.02.2023	196	62	40	14	19	
		06.02.2023	09.02.2023	198	67	41	13	18	
		16.02.2023	20.02.2023	198	67	41	13	18	
		20.02.2023	28.02.2023	196	74	42	13	17	
		22.02.2023	28.02.2023	196	61	45	15	19	
		24.02.2023	28.02.2023	196	74	42	13	17	
		26.02.2023	28.02.2023	185	62	43	14	18	
2. Weigh Bridge Amlai	A-O	02.02.2023	09.02.2023	196	61	45	15	19	
		04.02.2023	09.02.2023	198	67	41	13	18	
		13.02.2023	09.02.2023	185	62	43	14	18	
		14.02.2023	20.02.2023	196	61	45	15	19	
		15.02.2023	28.02.2023	185	62	43	14	18	
		16.02.2023	28.02.2023	198	62	46	14	18	
		23.02.2023	28.02.2023	197	68	42	14	19	
		25.02.2023	28.02.2023	184	61	42	15	17	


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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	AMLAI OCM	Sample Reference No.	SAOA3- SAOA4

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	Value in $\mu\text{g}/\text{m}^3$	Value in $\mu\text{g}/\text{m}^3$	Value in $\mu\text{g}/\text{m}^3$	Value in $\mu\text{g}/\text{m}^3$	Value in $\mu\text{g}/\text{m}^3$	
3. Electrical Substation	A-O	02.02.2023	09.02.2023	185	62	43	14	18	
		04.02.2023	09.02.2023	196	61	45	15	19	
		16.02.2023	09.02.2023	198	67	41	13	18	
		17.02.2023	20.02.2023	185	62	43	14	18	
		20.02.2023	28.02.2023	196	61	45	15	19	
		22.02.2023	28.02.2023	189	62	41	14	18	
		24.02.2023	28.02.2023	185	62	43	14	18	
		26.02.2023	28.02.2023	196	61	45	15	19	
4. Workshop Dhanpuri	A-O	02.02.2023	09.02.2023	196	74	42	13	17	
		04.02.2023	09.02.2023	185	62	43	14	18	
		16.02.2023	09.02.2023	196	61	45	15	19	
		17.02.2023	20.02.2023	198	67	41	13	18	
		20.02.2023	28.02.2023	185	62	43	14	18	
		22.02.2023	28.02.2023	196	61	45	15	19	
		24.02.2023	28.02.2023	190	61	40	13	16	
		26.02.2023	28.02.2023	195	64	43	14	17	


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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	AMLAI OCM	Sample Reference No.	SAOA5- SAOA6

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	Value in $\mu\text{g}/\text{m}^3$	Value in $\mu\text{g}/\text{m}^3$	Value in $\mu\text{g}/\text{m}^3$	Value in $\mu\text{g}/\text{m}^3$	Value in $\mu\text{g}/\text{m}^3$	
5. Bemhourri Village (South)	B	02.02.2023	09.02.2023	138	50	37	18	24	
		05.02.2023	09.02.2023	130	56	39	14	17	
		13.02.2023	09.02.2023	136	52	35	12	18	
		14.02.2023	20.02.2023	142	63	33	16	22	
		15.02.2023	28.02.2023	147	60	40	20	23	
		16.02.2023	28.02.2023	137	49	36	19	24	
		23.02.2023	28.02.2023	142	63	33	16	22	
		25.02.2023	28.02.2023	147	60	40	20	23	
6. Sanjay Nagar Colony (East)	B	02.02.2023	09.02.2023	129	57	35	14	16	
		05.02.2023	09.02.2023	128	58	33	12	14	
		16.02.2023	09.02.2023	127	59	36	13	15	
		17.02.2023	20.02.2023	128	58	33	12	14	
		20.02.2023	28.02.2023	124	56	30	11	15	
		22.02.2023	28.02.2023	125	54	31	10	16	
		24.02.2023	28.02.2023	129	58	34	12	14	
		27.02.2023	28.02.2023	127	57	33	13	16	

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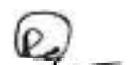
AIR QUALITY REPORT

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	13.02.2023
Name of the Project	AMLAI OCM	Sample Reference No.	SAOA7- SAOA8

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	Value in $\mu\text{g}/\text{m}^3$	Value in $\mu\text{g}/\text{m}^3$	Value in $\mu\text{g}/\text{m}^3$	Value in $\mu\text{g}/\text{m}^3$	Value in $\mu\text{g}/\text{m}^3$	
7. Amlai CISF Camp (North)	B	03.02.2023	09.02.2023	129	60	32	16	21	
		05.02.2023	09.02.2023	124	56	30	11	15	
		13.02.2023	09.02.2023	125	54	31	10	16	
		14.02.2023	20.02.2023	129	58	34	12	14	
		15.02.2023	28.02.2023	127	57	33	13	16	
		16.02.2023	28.02.2023	126	53	32	12	15	
		23.02.2023	28.02.2023	124	56	30	11	15	
		25.02.2023	28.02.2023	125	54	31	10	16	
8. Bangawar Colony	B	01.02.2023	09.02.2023	109	49	29	12	13	
		04.02.2023	09.02.2023	107	53	28	13	15	
		06.02.2023	09.02.2023	109	51	27	14	14	
		13.02.2023	20.02.2023	114	51	29	14	15	
		20.02.2023	28.02.2023	114	47	32	13	16	
		22.02.2023	28.02.2023	109	49	29	12	13	
		24.02.2023	28.02.2023	109	48	30	14	14	
		27.02.2023	28.02.2023	107	51	29	13	15	

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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	AMLAI OCM	Sample Reference No.	SAOA9

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	Value in $\mu\text{g}/\text{m}^3$	Value in $\mu\text{g}/\text{m}^3$	Value in $\mu\text{g}/\text{m}^3$	Value in $\mu\text{g}/\text{m}^3$	Value in $\mu\text{g}/\text{m}^3$	
9. Silpari Village	B	03.02.2023	09.02.2023	110	50	30	12	15	
		05.02.2023	09.02.2023	113	50	28	12	14	
		13.02.2023	09.02.2023	109	49	29	12	13	
		14.02.2023	20.02.2023	107	53	28	13	15	
		15.02.2023	28.02.2023	109	51	27	14	14	
		16.02.2023	28.02.2023	114	51	29	14	15	
		24.02.2023	28.02.2023	110	50	30	12	15	
		27.02.2023	28.02.2023	109	46	25	14	15	


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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	AMLAI OCM	Sample Reference No.	SAON1- SAON8

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. Workshop Amlai	A	15.02.2023	58.2	46.6	
		25.02.2023	56.5	50.8	
2. Weigh Bridge Amlai	A	15.02.2023	58.4	46.6	
		25.02.2023	57.4	51.5	
3. Electrical Substation	A	15.02.2023	57.5	45.4	
		25.02.2023	55.4	51.3	
4. Workshop Dhanpuri	A	15.02.2023	58.4	45.4	
		25.02.2023	57.6	51.4	
5. Bemhourri Village (South)	C	15.02.2023	44.2	34.4	
		25.02.2023	42.4	35.6	
6. Sanjay Nagar Colony (East)	C	15.02.2023	45.3	35.0	
		25.02.2023	47.5	40.6	
7. Amlai CISF Camp (North)	C	15.02.2023	44.8	34.4	
		25.02.2023	48.3	43.4	
8. Silpari Village	C	15.02.2023	44.4	33.7	
		25.02.2023	43.5	36.7	

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.	22987	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	15820
Sampling Location	Mine Discharge Amlai O.C	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	7.40	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	14.00	±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.		26129		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	24-02-2023	Sample ID	16078		
Sampling Location	Mine Discharge Amlai O.C	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 28-02-2023 To 02-03-2023		

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	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	7.01	±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

JSA

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

Note:

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		22988		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	15821		
Sampling Location	Work Shop Effluent Amlai O.C	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	13.00	±0.445 @ 24.429

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

Reported By
Sanjivkumar Singh

JSA

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

Note:

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- * General Standards for Discharge of Environmental Pollution(Part A:Effluent) as per Schedule VI,Environment (Protection) Rules
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	www.cmpdi.co.in 07752-246371 hk.gour@coalindia.in	

TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.	26133	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	24-02-2023	Sample ID	16079
Sampling Location	Work Shop Effluent Amlai O.C	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 28-02-2023 To 02-03-2023

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	7.26	±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 :09-03-2023 10:26:56

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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	AMLAI OCM	Sample Reference No.	SAOA1- SAOA2

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	
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	Value in $\mu\text{g}/\text{m}^3$	Value in $\mu\text{g}/\text{m}^3$	Value in $\mu\text{g}/\text{m}^3$	Value in $\mu\text{g}/\text{m}^3$	Value in $\mu\text{g}/\text{m}^3$
1. Workshop Amlai	A-O	01.03.2023	11.03.2023	197	68	45	14	16
		04.03.2023	11.03.2023	196	69	46	16	18
		09.03.2023	11.03.2023	194	68	45	15	18
		11.03.2023	18.03.2023	193	68	46	15	17
		14.03.2023	18.03.2023	196	69	47	16	18
		20.03.2023	25.03.2023	195	68	46	15	19
		23.03.2023	25.03.2023	197	67	47	13	17
		27.03.2023	01.04.2023	196	68	46	14	19
		29.03.2023	01.04.2023	195	68	47	15	19
2. Weigh Bridge Amlai	A-O	01.03.2023	11.03.2023	198	67	41	13	18
		04.03.2023	11.03.2023	195	62	43	14	18
		09.03.2023	11.03.2023	196	61	45	15	19
		11.03.2023	18.03.2023	195	62	43	14	18
		14.03.2023	18.03.2023	198	62	46	14	18
		20.03.2023	25.03.2023	193	68	42	14	19
		23.03.2023	25.03.2023	192	62	45	16	17
		27.03.2023	01.04.2023	193	67	44	17	17
		29.03.2023	01.04.2023	194	68	45	16	18


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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	AMLAI OCM	Sample Reference No.	SAOA3- SAOA4

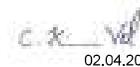
Parameter				PM ₁₀₀	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	Remarks
Limit (in $\mu\text{g}/\text{m}^3$ -24 hrs)	Industrial Zone -(G.S.R. 742(E), dated 25.09.2000)	A-O		600	300	-	120	120	
		A-N		500	250	-	120	120	
	Residential Zone-(G.S.R. 826(E), dated 16.11.2009 and GSR 176 (E), 02.04.1996)	B		200	100	60	80	80	
Method 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	Value in $\mu\text{g}/\text{m}^3$	Value in $\mu\text{g}/\text{m}^3$	Value in $\mu\text{g}/\text{m}^3$	Value in $\mu\text{g}/\text{m}^3$	Value in $\mu\text{g}/\text{m}^3$	
3. Electrical Substation	A-O	01.03.2023	11.03.2023	186	61	42	15	17	
		04.03.2023	11.03.2023	186	61	45	15	19	
		09.03.2023	11.03.2023	189	62	41	14	18	
		11.03.2023	18.03.2023	185	62	43	14	18	
		14.03.2023	18.03.2023	186	61	45	15	19	
		20.03.2023	25.03.2023	186	64	42	13	17	
		23.03.2023	25.03.2023	185	62	43	14	18	
		27.03.2023	01.04.2023	187	63	44	15	19	
		29.03.2023	01.04.2023	186	63	43	14	18	
4. Workshop Dhanpuri	A-O	01.03.2023	11.03.2023	185	62	43	14	18	
		04.03.2023	11.03.2023	186	61	45	15	19	
		09.03.2023	11.03.2023	188	67	41	13	18	
		11.03.2023	18.03.2023	185	62	43	14	18	
		14.03.2023	18.03.2023	185	62	43	14	18	
		20.03.2023	25.03.2023	186	61	45	15	19	
		23.03.2023	25.03.2023	184	61	40	13	16	
		27.03.2023	01.04.2023	185	64	43	14	17	
		29.03.2023	01.04.2023	184	64	42	15	16	


