



**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

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*A Mini-Ratna
Company*

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	Damini UG	Sample Reference No.	39-40

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	02.03.2023	06.03.2023	497	279	68	22	32
		04.03.2023	09.03.2023	479	236	58	22	27
		09.03.2023	13.03.2023	488	232	49	24	32
		11.03.2023	16.03.2023	500	240	54	26	32
		14.03.2023	18.03.2023	482	243	50	22	26
		21.03.2023	24.03.2023	490	281	49	21	30
		23.03.2023	27.03.2023	498	268	46	20	28
		28.03.2023	30.03.2023	495	238	64	22	32
40. Lamp Room	A-N	02.03.2023	06.03.2023	182	79	53	20	25
		04.03.2023	09.03.2023	171	75	50	19	23
		09.03.2023	13.03.2023	192	89	55	24	30
		11.03.2023	16.03.2023	189	87	53	21	28
		14.03.2023	18.03.2023	173	80	53	20	25
		21.03.2023	24.03.2023	190	92	55	23	26
		23.03.2023	27.03.2023	179	79	56	24	30
		28.03.2023	30.03.2023	190	84	54	26	29
		30.03.2023	01.04.2023	168	74	45	22	25

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	MARCH	Area	SOHAGPUR	Report No	BSP/SGP/2023/03
Name of the Customer	South Eastern Coalfields Ltd, Bilaspur		Date of Issue		02.04.2023
Name of the Project	Damini UG		Sample Reference No.		41-42

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	02.03.2023	06.03.2023	150	61	30	14	21	
		04.03.2023	09.03.2023	150	49	29	12	23	
		09.03.2023	13.03.2023	144	54	37	11	20	
		11.03.2023	16.03.2023	139	62	42	12	26	
		14.03.2023	18.03.2023	146	61	40	14	25	
		21.03.2023	24.03.2023	137	57	46	13	21	
		23.03.2023	27.03.2023	143	56	37	15	25	
		28.03.2023	30.03.2023	138	58	42	12	21	
42. Electric Sub Station	A-N	03.03.2023	06.03.2023	471	231	72	24	33	
		06.03.2023	09.03.2023	480	239	58	25	30	
		09.03.2023	13.03.2023	491	236	49	26	35	
		11.03.2023	16.03.2023	478	221	56	25	34	
		14.03.2023	18.03.2023	498	236	58	21	33	
		21.03.2023	24.03.2023	483	244	50	22	27	
		23.03.2023	27.03.2023	491	278	48	25	31	
		28.03.2023	30.03.2023	490	243	63	23	32	
		30.03.2023	01.04.2023	460	210	55	22	29	

Devi...

Analyzed by

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Checked by

C.K. ...

Manager-Environment

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AIR QUALITY REPORT

Month	MARCH	Area	SOHAGPUR			Report No	BSP/SGP/2023/03			
Name of the Customer	South Eastern Coalfields Ltd, Bilaspur			Date of Issue			02.04.2023			
Name of the Project	Damini UG			Sample Reference No.			43-44			
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
			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	01.03.2023	07.03.2023	160	62	41	16	20		
		04.03.2023	07.03.2023	162	64	46	20	24		
		10.03.2023	17.03.2023	168	68	42	14	18		
		13.03.2023	17.03.2023	170	70	44	18	22		
		15.03.2023	17.03.2023	174	66	48	17	23		
		22.03.2023	25.03.2023	166	63	52	15	20		
		24.03.2023	25.03.2023	165	59	47	13	18		
		27.03.2023	01.04.2023	159	58	54	16	21		
44.Kudri village	B	02.03.2023	07.03.2023	164	62	40	15	21		
		04.03.2023	07.03.2023	168	64	38	17	21		
		10.03.2023	17.03.2023	172	65	42	16	20		
		13.03.2023	17.03.2023	170	70	36	20	24		
		15.03.2023	17.03.2023	166	66	44	19	23		
		22.03.2023	25.03.2023	165	59	39	18	22		
		24.03.2023	25.03.2023	160	55	41	16	19		
		27.03.2023	01.04.2023	162	56	40	15	19		
		29.03.2023	01.04.2023	171	59	42	20	23		

Department
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Manager-Environment

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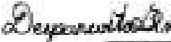
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AIR QUALITY REPORT

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	Damini UG	Sample Reference No.	45-46

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					
45. Kandoha Village	B	03.03.2023	06.03.2023	183	79	53	21	28
		06.03.2023	09.03.2023	173	68	39	22	25
		09.03.2023	13.03.2023	193	89	37	25	32
		11.03.2023	16.03.2023	176	80	34	21	25
		14.03.2023	18.03.2023	191	79	46	22	29
		21.03.2023	24.03.2023	187	91	41	21	27
		23.03.2023	27.03.2023	179	71	37	22	32
		28.03.2023	30.03.2023	190	86	33	23	30
46. Siruja Village	B	03.03.2023	06.03.2023	154	63	32	22	23
		06.03.2023	09.03.2023	145	51	30	28	24
		09.03.2023	13.03.2023	141	56	37	34	20
		11.03.2023	16.03.2023	153	62	44	30	26
		14.03.2023	18.03.2023	137	61	39	31	24
		21.03.2023	24.03.2023	148	59	48	21	24
		23.03.2023	27.03.2023	135	56	39	27	25
		28.03.2023	30.03.2023	140	61	44	26	29
		30.03.2023	01.04.2023	146	57	38	23	27

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Manager-Environment 

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NOISE QUALITY REPORT

Month	MARCH	Area	SOHAGPUR	Report No	BSP/SGP/2023/03
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	02.04.2023
Name of the Project	Damini UG	Sample Reference No.	N1-N8

Parameter			The Noise Pollution (R & C) rules, 2000		Remarks
			Day Time	Night Time	
Limit (in dB(A) Leq	Industrial area	A	75	70	
	Commercial area	B	65	55	
	Residential Area	C	55	45	
	Silence Zone	D	50	40	
Method of analysis	CPCB Protocol For Ambient Level Noise Monitoring				
Station (Code) Station Name	Station category	Date of measurement	Value in dB(A)	Value in dB(A)	
1. Manager's Office	A	15.03.2023	55.2	48.5	
		23.03.2023	57.5	45.3	
2. Lamp room	A	15.03.2023	54.7	48.9	
		23.03.2023	56.5	45.4	
3. Near Main Gate	A	15.03.2023	62.1	54.1	
		23.03.2023	57.2	45.5	
4. Electric Sub Station	A	15.03.2023	50.4	47.3	
		23.03.2023	56.6	45.4	
5. <u>Khairaha village</u>	C	12.03.2023	46.5	41.6	
		23.03.2023	46.5	34.3	
6. <u>Kundri village</u>	C	12.03.2023	44.4	41.3	
		23.03.2023	46.6	33.4	
7. Kandoha Village	C	15.03.2023	46.2	42.2	
		23.03.2023	44.6	34.5	
8. Siruja Village	C	15.03.2023	43.8	40.2	
		23.03.2023	45.4	34.4	


Sampled by


Checked by


Manager-Environment

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		26396		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	16254		
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	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	5.00	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.21	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	12.00	±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.	28885	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	16442
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	20-03-2023	Date of Analysis	From 07-03-2023 To 27-03-2023

Sr. No	Parameter	Test At	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	Main	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	16.00	±6.209 at 247.427
2	Oil & Grease mg/l	Main	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.78	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	62.00	±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.		26397		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	16255		
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	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	BDL	±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	7.42	±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
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.		28889		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	16443		
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	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	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	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	7.78	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	45.00	±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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Note:
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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.	26397	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	16255
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	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	BDL	±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	7.42	±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
Badvel Sreedhar

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

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

TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		28881		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	16441		
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	20-03-2023	Date of Analysis	From 07-03-2023 To 27-03-2023		

Sr. No	Parameter	Test At	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	Main	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	16.00	±6.209 at 247.427
2	Oil & Grease mg/l	Main	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.78	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	74.00	±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	24.11.2022
Name of the Project	Dhanpuri OCM	Sample Reference No.	14-15

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					
14 .DOCM Workshop	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	17.10.2022	505	245	75	30	37
		13.10.2022	17.10.2022	501	248	72	28	36
		17.10.2022	24.10.2022	492	244	62	25	32
		19.10.2022	24.10.2022	480	235	60	23	30
		21.10.2022	24.10.2022	488	242	63	26	31
		26.10.2022	31.10.2022	498	246	66	28	35
15.DOCM MTK 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	17.10.2022	180	74	50	25	29
		13.10.2022	17.10.2022	202	96	62	22	26
		17.10.2022	24.10.2022	195	88	58	21	28
		19.10.2022	24.10.2022	192	90	55	20	25
		21.10.2022	24.10.2022	188	85	52	21	27
		26.10.2022	31.10.2022	194	92	57	22	26
28.10.2022	31.10.2022	198	92	58	23	30		

Deeparatibala

Analyzed by

Rajendra Singh

Checked by

C.K. Verma

Manager-Environment

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AIR QUALITY REPORT

Month	OCTOBER	Area	SOHAGPUR	Report No	BSP/SGP/2022/10
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	24.11.2022
Name of the Project	Dhanpuri OCM	Sample Reference No.	16

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						
16. Sanjay Nagar Colony	B	06.10.2022	10.10.2022	144	62	40	14	20	
		10.10.2022	17.10.2022	140	64	38	15	21	
		12.10.2022	17.10.2022	142	65	42	12	17	
		14.10.2022	17.10.2022	138	58	41	13	18	
		18.10.2022	24.10.2022	145	65	45	11	16	
		20.10.2022	24.10.2022	135	55	39	16	22	
		25.10.2022	31.10.2022	143	61	44	15	23	
		27.10.2022	31.10.2022	137	52	38	11	17	
29.10.2022	31.10.2022	142	65	40	13	20			

Deepankar Singh
Analyzed by

Ramesh Singh
Checked by

C.R. V.
Manager-Environment

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AIR QUALITY REPORT

Month	OCTOBER	Area	SOHAGPUR	Report No	BSP/SGP/2022/10
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	24.11.2022
Name of the Project	Dhanpuri OCM	Sample Reference No.	17-18

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						
17.Donhatola Village	B	06.10.2022	10.10.2022	506	255	75	26	33	
		10.10.2022	17.10.2022	510	260	78	28	34	
		12.10.2022	17.10.2022	498	245	66	30	37	
		14.10.2022	17.10.2022	515	264	80	29	35	
		18.10.2022	24.10.2022	495	248	64	32	39	
		20.10.2022	24.10.2022	505	252	72	31	36	
		25.10.2022	31.10.2022	512	262	76	33	38	
		27.10.2022	31.10.2022	494	244	68	34	40	
		29.10.2022	31.10.2022	520	260	73	35	41	
18. Bamhauri Village	B	06.10.2022	10.10.2022	360	155	55	17	23	
		10.10.2022	17.10.2022	355	152	52	16	24	
		12.10.2022	17.10.2022	345	160	45	18	25	
		14.10.2022	17.10.2022	362	165	50	15	20	
		18.10.2022	24.10.2022	350	165	58	19	26	
		20.10.2022	24.10.2022	348	158	44	14	19	
		25.10.2022	31.10.2022	365	162	54	18	24	
		27.10.2022	31.10.2022	358	150	49	19	27	
		29.10.2022	31.10.2022	352	158	52	18	25	

Deependra Kumar
Analyzed by

Rajendra Singh
Checked by

C.K. Verma
Manager-Environment

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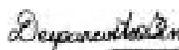
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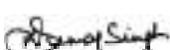
AIR QUALITY REPORT

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	Dhanpuri OCM	Sample Reference No.	19-20

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						
19.Silpari Village	B	06.10.2022	10.10.2022	145	68	38	12	18	
		10.10.2022	17.10.2022	150	72	40	14	19	
		12.10.2022	17.10.2022	140	65	39	10	16	
		14.10.2022	17.10.2022	152	74	42	11	18	
		18.10.2022	24.10.2022	148	62	37	13	19	
		20.10.2022	24.10.2022	138	60	35	10	17	
		25.10.2022	31.10.2022	142	64	40	12	20	
		27.10.2022	31.10.2022	155	62	44	11	18	
		29.10.2022	31.10.2022	144	65	40	12	20	
20."D" SECTOR	A-O	06.10.2022	10.10.2022	140	64	36	10	17	
		10.10.2022	17.10.2022	143	62	39	09	15	
		12.10.2022	17.10.2022	137	65	35	11	18	
		14.10.2022	17.10.2022	139	61	38	12	20	
		18.10.2022	24.10.2022	144	63	40	13	21	
		20.10.2022	24.10.2022	142	64	41	10	19	
		25.10.2022	31.10.2022	145	66	38	14	21	
		27.10.2022	31.10.2022	135	65	37	13	19	
		29.10.2022	31.10.2022	145	64	39	10	16	