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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	AMLAI OCM	Sample Reference No.	SAOA5- SAOA6

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	Value in $\mu\text{g}/\text{m}^3$	Value in $\mu\text{g}/\text{m}^3$	Value in $\mu\text{g}/\text{m}^3$	Value in $\mu\text{g}/\text{m}^3$	Value in $\mu\text{g}/\text{m}^3$	
5. Bemhouri Village (South)	B	02.03.2023	11.03.2023	140	62	36	17	21	
		04.03.2023	11.03.2023	141	66	38	15	22	
		09.03.2023	11.03.2023	140	62	36	16	21	
		11.03.2023	18.03.2023	142	63	35	16	22	
		14.03.2023	18.03.2023	141	62	38	17	23	
		20.03.2023	25.03.2023	142	61	36	18	24	
		23.03.2023	25.03.2023	142	63	33	16	22	
		27.03.2023	01.04.2023	143	64	34	17	21	
		29.03.2023	01.04.2023	142	64	33	17	22	
6. Sanjay Nagar Colony (East)	B	02.03.2023	11.03.2023	136	57	36	15	17	
		04.03.2023	11.03.2023	138	58	37	13	15	
		09.03.2023	11.03.2023	137	59	36	13	16	
		11.03.2023	18.03.2023	138	58	35	13	15	
		14.03.2023	18.03.2023	135	56	33	12	16	
		20.03.2023	25.03.2023	135	54	34	13	18	
		23.03.2023	25.03.2023	139	58	35	14	15	
		27.03.2023	01.04.2023	137	57	34	13	17	
		29.03.2023	01.04.2023	138	56	33	14	16	


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AIR QUALITY REPORT

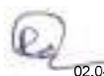
Month	MARCH	Area	SOHAGPUR	Report No	BSP/SGP/2023/03
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	02.04.2023
Name of the Project	AMLAI OCM	Sample Reference No.	SAOA7- SAOA8

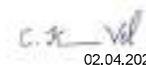
Limit (in $\mu\text{g}/\text{m}^3$ -24 hrs)	Parameter		PM ₁₀₀	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	Remarks	
	Industrial Zone -(G.S.R. 742(E), dated 25.09.2000)		A-O	600	300	-	120		120
		Residential Zone-(G.S.R. 826(E), dated 16.11.2009 and GSR 176 (E), 02.04.1996)		A-N	500	250	-	120	120
				B	200	100	60	80	80
Method 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	Value in $\mu\text{g}/\text{m}^3$	Value in $\mu\text{g}/\text{m}^3$	Value in $\mu\text{g}/\text{m}^3$	Value in $\mu\text{g}/\text{m}^3$	Value in $\mu\text{g}/\text{m}^3$	
7. Amlai CISF Camp (North)	B	02.03.2023	11.03.2023	129	59	31	14	18	
		06.03.2023	11.03.2023	128	55	31	13	17	
		10.03.2023	11.03.2023	128	56	31	12	16	
		13.03.2023	18.03.2023	129	57	32	13	15	
		15.03.2023	18.03.2023	127	58	32	13	16	
		20.03.2023	25.03.2023	128	55	31	12	15	
		23.03.2023	25.03.2023	128	56	32	13	16	
		27.03.2023	01.04.2023	129	57	31	12	14	
		29.03.2023	01.04.2023	128	56	32	13	15	
8. Bangawar Colony	B	03.03.2023	07.03.2023	150	62	40	13	16	
		06.03.2023	07.03.2023	156	58	42	12	15	
		10.03.2023	17.03.2023	140	60	36	16	20	
		13.03.2023	17.03.2023	147	63	38	14	17	
		15.03.2023	17.03.2023	146	55	41	20	23	
		27.03.2023	01.04.2023	138	53	36	18	24	
		28.03.2023	01.04.2023	142	62	43	17	22	
		29.03.2023	01.04.2023	143	50	45	16	20	
		30.03.2023	01.04.2023	141	57	42	11	14	


02.04.2023

Analyzed by


02.04.2023

Checked by


02.04.2023

Manager-Environment

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

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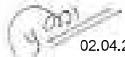
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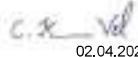
Month	MARCH	Area	SOHAGPUR	Report No	BSP/SGP/2023/03
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	02.04.2023
Name of the Project	AMLAI OCM	Sample Reference No.	SAOA9

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	Value in $\mu\text{g}/\text{m}^3$	Value in $\mu\text{g}/\text{m}^3$	Value in $\mu\text{g}/\text{m}^3$	Value in $\mu\text{g}/\text{m}^3$	Value in $\mu\text{g}/\text{m}^3$	
9. Silpari Village	B	02.03.2023	11.03.2023	113	51	30	14	17	
		06.03.2023	11.03.2023	113	50	31	14	18	
		10.03.2023	11.03.2023	112	51	32	13	16	
		13.03.2023	18.03.2023	113	53	34	13	15	
		15.03.2023	18.03.2023	113	51	33	14	16	
		20.03.2023	25.03.2023	114	51	32	14	17	
		23.03.2023	25.03.2023	113	52	31	13	16	
		27.03.2023	01.04.2023	112	52	32	14	17	
		29.03.2023	01.04.2023	113	53	33	15	17	


02.04.2023
Analyzed by


02.04.2023
Checked by


02.04.2023
Manager-Environment

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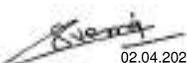
	CENTRAL MINE PLANNING AND DESIGN INSTITUTE LIMITED Environment Laboratory, Regional Institute-V, Phone: (07815) 271646, email: rdri5.cmpdi@coalindia.in , website: www.cmpdi.co.in	 <i>A Mini-Rotna Company</i>
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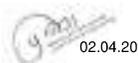
NOISE QUALITY REPORT

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	AMLAI OCM	Sample Reference No.	SAON1- SAON8

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. Workshop Amlai	A	12.03.2023	56.7	51.5		
		22.03.2023	52.8	47.5		
2. Weigh Bridge Amlai	A	12.03.2023	56.3	52.1		
		22.03.2023	53.5	48.8		
3. Electrical Substation	A	12.03.2023	56.5	50.6		
		22.03.2023	53.8	49.4		
4. Workshop Dhanpuri	A	12.03.2023	59.4	52.0		
		22.03.2023	53.4	49.2		
5. Bemhourri Village (South)	C	12.03.2023	51.6	42.4		
		22.03.2023	43.9	40.0		
6. Sanjay Nagar Colony (East)	C	12.03.2023	5.4	40.7		
		22.03.2023	44.8	40.5		
7. Amlai CISF Camp (North)	C	12.03.2023	50.7	41.3		
		22.03.2023	44.2	41.6		
8. Bangwar Colony	C	14.03.2023	58.4	43.4		
		24.03.2023	44.3	39.8		
9. Silpari Village	C	12.03.2023	53.5	40.7		
		22.03.2023	43.0	39.5		


02.04.2023
Analyzed by


02.04.2023
Checked by


02.04.2023
Manager-Environment

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

TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		26389		Report Issue Date		19-03-2023	
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	16247		
Sampling Location	Work Shop Effluent Amlai O.C	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 16-03-2023		

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	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	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
Badvel Sreedhar

Reviewed and Approved
Kumaravel. C
Manager (Env)
Date&Time :19-03-2023 10:48:07

JSA

Note:

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		28853		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	16434		
Sampling Location	Mine Discharge Amlai O.C	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	7.38	±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
Salim Khan

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

JSA

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		26388		Report Issue Date		19-03-2023	
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	16246		
Sampling Location	Mine Discharge Amlai O.C	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 16-03-2023		

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	5.60	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	6.68	±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
Badvel Sreedhar

Reviewed and Approved
Kumaravel. C
Manager (Env)
Date&Time :19-03-2023 10:48:07

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		28857		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	16435		
Sampling Location	Work Shop Effluent Amlai O.C	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	7.44	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	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

JSA

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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			10.11.2022	
Name of the Project		Bangwar U/G		Sample Reference No.			11-13	
Parameter				PM₁₀₀	PM₁₀	PM_{2.5}	SO₂	NO₂
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					
11. Manager office	A-O	09.10.2022	17.10.2022	565	262	81	32	29
		27.10.2022	07.11.2022	572	265	75	27	31
12. Bangwar colony	B	09.10.2022	17.10.2022	151	61	36	19	24
		27.10.2022	07.11.2022	186	76	49	25	33
13 . Near loading point	A-O	09.10.2022	17.10.2022	595	271	83	38	33
		27.10.2022	07.11.2022	583	287	86	37	31

Raghu
 Analyzed by

B. S.
 Checked by

C. K. Vel.
 Manager-Environment

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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	Bangwar U/G	Sample Reference No.	N13-16

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)	
13. Workshop	A	08.10.2022	49.2	44.9	
		17.10.2022	58.2	55.7	
14. Near loading point	A	08.10.2022	55.8	51.5	
		17.10.2022	65.3	61.1	
15. Managers office	A	08.10.2022	48.0	47.6	
		17.10.2022	52.1	53.0	
16. Bangwar colony	C	08.10.2022	50.3	46.9	
		17.10.2022	44.9	44.4	

Rajesh
Analyzed by

B.P.
Checked by

C.K. Verma
Manager-Environment

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		TC-74012213464		Report Issue Date		11-11-2022	
Customer Name		South Eastern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	Abhishek	Date of Sampling	14-10-2022	Sample ID	12979		
Sampling Location	Mine Discharge Bangwar 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 27-10-2022 To 09-11-2022		

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	7.38	±0.1272 at 7.0074
4	Total suspended Solids mg/l	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	19.00	±0.445 @ 24.429

Reported By
Sanjivkumar Singh

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :11-11-2022 10:20:04

JSA

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		TC-74012213474		Report Issue Date		04-11-2022	
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	13068		
Sampling Location	Mine Discharge Bangwar U/G	Sampling Plan	As Per Fortnightly 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 03-11-2022		

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	8.16	±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	6.97	±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
Panna Lal Kashyap

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :29-10-2022 10:30:50

JSA

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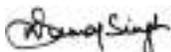
AIR QUALITY REPORT

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	10.12.2022
Name of the Project	BANGWAR U/G	Sample Reference No.	11-13

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						
11. Mine site office	A-O	03.11.2022	07.11.2022	547	269	52	35	40	
		22.11.2022	28.11.2022	555	275	54	32	36	
12. Bangwar Colony	B	03.11.2022	07.11.2022	188	75	38	18	25	
		22.11.2022	28.11.2022	178	64	36	22	26	
13. Near Loading Point	A-O	03.11.2022	07.11.2022	580	285	59	30	35	
		22.11.2022	28.11.2022	585	290	58	32	36	


Analyzed by


Checked by


Manager-Environment

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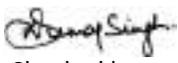
NOISE QUALITY REPORT

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	10.12.2022
Name of the Project	Bangwar U/G	Sample Reference No.	11-13

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)	
13.Workshop	A	10.11.2022	51.5	49.7	
		25.11.2022	58.4	57.6	
14.Near loading point	A	10.11.2022	62.9	57.6	
		25.11.2022	60.9	58.1	
15.Manager's office	A	10.11.2022	46.9	44.9	
		25.11.2022	52.6	47.9	
16.Bangwar colony	C	10.11.2022	46.3	44.4	
		25.11.2022	44.6	42.6	


Sampled by


Checked by


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.	TC-74012214692	Report Issue Date	19-11-2022		
Customer Name	South Eastern Coal Field Ltd Bilaspur	Address & Contact Details	SEEPAT ROAD BILASPUR 7752241927		
Sampling By	Sibo Tamang	Date of Sampling	04-11-2022	Sample ID	13208
Sampling Location	Mine Discharge Bangwar 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 07-11-2022 To 11-11-2022

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	6.98	±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
Akash Gupta

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :19-11-2022 10:10:48

JSA

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		TC-74012216623		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	14494		
Sampling Location	Mine Discharge Bangwar 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	7.40	±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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AIR QUALITY REPORT

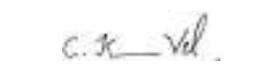
Month	DECEMBER	Area	SOHAGPUR	Report No	BSP/SGP/2022/12
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	18.01.2023
Name of the Project	BANGWAR U/G	Sample Reference No.	26-28

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					
26.MTK Office	A-O	01.12.2022	07.12.2022	522	265	74	30	34
		05.12.2022	14.12.2022	514	250	71	32	36
		08.12.2022	14.12.2022	524	274	70	27	31
		12.12.2022	14.12.2022	537	264	74	35	39
		15.12.2022	21.12.2022	520	250	73	29	34
		19.12.2022	21.12.2022	528	263	62	37	40
		22.12.2022	03.01.2023	532	271	70	27	31
		26.12.2022	03.01.2023	538	290	63	36	42
27. SAM Office	A-O	01.12.2022	07.12.2022	520	270	68	27	31
		05.12.2022	14.12.2022	538	265	74	35	38
		08.12.2022	14.12.2022	516	252	70	29	34
		12.12.2022	14.12.2022	538	265	74	35	38
		15.12.2022	21.12.2022	516	252	70	29	34
		19.12.2022	21.12.2022	526	260	62	37	40
		22.12.2022	03.01.2023	521	264	82	34	40
		26.12.2022	03.01.2023	522	270	60	30	35
	29.12.2022	03.01.2023	528	275	74	35	38	


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 Manager-Environment

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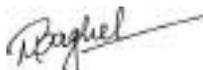
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AIR QUALITY REPORT

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	BANGWAR U/G	Sample Reference No.	9-10

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						
28.Bangwar Colony	B	01.12.2022	07.12.2022	138	50	37	18	24	
		05.12.2022	14.12.2022	130	56	39	14	17	
		08.12.2022	14.12.2022	136	52	35	12	18	
		12.12.2022	14.12.2022	142	63	33	16	22	
		15.12.2022	21.12.2022	147	60	40	20	23	
		19.12.2022	21.12.2022	130	53	34	18	22	
		22.12.2022	03.01.2023	147	60	40	19	22	
		26.12.2022	03.01.2023	134	50	42	12	17	
		29.12.2022	03.01.2023	128	61	35	13	29	


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NOISE QUALITY REPORT

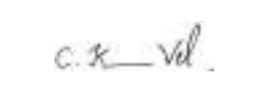
Month	DECEMBER	Area	SOHAGPUR	Report No	BSP/SGP/2022/12
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	18.01.2023
Name of the Project	Bangwar U/G	Sample Reference No.	26-28

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)	
26.MTK Office	A	08.12.2022	63.8	52.8	
		23.12.2022	58.8	45.5	
27.SAM Office	A	08.12.2022	55.8	52.7	
		23.12.2022	60.3	45.4	
28.Bangwar colony	C	08.12.2022	46.0	43.7	
		23.12.2022	46.5	34.2	


Sampled by


Checked by


Manager-Environment

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

TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		16708		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	14549		
Sampling Location	Mine Discharge Bangwar 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	16.32	±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	21.00	±0.445 @ 24.429

Reported By
D.Dayakar

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

JSA

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		20905		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	15293		
Sampling Location	Out put of Pond Water Bangwar 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	47.60	±1.8109 @ 9.95
3	pH Value Unitless	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.32	±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

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	05.02.2023
Name of the Project	BANGWAR U/G	Sample Reference No.	26-27

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					
26.MTK Office	A-O	02.01.2023	08.01.2023	520	250	74	29	34
		04.01.2023	08.01.2023	524	274	70	27	31
		06.01.2023	08.01.2023	526	278	73	28	33
		10.01.2023	13.01.2023	536	268	76	35	38
		12.01.2023	13.01.2023	518	248	72	27	30
		17.01.2023	20.01.2023	538	265	66	34	38
		19.01.2023	20.01.2023	530	270	70	26	30
		23.01.2023	29.01.2023	539	280	68	28	33
27. SAM Office	A-O	02.01.2023	08.01.2023	530	274	66	25	30
		04.01.2023	08.01.2023	528	275	74	32	36
		06.01.2023	08.01.2023	522	240	70	29	34
		10.01.2023	13.01.2023	530	280	62	37	40
		12.01.2023	13.01.2023	519	242	70	29	34
		17.01.2023	20.01.2023	531	280	62	37	40
		19.01.2023	20.01.2023	526	269	70	27	31
		23.01.2023	29.01.2023	537	271	62	35	39
		27.01.2023	29.01.2023	525	274	66	32	36

Analyzed by *[Signature]*

Checked by *[Signature]*

[Signature]
 Manager-Environment

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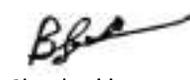
AIR QUALITY REPORT

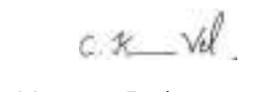
Month	JANUARY	Area	SOHAGPUR	Report No	BSP/SGP/2023/01
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	05.02.2023
Name of the Project	BANGWAR U/G	Sample Reference No.	28

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					
28.Bangwar Colony	B	02.01.2023	08.01.2023	114	51	29	14	15
		04.01.2023	08.01.2023	110	50	30	12	15
		06.01.2023	08.01.2023	113	50	28	11	14
		10.01.2023	13.01.2023	109	49	29	13	13
		12.01.2023	13.01.2023	107	53	28	13	15
		17.01.2023	20.01.2023	109	51	27	15	14
		19.01.2023	20.01.2023	114	51	29	14	15
		23.01.2023	29.01.2023	114	47	32	13	16
		27.01.2023	29.01.2023	118	49	31	11	25


Analyzed by


Checked by


Manager-Environment

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NOISE QUALITY REPORT

Month	JANUARY	Area	SOHAGPUR	Report No	BSP/SGP/2023/12
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	05.02.2023
Name of the Project	Bangwar U/G	Sample Reference No.	26-28

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)	
26.MTK Office	A	13.01.2023	57.3	54.3	
		28.01.2023	56.3	47.4	
27.SAM Office	A	13.01.2023	56.8	53.1	
		28.01.2023	57.5	49.5	
28.Bangwar colony	C	13.01.2023	45.3	43.2	
		28.01.2023	37.5	35.3	


Sampled by


Checked by


Manager-Environment

393

TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		20804		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	15387		
Sampling Location	Mine Discharge Bangwar 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	14.00	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	6.74	±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
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.		23508		Report Issue Date		18-02-2023	
Customer Name		South Eastern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	Indra	Date of Sampling	21-01-2023	Sample ID	15691		
Sampling Location	Mine Discharge Bangwar 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 23-01-2023 To 29-01-2023		

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	6.43	±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
Nirmal Kumar

Reviewed and Approved

**M. Reagan
Manager (Env)**

Date&Time :18-02-2023 11:48:51

JSA

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.	20803	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	15386
Sampling Location	In put of Pond Water Bangwar 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	24.00	±6.209 at 247.427
2	Oil & Grease mg/l	Main	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	8.20	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.15	±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
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.		23504		Report Issue Date		18-02-2023	
Customer Name		South Eastern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	Indra	Date of Sampling	21-01-2023	Sample ID	15690		
Sampling Location	In put of Pond Water Bangwar 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 23-01-2023 To 29-01-2023		

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	16.32	±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	6.72	±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
Nirmal Kumar

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :18-02-2023 11:48:51

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.	20805	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	15388
Sampling Location	Out put of Pond Water Bangwar 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	11.20	±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	17.00	±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.		23512		Report Issue Date		18-02-2023	
Customer Name		South Eastern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	Indra	Date of Sampling	21-01-2023	Sample ID	15692		
Sampling Location	Out put of Pond Water Bangwar 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 23-01-2023 To 29-01-2023		

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	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	7.03	±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
Nirmal Kumar

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :18-02-2023 11:48:51

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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	BANGWAR U/G	Sample Reference No.	26-27

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						
26.MTK Office	A-O	01.02.2023	08.02.2023	541	252	74	29	34	
		03.02.2023	08.02.2023	546	275	70	27	31	
		06.02.2023	08.02.2023	540	277	73	28	33	
		15.02.2023	21.02.2023	537	263	76	35	38	
		17.02.2023	21.02.2023	522	249	72	27	30	
		21.02.2023	28.02.2023	539	269	66	34	38	
		23.02.2023	28.02.2023	535	272	70	26	30	
		25.02.2023	28.02.2023	542	284	68	28	33	
27. SAM Office	A-O	01.02.2023	08.02.2023	545	272	70	25	30	
		03.02.2023	08.02.2023	551	268	72	26	31	
		06.02.2023	08.02.2023	536	262	74	29	33	
		15.02.2023	21.02.2023	538	264	77	30	35	
		17.02.2023	21.02.2023	546	253	72	27	31	
		21.02.2023	28.02.2023	556	265	68	31	35	
		23.02.2023	28.02.2023	561	269	75	33	38	
		25.02.2023	28.02.2023	543	273	63	32	36	

[Signature]
 Analyzed by

[Signature]
 Checked by

[Signature]
 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	BANGWAR U/G	Sample Reference No.	28

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						
28.Bangwar Colony	B	01.02.2023	08.02.2023	109	49	29	12	13	
		04.02.2023	08.02.2023	107	53	28	13	15	
		06.02.2023	08.02.2023	109	51	27	14	14	
		13.02.2023	21.02.2023	114	51	29	14	15	
		20.02.2023	21.02.2023	114	47	32	13	16	
		22.02.2023	28.02.2023	109	49	29	12	13	
		25.02.2023	28.02.2023	109	48	30	14	14	
		27.02.2023	28.02.2023	107	51	29	13	15	


Analyzed by


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	Bangwar U/G	Sample Reference No.	26-28

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)	
26.MTK Office	A	16.02.2023	57.5	45.5	
		26.02.2023	50.6	43.7	
27.SAM Office	A	16.02.2023	56.5	46.1	
		26.02.2023	57.4	50.3	
28.Bangwar colony	C	16.02.2023	45.9	34.6	
		26.02.2023	47.4	41.4	


Sampled by


Checked by


Manager-Environment

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.	22990	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	15823
Sampling Location	Mine Discharge Bangwar 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	7.12	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	14.00	±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.		26141		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	24-02-2023	Sample ID	16081		
Sampling Location	Mine Discharge Bangwar 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 28-02-2023 To 02-03-2023		

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	7.26	±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 :09-03-2023 10:26:56

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		22989		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	15822	
Sampling Location	In put of Pond Water Bangwar 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	7.14	±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.		26137		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	24-02-2023	Sample ID	16080		
Sampling Location	In put of Pond Water Bangwar 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 28-02-2023 To 02-03-2023		

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	7.27	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	BDL	±0.445 @ 24.429