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Checked by


Manager-Environment

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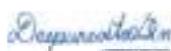
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NOISE QUALITY REPORT

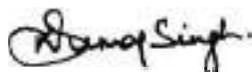
Month	OCTOBER	Area	SOHAGPUR	Report No	BSP/SGP/2022/10
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	24.11.2022
Name of the Project	Dhanpuri OCM	Sample Reference No.	N17-20

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)	
17. DOCM Project Office	A	11.10.2022	44.2	44.6	
		17.10.2022	45.3	42.5	
18. DOCM MTK Office	A	11.10.2022	43.6	44.8	
		17.10.2022	45.2	42.3	
19. DOCM Check Post	A	11.10.2022	43.8	49.5	
		17.10.2022	45.3	43.3	
20. Sanjay Nagar Colony	C	11.10.2022	43.6	54.9	
		17.10.2022	45.9	44.2	



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Manager-Environment

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NOISE QUALITY REPORT

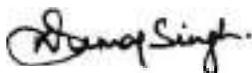
Month	OCTOBER	Area	SOHAGPUR	Report No	BSP/SGP/2022/10
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	24.11.2022
Name of the Project	Dhanpuri OCM	Sample Reference No.	N21-24

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)	
21. Donhatola Village	C	11.10.2022	44.2	44.6	
		17.10.2022	45.3	42.5	
22. Bamhauri Village	C	11.10.2022	43.6	44.8	
		17.10.2022	45.2	42.3	
23. Silpari Village	C	11.10.2022	43.8	49.5	
		17.10.2022	45.3	43.3	
24. "D" Sector	A	11.10.2022	43.6	54.9	
		17.10.2022	45.9	44.2	



Analyzed by



Checked by



Manager-Environment

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		TC-74012213156		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	12983		
Sampling Location	Mine Discharge Dhanpuri O.C.M.	Sampling Plan	FORTNIGHTLY	Sampling Method	CMPDI/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	16-10-2022	Date of Analysis	From 16-10-2022 To 18-10-2022		

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

Reported By
Deepanwita Bin

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

JSA

Note:

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		TC-74012214649		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	13145		
Sampling Location	Mine Discharge Dhanpuri O.C.M.	Sampling Plan	As Per Monthly Plan	Sampling Method	CMPDI/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	31-10-2022	Date of Analysis	From 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	7.47	±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

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	DHANPURI 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.DOCM Workshop	A-O	02.11.2022	10.11.2022	489	227	67	27	35
		03.11.2022	10.11.2022	493	242	65	28	36
		07.11.2022	17.11.2022	502	243	74	29	35
		10.11.2022	17.11.2022	499	247	71	27	35
		14.11.2022	24.11.2022	494	245	61	24	31
		17.11.2022	24.11.2022	482	236	62	25	32
		21.11.2022	01.12.2022	486	241	62	24	30
		22.11.2022	01.12.2022	502	249	68	29	36
2. DOCM MTK OFFICE	A-O	02.11.2022	10.11.2022	192	91	52	23	28
		03.11.2022	10.11.2022	187	80	49	22	27
		07.11.2022	17.11.2022	184	76	52	26	30
		10.11.2022	17.11.2022	196	94	60	21	25
		14.11.2022	24.11.2022	200	95	61	22	27
		17.11.2022	24.11.2022	194	89	53	20	24
		21.11.2022	01.12.2022	186	84	51	22	26
		22.11.2022	01.12.2022	192	91	56	23	27
		24.11.2022	01.12.2022	196	93	59	24	30

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Analyzed by

Raj...

Checked by

C. K. Vel...

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	10.12.2022
Name of the Project	DHANPURI 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. SANJAY NAGAR COLONY	B	02.11.2022	10.11.2022	146	65	41	16	19	
		03.11.2022	10.11.2022	142	63	38	15	20	
		07.11.2022	17.11.2022	136	61	40	14	18	
		10.11.2022	17.11.2022	139	60	43	17	19	
		14.11.2022	24.11.2022	146	66	47	13	15	
		17.11.2022	24.11.2022	132	53	37	14	20	
		21.11.2022	01.12.2022	140	59	43	16	21	
		22.11.2022	01.12.2022	137	51	38	12	18	
		24.11.2022	01.12.2022	144	66	41	14	21	

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Analyzed by

Ranjit Singh

Checked by

C.K. Verma

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	10.12.2022
Name of the Project	Dhanpuri 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						
4. Donhatola Village	B	02.11.2022	10.11.2022	508	256	76	27	34	
		03.11.2022	10.11.2022	514	262	80	29	33	
		07.11.2022	17.11.2022	501	247	68	31	38	
		10.11.2022	17.11.2022	510	262	79	30	39	
		14.11.2022	24.11.2022	497	249	65	33	38	
		17.11.2022	24.11.2022	508	254	74	33	37	
		21.11.2022	01.12.2022	512	258	75	34	38	
		22.11.2022	01.12.2022	496	245	69	35	41	
5. Bamhauri Vilage	B	02.11.2022	10.11.2022	362	156	56	18	24	
		03.11.2022	10.11.2022	358	154	53	17	25	
		07.11.2022	17.11.2022	341	158	43	19	24	
		10.11.2022	17.11.2022	354	161	47	20	23	
		14.11.2022	24.11.2022	351	166	59	19	26	
		17.11.2022	24.11.2022	346	157	43	15	18	
		21.11.2022	01.12.2022	356	160	52	17	21	
		22.11.2022	01.12.2022	355	148	47	18	25	
		24.11.2022	01.12.2022	350	157	51	16	20	

Deeparanjan

Analyzed by

Aravind Singh

Checked by

C. K. Verma

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	10.12.2022
Name of the Project	Dhanpuri 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						
6. Silpari Village	B	02.11.2022	10.11.2022	143	67	37	13	17	
		03.11.2022	10.11.2022	152	73	41	15	20	
		07.11.2022	17.11.2022	144	66	40	11	15	
		10.11.2022	17.11.2022	156	76	43	12	19	
		14.11.2022	24.11.2022	146	61	36	12	18	
		17.11.2022	24.11.2022	140	62	35	11	16	
		21.11.2022	01.12.2022	148	66	42	14	21	
		22.11.2022	01.12.2022	157	63	45	12	19	
		24.11.2022	01.12.2022	140	63	38	10	14	
7. D Sector	A-O	02.11.2022	10.11.2022	142	65	37	11	18	
		03.11.2022	10.11.2022	146	66	39	10	14	
		07.11.2022	17.11.2022	132	63	33	12	16	
		10.11.2022	17.11.2022	138	60	37	11	15	
		14.11.2022	24.11.2022	148	64	42	14	20	
		17.11.2022	24.11.2022	140	63	40	12	18	
		21.11.2022	01.12.2022	143	65	37	13	20	
		22.11.2022	01.12.2022	138	67	39	14	19	
		24.11.2022	01.12.2022	149	65	40	12	18	

Department
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	23.12.2022
Name of the Project	DHANPURI OCM	Sample Reference No.	N33-N40

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)	
34. DOCM Project Office	A	11.11.2022	52.3	46.7	
		24.11.2022	48.7	45.1	
35. DOCM MTK Office	A	11.11.2022	51.0	48.2	
		24.11.2022	51.2	48.0	
36. DOCM Check Post	A	11.11.2022	56.4	52.6	
		24.11.2022	51.2	49.9	
37. Sanjay Nagar Colony	C	11.11.2022	45.5	58.3	
		24.11.2022	49.5	50.3	
38. Donhatola Village	C	11.11.2022	44.1	40.9	
		24.11.2022	48.2	43.4	
39. Bamhauri Village	C	11.11.2022	44.3	42.1	
		24.11.2022	47.6	42.6	
40. Silpari Village	C	11.11.2022	45.1	44.0	
		24.11.2022	47.4	43.6	
41. "D" Sector	C	11.11.2022	54.4	51.6	
		24.11.2022	53.5	49.3	

Deepanshu

Sampled by

Rajendra Singh

Checked by

C.K. Verma

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-74012214700		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	13212		
Sampling Location	Mine Discharge Dhanpuri O.C.M.	Sampling Plan	Fortnightly Plan	Sampling Method	CMPDI/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	07-11-2022	Date of Analysis	From 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	7.21	±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
Akash Gupta

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

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-74012216629		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	14498		
Sampling Location	Mine Discharge Dhanpuri O.C.M.	Sampling Plan	FORTNIGHTLY	Sampling Method	CMPDI/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	27-11-2022	Date of Analysis	From 27-11-2022 To 12-12-2022		

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

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

JSA

Note:

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AIR QUALITY REPORT

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

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		
		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. Dhanpuri OC Sector D	A-O	01.12.2022	07.12.2022	475	217	66	29	33	
		05.12.2022	18.12.2022	480	232	60	32	38	
		08.12.2022	18.12.2022	475	233	76	27	29	
		12.12.2022	18.12.2022	479	257	72	30	32	
		15.12.2022	25.12.2022	464	255	63	34	38	
		19.12.2022	25.12.2022	478	266	64	28	30	
		22.12.2022	03.01.2023	468	271	66	24	27	
		26.12.2022	03.01.2023	512	239	69	29	33	
		29.12.2022	03.01.2023	532	267	77	33	38	
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	

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Checked by

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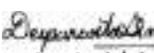
AIR QUALITY REPORT

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	DHANPURI 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 Sub Station	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		
		30.12.2022	03.01.2023	189	62	41	14	18		
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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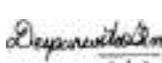
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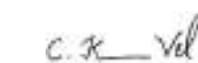
Month	DECEMBER	Area	SOHAGPUR	Report No	BSP/SGP/2022/12
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	18.01.2023
Name of the Project	DHANPURI OCM	Sample Reference No.	5-6

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	
31.12.2022	03.01.2023	121	60	33	13	17			
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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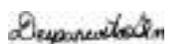
AIR QUALITY REPORT

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	Dhanpuri 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	
31.12.2022	03.01.2023	126	53	32	12	15			
8. 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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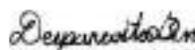
NOISE QUALITY REPORT

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	18.01.2023
Name of the Project	DHANPURI OCM	Sample Reference No.	N33-N40

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. Dhanpuri OC Sector D	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 Sub Station	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. Bemhourri 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	


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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.	16712	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	14553
Sampling Location	Mine Discharge Dhanpuri O.C.M.	Sampling Plan	AS PER FORTNIGHTLY PLAN	Sampling Method	CMPDI/BSP/LSOP
Sample Condition	APPROPRIATE	Date of Receipt of Sample	05-12-2022	Date of Analysis	From 06-12-2022 To 30-12-2022

Sr.No	Parameter	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	32.64	±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	7.66	±0.1272 at 7.0074
4	Total suspended Solids mg/l	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	169.00	±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.		20929		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	15299		
Sampling Location	Mine Discharge Dhanpuri O.C.M.	Sampling Plan	AS PER FORTNIGHT PLAN	Sampling Method	CMPDIL/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	26-12-2022	Date of Analysis	From 30-12-2022 To 11-01-2023		

Sr.No	Parameter	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	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	7.36	±0.1272 at 7.0074
4	Total suspended Solids mg/l	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	BDL	±0.445 @ 24.429

Reported By
Salim Khan

Reviewed and Approved
M. Reagan
Manager (Env)

Date&Time :12-01-2023 10:33:23

JSA

Note:
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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	DHANPURI 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. Dhanpuri OC Sector D	A-O	02.01.2023	09.01.2023	359	167	70	29	30	
		04.01.2023	09.01.2023	459	213	67	30	32	
		10.01.2023	17.01.2023	513	245	73	29	34	
		12.01.2023	19.01.2023	437	176	66	27	30	
		16.01.2023	21.01.2023	369	148	78	29	34	
		20.01.2023	26.01.2023	397	144	69	28	31	
		23.01.2023	27.01.2023	426	173	70	27	30	
		27.01.2023	31.01.2023	510	238	67	29	32	
		29.01.2023	31.01.2023	327	145	73	28	30	
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	

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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	DHANPURI 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. 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	
		28.01.2023	30.01.2023	198	67	41	13	18	
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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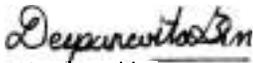
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AIR QUALITY REPORT

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	05.02.2023
Name of the Project	DHANPURI 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. Bemhouri Village (South)	B	3.01.2023	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	
		02.01.2023	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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Note: 1) The results above relate to the samples tested.