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

Reported By
D.Dayakar

JSA

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.		22991		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	15824	
Sampling Location	Out put of Pond Water Bangwar 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	7.10	±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

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.		26145		Report Issue Date		09-03-2023	
Customer Name		South Eastern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	Binud , Prakash	Date of Sampling	24-02-2023	Sample ID	16082		
Sampling Location	Out put of Pond Water Bangwar 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 28-02-2023 To 02-03-2023		

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	16.32	±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	7.20	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	10.00	±0.445 @ 24.429

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

Reported By
D.Dayakar

Reviewed and Approved
M. Reagan

Date&Time :09-03-2023 10:26:56

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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	BANGWAR U/G	Sample Reference No.	26-27

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						
26.MTK Office	A-O	03.03.2023	07.03.2023	580	270	76	25	29	
		06.03.2023	07.03.2023	582	278	78	22	27	
		10.03.2023	17.03.2023	586	280	81	26	30	
		13.03.2023	17.03.2023	587	265	74	24	28	
		15.03.2023	17.03.2023	566	281	70	27	31	
		27.03.2023	01.04.2023	578	284	68	23	29	
		28.03.2023	01.04.2023	581	268	71	25	31	
		29.03.2023	01.04.2023	585	269	73	23	27	
27. SAM Office	A-O	03.03.2023	07.03.2023	560	265	70	26	30	
		06.03.2023	07.03.2023	568	272	73	22	26	
		10.03.2023	17.03.2023	565	266	74	27	31	
		13.03.2023	17.03.2023	570	269	68	28	31	
		15.03.2023	17.03.2023	573	271	65	25	30	
		27.03.2023	01.04.2023	575	274	79	29	33	
		28.03.2023	01.04.2023	568	279	63	27	32	
		29.03.2023	01.04.2023	574	261	68	26	30	
		30.03.2023	01.04.2023	569	270	70	24	29	


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Checked by


Manager-Environment

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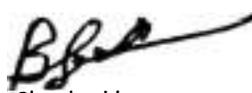
AIR QUALITY REPORT

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	BANGWAR U/G	Sample Reference No.	28

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						
28.Bangwar Colony	B	03.03.2023	07.03.2023	150	62	40	13	16	
		06.03.2023	07.03.2023	156	58	42	12	15	
		10.03.2023	17.03.2023	140	60	36	16	20	
		13.03.2023	17.03.2023	147	63	38	14	17	
		15.03.2023	17.03.2023	146	55	41	20	23	
		27.03.2023	01.04.2023	138	53	36	18	24	
		28.03.2023	01.04.2023	142	62	43	17	22	
		29.03.2023	01.04.2023	143	50	45	16	20	
		30.03.2023	01.04.2023	141	57	42	11	14	


 Analyzed by


 Checked by


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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	Bangwar U/G	Sample Reference No.	26-28

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)	
26.MTK Office	A	14.03.2023	59.6	55.4	
		24.03.2023	53.2	49.4	
27.SAM Office	A	14.03.2023	61.0	57.7	
		24.03.2023	52.8	49.2	
28.Bangwar colony	C	14.03.2023	58.4	53.4	
		24.03.2023	44.3	39.8	


Sampled by


Checked by


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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		26391		Report Issue Date		19-03-2023	
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	16249		
Sampling Location	Mine Discharge Bangwar 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 16-03-2023		

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	24.00	±6.209 at 247.427
2	Oil & Grease mg/l	Main	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	8.40	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	6.89	±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
Badvel Sreedhar

Reviewed and Approved
Kumaravel. C
Manager (Env)
Date&Time :19-03-2023 10:48:07

JSA

Note:

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		28865		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	16437		
Sampling Location	Mine Discharge Bangwar 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	7.61	±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

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.	26390	Report Issue Date	19-03-2023		
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	16248
Sampling Location	In put of Pond Water Bangwar 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 16-03-2023

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	9.20	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.51	±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
Badvel Sreedhar

Reviewed and Approved
Kumaravel. C
Manager (Env)
Date&Time :19-03-2023 10:48:07

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		28861		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	16436		
Sampling Location	In put of Pond Water Bangwar 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	7.65	±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.		26392		Report Issue Date		19-03-2023	
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	16250		
Sampling Location	Out put of Pond Water Bangwar 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 16-03-2023		

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	5.40	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.36	±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
Badvel Sreedhar

Reviewed and Approved
Kumaravel. C
Manager (Env)
Date&Time :19-03-2023 10:48:07

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Note:

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		28869		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	16438		
Sampling Location	Out put of Pond Water Bangwar 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

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

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AIR QUALITY REPORT

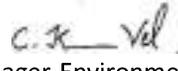
Month	DECEMBER	Area	SOHAGPUR	Report No	BSP/SGP/2022/12
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	18.01.2023
Name of the Project	BATURA OCM	Sample Reference No.	1-2

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.Mine Site Office (Khanda Village)	A-N	02.12.2022	07.12.2022	375	157	56	29	33	
		06.12.2022	18.12.2022	380	132	49	32	38	
		09.12.2022	18.12.2022	375	153	56	27	29	
		13.12.2022	18.12.2022	379	157	62	30	32	
		16.12.2022	25.12.2022	264	155	60	34	38	
		20.12.2022	25.12.2022	378	166	59	28	30	
		23.12.2022	03.01.2023	368	171	61	24	27	
		27.12.2022	03.01.2023	362	139	59	29	33	
		30.12.2022	03.01.2023	332	167	57	33	38	
2. Rampur Village	B	02.12.2022	07.12.2022	139	52	31	24	26	
		06.12.2022	18.12.2022	126	64	33	23	27	
		09.12.2022	18.12.2022	135	59	40	24	28	
		13.12.2022	18.12.2022	140	56	34	25	29	
		16.12.2022	25.12.2022	138	49	29	23	28	
		20.12.2022	25.12.2022	126	57	32	26	27	
		23.12.2022	03.01.2023	135	62	43	24	28	
		27.12.2022	03.01.2023	126	59	40	25	29	
		30.12.2022	03.01.2023	138	60	42	24	27	


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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
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Name of the Project	BATURA OCM	Sample Reference No.	3-4
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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. Behariya Village	B	03.12.2022	07.12.2022	148	54	33	24	27	
		07.12.2022	18.12.2022	134	56	40	14	19	
		10.12.2022	18.12.2022	138	50	39	23	28	
		14.12.2022	18.12.2022	146	64	42	20	23	
		17.12.2022	25.12.2022	125	52	40	24	28	
		21.12.2022	25.12.2022	136	61	45	25	29	
		24.12.2022	03.01.2023	129	52	33	14	18	
		28.12.2022	03.01.2023	136	64	45	25	29	
		31.12.2022	03.01.2023	139	62	39	24	28	
4. Girba Village	B	03.12.2022	07.12.2022	137	66	39	23	29	
		07.12.2022	18.12.2022	129	61	40	15	18	
		10.12.2022	18.12.2022	138	64	43	24	27	
		14.12.2022	18.12.2022	134	62	40	14	19	
		17.12.2022	25.12.2022	128	67	39	23	28	
		21.12.2022	25.12.2022	136	74	42	13	17	
		24.12.2022	03.01.2023	128	62	38	24	28	
		28.12.2022	03.01.2023	129	61	45	15	19	
		31.12.2022	03.01.2023	136	62	39	24	28	

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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	BATURA OCM	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. Kodaali Village	B	03.12.2022	07.12.2022	120	69	32	22	25	
		07.12.2022	18.12.2022	122	64	35	21	24	
		10.12.2022	18.12.2022	125	51	33	22	26	
		14.12.2022	18.12.2022	127	59	36	13	15	
		17.12.2022	25.12.2022	128	57	33	22	24	
		21.12.2022	25.12.2022	129	59	34	23	25	
		24.12.2022	03.01.2023	126	64	36	22	15	
		28.12.2022	03.01.2023	124	68	35	26	25	
		31.12.2022	03.01.2023	121	34 62	33	13	17	
6. Padariya village	B	03.12.2022	07.12.2022	134	59	30	22	34	
		07.12.2022	18.12.2022	123	53	31	33	35	
		10.12.2022	18.12.2022	115	57	32	19	21	
		14.12.2022	18.12.2022	129	58	33	12	14	
		17.12.2022	25.12.2022	113	59	34	23	25	
		21.12.2022	25.12.2022	126	56	36	12	15	
		24.12.2022	03.01.2023	119	58	35	22	25	
		28.12.2022	03.01.2023	123	60	33	19	21	
		31.12.2022	03.01.2023	132	59	31	22	25	

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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	BATURA OCM	Sample Reference No.	N1-N6

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. Mine Site Office (Khanda Village)	A	08.12.2022	47.9	47.7	
		23.12.2022	52.0	49.1	
2. Rampur Village	C	08.12.2022	48.4	46.1	
		23.12.2022	43.9	41.5	
3. Behariya Village	C	08.12.2022	51.4	45.2	
		23.12.2022	43.8	42.0	
4. Girba Village	C	08.12.2022	49.3	47.3	
		23.12.2022	44.1	42.9	
5. Kodaali Village	C	08.12.2022	49.5	46.0	
		23.12.2022	44.1	41.6	
6. Padariya village	C	08.12.2022	49.4	46.2	
		23.12.2022	45.6	42.6	


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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	18.02.2023
Name of the Project	BATURA OCM	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.Mine Site Office (Khanda Village)	A-N	03.01.2023	07.01.2023	373	157	56	29	33
		05.01.2023	11.01.2023	380	132	49	32	38
		10.01.2023	14.01.2023	375	152	56	27	29
		13.01.2023	17.01.2023	379	157	62	30	32
		17.01.2023	20.01.2023	264	155	59	34	38
		19.01.2023	23.01.2023	378	166	57	28	30
		24.01.2023	27.01.2023	368	171	61	22	27
		28.01.2023	31.01.2023	362	139	59	27	33
		30.01.2023	01.02.2023	332	167	57	33	38
2. Rampur Village	B	03.01.2023	07.01.2023	137	52	31	24	26
		06.01.2023	11.01.2023	126	64	33	21	27
		10.01.2023	14.01.2023	135	57	40	24	28
		13.01.2023	18.01.2023	140	56	32	25	29
		17.01.2023	20.01.2023	138	49	29	23	27
		20.01.2023	24.01.2023	126	56	32	26	27
		24.01.2023	27.01.2023	135	62	42	24	28
		29.01.2023	31.01.2023	126	59	40	24	29
		31.01.2023	01.02.2023	138	59	42	24	27

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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	18.02.2023
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Name of the Project	BATURA OCM	Sample Reference No.	3-4
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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. Behariya Village	B	04.01.2023	07.01.2023	146	54	33	24	27	
		06.01.2023	09.01.2023	134	56	40	14	19	
		10.01.2023	13.01.2023	138	49	39	23	28	
		13.01.2023	16.01.2023	146	64	41	20	23	
		17.01.2023	20.01.2023	125	52	38	24	28	
		20.01.2023	23.01.2023	136	61	45	25	29	
		24.01.2023	27.01.2023	127	52	31	14	18	
		29.01.2023	31.01.2023	136	64	45	25	29	
4. Girba Village	B	03.01.2023	06.01.2023	135	66	39	23	29	
		06.01.2023	09.01.2023	129	61	40	15	18	
		10.01.2023	13.01.2023	138	64	43	24	27	
		13.01.2023	16.01.2023	133	62	40	14	19	
		18.01.2023	21.01.2023	128	67	39	23	28	
		20.01.2023	23.01.2023	136	74	42	13	17	
		27.01.2023	30.01.2023	128	62	38	24	28	
		29.01.2023	31.01.2023	129	60	45	15	19	
		31.01.2023	02.02.2023	136	62	39	24	28	