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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	Dhanpuri 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	03.01.2023	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	
		02.01.2023	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. 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	
		02.01.2023	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	

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C.K. Vel
Manager-Environment

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NOISE QUALITY REPORT

Month	JANUARY	Area	SOHAGPUR	Report No	BSP/SGP/2023/01
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	05.02.2023
Name of the Project	DHANPURI OCM	Sample Reference No.	N33-N40

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. Dhanpuri OC Sector D	A	13.01.2023	58.8	55.7	
		27.01.2023	58.4	49.5	
2. Weigh Bridge Amlai	A	13.01.2023	62.6	57.8	
		27.01.2023	57.2	45.4	
3. Electric Sub- Station	A	13.01.2023	60.6	56.2	
		27.01.2023	55.0	44.4	
4. Workshop Dhanpuri	A	13.01.2023	60.4	55.5	
		27.01.2023	58.8	48.4	
5. Bemhourri Village (South)	C	13.01.2023	43.8	40.7	
		27.01.2023	42.6	36.5	
6. Sanjay Nagar Colony (East)	C	13.01.2023	45.7	41.8	
		27.01.2023	43.4	38.5	
7. Amlai CISF Camp (North)	C	13.01.2023	44.7	46.0	
		27.01.2023	41.5	37.4	
8. Silpari Village	C	13.01.2023	45.5	43.1	
		27.01.2023	44.4	36.0	



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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.	20811	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	15394
Sampling Location	Mine Discharge Dhanpuri O.C.M.	Sampling Plan	AS PER MONTHLY PLAN	Sampling Method	CMPDIL/BSP/LSOP
Sample Condition	APPROPRIATE	Date of Receipt of Sample	09-01-2023	Date of Analysis	From 10-01-2023 To 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	7.40	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.05	±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

Note:
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 * General Standards for Discharge of Environmental Pollution(Part A:Effluent) as per Schedule VI,Environment (Protection) Rules
 a. The results relate only to the item sampled and tested.
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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		22708		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	15698		
Sampling Location	Mine Discharge Dhanpuri O.C.M.	Sampling Plan	As per fortnightly plan	Sampling Method	CMPDI/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	23-01-2023	Date of Analysis	From 05-02-2023 To 05-02-2023		

Sr. No	Parameter	Test At	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	Main	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	24.48	±6.209 at 247.427
2	Oil & Grease mg/l	Main	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	6.77	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	30.00	±0.445 @ 24.429

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

Reported By
D.Dayakar

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

JSA

Note:
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AIR QUALITY REPORT

Month	FEBRUARY	Area	SOHAGPUR	Report No	BSP/SGP/2023/02
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	13.03.2023
Name of the Project	DHANPURI 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. Dhanpuri OC Sector D	A-O	03.02.2023	22.02.2023	376	182	70	28	31	
		05.02.2023	22.02.2023	438	192	59	29	32	
		14.02.2023	22.02.2023	510	244	72	27	30	
		16.02.2023	22.02.2023	434	178	67	27	29	
		17.02.2023	22.02.2023	372	149	79	30	35	
		21.02.2023	22.02.2023	401	146	71	29	32	
		23.02.2023	03.03.2023	430	176	73	26	29	
		25.02.2023	03.03.2023	512	239	68	29	31	
2. Weigh Bridge Amlai	A-O	02.02.2023	22.02.2023	182	60	41	13	17	
		04.02.2023	22.02.2023	194	61	46	16	20	
		16.02.2023	22.02.2023	199	68	42	14	19	
		17.02.2023	22.02.2023	194	73	41	12	16	
		20.02.2023	22.02.2023	189	64	44	15	19	
		22.02.2023	03.03.2023	197	63	46	16	20	
		24.02.2023	03.03.2023	200	68	42	14	19	
		26.02.2023	03.03.2023	189	64	44	15	20	

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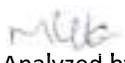
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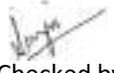
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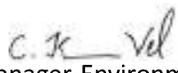
Month	FEBRUARY	Area	SOHAGPUR	Report No	BSP/SGP/2023/02
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	13.03.2023
Name of the Project	DHANPURI OCM	Sample Reference No.	3-4

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 Sub Station	A-O	02.02.2023	22.02.2023	186	63	42	13	16	
		04.02.2023	22.02.2023	190	65	44	15	18	
		13.02.2023	22.02.2023	201	64	41	14	20	
		14.02.2023	22.02.2023	196	68	40	13	18	
		15.02.2023	22.02.2023	198	67	41	13	18	
		16.02.2023	22.02.2023	194	73	41	12	16	
		23.02.2023	03.03.2023	190	64	45	15	19	
		25.02.2023	03.03.2023	199	63	43	14	18	
4. Workshop Dhanpuri	A-O	02.02.2023	22.02.2023	192	72	41	13	15	
		04.02.2023	22.02.2023	189	64	45	15	19	
		16.02.2023	22.02.2023	198	62	46	16	20	
		17.02.2023	22.02.2023	200	68	43	14	19	
		20.02.2023	22.02.2023	182	59	41	13	15	
		22.02.2023	03.03.2023	190	62	44	16	19	
		24.02.2023	03.03.2023	183	58	40	17	20	
		26.02.2023	03.03.2023	201	63	46	16	21	

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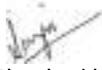
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Month	FEBRUARY	Area	SOHAGPUR	Report No	BSP/SGP/2023/02
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	13.03.2023
Name of the Project	DHANPURI OCM	Sample Reference No.	5-6

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	02.02.2023	22.02.2023	124	56	35	13	16	
		05.02.2023	22.02.2023	128	58	34	14	17	
		13.02.2023	22.02.2023	122	54	33	13	16	
		14.02.2023	22.02.2023	140	59	38	19	25	
		15.02.2023	22.02.2023	129	58	39	15	18	
		16.02.2023	22.02.2023	132	53	34	11	16	
		23.02.2023	03.03.2023	143	64	34	16	23	
		25.02.2023	03.03.2023	149	62	42	21	25	
6. Sanjay Nagar Colony (East)	B	02.02.2023	22.02.2023	129	56	36	15	18	
		05.02.2023	22.02.2023	126	59	32	11	13	
		16.02.2023	22.02.2023	120	55	29	12	14	
		17.02.2023	22.02.2023	126	55	32	11	15	
		20.02.2023	22.02.2023	132	59	35	13	15	
		22.02.2023	03.03.2023	129	58	34	14	17	
		24.02.2023	03.03.2023	121	50	30	11	14	
		27.02.2023	03.03.2023	132	53	39	17	26	

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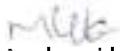
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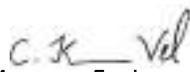
Month	FEBRUARY	Area	SOHAGPUR	Report No	BSP/SGP/2023/02
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	13.03.2023
Name of the Project	Dhanpuri OCM	Sample Reference No.	7-8

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	08.02.2023	22.02.2023	136	65	34	17	23	
		05.02.2023	22.02.2023	140	66	41	21	25	
		13.02.2023	22.02.2023	121	55	33	11	13	
		14.02.2023	22.02.2023	127	58	35	14	17	
		15.02.2023	22.02.2023	124	56	33	12	14	
		16.02.2023	22.02.2023	121	54	32	10	13	
		23.02.2023	03.03.2023	126	55	32	11	17	
		25.02.2023	03.03.2023	130	59	35	13	15	
8. Silpari Village	B	03.02.2023	22.02.2023	117	50	26	10	13	
		05.02.2023	22.02.2023	118	41	28	15	18	
		13.02.2023	22.02.2023	112	46	26	12	14	
		14.02.2023	22.02.2023	113	49	27	12	16	
		15.02.2023	22.02.2023	118	48	28	13	17	
		16.02.2023	22.02.2023	116	46	25	14	18	
		24.02.2023	03.03.2023	105	47	26	14	15	
		27.02.2023	03.03.2023	102	48	24	15	17	

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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	DHANPURI OCM	Sample Reference No.	N33-N40

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. Dhanpuri OC Sector D	A	16.02.2023	57.8	46.6	
		26.02.2023	56.5	50.4	
2. Weigh Bridge Amlai	A	15.02.2023	58.4	46.6	
		25.02.2023	57.4	51.5	
3. Electrical Sub Station	A	15.02.2023	57.5	45.4	
		25.02.2023	55.7	51.3	
4. Workshop Dhanpuri	A	15.02.2023	59.4	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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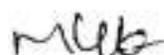
NOISE QUALITY REPORT

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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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		22997		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	15830		
Sampling Location	Mine Discharge Dhanpuri O.C.M.	Sampling Plan	AS PER FORTNIGHTLY PLAN	Sampling Method	CMPDI/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	08-02-2023	Date of Analysis	From 14-02-2023 To 23-02-2023		

Sr. No	Parameter	Test At	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	Main	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	BDL	±6.209 at 247.427
2	Oil & Grease mg/l	Main	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.44	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	13.00	±0.445 @ 24.429

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

Reported By
Sanjivkumar Singh

Reviewed and Approved
M. Reagan

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

JSA

Note:

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		26382		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	16088		
Sampling Location	Mine Discharge Dhanpuri O.C.M	Sampling Plan	AS PER FORTNIGHTLY PLAN	Sampling Method	CMPDI/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	26-02-2023	Date of Analysis	From 26-02-2023 To 01-03-2023		

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

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

Reported By
Santosh Kumar Singh

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

JSA

Note:

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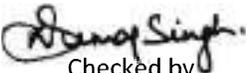
AIR QUALITY REPORT

Month	MARCH	Area	SOHAGPUR	Report No	BSP/SGP/2023/03
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	02.04.2023
Name of the Project	DHANPURI OCM	Sample Reference No.	50-51

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					
50. Dhanpuri OC Sector D	A-O	03.03.2023	11.03.2023	320	80	61	22	26
		06.03.2023	11.03.2023	340	85	75	24	27
		10.03.2023	11.03.2023	370	86	71	25	30
		13.03.2023	18.03.2023	255	90	72	28	31
		15.03.2023	18.03.2023	280	92	74	21	26
		20.03.2023	25.03.2023	276	98	78	27	32
		24.03.2023	25.03.2023	250	96	80	25	29
		28.03.2023	01.04.2023	257	82	74	22	25
		30.03.2023	01.04.2023	280	87	70	29	33
51. 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		


Analyzed by


Checked by


Manager-Environment

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

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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	DHANPURI OCM	Sample Reference No.	52-53

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						
52. Electrical Sub Station	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	
53. 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	

Baghel
Analyzed by

Dhan Singh
Checked by

C.K. Verma
Manager-Environment

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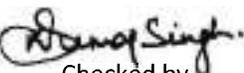
AIR QUALITY REPORT

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	DHANPURI OCM	Sample Reference No.	54-55

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						
54. Bemhourri 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	
55. 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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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	Dhanpuri OCM	Sample Reference No.	56-58

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						
56. 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	
58. Silpari Village	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	

Baghel
Analyzed by

Dhan Singh
Checked by

C.K. Verma
Manager-Environment

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

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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	DHANPURI OCM	Sample Reference No.	50-58

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. Dhanpuri OC Sector D	A	12.03.2023	61.3	56.6	
		22.03.2023	53.8	49.8	
2. Weigh Bridge Amlai	A	12.03.2023	56.3	52.1	
		22.03.2023	53.5	48.8	
3. Electrical Sub Station	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. Bemhouri 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	52.4	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. Silpari Village	C	12.03.2023	53.5	40.7	
		22.03.2023	43.0	39.5	



Sampled by



Checked by



Manager-Environment

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.	26398	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	16256
Sampling Location	Mine Discharge Dhanpuri O.C.M.	Sampling Plan	AS PER FORTNIGHTLY PLAN	Sampling Method	CMPDI/BSP/LSOP
Sample Condition	APPROPRIATE	Date of Receipt of Sample	09-03-2023	Date of Analysis	From 09-03-2023 To 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	6.60	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	6.88	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	13.00	±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.		28893		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	16444		
Sampling Location	Mine Discharge Dhanpuri O.C.M.	Sampling Plan	As per fortnightly plan	Sampling Method	CMPDI/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	20-03-2023	Date of Analysis	From 07-03-2023 To 27-03-2023		

Sr. No	Parameter	Test At	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	Main	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	BDL	±6.209 at 247.427
2	Oil & Grease mg/l	Main	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.45	±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
Salim Khan

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

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Note:
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AIR QUALITY REPORT

Month	OCTOBER	Area	Sohagpur	Report No	BSP/SGP/2022/10
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	21.11.2022
Name of the Project	KHAIRAHA U/G	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							
37. Kairaha Village	B	08.10.2022	17.10.2022	142	65	42	12	17		
		10.10.2022	17.10.2022	160	75	30	22	19		
		12.10.2022	17.10.2022	161	85	29	12	17		
		14.10.2022	17.10.2022	172	88	36	30	38		
		17.10.2022	31.10.2022	138	58	41	13	18		
		19.10.2022	31.10.2022	140	59	45	31	33		
		21.10.2022	31.10.2022	160	66	40	36	38		
		26.10.2022	31.10.2022	173	80	39	23	21		
38.Kundari Village	B	08.10.2022	17.10.2022	144	62	40	14	20		
		10.10.2022	17.10.2022	162	61	35	27	31		
		12.10.2022	17.10.2022	166	85	29	12	17		
		14.10.2022	17.10.2022	165	74	39	22	27		
		17.10.2022	31.10.2022	145	65	45	21	26		
		19.10.2022	31.10.2022	142	69	52	42	47		
		21.10.2022	31.10.2022	172	88	36	30	38		
		26.10.2022	31.10.2022	160	66	31	32	29		
28.10.2022	31.10.2022	138	58	41	13	18				

Dhanraj Singh

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C. K. V.