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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	18.02.2023
Name of the Project	BATURA OCM	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. Kodaali Village	B	04.01.2023	07.01.2023	120	69	32	22	25	
		06.01.2023	09.01.2023	122	64	35	21	24	
		10.01.2023	13.01.2023	125	51	33	22	26	
		13.01.2023	16.01.2023	127	59	36	13	15	
		18.01.2023	21.01.2023	127	57	33	22	24	
		20.01.2023	23.01.2023	129	59	34	23	25	
		27.01.2023	29.01.2023	126	64	36	21	15	
		29.01.2023	31.01.2023	124	67	35	26	25	
		31.01.2023	01.02.2023	121	62	33	13	17	
6. Padariya village	B	04.01.2023	07.01.2023	134	59	30	22	34	
		06.01.2023	09.01.2023	123	53	31	33	35	
		10.01.2023	13.01.2023	115	57	32	19	21	
		13.01.2023	16.01.2023	129	58	33	12	14	
		18.01.2023	21.01.2023	112	59	34	23	25	
		20.01.2023	23.01.2023	126	56	36	12	15	
		27.01.2023	29.01.2023	117	58	34	22	25	
		29.01.2023	31.01.2023	123	60	33	19	21	
		31.01.2023	01.02.2023	132	59	31	21	25	

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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	18.02.2023
Name of the Project	BATURA OCM	Sample Reference No.	N1-N6

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. Mine Site Office (Khanda Village)	A	13.01.2023	51.2	47.1	
		27.01.2023	38.2	35.4	
2. Rampur Village	C	13.01.2023	46.5	42.9	
		27.01.2023	36.6	33.3	
3. Behariya Village	C	13.01.2023	45.9	42.6	
		27.01.2023	36.3	33.5	
4. Girba Village	C	13.01.2023	46.5	43.3	
		27.01.2023	40.4	36.5	
5. Kodaali Village	C	13.01.2023	45.3	42.4	
		27.01.2023	39.5	34.5	
6. Padariya village	C	13.01.2023	46.5	43.6	
		27.01.2023	36.3	32.5	



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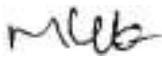
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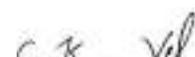
Month	FEBRUARY	Area	SOHAGPUR	Report No	BSP/SGP/2023/02
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	13.03.2023
Name of the Project	BATURA OCM	Sample Reference No.	1-2

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.Mine Site Office (Khanda Village)	A-N	02.02.2023	20.02.2023	372	156	55	28	32	
		05.02.2023	20.02.2023	384	133	50	33	39	
		13.02.2023	20.02.2023	376	153	57	28	30	
		16.02.2023	20.02.2023	381	158	63	31	33	
		21.02.2023	02.03.2023	268	157	61	35	38	
		23.02.2023	02.03.2023	372	164	55	27	29	
		25.02.2023	02.03.2023	366	169	60	21	26	
		27.02.2023	02.03.2023	368	141	61	28	34	
2. Rampur Village	B	02.02.2023	20.02.2023	135	51	30	23	25	
		05.02.2023	20.02.2023	124	63	32	20	26	
		13.02.2023	20.02.2023	138	58	41	25	29	
		16.02.2023	20.02.2023	142	57	33	26	30	
		21.02.2023	02.03.2023	137	50	30	24	28	
		23.02.2023	02.03.2023	129	57	33	27	29	
		25.02.2023	02.03.2023	138	63	43	25	30	
		27.02.2023	02.03.2023	128	58	39	26	29	


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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	BATURA OCM	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. Behariya Village	B	03.02.2023	20.02.2023	142	58	31	23	26	
		05.02.2023	20.02.2023	130	53	30	15	18	
		13.02.2023	20.02.2023	136	48	38	22	29	
		16.02.2023	20.02.2023	144	63	40	19	22	
		21.02.2023	02.03.2023	126	53	39	25	29	
		23.02.2023	02.03.2023	138	62	46	26	30	
		25.02.2023	02.03.2023	130	54	33	16	19	
		27.02.2023	02.03.2023	138	66	47	26	30	
4. Girba Village	B	03.02.2023	20.02.2023	132	64	38	22	28	
		06.02.2023	20.02.2023	127	60	39	14	17	
		13.02.2023	20.02.2023	136	63	42	23	26	
		16.02.2023	20.02.2023	132	61	39	13	18	
		21.02.2023	02.03.2023	130	68	40	24	29	
		23.02.2023	02.03.2023	140	75	44	15	19	
		25.02.2023	02.03.2023	131	63	39	22	25	
		27.02.2023	02.03.2023	133	62	46	16	19	

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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	BATURA OCM	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. Kodaali Village	B	03.02.2023	20.02.2023	118	68	31	21	24	
		06.02.2023	20.02.2023	125	65	36	22	25	
		16.02.2023	20.02.2023	128	52	34	23	27	
		17.02.2023	20.02.2023	130	60	37	14	17	
		21.02.2023	02.03.2023	131	58	34	23	25	
		23.02.2023	02.03.2023	126	57	33	22	26	
		25.02.2023	02.03.2023	129	66	37	23	20	
		27.02.2023	02.03.2023	126	68	36	27	26	
6. Padariya village	B	03.02.2023	20.02.2023	137	61	31	23	35	
		06.02.2023	20.02.2023	122	52	30	32	34	
		16.02.2023	20.02.2023	118	54	29	19	21	
		17.02.2023	20.02.2023	128	59	34	13	16	
		21.02.2023	02.03.2023	116	61	35	24	26	
		23.02.2023	02.03.2023	128	57	37	13	16	
		25.02.2023	02.03.2023	119	59	35	23	26	
		27.02.2023	02.03.2023	125	61	34	20	22	

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Manager-Environment

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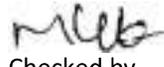
NOISE QUALITY REPORT

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	BATURA OCM	Sample Reference No.	N1-N6

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. Mine Site Office (Khanda Village)	A	17.02.2023	48.7	45.2	
		23.02.2023	50.7	50.1	
2. Rampur Village	C	17.02.2023	45.1	43.3	
		23.02.2023	49.4	47.6	
3. Behariya Village	C	17.02.2023	45.3	43.5	
		23.02.2023	52.5	47.8	
4. Girba Village	C	17.02.2023	46.5	44.5	
		23.02.2023	51.6	46.8	
5. Kodaali Village	C	17.02.2023	45.4	42.2	
		23.02.2023	52	49.1	
6. Padariya village	C	17.02.2023	46.5	42.8	
		23.02.2023	51.0	46.6	


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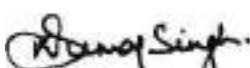
AIR QUALITY REPORT

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	BATURA OCM	Sample Reference No.	59-60

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						
59.Mine Site Office (Khanda Village)	A-N	02.03.2023	07.03.2023	402	168	62	26	30	
		04.03.2023	07.03.2023	386	182	58	25	29	
		10.03.2023	15.03.2023	410	156	57	29	35	
		13.03.2023	15.03.2023	416	159	61	27	29	
		20.03.2023	23.03.2023	366	165	59	25	30	
		22.03.2023	23.03.2023	376	170	55	24	29	
		24.03.2023	01.04.2023	384	174	63	23	27	
		27.03.2023	01.04.2023	390	149	65	27	28	
		29.03.2023	01.04.2023	370	162	54	29	31	
60. Rampur Village	B	02.03.2023	07.03.2023	136	54	52	21	26	
		04.03.2023	07.03.2023	140	63	41	23	26	
		10.03.2023	15.03.2023	142	57	43	24	28	
		13.03.2023	15.03.2023	143	54	48	19	24	
		20.03.2023	23.03.2023	150	51	49	21	25	
		22.03.2023	23.03.2023	152	55	46	22	26	
		24.03.2023	01.04.2023	137	60	44	26	29	
		27.03.2023	01.04.2023	139	57	43	27	30	
		29.03.2023	01.04.2023	151	56	51	25	28	


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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	BATURA OCM	Sample Reference No.	61-62

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						
61. Behariya Village	B	02.03.2023	07.03.2023	156	55	44	16	20	
		04.03.2023	07.03.2023	138	58	48	12	16	
		10.03.2023	15.03.2023	142	61	50	14	17	
		13.03.2023	15.03.2023	145	62	51	17	21	
		20.03.2023	23.03.2023	150	58	47	13	16	
		22.03.2023	23.03.2023	155	52	48	12	17	
		24.03.2023	01.04.2023	138	55	44	10	14	
		27.03.2023	01.04.2023	139	57	43	14	18	
		29.03.2023	01.04.2023	141	60	52	13	19	
62. Girba Village	B	02.03.2023	07.03.2023	136	54	55	13	19	
		04.03.2023	07.03.2023	144	55	57	17	22	
		10.03.2023	15.03.2023	148	60	48	16	21	
		13.03.2023	15.03.2023	156	58	49	11	15	
		20.03.2023	23.03.2023	163	66	43	13	15	
		22.03.2023	23.03.2023	168	65	47	15	19	
		24.03.2023	01.04.2023	170	68	48	14	18	
		27.03.2023	01.04.2023	166	64	52	15	19	
		29.03.2023	01.04.2023	159	63	56	16	20	

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Danraj Singh
Checked by

C.K. Verma
Manager-Environment

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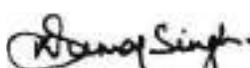
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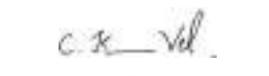
Month	MARCH	Area	SOHAGPUR	Report No	BSP/SGP/2023/03
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	02.04.2023
Name of the Project	BATURA OCM	Sample Reference No.	63-64

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						
63. Kodaali Village	B	02.03.2023	07.03.2023	130	68	41	19	22	
		04.03.2023	07.03.2023	140	64	43	17	21	
		10.03.2023	15.03.2023	144	53	41	15	20	
		13.03.2023	15.03.2023	136	54	44	16	21	
		20.03.2023	23.03.2023	138	57	39	17	20	
		22.03.2023	23.03.2023	152	61	45	14	19	
		24.03.2023	01.04.2023	142	64	48	15	18	
		27.03.2023	01.04.2023	141	69	52	13	17	
		29.03.2023	01.04.2023	137	63	37	16	21	
64. Padariya village	B	02.03.2023	07.03.2023	148	62	53	17	20	
		04.03.2023	07.03.2023	149	54	51	19	25	
		10.03.2023	15.03.2023	151	57	49	12	17	
		13.03.2023	15.03.2023	157	60	48	16	19	
		20.03.2023	23.03.2023	136	59	44	15	20	
		22.03.2023	23.03.2023	141	55	40	17	22	
		24.03.2023	01.04.2023	145	56	42	13	16	
		27.03.2023	01.04.2023	149	60	43	12	17	
		29.03.2023	01.04.2023	148	61	39	19	23	


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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	BATURA OCM	Sample Reference No.	59-64

Parameter	The Noise Pollution (R & C) rules, 2000		Day Time	Night Time	Remarks
	Industrial area	A			
Limit (in dB(A) Leq	Commercial area	B	75	70	
	Residential Area	C	65	55	
	Silence Zone	D	55	45	
			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)	
59. Mine Site Office (Khanda Village)	A	11.03.2023	54.6	49.7	
		23.03.2023	41.5	38.4	
60. Rampur Village	C	11.03.2023	52.8	46.9	
		23.03.2023	43.4	39.4	
61. Behariya Village	C	11.03.2023	50.6	47.6	
		23.03.2023	44.6	37.5	
62. Girba Village	C	11.03.2023	52.5	47.2	
		23.03.2023	42.4	38.5	
63. Kodaali Village	C	11.03.2023	50.9	47.4	
		23.03.2023	41.4	36.0	
64. Padariya village	C	11.03.2023	52.3	46.2	
		23.03.2023	43.4	37.3	

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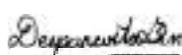
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AIR QUALITY REPORT

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	Damini UG	Sample Reference No.	34-36

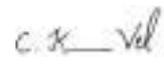
Parameter				PM ₁₀₀	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	Remarks
Limit (in $\mu\text{g}/\text{m}^3$ -24 hrs)	Industrial Zone -(G.S.R. 742(E), dated 25.09.2000)	A-O		600	300	-	120	120	
		A-N		500	250	-	120	120	
	Residential Zone-(G.S.R. 826(E), dated 16.11.2009 and GSR 176 (E), 02.04.1996)	B		200	100	60	80	80	
Method 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						
34. Damini U.G. Manager's Office	A-N	06.10.2022	10.10.2022	505	274	62	24	38	
		10.10.2022	17.10.2022	496	236	70	27	32	
		12.10.2022	17.10.2022	486	248	55	30	37	
		14.10.2022	17.10.2022	501	241	53	27	32	
		17.10.2022	24.10.2022	479	238	57	25	32	
		19.10.2022	24.10.2022	486	264	54	23	30	
		21.10.2022	24.10.2022	495	287	51	26	31	
		26.10.2022	31.10.2022	460	288	64	24	35	
		28.10.2022	31.10.2022	472	248	66	33	38	
35.Damini U.G. WORK SHOP	A-N	06.10.2022	10.10.2022	158	84	45	22	27	
		10.10.2022	17.10.2022	149	64	40	21	26	
		12.10.2022	17.10.2022	194	77	39	25	29	
		14.10.2022	17.10.2022	167	79	54	22	26	
		17.10.2022	24.10.2022	183	76	45	21	28	
		19.10.2022	24.10.2022	154	75	43	21	25	
		21.10.2022	24.10.2022	164	84	49	21	27	
		26.10.2022	31.10.2022	167	82	44	22	26	
		28.10.2022	31.10.2022	188	86	40	23	30	



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AIR QUALITY REPORT

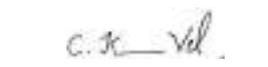
Month	October	Area	SOHAGPUR	Report No	BSP/SGP/2022/10
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	24.11.2022
Name of the Project	Damini UG	Sample Reference No.	36

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					
36. Kandoha Village	B	06.10.2022	10.10.2022	156	66	39	13	24
		10.10.2022	17.10.2022	151	54	37	11	23
		12.10.2022	17.10.2022	147	52	42	16	22
		14.10.2022	17.10.2022	143	65	45	15	24
		17.10.2022	24.10.2022	149	58	49	12	21
		19.10.2022	24.10.2022	144	55	41	14	22
		21.10.2022	24.10.2022	140	59	45	11	25
		26.10.2022	31.10.2022	143	62	42	13	23
		28.10.2022	31.10.2022	139	59	51	11	22


Analyzed by


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Manager-Environment

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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	Damini UG	Sample Reference No.	N39-41

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)		
39. Damini U.G. Managers Office	A	10.10.2022	49.2	47.5		
		18.10.2022	53.5	53.7		
40. Damini U.G. Work Shop	A	10.10.2022	50.0	49.8		
		18.10.2022	54	52.3		
41. Kandoha Village	C	10.10.2022	47.5	44.6		
		18.10.2022	44.7	54.8		



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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		TC-74012213466		Report Issue Date		11-11-2022	
Customer Name		South Eastern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	Abhishek	Date of Sampling	14-10-2022	Sample ID	12981		
Sampling Location	Mine discharge of damini u.g. Damini 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 27-10-2022 To 09-11-2022		

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	7.43	±0.1272 at 7.0074
4	Total suspended Solids mg/l	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	16.00	±0.445 @ 24.429

Reported By
Sanjivkumar Singh

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :11-11-2022 10:20:04

JSA

Note:

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		TC-74012214645		Report Issue Date		12-11-2022	
Customer Name		South Eastern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	Abhishek Banerjee	Date of Sampling	31-10-2022	Sample ID	13143		
Sampling Location	Mine discharge of damini u.g. Damini 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 31-10-2022 To 12-11-2022		

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	24.00	±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
Sanjivkumar Singh

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :12-11-2022 12:16:01

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		TC-74012213152		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	12982		
Sampling Location	Up Stream Of Baisaha Nala Damini 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	8.72	±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	21.80	±0.445 @ 24.429

Reported By
Deepanwita Bin

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

JSA

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		TC-74012214647		Report Issue Date		12-11-2022	
Customer Name		South Eastern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	Abhishek Banerjee	Date of Sampling	31-10-2022	Sample ID	13144		
Sampling Location	Up Stream Of Baisaha Nala Damini 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 31-10-2022 To 12-11-2022		

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	7.44	±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
Sanjivkumar Singh

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :12-11-2022 12:16:01

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		TC-74012213465		Report Issue Date		11-11-2022	
Customer Name		South Eastern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	Abhishek	Date of Sampling	14-10-2022	Sample ID	12980		
Sampling Location	Down Stream Of Baisaha Nala Damini 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 27-10-2022 To 09-11-2022		

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	7.56	±0.1272 at 7.0074
4	Total suspended Solids mg/l	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	107.00	±0.445 @ 24.429

Reported By
Sanjivkumar Singh

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :11-11-2022 10:20:04

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		TC-74012214643		Report Issue Date		12-11-2022	
Customer Name		South Eastern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	Abhishek Banerjee	Date of Sampling	31-10-2022	Sample ID	13142		
Sampling Location	Down Stream Of Baisaha Nala Damini 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 31-10-2022 To 12-11-2022		

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	7.37	±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
Sanjivkumar Singh

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :12-11-2022 12:16:01

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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	Damini 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							
34. Manager's Office	A-N	01.11.2022	02.11.2022	515	283	72	26	35		
		04.11.2022	05.11.2022	482	242	60	25	30		
		08.11.2022	09.11.2022	492	238	52	28	36		
		11.11.2022	12.11.2022	510	246	58	27	34		
		15.11.2022	16.11.2022	485	246	53	24	30		
		17.11.2022	18.11.2022	495	283	53	25	31		
		21.11.2022	22.11.2022	505	245	65	27	33		
		24.11.2022	25.11.2022	460	215	58	24	31		
		28.11.2022	29.11.2022	475	225	60	26	33		
35. Work Shop	A-N	01.11.2022	02.11.2022	185	80	55	21	28		
		04.11.2022	05.11.2022	175	78	52	20	25		
		08.11.2022	09.11.2022	195	92	58	26	32		
		11.11.2022	12.11.2022	178	82	56	20	27		
		15.11.2022	16.11.2022	194	94	57	22	29		
		17.11.2022	18.11.2022	201	92	59	24	32		
		21.11.2022	22.11.2022	193	88	58	23	30		
		24.11.2022	25.11.2022	172	78	48	20	27		
		28.11.2022	29.11.2022	182	85	52	23	29		

Dependent
Analyzed by

Amud
Checked by

C.R. Vel.
Dy. 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	Damini UG	Sample Reference No.	3

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							
36. Kandoha Village	B	01.11.2022	02.11.2022	154	64	32	12	23		
		04.11.2022	05.11.2022	152	52	31	13	25		
		08.11.2022	09.11.2022	146	56	40	14	21		
		11.11.2022	12.11.2022	142	64	44	12	26		
		15.11.2022	16.11.2022	147	59	48	13	24		
		17.11.2022	18.11.2022	145	58	40	14	25		
		21.11.2022	22.11.2022	140	62	44	12	23		
		24.11.2022	25.11.2022	145	60	41	12	26		
28.11.2022	29.11.2022	140	57	50	14	24				

Deepanshu Singh
Analyzed by

Prasad
Checked by

C.K. Vel
Dy. Manager-Environment

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NOISE QUALITY REPORT

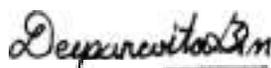
Month	November	Area	Sohagpur	Report No	BSP/SGP/2022/11
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	19.12.2022
Name of the Project	Damini UG	Sample Reference No.	N1-N3

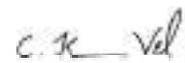
Parameter			The Noise Pollution (R & C) rules, 2000		Remarks
			Day Time	Night Time	
Limit (in dB(A) Leq	Industrial area	A	75	70	
	Commercial area	B	65	55	
	Residential Area	C	55	45	
	Silence Zone	D	50	40	
Method of analysis	CPCB Protocol For Ambient Level Noise Monitoring				
Station (Code) Station Name	Station category	Date of measurement	Value in dB(A)	Value in dB(A)	
1. Manager's Office	A	10.11.2022	56.7	51.4	
		23.11.2022	51.6	44.4	
2. Work Shop	A	10.11.2022	57.3	54.3	
		23.11.2022	51.8	47.4	
3. Kandoha Village	C	10.11.2022	46.2	44	
		23.11.2022	39.2	35.3	



Sampled by



Checked by " "



Manager-Environment

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		TC-74012214696		Report Issue Date		19-11-2022	
Customer Name		South Eastern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	Sibo Tamang	Date of Sampling	04-11-2022	Sample ID	13210		
Sampling Location	Mine discharge of damini u.g. Damini 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 07-11-2022 To 11-11-2022		

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	7.07	±0.1272 at 7.0074
4	Total suspended Solids mg/l	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	16.00	±0.445 @ 24.429

Reported By
Akash Gupta

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :19-11-2022 10:10:48

JSA

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446

TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		TC-74012216625		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	14496		
Sampling Location	Mine discharge of damini u.g. Damini 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	7.32	±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

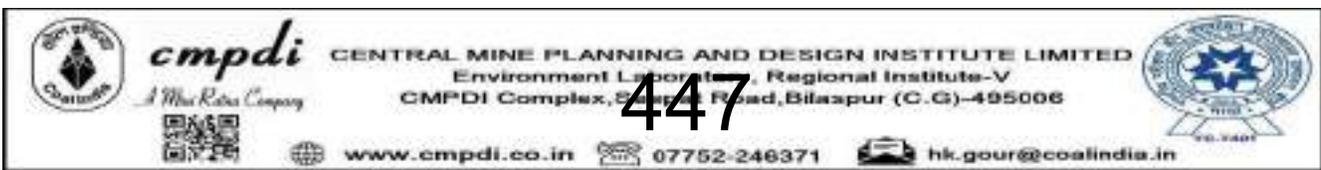
Reported By
Nirmal Kumar

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

JSA

Note:

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		TC-74012214698		Report Issue Date		19-11-2022	
Customer Name		South Eastern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	Sibo Tamang	Date of Sampling	04-11-2022	Sample ID	13211		
Sampling Location	Up Stream Of Baisaha Nala Damini 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 07-11-2022 To 11-11-2022		

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	7.41	±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
Akash Gupta

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :19-11-2022 10:10:48

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		TC-74012216627		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	14497		
Sampling Location	Up Stream Of Baisaha Nala Damini 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	7.39	±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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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		TC-74012214694		Report Issue Date		19-11-2022	
Customer Name		South Eastern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	Sibo Tamang	Date of Sampling	04-11-2022	Sample ID	13209		
Sampling Location	Down Stream Of Baisaha Nala Damini 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 07-11-2022 To 11-11-2022		

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	7.04	±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
Akash Gupta