Manager-Environment

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AIR QUALITY REPORT

Month	OCTOBER	Area	Sohagpur	Report No	BSP/SGP/2022/10
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	21.11.2022
Name of the Project	KHAIRAHA U/G	Sample Reference No.	39-40

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. Electrical Sub station khairaha project	A-N	08.10.2022	17.10.2022	498	245	66	30	37
		10.10.2022	17.10.2022	353	164	64	25	33
		12.10.2022	17.10.2022	344	158	60	22	30
		14.10.2022	17.10.2022	333	161	54	19	35
		17.10.2022	31.10.2022	495	248	53	32	39
		19.10.2022	31.10.2022	346	172	71	20	35
		21.10.2022	31.10.2022	337	164	64	17	31
		26.10.2022	31.10.2022	330	155	66	23	38
		28.10.2022	31.10.2022	321	149	60	21	34
40.Chirhiti Village	B	08.10.2022	17.10.2022	140	64	38	15	21
		10.10.2022	17.10.2022	138	58	41	13	18
		12.10.2022	17.10.2022	172	88	36	30	38
		14.10.2022	17.10.2022	179	71	44	29	21
		17.10.2022	31.10.2022	142	65	40	13	20
		19.10.2022	31.10.2022	138	58	41	13	18
		21.10.2022	31.10.2022	173	80	39	23	21
		26.10.2022	31.10.2022	161	85	29	12	17
		28.10.2022	31.10.2022	142	65	42	12	17

Danaj Singh

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B. B. B.

Checked by

C.K. Verma

Manager-Environment

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AIR QUALITY REPORT

Month	OCTOBER	Area	Sohagpur	Report No	BSP/SGP/2022/10
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	21.11.2022
Name of the Project	KHAIRAHA U/G	Sample Reference No.	41-42

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. Kanhat Village	B	08.10.2022	17.10.2022	160	66	31	32	29
		10.10.2022	17.10.2022	179	71	44	29	21
		12.10.2022	17.10.2022	172	88	36	30	38
		14.10.2022	17.10.2022	138	58	41	13	18
		17.10.2022	31.10.2022	162	61	35	27	31
		19.10.2022	31.10.2022	161	85	29	12	17
		21.10.2022	31.10.2022	138	58	41	13	18
		26.10.2022	31.10.2022	166	85	29	12	17
		28.10.2022	31.10.2022	145	65	45	11	16
42.Main Gate	A-N	08.10.2022	17.10.2022	441	169	33	19	24
		10.10.2022	17.10.2022	494	244	68	34	40
		12.10.2022	17.10.2022	486	176	49	25	33
		14.10.2022	17.10.2022	451	161	36	19	24
		17.10.2022	31.10.2022	460	170	38	25	33
		19.10.2022	31.10.2022	472	235	75	26	30
		21.10.2022	31.10.2022	495	248	64	32	39
		26.10.2022	31.10.2022	498	245	66	30	37
		28.10.2022	31.10.2022	480	230	75	45	49

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AIR QUALITY REPORT

Month	OCTOBER	Area	Sohagpur	Report No	BSP/SGP/2022/10
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Name of the Customer		South Eastern Coalfields Ltd, Bilaspur		Date of Issue			21.11.2022	
Name of the Project		KHAIRAHA U/G		Sample Reference No.			43-44	
Parameter				PM ₁₀₀	PM ₁₀	PM _{2.5}	SO ₂	NO ₂
Limit (in $\mu\text{g}/\text{m}^3$)-24 hrs	Industrial Zone -(G.S.R. 742(E), dated 25.09.2000)	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. Managers Office	A-N	08.10.2022	17.10.2022	494	244	68	34	40
		10.10.2022	17.10.2022	431	164	69	23	33
		12.10.2022	17.10.2022	422	158	55	21	30
		14.10.2022	17.10.2022	331	153	47	23	36
		17.10.2022	31.10.2022	472	235	75	26	30
		19.10.2022	31.10.2022	428	150	70	22	35
		21.10.2022	31.10.2022	412	143	73	20	32
		26.10.2022	31.10.2022	337	157	46	25	41
44. Lamp Room	A-N	08.10.2022	17.10.2022	451	161	36	19	24
		10.10.2022	17.10.2022	343	169	40	21	38
		12.10.2022	17.10.2022	333	161	43	19	35
		14.10.2022	17.10.2022	386	176	41	23	38
		17.10.2022	31.10.2022	387	176	49	25	33
		19.10.2022	31.10.2022	346	172	50	20	35
		21.10.2022	31.10.2022	337	164	59	17	31
		26.10.2022	31.10.2022	330	155	61	23	38
		28.10.2022	31.10.2022	321	149	75	21	34

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C. K. V.

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	KHAIRAHA U/G	Sample Reference No.	N42-45

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)		
42. Khairaha village	C	12.10.2022	45.4	46.3		
		18.10.2022	45.2	42.6		
43. Kundri village	C	12.10.2022	46.0	44.7		
		18.10.2022	45.2	42.7		
44. Electrical sub station khairaha project	A	12.10.2022	54.2	49.6		
		18.10.2022	47.4	55.1		
45. Chirhitti village	C	12.10.2022	43.8	44.4		
		18.10.2022	46.2	42.0		

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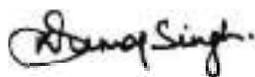
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NOISE QUALITY REPORT

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	KHAIRAHA U/G	Sample Reference No.	N46-49

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)	
46. Kanhat village	C	12.10.2022	45.9	44.7	
		18.10.2022	44.7	43.0	
47. Main Gate	A	12.10.2022	61.5	53.5	
		18.10.2022	60.4	57.8	
48 Manager's office	A	12.10.2022	52.8	55.2	
		18.10.2022	53.4	49.3	
49. Lamp Room	A	12.10.2022	57.3	50.7	
		18.10.2022	56.4	49.9	



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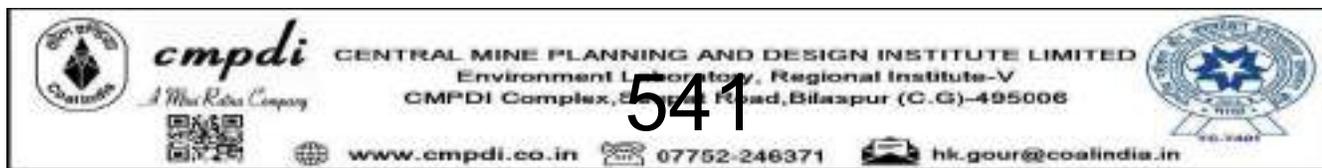
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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		TC-74012213164		Report Issue Date		20-10-2022	
Customer Name		South Estern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	Amarjeet Singh	Date of Sampling	14-10-2022	Sample ID	12985		
Sampling Location	Mine Discharge (After Settling) Khairaha 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	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

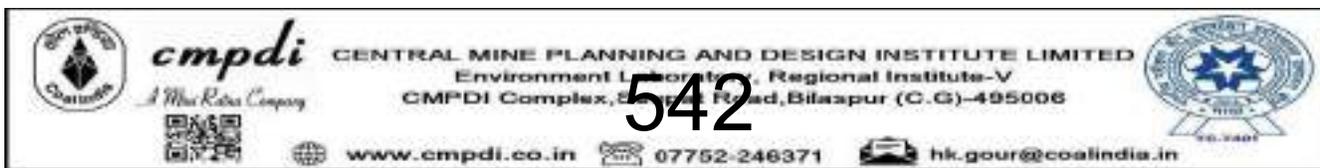
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Deepanwita Bin

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

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.	TC-74012214431	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	13147
Sampling Location	Mine Discharge (After Settling) Khairaha U/G	Sampling Plan	As Per Monthly Plan	Sampling Method	CMPDI/BSP/LSOP
Sample Condition	APPROPRIATE	Date of Receipt of Sample	31-10-2022	Date of Analysis	From 01-11-2022 To 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	8.24	±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	11.70	±0.445 @ 24.429

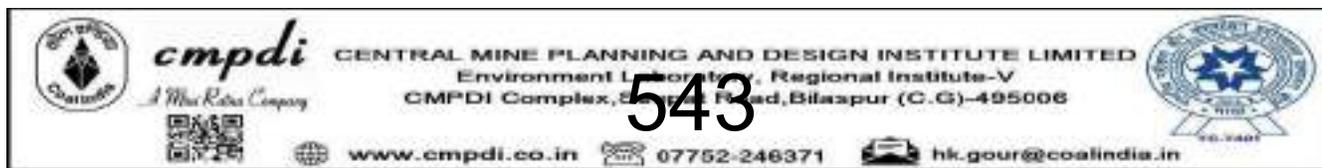
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D.Dayakar

Reviewed and Approved
M. Reagan
Manager (Env)
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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.	TC-74012213168	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	12986
Sampling Location	Up Stream Of Baisaha Nala (Near Kundari Village) Khairaha 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	7.52	±0.1272 at 7.0074
4	Total suspended Solids mg/l	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	20.00	±0.445 @ 24.429

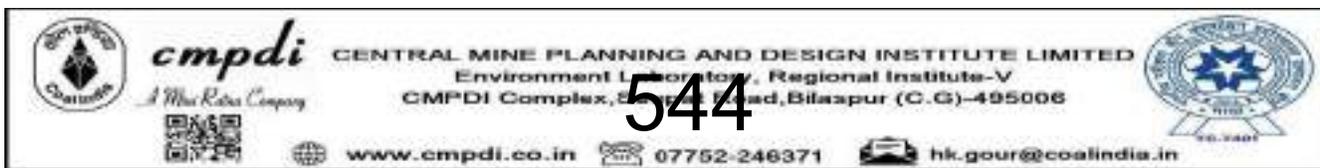
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M. Reagan
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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		TC-74012214435		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	13148		
Sampling Location	Up Stream Of Baisaha Nala (Near Kundari Village) Khairaha U/G	Sampling Plan	As Per Monthly Plan	Sampling Method	CMPDI/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	31-10-2022	Date of Analysis	From 01-11-2022 To 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	16.48	±6.209 at 247.427
2	Oil & Grease mg/l	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.01	±0.1272 at 7.0074
4	Total suspended Solids mg/l	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	11.50	±0.445 @ 24.429

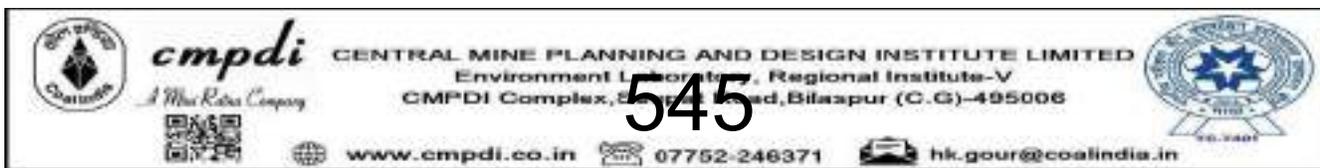
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D.Dayakar

Reviewed and Approved
M. Reagan
Manager (Env)
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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		TC-74012213160		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	12984		
Sampling Location	Down Stream Of Baisaha Nala (Near Kanhat Village) Khairaha 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	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	7.28	±0.1272 at 7.0074
4	Total suspended Solids mg/l	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	BDL	±0.445 @ 24.429

Reported By
Deepanwita Bin

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

JSA

Note:

- * This is computer generated report and does not require signature
- * General Standards for Discharge of Environmental Pollution(Part A:Effluent) as per Schedule VI,Environment (Protection) Rules
- a. The results relate only to the item sampled and tested.
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www.cmpdi.co.in 07752-246371 hk.gour@coalindia.in

TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		TC-74012214427		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	13146		
Sampling Location	Down Stream Of Baisaha Nala (Near Kanhat Village) Khairaha U/G	Sampling Plan	As Per Monthly Plan	Sampling Method	CMPDI/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	31-10-2022	Date of Analysis	From 01-11-2022 To 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	24.72	±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	6.91	±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
D.Dayakar

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :04-11-2022 10:35:50

JSA

Note:

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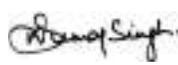
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AIR QUALITY REPORT

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	KHAIRAHA U/G	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						
37. Khairaha Village	B	02.11.2022	07.11.2022	149	65	42	12	17	
		07.11.2022	07.11.2022	166	75	30	22	19	
		09.11.2022	07.11.2022	162	85	29	12	17	
		14.11.2022	19.11.2022	174	88	36	30	38	
		16.11.2022	19.11.2022	140	59	45	31	33	
		18.11.2022	19.11.2022	173	80	39	23	21	
		22.11.2022	28.11.2022	179	71	44	29	21	
		25.11.2022	28.11.2022	145	65	45	21	26	
		29.11.2022	01.12.2022	142	69	52	36	39	
38. Kundari Village	B	02.11.2022	07.11.2022	144	62	40	14	20	
		07.11.2022	07.11.2022	162	61	35	27	31	
		09.11.2022	07.11.2022	172	88	36	30	38	
		14.11.2022	19.11.2022	160	66	31	32	29	
		16.11.2022	19.11.2022	145	65	45	21	26	
		18.11.2022	19.11.2022	172	88	36	30	38	
		22.11.2022	28.11.2022	179	71	44	29	21	
		25.11.2022	28.11.2022	142	65	40	13	20	
		29.11.2022	01.12.2022	138	58	41	13	18	


Analyzed by


Checked by


Manager-Environment

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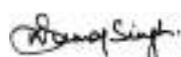
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AIR QUALITY REPORT

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	KHAIRAHA U/G	Sample Reference No.	39-40

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. Electrical Sub. station khairaha project	A-N	02.11.2022	07.11.2022	468	245	66	30	37	
		07.11.2022	07.11.2022	357	164	64	25	33	
		09.11.2022	07.11.2022	380	158	60	22	30	
		14.11.2022	19.11.2022	402	161	54	29	35	
		16.11.2022	19.11.2022	415	248	53	32	39	
		18.11.2022	19.11.2022	346	172	71	20	35	
		22.11.2022	28.11.2022	387	164	64	17	31	
		25.11.2022	28.11.2022	390	155	66	23	38	
		29.11.2022	01.12.2022	381	149	60	21	34	
40.Chirhiti Village	B	02.11.2022	07.11.2022	140	64	38	15	21	
		07.11.2022	07.11.2022	138	58	41	13	18	
		09.11.2022	07.11.2022	172	88	36	30	38	
		14.11.2022	19.11.2022	179	71	44	29	21	
		16.11.2022	19.11.2022	142	65	40	13	20	
		18.11.2022	19.11.2022	137	58	41	13	18	
		22.11.2022	28.11.2022	173	80	39	23	21	
		25.11.2022	28.11.2022	161	85	29	12	17	
		29.11.2022	01.12.2022	142	65	42	12	17	



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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	KHAIRAHA U/G	Sample Reference No.	41-42

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. Kanhat Village	B	02.11.2022	07.11.2022	162	61	35	27	31
		07.11.2022	07.11.2022	172	88	36	30	37
		09.11.2022	07.11.2022	160	66	31	32	35
		14.11.2022	19.11.2022	145	65	45	21	26
		16.11.2022	19.11.2022	162	61	35	27	31
		18.11.2022	19.11.2022	161	85	29	12	17
		22.11.2022	28.11.2022	138	58	41	13	18
		25.11.2022	28.11.2022	166	85	29	12	17
		29.11.2022	01.12.2022	145	65	45	11	16
42.Main Gate	A-N	02.11.2022	07.11.2022	441	169	33	19	24
		07.11.2022	07.11.2022	494	244	68	34	38
		09.11.2022	07.11.2022	486	176	49	25	33
		14.11.2022	19.11.2022	451	161	36	19	24
		16.11.2022	19.11.2022	460	170	38	25	33
		18.11.2022	19.11.2022	472	235	75	26	30
		22.11.2022	28.11.2022	495	248	64	32	39
		25.11.2022	28.11.2022	498	245	66	30	37
		29.11.2022	01.12.2022	480	230	75	38	42

Ram Singh

Analyzed by

Rajesh

Checked by

C.K. Verma

Manager-Environment

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

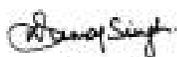
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NOISE QUALITY REPORT

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		KHAIRAHA U/G			Sample Reference No.			43-44	
Parameter				PM₁₀₀	PM₁₀	PM_{2.5}	SO₂	NO₂	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. Manager's Office	A-N	02.11.2022	07.11.2022	494	244	68	34	40	
		07.11.2022	07.11.2022	431	164	69	30	33	
		09.11.2022	07.11.2022	422	158	55	27	30	
		14.11.2022	19.11.2022	331	153	47	32	36	
		16.11.2022	19.11.2022	472	235	75	26	30	
		18.11.2022	19.11.2022	428	150	70	30	35	
		22.11.2022	28.11.2022	412	143	73	26	32	
		25.11.2022	28.11.2022	337	157	46	25	31	
		29.11.2022	01.12.2022	349	173	40	23	29	
44. Lamp Room	A-N	02.11.2022	07.11.2022	472	235	75	26	30	
		07.11.2022	07.11.2022	428	150	70	22	29	
		09.11.2022	07.11.2022	412	143	73	29	32	
		14.11.2022	19.11.2022	466	230	60	28	33	
		16.11.2022	19.11.2022	402	199	62	26	32	
		18.11.2022	19.11.2022	422	218	68	25	30	
		22.11.2022	28.11.2022	441	210	63	23	30	
		25.11.2022	28.11.2022	420	215	61	24	29	
		29.11.2022	01.12.2022	441	220	75	21	27	


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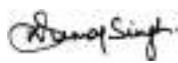
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NOISE QUALITY REPORT

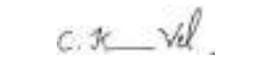
Month	NOVEMBER	Area	SOHAGPUR	Report No	BSP/SGP/2022/11
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	19.12.2022
Name of the Project	KHAIRAHA U/G	Sample Reference No.	42-45

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)	
42.Khairaha village	C	10.11.2022	46.0	44.8	
		24.11.2022	44.7	41.2	
43. Kundari village	C	10.11.2022	42.6	43.7	
		24.11.2022	40.7	42.0	
44. Electrical Sub station khairaha project	A	10.11.2022	50.7	60.2	
		24.11.2022	48.7	53.3	
45. Chirhitti village	C	10.11.2022	45.1	44.5	
		24.11.2022	42.3	42.6	


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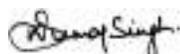
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NOISE QUALITY REPORT

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	KHAIRAHA U/G	Sample Reference No.	46-49

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)	
46. Kanhat village	C	10.11.2022	43.9	44.5	
		24.11.2022	42.7	42.6	
47. Main Gate	A	10.11.2022	64.0	62.6	
		24.11.2022	59.3	59.4	
48. Manager's office	A	10.11.2022	54.1	54.2	
		24.11.2022	51.7	47.3	
49. Lamp Room	A	10.11.2022	50.5	57.1	
		24.11.2022	48.6	51.7	



Sampal Singh



Checked by



Manager-Environment

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

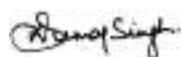
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NOISE QUALITY REPORT

Month	NOVEMBER	Area	SOHAGPUR	Report No	BSP/SGP/2022/11
Name of the Customer	South Eastern Coalfields Ltd, Bilaspur		Date of Issue	19.12.2022	
Name of the Project	KHAIRAHA U/G		Sample Reference No.	42-45	

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)	
42.Khairaha village	C	10.11.2022	46.0	44.8	
		24.11.2022	44.7	41.2	
43. Kundari village	C	10.11.2022	42.6	43.7	
		24.11.2022	40.7	42.0	
44. Electrical Sub station khairaha project	A	10.11.2022	50.7	60.2	
		24.11.2022	48.7	53.3	
45. Chirhitti village	C	10.11.2022	45.1	44.5	
		24.11.2022	42.3	42.6	



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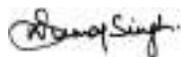
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NOISE QUALITY REPORT

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	KHAIRAHA U/G	Sample Reference No.	46-49

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)	
46. Kanhat village	C	10.11.2022	43.9	44.5	
		24.11.2022	42.7	42.6	
47. Main Gate	A	10.11.2022	64.0	62.6	
		24.11.2022	59.3	59.4	
48. Manager's office	A	10.11.2022	54.1	54.2	
		24.11.2022	51.7	47.3	
49. Lamp Room	A	10.11.2022	50.5	57.1	
		24.11.2022	48.6	51.7	



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-74012214704		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	13215		
Sampling Location	Mine Discharge (After Settling) Khairaha 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	7.61	±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-74012216634		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	14500		
Sampling Location	Mine Discharge (After Settling) Khairaha 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	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	7.36	±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

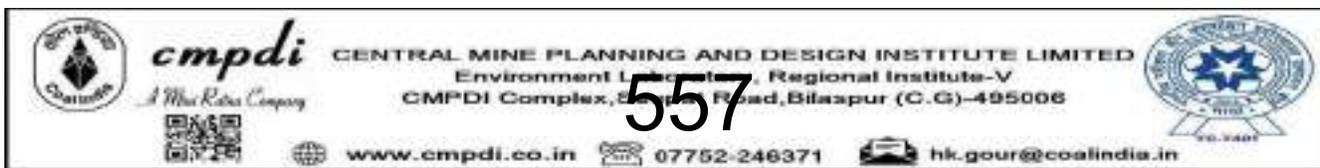
Reported By
Nirmal Kumar

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

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.	TC-74012214708	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	13276
Sampling Location	Up Stream Of Baisaha Nala (Near Kundari Village) Khairaha 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	40.00	±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	7.65	±0.1272 at 7.0074
4	Total suspended Solids mg/l	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	73.00	±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-74012216636		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	14501		
Sampling Location	Up Stream Of Baisaha Nala (Near Kundari Village) Khairaha 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	7.26	±0.1272 at 7.0074
4	Total suspended Solids mg/l	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	10.00	±0.445 @ 24.429

Reported By
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-74012214702		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	13214		
Sampling Location	Down Stream Of Baisaha Nala (Near Kanhat Village) Khairaha 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	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	7.40	±0.1272 at 7.0074
4	Total suspended Solids mg/l	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	20.00	±0.445 @ 24.429

Reported By
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-74012216631		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	14499		
Sampling Location	Down Stream Of Baisaha Nala (Near Kanhat Village) Khairaha 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	7.33	±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
Nirmal Kumar

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

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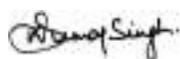
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AIR QUALITY REPORT

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	KHAIRAHA U/G	Sample Reference No.	37-38

Limit (in $\mu\text{g}/\text{m}^3$)- 24	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 16.12.2009 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	
		12.12.2022	19.12.2022	150	53	34	18	22	
		15.12.2022	19.12.2022	145	65	45	21	26	
		19.12.2022	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	19	



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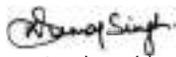
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AIR QUALITY REPORT

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	KHAIRAHA U/G	Sample Reference No.	39

Parameter				PM ₁₀₀	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	Remarks
Limit (in $\mu\text{g}/\text{m}^3$)- 24	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 16.12.2009 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.Chirhiti Village	B	01.12.2022	07.12.2022	150	68	38	16	21	
		05.12.2022	07.12.2022	142	57	41	14	18	
		08.12.2022	19.12.2022	170	82	36	20	26	
		12.12.2022	19.12.2022	177	71	44	15	21	
		15.12.2022	19.12.2022	132	56	37	12	17	
		19.12.2022	28.12.2022	152	63	35	13	20	
		22.12.2022	28.12.2022	130	53	34	18	22	
		26.12.2022	02.01.2023	147	60	40	19	22	
		29.12.2022	02.01.2023	130	58	39	14	18	