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :19-11-2022 10:10:48

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Note:

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		TC-74012216624		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	14495		
Sampling Location	Down Stream Of Baisaha Nala Damini 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	7.49	±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
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		
Name of the Customer	South Eastern Coalfields Ltd, Bilaspur			Date of Issue		18.01.2023			
Name of the Project	Damini UG			Sample Reference No.		165-166			
Limit (in $\mu\text{g}/\text{m}^3\text{-24 hrs}$)	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
		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						
165. Manager's Office	A-N	01.12.2022	08.12.2022	514	283	72	26		35
		05.12.2022	12.12.2022	482	242	60	25		30
		08.12.2022	15.12.2022	492	238	52	28		36
		12.12.2022	19.12.2022	510	244	58	27	34	
		15.12.2022	22.12.2022	485	246	53	24	30	
		19.12.2022	26.12.2022	493	283	53	25	31	
		22.12.2022	29.12.2022	505	245	65	25	33	
		26.12.2022	02.01.2023	460	215	58	24	31	
		29.12.2022	05.01.2023	475	225	60	26	33	
166. Lamp Room	A-N	01.12.2022	08.12.2022	186	81	55	21	28	
		05.12.2022	12.12.2022	175	78	52	20	25	
		08.12.2022	15.12.2022	195	92	58	26	32	
		12.12.2022	19.12.2022	178	82	56	20	27	
		15.11.2022	22.12.2022	193	94	57	22	29	
		19.12.2022	26.12.2022	201	92	59	24	32	
		22.12.2022	29.12.2022	193	88	58	23	30	
		26.12.2022	02.01.2023	172	78	48	20	27	
		29.12.2022	05.01.2023	182	85	52	22	29	

Deepanjali
Analyzed by

Grand
Checked by

C.R. Vel
Manager-Environment

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

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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	Damini UG		Sample Reference No.		167-168

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						
167. Near Main Gate	A-N	01.12.2022	08.12.2022	154	63	32	12	23	
		15.12.2022	12.12.2022	152	52	31	13	25	
		08.12.2022	15.12.2022	146	56	40	14	21	
		12.12.2022	19.12.2022	141	64	44	12	26	
		15.12.2022	22.12.2022	147	59	48	13	24	
		19.12.2022	26.12.2022	145	58	40	14	25	
		22.12.2022	29.12.2022	140	62	44	12	23	
		26.12.2022	02.01.2023	144	60	41	12	26	
		29.12.2022	05.01.2023	140	57	50	14	24	
168. Electric Sub Station	A-N	01.12.2022	08.12.2022	514	283	72	26	35	
		05.12.2022	12.12.2022	482	242	60	25	30	
		08.12.2022	15.12.2022	492	238	52	28	36	
		12.12.2022	19.12.2022	510	244	58	27	34	
		15.12.2022	22.12.2022	485	246	53	24	30	
		19.12.2022	26.12.2022	493	283	53	25	31	
		22.12.2022	29.12.2022	505	245	65	25	33	
		26.12.2022	02.01.2023	460	215	58	24	31	
		29.12.2022	05.01.2023	475	225	60	26	33	

Deputy Director
Analyzed by

[Signature]
Checked by

[Signature]
Manager-Environment

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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	Damini UG		Sample Reference No.	37-38	

Limit (in $\mu\text{g}/\text{m}^3\text{-24 hrs}$)	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					
37.Khairaha Village	B	01.12.2022	07.12.2022	140	58	37	13	29
		05.12.2022	07.12.2022	162	63	35	13	20
		08.12.2022	19.12.2022	130	53	34	17	22
		12.12.2022	19.12.2022	174	88	36	30	37
		15.12.2022	19.12.2022	165	53	34	17	22
		19.12.2022	28.12.2022	145	63	39	16	21
		22.12.2022	28.12.2022	137	52	32	14	18
		26.12.2022	02.01.2023	129	60	38	20	27
		29.12.2022	02.01.2023	142	69	52	36	39
38.Kundari village	B	01.12.2022	07.12.2022	146	52	35	12	18
		05.12.2022	07.12.2022	142	63	33	16	22
		08.12.2022	19.12.2022	147	60	40	20	23
		15.12.2022	19.12.2022	150	53	34	18	22
		19.12.2022	28.12.2022	145	65	45	21	26
		22.12.2022	28.12.2022	172	88	36	30	38
		22.12.2022	28.12.2022	179	71	44	29	21
		26.12.2022	02.01.2023	142	65	40	14	20
		29.12.2022	02.01.2023	136	60	43	16	19S

Deepanjali
 Analyzed by

Arvind
 Checked by

C.K. Vel
 Manager-Environment

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

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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	Damini UG			Sample Reference No.	169-170				
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						
169. Kandoha Village	B	01.12.2022	08.12.2022	186	81	55	21	28	
		05.12.2022	12.12.2022	175	78	52	20	25	
		08.12.2022	15.12.2022	195	92	58	26	32	
		12.12.2022	19.12.2022	178	82	56	20	27	
		15.11.2022	22.12.2022	193	94	57	22	29	
		19.12.2022	26.12.2022	201	92	59	24	32	
		22.12.2022	29.12.2022	193	88	58	23	30	
		26.12.2022	02.01.2023	172	78	48	20	27	
		29.12.2022	05.01.2023	182	85	52	22	29	
170. Siruja Village	B	01.12.2022	08.12.2022	154	63	32	12	23	
		15.12.2022	12.12.2022	152	52	31	13	25	
		08.12.2022	15.12.2022	146	56	40	14	21	
		12.12.2022	19.12.2022	141	64	44	12	26	
		15.12.2022	22.12.2022	147	59	48	13	24	
		19.12.2022	26.12.2022	145	58	40	14	25	
		22.12.2022	29.12.2022	140	62	44	12	23	
		26.12.2022	02.01.2023	144	60	41	12	26	
		29.12.2022	05.01.2023	140	57	50	14	24	

Deeparavitha
Analyzed by

[Signature]
Checked by

[Signature]
Manager-Environment

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

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NOISE QUALITY REPORT

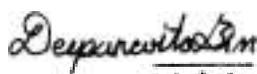
Month	DECEMBER	Area	SOHAGPUR	Report No	BSP/SGP/2022/12
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	18.01.2023
Name of the Project	Damini UG	Sample Reference No.	N1-N6

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. Manager's Office	A	09.12.2022	51.4	48.2	
		23.12.2022	54.8	49.5	
2. Lamp room	A	09.12.2022	51.5	49.4	
		23.12.2022	53.6	50.2	
3. Near Main Gate	A	09.12.2022	51.8	48.3	
		23.12.2022	60.5	54.2	
4. Electric Sub Station	A	09.12.2022	52.9	49.4	
		23.12.2022	53.7	50	
5. Kandoha Village	C	09.12.2022	50.7	45.8	
		23.12.2022	44.5	43.6	
6. Siruja Village	C	09.12.2022	48.4	48.5	
		23.12.2022	45.0	42.1	



Sampled by



Checked by



Manager-Environment

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.	16710	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	14551
Sampling Location	Mine discharge of damini u.g. Damini 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	7.65	±0.1272 at 7.0074
4	Total suspended Solids mg/l	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	38.00	±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.		20917		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	15296		
Sampling Location	Down Stream Of Baisaha Nala Damini 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	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	7.26	±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

JSA

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website: www.cmpdi.co.in

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AIR QUALITY REPORT

Month	JANUARY	Area	SOHAGPUR			Report No	BSP/SGP/2023/01/		
Name of the Customer	South Eastern Coalfields Ltd, Bilaspur			Date of Issue	18.02.2023				
Name of the Project	Damini UG			Sample Reference No.	165-166				
Limit (in $\mu\text{g}/\text{m}^3\text{-24 hrs}$)	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
		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						
39. Manager's Office	A-N	03.01.2023	07.01.2023	507	280	69	24		33
		05.01.2023	09.01.2023	480	239	59	23		28
		09.01.2023	13.01.2023	489	233	50	26		33
		11.01.2023	16.01.2023	503	240	54	26	32	
		16.01.2023	20.01.2023	482	244	50	22	27	
		18.01.2023	23.01.2023	490	281	50	21	30	
		20.01.2023	26.01.2023	503	240	64	23	32	
		24.01.2023	29.01.2023	458	212	56	22	30	
		28.01.2023	31.01.2023	471	223	59	24	30	
40. Lamp Room	A-N	03.01.2023	07.01.2023	183	79	53	20	25	
		05.01.2023	09.01.2023	171	76	50	19	23	
		10.01.2023	13.01.2023	192	89	56	24	30	
		12.01.2023	16.01.2023	173	80	53	21	25	
		16.01.2023	20.01.2023	190	92	55	23	27	
		18.01.2023	23.01.2023	199	90	57	22	30	
		20.01.2023	26.01.2023	190	85	54	21	29	
		27.01.2023	29.01.2023	169	74	45	22	25	
		29.01.2023	31.01.2023	179	82	48	20	27	

Dependent
Analyzed by

Amind
Checked by

C.R. Vd.
Manager-Environment

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AIR QUALITY REPORT

Month	JANUARY	Area	SOHAGPUR	Report No	BSP/SGP/2023/01
Name of the Customer	South Eastern Coalfields Ltd, Bilaspur			Date of Issue	18.02.2023
Name of the Project	Damini UG			Sample Reference No.	167-168

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						
41. Near Main Gate	A-N	03.01.2023	07.01.2023	151	61	30	14	21	
		05.01.2023	09.01.2023	150	50	29	12	23	
		10.01.2023	13.01.2023	144	54	38	11	20	
		12.01.2023	16.01.2023	139	62	42	13	26	
		16.01.2023	20.01.2023	144	57	46	13	22	
		18.01.2023	23.01.2023	143	56	38	15	25	
		23.01.2023	26.01.2023	138	59	42	12	21	
		27.01.2023	29.01.2023	142	58	39	14	24	
		29.01.2023	31.01.2023	137	55	48	16	22	
42. Electric Sub Station	A-N	03.01.2023	07.01.2023	512	281	72	24	33	
		05.01.2023	09.01.2023	480	240	58	25	30	
		10.01.2023	13.01.2023	491	236	50	26	35	
		12.01.2023	16.01.2023	509	240	56	27	34	
		16.01.2023	20.01.2023	483	244	50	22	28	
		18.01.2023	23.01.2023	491	280	50	25	31	
		23.01.2023	26.01.2023	503	243	63	23	32	
		27.01.2023	29.01.2023	459	211	57	22	30	
		29.01.2023	31.01.2023	473	223	59	25	32	

Deepankar
Analyzed by

Arind
Checked by

C.K. Vel.
Manager-Environment

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AIR QUALITY REPORT

Month	JANUARY	Area	SOHAGPUR	Report No	BSP/SGP/2023/01
Name of the Customer	South Eastern Coalfields Ltd, Bilaspur			Date of Issue	18.02.2023
Name of the Project	Damini UG			Sample Reference No.	37-38

Limit (in $\mu\text{g}/\text{m}^3\text{-24 hrs}$)	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					
43.Khairaha Village	B	03.01.2023	06.01.2023	123	68	49	15	20
		05.01.2023	09.01.2023	127	67	52	17	23
		09.01.2023	12.01.2023	130	64	55	14	21
		11.01.2023	14.01.2023	132	70	50	19	22
		13.01.2023	16.01.2023	126	72	49	15	21
		18.01.2023	21.01.2023	127	69	51	17	20
		20.01.2023	23.01.2023	126	70	55	18	23
		24.01.2023	27.01.2023	134	73	54	16	21
		28.01.2023	31.01.2023	135	74	57	16	22
44.Kudri village	B	03.01.2023	06.01.2023	133	72	51	20	21
		05.01.2023	09.01.2023	127	75	50	20	24
		09.01.2023	12.01.2023	123	71	50	18	21
		11.01.2023	14.01.2023	128	70	53	21	23
		13.01.2023	16.01.2023	137	77	55	16	21
		18.01.2023	21.01.2023	140	76	59	17	22
		20.01.2023	23.01.2023	144	71	56	19	23
		24.01.2023	27.01.2023	138	74	50	21	24
		28.01.2023	31.01.2023	135	70	49	18	23