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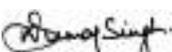
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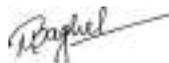
AIR QUALITY REPORT

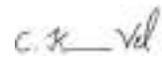
Month	DECEMBER	Area	SOHAGPUR	Report No	BSP/SGP/2022/12
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	18.01.2023
Name of the Project	KHAIRAHA U/G	Sample Reference No.	40-41

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 16.12.2009 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					
40. Kanhat Village	B	01.12.2022	07.12.2022	138	50	37	19	24
		05.12.2022	07.12.2022	140	56	39	14	17
		08.12.2022	19.12.2022	156	52	35	12	18
		12.12.2022	19.12.2022	140	55	32	14	19
		15.12.2022	19.12.2022	142	65	36	17	22
		19.12.2022	28.12.2022	161	85	29	12	17
		22.12.2022	28.12.2022	148	58	41	13	18
		26.12.2022	02.01.2023	147	60	40	19	21
		29.12.2022	02.01.2023	134	50	42	14	17
41. Main Gate	A-N	01.12.2022	07.12.2022	495	248	64	32	39
		05.12.2022	07.12.2022	498	245	66	30	37
		08.12.2022	19.12.2022	480	230	75	38	42
		12.12.2022	19.12.2022	495	248	64	32	39
		15.12.2022	19.12.2022	420	215	61	24	29
		19.12.2022	28.12.2022	472	235	75	26	30
		22.12.2022	28.12.2022	412	143	73	26	32
		26.12.2022	02.01.2023	437	157	46	25	31
		29.12.2022	02.01.2023	412	143	73	29	32


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AIR QUALITY REPORT

Name of the Customer				South Eastern Coalfields Ltd, Bilaspur		Date of Issue			18.01.2023
Name of the Project				KHAIRAHA U/G		Sample Reference No.			42-43
Parameter				PM₁₀₀	PM₁₀	PM_{2.5}	SO₂	NO₂	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 16.12.2009 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						
42. Managers Office	A-N	01.12.2022	07.12.2022	412	143	73	26	32	
		05.12.2022	07.12.2022	337	157	46	25	31	
		08.12.2022	19.12.2022	420	215	61	24	29	
		12.12.2022	19.12.2022	466	230	60	28	33	
		15.12.2022	19.12.2022	402	199	62	26	32	
		19.12.2022	28.12.2022	422	143	73	26	32	
		22.12.2022	28.12.2022	359	183	40	24	29	
		26.12.2022	02.01.2023	339	167	46	26	31	
		29.12.2022	02.01.2023	359	163	40	25	29	
43. Lamp Room	A-N	01.12.2022	07.12.2022	462	238	75	29	34	
		05.12.2022	07.12.2022	448	199	70	22	29	
		08.12.2022	19.12.2022	422	202	73	29	32	
		12.12.2022	19.12.2022	441	210	63	23	30	
		15.12.2022	19.12.2022	420	215	61	24	29	
		19.12.2022	28.12.2022	412	186	73	29	35	
		22.12.2022	28.12.2022	443	212	65	23	30	
		26.12.2022	02.01.2023	420	215	61	24	29	
				29.12.2022	02.01.2023	442	222	77	23

Anand Singh
Analyzed by

Rajesh
Checked by

C.K. Verma
Manager-Environment

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NOISE QUALITY REPORT

Month	DECEMBER	Area	SOHAGPUR	Report No	BSP/SGP/2022/12
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	18.01.2023
Name of the Project	KHAIRAHA U/G	Sample Reference No.	N37-N43

Parameter			The Noise Pollution (R & C) rules, 2000		Remarks	
			Day Time	Night Time		
Limit (in dB(A) Leq	Industrial area	A	75	70		Remarks
	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)		
37. Kanhat village	C	09.12.2022	50.7	48.3		
		22.12.2022	43.4	40.2		
38. Main Gate	A	09.12.2022	63.2	53.7		
		22.12.2022	64.5	58.5		
39. Manager's office	A	09.12.2022	50.3	47.7		
		22.12.2022	54.7	50.6		
40. Khairaha village	C	09.12.2022	44.2	41.7		
		22.12.2022	46.5	43.3		
41. Kundri village	C	09.12.2022	44.2	43.5		
		22.12.2022	41.4	37.4		
42. Lamp Room	A	09.12.2022	50.8	49.7		
		22.12.2022	51.5	46.5		
43. Chirihitti Village	C	09.12.2022	44.3	42.1		
		22.12.2022	46.2	44.9		

Sampled by

Checked by

Manager-Environment

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566

TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.	16714	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	14555
Sampling Location	Mine Discharge (After Settling) Khairaha 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	7.52	±0.1272 at 7.0074
4	Total suspended Solids mg/l	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	32.00	±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.		20933		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	15300		
Sampling Location	Down Stream Of Baisaha Nala (Near Kanhat Village) Khairaha 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	7.25	±0.1272 at 7.0074
4	Total suspended Solids mg/l	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	BDL	±0.445 @ 24.429

Reported By
Salim Khan

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

JSA

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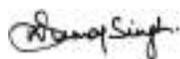
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AIR QUALITY REPORT

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	22.02.2023
Name of the Project	KHAIRAHA U/G	Sample Reference No.	37-38

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					
37. Khairaha Village	B	03.01.2023	05.01.2023	145	63	40	14	16
		05.01.2023	09.01.2023	165	74	31	21	17
		09.01.2023	11.01.2023	162	84	29	12	19
		11.01.2023	13.01.2023	174	87	32	30	38
		13.01.2023	18.01.2023	140	59	45	31	32
		18.01.2023	20.01.2023	173	80	39	22	21
		20.01.2023	24.01.2023	179	71	43	29	21
		24.01.2023	28.01.2023	145	65	45	21	26
38. Kudri Village	B	03.01.2023	05.01.2023	144	62	40	14	20
		05.01.2023	09.01.2023	162	61	35	27	31
		09.01.2023	11.01.2023	171	87	36	30	38
		11.01.2023	13.01.2023	160	66	31	32	29
		13.01.2023	18.01.2023	140	65	45	21	26
		18.01.2023	20.01.2023	172	88	34	30	38
		20.01.2023	24.01.2023	177	71	44	29	21
		24.01.2023	28.01.2023	140	63	40	12	22
		28.01.2023	30.01.2023	138	58	40	13	17



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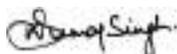
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AIR QUALITY REPORT

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	22.02.2023
Name of the Project	KHAIRAHA U/G	Sample Reference No.	39-40

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/m³)					±19.04		±0.0687	±0.4420	
Station Name (Code)	Station category	Date of sampling	Date of analysis						
39. Electrical Sub station khairaha project	A-N	03.01.2023	05.01.2023	465	243	65	30	35	
		05.01.2023	09.01.2023	357	162	64	25	33	
		09.01.2023	11.01.2023	381	158	59	20	30	
		11.01.2023	13.01.2023	402	161	54	29	33	
		13.01.2023	18.01.2023	415	248	53	31	39	
		18.01.2023	20.01.2023	346	172	71	20	35	
		20.01.2023	24.01.2023	387	164	62	17	31	
		24.01.2023	28.01.2023	391	155	66	23	38	
40.Chirhiti Village	B	03.01.2023	05.01.2023	141	64	38	15	21	
		05.01.2023	09.01.2023	138	58	41	13	18	
		09.01.2023	11.01.2023	171	87	36	30	38	
		11.01.2023	13.01.2023	179	71	43	29	21	
		17.01.2023	18.01.2023	142	65	40	13	20	
		19.01.2023	20.01.2023	137	58	41	12	18	
		21.01.2023	24.01.2023	173	80	39	23	22	
		23.01.2023	28.01.2023	161	85	27	12	17	
		27.01.2023	30.01.2023	142	65	42	12	17	



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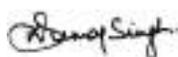
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AIR QUALITY REPORT

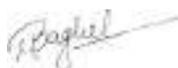
Month	JANUARY	Area	SOHAGPUR	Report No	BSP/SGP/2023/01
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	22.02.2023
Name of the Project	KHAIRAHA U/G	Sample Reference No.	41-42

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					
41. Kanhat Village	B	03.01.2023	05.01.2023	162	61	35	27	31
		05.01.2023	09.01.2023	172	88	36	30	37
		09.01.2023	11.01.2023	160	66	31	32	35
		11.01.2023	13.01.2023	145	65	45	21	26
		13.01.2023	19.01.2023	162	61	35	27	31
		19.01.2023	21.01.2023	161	85	29	12	17
		21.01.2023	23.01.2023	138	58	41	13	18
		23.01.2023	27.01.2023	166	85	29	12	17
42.Main Gate	A-N	02.01.2023	04.01.2023	441	169	33	19	24
		04.01.2023	06.01.2023	494	244	68	34	38
		06.01.2023	11.01.2023	486	176	49	25	33
		11.01.2023	13.01.2023	451	161	36	19	24
		13.01.2023	17.01.2023	460	170	38	25	33
		17.01.2023	19.01.2023	472	235	75	26	30
		19.01.2023	24.01.2023	495	248	64	32	39
		24.01.2023	28.01.2023	498	245	66	30	37
	28.01.2023	30.01.2023	480	230	75	38	42	



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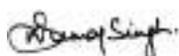
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AIR QUALITY REPORT

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			22.02.2023		
Name of the Project		KHAIRAHA U/G		Sample Reference No.			43-44		
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, AppendixL 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						
43. Manager Office	A-N	02.01.2023	04.01.2023	494	244	68	34	40	
		04.01.2023	06.01.2023	431	164	69	30	33	
		06.01.2023	11.01.2023	422	158	55	27	30	
		11.01.2023	13.01.2023	331	153	47	32	36	
		13.01.2023	17.01.2023	472	235	75	26	30	
		17.01.2023	19.01.2023	428	150	70	30	35	
		19.01.2023	24.01.2023	412	143	73	26	32	
		24.01.2023	28.01.2023	337	157	46	25	31	
44. Lamp Room	A-N	02.01.2023	04.01.2023	472	235	75	26	30	
		04.01.2023	06.01.2023	428	150	70	22	29	
		06.01.2023	11.01.2023	412	143	73	29	32	
		11.01.2023	13.01.2023	466	230	60	28	33	
		13.01.2023	17.01.2023	402	199	62	26	32	
		17.01.2023	19.01.2023	422	218	68	25	30	
		19.01.2023	24.01.2023	441	210	63	23	30	
		24.01.2023	28.01.2023	420	215	61	24	29	
		28.01.2023	30.01.2023	441	220	75	21	27	



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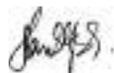
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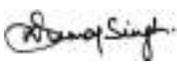
NOISE QUALITY REPORT

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	22.02.2023
Name of the Project	KHAIRAHA U/G	Sample Reference No.	N42-45

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)	
42. Khairaha village	C	10.01.2023	46.0	44.8	
		24.01.2023	40.2	34.2	
43. Kudri village	C	10.01.2023	42.6	43.7	
		24.01.2023	42.5	35.6	
44. Electrical sub station khairaha project	A	09.01.2023	50.7	60.2	
		24.01.2023	48.7	53.3	
45. Chirhitti village	C	09.01.2023	39.3	44.5	
		24.01.2023	42.3	42.6	


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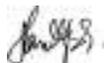
NOISE QUALITY REPORT

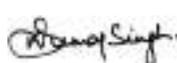
Month	JANUARY	Area	SOHAGPUR	Report No	BSP/SGP/2023/01
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	22.02.2023
Name of the Project	KHAIRAHA U/G	Sample Reference No.	N46-49

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)	
46. Kanhat village	C	09.01.2023	40.3	44.5	
		24.01.2023	42.7	42.6	
47. Main Gate	A	10.01.2023	66.4	62.6	
		24.01.2023	55.2	51.4	
48. Manager office	A	10.01.2023	54.1	54.2	
		24.01.2023	57.5	53.5	
49. Lamp Room	A	10.01.2023	50.5	57.1	
		24.01.2023	59.5	54.2	


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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		20813		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	15396		
Sampling Location	Mine Discharge (After Settling) Khairaha 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	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	6.36	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	54.00	±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.		22716		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	15700		
Sampling Location	Mine Discharge (After Settling) Khairaha 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	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	38.00	±0.445 @ 24.429

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

Reported By
D.Dayakar

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

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.	20814	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	15397
Sampling Location	Up Stream Of Baisaha Nala (Near Kudri Village) Khairaha 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	6.60	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.16	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	54.00	±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.		22720		Report Issue Date		07-02-2023	
Customer Name		South Estern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	Amarjeet	Date of Sampling	21-01-2023	Sample ID	15701		
Sampling Location	Up Stream Of Baisaha Nala (Near Kudri Village) Khairaha 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	7.19	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	28.00	±0.445 @ 24.429