Dependent
Analyzed by

Arvind
Checked by

C. K. Reddy
Manager-Environment

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AIR QUALITY REPORT

Month	JANUARY	Area	SOHAGPUR	Report No	BSP/SGP/2023/01
Name of the Customer	South Eastern Coalfields Ltd, Bilaspur			Date of Issue	18.02.2023
Name of the Project	Damini UG			Sample Reference No.	169-170

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					
45. Kandoha Village	B	04.01.2023	07.01.2023	154	79	33	21	28
		06.01.2023	09.01.2023	163	77	40	22	25
		10.01.2023	13.01.2023	173	89	37	25	32
		12.01.2023	16.01.2023	176	80	36	21	25
		17.01.2023	20.01.2023	163	92	46	22	29
		19.01.2023	23.01.2023	172	79	37	22	32
		23.01.2023	26.01.2023	169	86	38	23	30
		27.01.2023	29.01.2023	171	76	47	20	27
		29.01.2023	31.01.2023	180	83	50	20	29
46. Siruja Village	B	04.01.2023	07.01.2023	154	63	32	12	23
		06.01.2023	09.01.2023	152	52	31	13	24
		10.01.2023	13.01.2023	143	56	40	14	20
		12.01.2023	16.01.2023	139	62	44	12	26
		17.01.2023	20.01.2023	142	59	48	13	24
		19.01.2023	23.01.2023	145	56	40	14	25
		23.01.2023	26.01.2023	141	61	44	11	23
		27.01.2023	29.01.2023	143	58	39	14	23
		29.01.2023	31.01.2023	139	57	50	12	24

Dependent
Analyzed by

Original
Checked by

c.x. vel.
Manager-Environment

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

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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	04.02.2023
Name of the Project	Damini UG	Sample Reference No.	N1-N6

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. Manager's Office	A	13.01.2023	54.7	51.8	
		29.01.2023	53.6	49.5	
2. Lamp room	A	13.01.2023	55.8	52.7	
		29.01.2023	50.4	45.3	
3. Near Main Gate	A	13.01.2023	61.4	50.7	
		29.01.2023	50.6	50.0	
4. Electric Sub Station	A	13.01.2023	56.4	50.4	
		29.01.2023	54.4	49.6	
5. Kandoha Village	C	13.01.2023	52.7	46.7	
		29.01.2023	41.3	40.2	
6. Siruja Village	C	13.01.2023	52.3	45.7	
		29.01.2023	40.7	35.6	


Sampled by


Checked by


Manager-Environment

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		20809		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	15392		
Sampling Location	Mine discharge of damini u.g. Damini 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	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	9.20	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.14	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	25.00	±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

JSA

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		22700		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	15696		
Sampling Location	Mine discharge of damini u.g. Damini 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	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	33.00	±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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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		20810		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	15393		
Sampling Location	Up Stream Of Baisaha Nala Damini 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	5.00	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	6.82	±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
Badvel Sreedhar

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

JSA

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		22704		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	15697		
Sampling Location	Up Stream Of Baisaha Nala Damini 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	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	6.89	±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
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.		20808		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	15391		
Sampling Location	Down Stream Of Baisaha Nala Damini 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	6.20	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	6.65	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	39.00	±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.		22696		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	15695		
Sampling Location	Down Stream Of Baisaha Nala Damini 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	7.04	±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

JSA

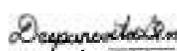
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	LIMITED 469	
	Environment Laboratory, Regional Institute-V, Phone: (07815) 271646, email: rdri5.cmpdi@coalindia.in , website: www.cmpdi.co.in	

AIR QUALITY REPORT

Month	FEBRUARY	Area	SOHAGPUR	Report No	BSP/SGP/2023/02
Name of the Customer	South Eastern Coalfields Ltd, Bilaspur		Date of Issue	13.03.2023	
Name of the Project	Damini UG		Sample Reference No.	165-166	

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						
39. Manager's Office	A-N	02.02.2023	06.02.2023	506	279	68	22	32	
		04.02.2023	08.02.2023	479	238	58	22	27	
		06.02.2023	10.02.2023	488	232	49	25	32	
		15.02.2023	20.02.2023	501	240	54	26	32	
		17.02.2023	21.02.2023	482	243	50	22	27	
		20.02.2023	24.02.2023	490	281	49	21	30	
		22.02.2023	27.02.2023	503	238	64	22	32	
		24.02.2023	28.02.2023	457	212	55	22	29	
40. Lamp Room	A-N	02.02.2023	06.02.2023	182	79	53	20	25	
		04.02.2023	08.02.2023	171	75	50	19	23	
		13.02.2023	17.02.2023	192	89	55	24	30	
		15.02.2023	20.02.2023	173	80	53	20	25	
		17.02.2023	21.02.2023	190	92	55	23	26	
		20.02.2023	24.02.2023	199	90	56	22	30	
		22.02.2023	27.02.2023	190	84	54	21	29	
		24.02.2023	28.02.2023	168	74	45	22	25	

Analyzed by 

Checked by 

Manager-Environment 

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

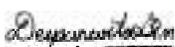
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AIR QUALITY REPORT

Month	FEBRUARY	Area	SOHAGPUR	Report No	BSP/SGP/2023/02
Name of the Customer	South Eastern Coalfields Ltd, Bilaspur		Date of Issue		13.03.2023
Name of the Project	Damini UG		Sample Reference No.		167-168

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						
41. Near Main Gate	A-N	02.02.2023	06.02.2023	150	61	30	14	21	
		04.02.2023	08.02.2023	150	49	29	12	23	
		13.02.2023	17.02.2023	144	54	37	11	20	
		15.02.2023	20.02.2023	139	62	42	12	26	
		17.02.2023	21.02.2023	144	57	46	13	21	
		20.02.2023	24.02.2023	143	56	37	15	25	
		22.02.2023	27.02.2023	138	58	42	12	21	
		24.02.2023	28.02.2023	141	58	39	14	24	
42. Electric Sub Station	A-N	02.02.2023	06.02.2023	511	281	72	24	33	
		05.02.2023	08.02.2023	480	239	58	25	30	
		13.02.2023	17.02.2023	491	236	49	26	35	
		15.02.2023	20.02.2023	509	240	56	25	34	
		17.02.2023	21.02.2023	483	244	50	22	27	
		20.02.2023	24.02.2023	491	278	48	25	31	
		22.02.2023	27.02.2023	501	243	63	23	32	
		24.02.2023	28.02.2023	460	210	55	22	29	

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Checked by 

Manager-Environment 

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AIR QUALITY REPORT

Month	FEBURARY	Area	SOHAGPUR	Report No	BSP/SGP/2023/02
Name of the Customer	South Eastern Coalfields Ltd, Bilaspur		Date of Issue	13.03.2023	
Name of the Project	Damini UG		Sample Reference No.	37-38	

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						
43.Khairaha Village	B	01.02.2023	06.02.2023	121	68	49	15	20	
		04.02.2023	08.02.2023	127	66	52	17	23	
		06.02.2023	17.02.2023	130	64	54	14	21	
		14.02.2023	20.02.2023	132	70	50	18	22	
		16.02.2023	21.02.2023	126	72	49	15	20	
		20.02.2023	24.02.2023	127	69	50	17	20	
		22.02.2023	27.02.2023	126	71	55	18	23	
		24.02.2023	28.02.2023	134	72	54	16	21	
44.Kundari village	B	02.02.2023	06.02.2023	133	71	51	20	21	
		04.02.2023	08.02.2023	126	75	50	20	24	
		06.02.2023	17.02.2023	123	70	50	19	21	
		14.02.2023	20.02.2023	128	69	53	21	21	
		16.02.2023	21.02.2023	137	76	55	16	21	
		21.02.2023	24.02.2023	140	76	59	17	22	
		23.02.2023	27.02.2023	144	71	54	19	24	
		25.02.2023	28.02.2023	138	74	50	21	23	

Analyzed by *[Signature]*

Checked by *[Signature]*

Manager-Environment *[Signature]*

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
Name of the Customer	South Eastern Coalfields Ltd, Bilaspur		Date of Issue		13.03.2023
Name of the Project	Damini UG		Sample Reference No.		169-170

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						
45. Kandoha Village	B	03.02.2023	06.02.2023	183	79	53	21	28	
		05.02.2023	08.02.2023	173	75	50	22	25	
		13.02.2023	17.02.2023	193	89	57	25	32	
		15.02.2023	20.02.2023	176	80	54	21	25	
		17.02.2023	21.02.2023	191	92	56	22	29	
		20.02.2023	24.02.2023	199	90	57	22	32	
		22.02.2023	27.02.2023	190	86	57	23	30	
		24.02.2023	28.02.2023	171	76	47	21	27	
46. Siruja Village	B	03.02.2023	06.02.2023	154	63	32	12	23	
		05.02.2023	08.02.2023	152	51	30	13	24	
		13.02.2023	17.02.2023	141	56	40	14	20	
		15.02.2023	20.02.2023	139	62	44	12	26	
		17.02.2023	21.02.2023	143	59	48	13	24	
		20.02.2023	24.02.2023	145	56	40	14	25	
		22.02.2023	27.02.2023	140	61	44	11	23	
		24.02.2023	28.02.2023	143	57	39	13	22	

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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	Damini UG	Sample Reference No.	N1-N6

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. Manager's Office	A	13.02.2023	64.0	55.7	
		24.02.2023	64.4	52.6	
2. Lamp room	A	13.02.2023	70.8	57.7	
		24.02.2023	66.0	57.0	
3. Near Main Gate	A	13.02.2023	68.4	55.1	
		24.02.2023	61.7	55.6	
4. Electric Sub Station	A	13.02.2023	63.4	50.4	
		24.02.2023	58.0	53.0	
5. Kandoha Village	C	13.02.2023	50.6	41.6	
		24.02.2023	51.6	44.2	
6. Siruja Village	C	13.02.2023	46.6	41.6	
		24.02.2023	47.4	42.2	

Sampled by

Checked by

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.		22995		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	15828	
Sampling Location	Mine discharge of damini u.g. Damini 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	7.75	±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

JSA

Note:

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		26380		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	16086		
Sampling Location	Mine discharge of damini u.g. Damini 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	7.41	±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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 Environment Laboratory, Regional Institute-V
 CMPDI Complex Seepat Road, Bilaspur (C.G)-495006
 www.cmpdi.co.in 07752-246371 hk.gour@coalindia.in

TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		22996		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	15829		
Sampling Location	Up Stream Of Baisaha Nala Damini 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	7.75	±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

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.
 - b. This report shall not be reproduced except in full without approval of the laboratory.

TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		26381		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	16087		
Sampling Location	Up Stream Of Baisaha Nala Damini 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	7.36	±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

Note:

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		22994		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	15827		
Sampling Location	Down Stream Of Baisaha Nala Damini 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	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	7.56	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	19.00	±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.		26379		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	16085		
Sampling Location	Down Stream Of Baisaha Nala Damini 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	7.39	±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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