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

Reported By
D.Dayakar

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

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.	20812	Report Issue Date	18-01-2023		
Customer Name	South Estern Coal Field Ltd Bilaspur	Address & Contact Details	SEEPAT ROAD BILASPUR 7752241927		
Sampling By	AMARJEET KUMAR SINGH	Date of Sampling	06-01-2023	Sample ID	15395
Sampling Location	Down Stream Of Baisaha Nala (Near Kanhat Village) Khairaha 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	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	6.68	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	54.00	±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.		22712		Report Issue Date		07-02-2023	
Customer Name		South Estern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	Amarjeet	Date of Sampling	21-01-2023	Sample ID	15699		
Sampling Location	Down Stream Of Baisaha Nala (Near Kanhat Village) Khairaha 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	6.97	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	45.00	±0.445 @ 24.429

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

Reported By
D.Dayakar

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

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AIR QUALITY REPORT

Month	FEBRUARY	Area	SOHAGPUR	Report No	BSP/SGP/2023/02
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	13.03.2023
Name of the Project	KHAIRAHA U/G	Sample Reference No.	11-12

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), 02.04.196)	B 200	100	60	80	80		
Method of analysis		IS-5182 PART 4:2005	IS-5182 PART 23:2006	USEPA CFR 40, AppendixL 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. MAIN GATE	A-N	02.02.2023	08.02.2023	452	210	65	22	25
		04.02.2023	08.02.2023	448	214	68	24	28
		06.02.2023	08.02.2023	456	209	62	21	24
		14.02.2023	18.02.2023	452	211	59	25	29
		16.02.2023	18.02.2023	460	205	54	19	23
		21.02.2023	28.02.2023	462	222	55	23	26
		23.02.2023	28.02.2023	465	231	64	22	25
		25.02.2023	28.02.2023	472	212	67	27	30
12. MANAGER OFFICE	A-N	02.02.2023	08.02.2023	490	240	66	24	28
		04.02.2023	08.02.2023	481	242	69	28	33
		06.02.2023	08.02.2023	482	236	63	27	31
		14.02.2023	18.02.2023	456	210	60	31	35
		16.02.2023	18.02.2023	460	216	59	26	29
		21.02.2023	28.02.2023	480	241	65	25	29
		23.02.2023	28.02.2023	485	245	69	26	29
		25.02.2023	28.02.2023	475	241	71	23	28

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Checked by 


Manager-Environment

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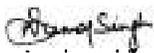
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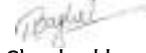
AIR QUALITY REPORT

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	KHAIRAHA U/G	Sample Reference No.	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), 02.04.199)		B		200	100	60	80	80	
		Method of analysis		IS-5182 PART 4:2005	IS-5182 PART 23:2006	USEPA CFR 40, AppendixL 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						
13.Lamp Room	A-N	02.02.2023	08.02.2023	482	236	75	25	30	
		04.02.2023	08.02.2023	488	230	72	24	29	
		06.02.2023	08.02.2023	492	235	73	28	33	
		14.02.2023	18.02.2023	476	228	68	29	34	
		16.02.2023	18.02.2023	472	226	64	26	31	
		21.02.2023	28.02.2023	486	218	69	25	31	
		23.02.2023	28.02.2023	490	219	67	24	29	
25.02.2023	28.02.2023	493	225	65	25	28			


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 Manager-Environment

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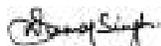
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AIR QUALITY REPORT

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	KHAIRAHA U/G	Sample Reference No.	14-15

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), 02.04.196)		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						
14. Khairaha Village	B	02.02.2023	08.02.2023	165	75	42	13	20	
		04.02.2023	08.02.2023	155	70	38	12	18	
		06.02.2023	08.02.2023	145	65	35	10	17	
		14.02.2023	18.02.2023	150	68	38	11	18	
		16.02.2023	18.02.2023	160	72	40	13	19	
		21.02.2023	28.02.2023	148	71	41	14	20	
		23.02.2023	28.02.2023	168	76	44	14	22	
15. Kudri Village	B	02.02.2023	08.02.2023	148	60	40	15	20	
		04.02.2023	08.02.2023	152	63	36	18	21	
		06.02.2023	08.02.2023	161	77	38	20	24	
		14.02.2023	18.02.2023	160	69	39	21	25	
		16.02.2023	18.02.2023	150	71	40	19	23	
		21.02.2023	28.02.2023	172	73	35	16	20	
		23.02.2023	28.02.2023	176	70	41	15	19	
		25.02.2023	28.02.2023	168	65	40	16	20	


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

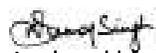
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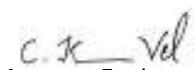
AIR QUALITY REPORT

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		KHAIRAHA U/G			Sample Reference No.			16-17	
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), 02.04.199)		B	200	100	60	80	80	
Method of analysis				IS-5182 PART 4:2005	IS-5182 PART 23:2006	USEPA CFR 40, AppendixL 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						
16. Chirrhitti Village	B	02.02.2023	08.02.2023	170	77	45	15	21	
		04.02.2023	08.02.2023	175	80	51	16	23	
		06.02.2023	08.02.2023	180	82	52	14	20	
		14.02.2023	18.02.2023	178	78	49	15	21	
		16.02.2023	18.02.2023	185	85	54	17	24	
		21.02.2023	28.02.2023	190	87	55	19	26	
		23.02.2023	28.02.2023	182	81	50	18	25	
17. Kanhat Village	B	02.02.2023	08.02.2023	165	75	42	13	20	
		04.02.2023	08.02.2023	155	70	38	12	18	
		06.02.2023	08.02.2023	145	65	35	10	17	
		14.02.2023	18.02.2023	150	68	38	11	18	
		16.02.2023	18.02.2023	160	72	40	13	19	
		21.02.2023	28.02.2023	148	71	41	14	20	
		23.02.2023	28.02.2023	168	76	44	14	22	
		25.02.2023	28.02.2023	159	72	45	15	21	


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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	KHAIRAHA U/G	Sample Reference No.	42-44

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)	
42.Khairaha village	C	14.02.2023	49.1	44.2	
		25.02.2023	47.9	41.1	
43. Kundri village	C	14.02.2023	50.6	45.7	
		25.02.2023	48.9	41.1	
44. Chirhitti village	C	14.02.2023	48.01	42.6	
		25.02.2023	42.5	37.0	


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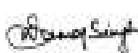
NOISE QUALITY REPORT

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	KHAIRAHA U/G	Sample Reference No.	45-48

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)	
45. Kanhat village	C	14.02.2023	48.5	40.5	
		25.02.2023	41.4	37.5	
46. Main Gate	A	14.02.2023	69.5	57.8	
		25.02.2023	69.3	60.9	
47. Manager's office	A	14.02.2023	59.3	51.6	
		25.02.2023	59.2	52.6	
48. Lamp Room	A	14.02.2023	59.3	52.4	
		25.02.2023	59.4	52.1	


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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		22999		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	15832	
Sampling Location	Mine Discharge (After Settling) Khairaha 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	7.83	±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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Note:

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.	26384	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	16091
Sampling Location	Mine Discharge (After Settling) Khairaha 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	7.28	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	BDL	±0.445 @ 24.429

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

Reported By
Santosh Kumar Singh

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

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.	23000	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	15833
Sampling Location	Up Stream Of Baisaha Nala (Near Kundari Village) Khairaha 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	7.73	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	10.00	±0.445 @ 24.429

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

Reported By
Sanjivkumar Singh

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

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.	26173	Report Issue Date	09-03-2023		
Customer Name	South Eastern Coal Field Ltd Bilaspur	Address & Contact Details	SEEPAT ROAD BILASPUR 7752241927		
Sampling By	ANIL KUMAR YADAV	Date of Sampling	25-02-2023	Sample ID	16101
Sampling Location	Up Stream Of Baisaha Nala (Near Kundari Village) Khairaha 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	7.61	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	BDL	±0.445 @ 24.429

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

Reported By
Manojkumar Baghel

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

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.	22998	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	15831
Sampling Location	Down Stream Of Baisaha Nala (Near Kanhat Village) Khairaha 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	7.58	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	15.00	±0.445 @ 24.429

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

Reported By
Sanjivkumar Singh

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

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.	26383	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	16090
Sampling Location	Down Stream Of Baisaha Nala (Near Kanhat Village) Khairaha 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	7.33	±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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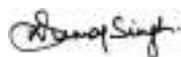
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AIR QUALITY REPORT

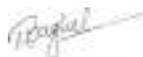
Month	MARCH	Area	SOHAGPUR	Report No	BSP/SGP/2023/03
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	02.04.2023
Name of the Project	KHAIRAHA U/G	Sample Reference No.	37-38

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					
37. Khairaha Village	B	01.03.2023	07.03.2023	160	62	41	16	20
		04.03.2023	07.03.2023	162	64	46	20	24
		10.03.2023	17.03.2023	168	68	42	14	18
		13.03.2023	17.03.2023	170	70	44	18	22
		15.03.2023	17.03.2023	174	66	48	17	23
		22.03.2023	25.03.2023	166	63	52	15	20
		24.03.2023	25.03.2023	165	59	47	13	18
		27.03.2023	01.04.2023	159	58	54	16	21
		29.03.2023	01.04.2023	155	72	50	19	22
38.Kundari Village	B	01.03.2023	07.03.2023	164	62	40	15	21
		04.03.2023	07.03.2023	168	64	38	17	21
		10.03.2023	17.03.2023	172	65	42	16	20
		13.03.2023	17.03.2023	170	70	36	20	24
		15.03.2023	17.03.2023	166	66	44	19	23
		22.03.2023	25.03.2023	165	59	39	18	22
		24.03.2023	25.03.2023	160	55	41	16	19
		27.03.2023	01.04.2023	162	56	40	15	19
		29.03.2023	01.04.2023	171	59	42	20	23



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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	KHAIRAHA U/G	Sample Reference No.	39-40

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. Electrical Sub station khairaha project	A-N	02.03.2023	07.03.2023	418	240	64	25	30	
		04.03.2023	07.03.2023	426	220	62	24	25	
		10.03.2023	17.03.2023	420	218	60	22	26	
		13.03.2023	17.03.2023	412	224	54	26	31	
		15.03.2023	17.03.2023	408	226	55	27	30	
		21.03.2023	25.03.2023	421	230	60	22	26	
		24.03.2023	25.03.2023	423	240	62	23	27	
		27.03.2023	01.04.2023	398	219	63	25	29	
40.Chirhiti Village	B	01.03.2023	07.03.2023	142	62	34	10	16	
		04.03.2023	07.03.2023	135	60	32	09	15	
		10.03.2023	17.03.2023	152	66	38	13	20	
		13.03.2023	17.03.2023	144	63	37	12	18	
		15.03.2023	17.03.2023	140	65	32	10	17	
		22.03.2023	25.03.2023	150	68	40	14	20	
		24.03.2023	25.03.2023	155	70	43	11	17	
		27.03.2023	01.04.2023	138	58	34	12	19	
		29.03.2023	01.04.2023	153	64	39	13	20	

Ram Singh

Analyzed by

Rajal

Checked by

C.K. Verma

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	KHAIRAHA U/G	Sample Reference No.	41-42

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. Kanhat Village	B	02.03.2023	07.03.2023	156	72	43	14	21
		04.03.2023	07.03.2023	160	74	44	13	20
		09.03.2023	17.03.2023	152	70	41	12	19
		11.03.2023	17.03.2023	145	67	36	10	16
		14.03.2023	17.03.2023	158	70	39	11	18
		21.03.2023	25.03.2023	165	75	45	15	22
		23.03.2023	25.03.2023	150	69	38	13	19
		27.03.2023	01.04.2023	163	71	42	10	18
		29.03.2023	01.04.2023	148	65	37	12	19
42. Main Gate	A-N	01.03.2023	07.03.2023	446	210	70	23	26
		04.03.2023	07.03.2023	454	214	68	25	28
		10.03.2023	17.03.2023	456	220	72	22	26
		13.03.2023	17.03.2023	459	218	74	24	28
		15.03.2023	17.03.2023	464	219	77	25	29
		22.03.2023	25.03.2023	470	222	75	22	27
		24.03.2023	25.03.2023	472	214	72	27	31
		27.03.2023	01.04.2023	466	218	66	26	30
		29.03.2023	01.04.2023	478	216	70	24	29

Anand Singh

Analyzed by

Rajesh

Checked by

C.K. Verma

Manager-Environment

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

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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		KHAIRAHA U/G			Sample Reference No.			43-44	
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. Managers Office	A-N	01.03.2023	07.03.2023	480	234	65	24	28	
		04.03.2023	07.03.2023	471	215	70	28	32	
		10.03.2023	17.03.2023	464	218	73	29	34	
		13.03.2023	17.03.2023	444	216	75	25	30	
		15.03.2023	17.03.2023	461	220	60	29	33	
		22.03.2023	25.03.2023	455	222	66	22	26	
		24.03.2023	25.03.2023	450	217	65	25	29	
		27.03.2023	01.04.2023	453	221	71	23	27	
		29.03.2023	01.04.2023	457	231	72	24	29	
44. Lamp Room	A-N	01.03.2023	07.03.2023	470	240	62	23	28	
		04.03.2023	07.03.2023	484	237	63	27	31	
		10.03.2023	17.03.2023	485	244	68	29	32	
		13.03.2023	17.03.2023	509	241	73	26	30	
		15.03.2023	17.03.2023	487	237	75	28	31	
		22.03.2023	25.03.2023	491	239	67	26	30	
		24.03.2023	25.03.2023	489	245	69	30	33	
		27.03.2023	01.04.2023	502	249	75	27	32	
		29.03.2023	01.04.2023	496	234	70	26	31	

Anand Singh

Analyzed by

Rajesh

Checked by

C.K. Verma

Manager-Environment

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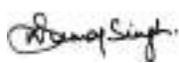
NOISE QUALITY REPORT

Month	MARCH	Area	SOHAGPUR	Report No	BSP/SGP/2023/03
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	02.04.2023
Name of the Project	KHAIRAHA U/G	Sample Reference No.	N42-45

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)	
42.Khairaha village	C	12.03.2023	46.5	41.6	
		23.03.2023	46.5	34.3	
43. Kundri village	C	12.03.2023	44.4	41.3	
		23.03.2023	46.6	33.4	
44. Electrical sub station khairaha project	A	12.03.2023	58.6	43.4	
		23.03.2023	59.2	55.5	
45. Chirhitti village	C	12.03.2023	42.5	36.6	
		23.03.2023	51.1	38.1	

Sampled by 

Checked by 

Manager-Environment 

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NOISE QUALITY REPORT

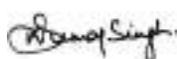
Month	MARCH	Area	SOHAGPUR	Report No	BSP/SGP/2023/03
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	02.04.2023
Name of the Project	KHAIRAHA U/G	Sample Reference No.	N46-49

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)	
46. Kanhat village	C	12.03.2023	42.5	37.6	
		23.03.2023	47.3	36.5	
47. Main Gate	A	12.03.2023	63.4	52.3	
		23.03.2023	57.8	47.6	
48. Manager's office	A	12.03.2023	52.6	47.5	
		23.03.2023	56.4	45.7	
49. Lamp Room	A	12.03.2023	52.0	46.0	
		23.03.2023	55.7	46.3	



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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.	26399	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	16257
Sampling Location	Mine Discharge (After Settling) Khairaha 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	4.60	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	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	33.00	±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.		28901		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	16446		
Sampling Location	Mine Discharge (After Settling) Khairaha 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	7.69	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	16.00	±0.445 @ 24.429

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

Reported By
Salim Khan

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

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.	28455	Report Issue Date	27-03-2023		
Customer Name	South Eastern Coal Field Ltd Bilaspur	Address & Contact Details	SEEPAT ROAD BILASPUR 7752241927		
Sampling By	SIBO, AMARJEET	Date of Sampling	07-03-2023	Sample ID	16258
Sampling Location	Up Stream Of Baisaha Nala (Near Kundari Village) Khairaha U/G	Sampling Plan	AS PER FORTNIGHTLY PLAN	Sampling Method	CMPDI/BSP/LSOP
Sample Condition	APPROPRIATE	Date of Receipt of Sample	09-03-2023	Date of Analysis	From 09-03-2023 To 20-03-2023

Sr. No	Parameter	Test At	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	Main	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	BDL	±6.209 at 247.427
2	Oil & Grease mg/l	Main	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.54	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	BDL	±0.445 @ 24.429

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

Reported By
Manojkumar Baghel

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

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.	28905	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	16447
Sampling Location	Up Stream Of Baisaha Nala (Near Kundari Village) Khairaha 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	7.89	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	19.00	±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.	28466	Report Issue Date	27-03-2023		
Customer Name	South Eastern Coal Field Ltd Bilaspur	Address & Contact Details	SEEPAT ROAD BILASPUR 7752241927		
Sampling By	SIBO, AMARJEET	Date of Sampling	07-03-2023	Sample ID	16269
Sampling Location	Down Stream Of Baisaha Nala (Near Kanhat Village) Khairaha U/G	Sampling Plan	AS PER FORTNIGHTLY PLAN	Sampling Method	CMPDI/BSP/LSOP
Sample Condition	APPROPRIATE	Date of Receipt of Sample	09-03-2023	Date of Analysis	From 09-03-2023 To 20-03-2023

Sr. No	Parameter	Test At	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	Main	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	BDL	±6.209 at 247.427
2	Oil & Grease mg/l	Main	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.28	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	BDL	±0.445 @ 24.429

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

Reported By
Manojkumar Baghel

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

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		28897		Report Issue Date		30-03-2023	
Customer Name		South Estern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	Devendra	Date of Sampling	18-03-2023	Sample ID	16445		
Sampling Location	Down Stream Of Baisaha Nala (Near Kanhat Village) Khairaha 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	7.60	±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
Salim Khan

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

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AIR QUALITY REPORT

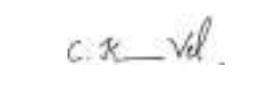
Month	OCTOBER	Area	Sohagpur	Report No	BSP/SGP/2022/10
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	10.11.2022
Name of the Project	NAVGAON U/G	Sample Reference No.	9-10

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						
9.Mine site office	A-O	07.10.2022	15.10.2022	506	255	75	26	33	
		10.10.2022	15.10.2022	510	260	78	28	34	
		12.10.2022	15.10.2022	498	245	66	30	37	
		14.10.2022	15.10.2022	515	264	80	29	35	
		17.10.2022	28.10.2022	495	248	64	32	39	
		19.10.2022	28.10.2022	505	252	72	31	36	
		21.10.2022	28.10.2022	512	262	76	33	38	
		25.10.2022	28.10.2022	494	244	68	34	40	
		27.10.2022	28.10.2022	520	260	73	35	41	
10. Navgaon colony	B	07.10.2022	15.10.2022	144	62	40	14	20	
		10.10.2022	15.10.2022	140	64	38	15	21	
		12.10.2022	15.10.2022	142	65	42	12	17	
		14.10.2022	15.10.2022	138	58	41	13	18	
		17.10.2022	28.10.2022	145	65	45	11	16	
		19.10.2022	28.10.2022	135	55	39	16	22	
		21.10.2022	28.10.2022	143	61	44	15	22	
		25.10.2022	28.10.2022	137	52	38	11	17	
		27.10.2022	28.10.2022	142	65	40	13	20	


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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	21.11.2022
Name of the Project	NAVGAON U/G	Sample Reference No.	N9-12

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)	
9. Mine site office	A	08.10.2022	51.6	47.7	
		17.10.2022	66.6	55.7	
10 .Loading Point	A	08.10.2022	53.6	51.4	
		17.10.2022	69.5	62.5	
11. Navgaon village	C	08.10.2022	50.0	45.5	
		17.10.2022	44.1	44.0	
12. Kanhat village	C	08.10.2022	44.3	44.7	
		17.10.2022	44.7	43.5	

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

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		TC-74012213172		Report Issue Date		20-10-2022	
Customer Name		South Estern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	Amarjeet Singh		Date of Sampling	14-10-2022	Sample ID	12987	
Sampling Location	Navgaon Mine Discharge Navagaon 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	BDL	±6.209 at 247.427
2	Oil & Grease mg/l	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.49	±0.1272 at 7.0074
4	Total suspended Solids mg/l	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	BDL	±0.445 @ 24.429

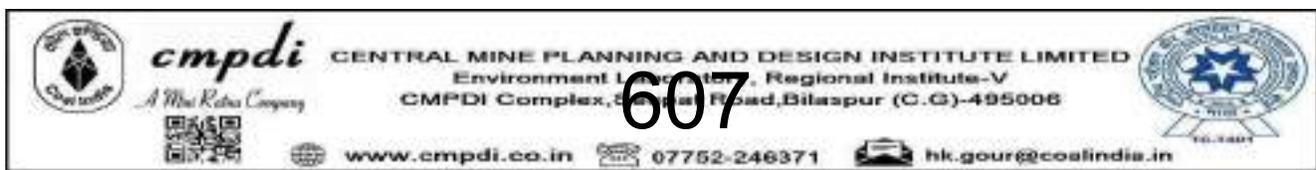
Reported By
Deepanwita Bin

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

JSA

Note:

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		TC-74012214439		Report Issue Date		04-11-2022	
Customer Name		South Estern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	RAHAMAN	Date of Sampling	31-10-2022	Sample ID	13149		
Sampling Location	Down Stream of Bairaha Nala Navagaon U/G	Sampling Plan	As Per Monthly Plan	Sampling Method	CMPDI/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	31-10-2022	Date of Analysis	From 01-11-2022 To 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	8.24	±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	7.03	±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 :04-11-2022 10:35:50

JSA

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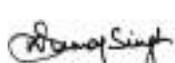
AIR QUALITY REPORT

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	NAVGAON U/G	Sample Reference No.	9-10

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							
9.Mine site office	A-O	03.11.2022	07.11.2022	506	255	74	32	39		
		07.11.2022	14.11.2022	510	260	70	31	36		
		09.11.2022	14.11.2022	515	245	66	33	38		
		11.11.2022	14.11.2022	520	264	82	34	40		
		15.11.2022	21.11.2022	522	270	60	30	35		
		17.11.2022	21.11.2022	528	275	74	35	38		
		21.11.2022	01.12.2022	512	242	70	29	34		
		24.11.2022	01.12.2022	530	280	62	37	40		
		28.11.2022	01.12.2022	526	269	70	27	31		
10. Navgaon colony	B	03.11.2022	07.11.2022	140	60	38	15	20		
		07.11.2022	14.11.2022	136	65	36	16	21		
		09.11.2022	14.11.2022	145	60	34	15	22		
		11.11.2022	14.11.2022	130	56	37	11	17		
		15.11.2022	21.11.2022	152	63	35	13	20		
		17.11.2022	21.11.2022	130	53	34	18	22		
		21.11.2022	01.12.2022	147	60	40	19	22		
		24.11.2022	01.12.2022	134	50	42	12	17		
		28.11.2022	01.12.2022	128	61	35	13	29		


Analyzed by


Checked by


Manager-Environment

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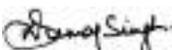
NOISE QUALITY REPORT

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	NAVGAON U/G	Sample Reference No.	9-10

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)	
9.Mine site office	A	10.11.2022	47.2	47.6	
		25.11.2022	52.2	50.5	
10.Loading point	A	10.11.2022	58.9	56.3	
		25.11.2022	60.4	57.9	
11.Navgaon village	C	10.11.2022	44.6	43.7	
		25.11.2022	54.9	42.4	
12.Kanhat village	C	10.11.2022	45.6	46.2	
		25.11.2022	45.1	42.4	


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Manager-Environment

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		TC-74012214706		Report Issue Date		19-11-2022	
Customer Name		South Estern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	Sibo Tamang	Date of Sampling	04-11-2022	Sample ID	13216		
Sampling Location	Down Stream of Bairaha Nala Navagaon 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	7.46	±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

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		TC-74012216637		Report Issue Date		15-12-2022	
Customer Name		South Estern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	Abhishek	Date of Sampling	25-11-2022	Sample ID	14502		
Sampling Location	Down Stream of Bairaha Nala Navagaon 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	7.34	±0.1272 at 7.0074
4	Total suspended Solids mg/l	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	BDL	±0.445 @ 24.429

Reported By
Nirmal Kumar

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

JSA

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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	NAVGAON 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							
9.Mine site office	A-O	02.12.2022	07.12.2022	507	245	76	30	36		
		07.12.2022	14.12.2022	512	256	72	33	37		
		10.12.2022	14.12.2022	513	248	70	29	34		
		13.12.2022	14.12.2022	522	268	62	37	40		
		16.12.2022	21.12.2022	524	274	70	27	31		
		20.12.2022	21.12.2022	538	265	74	35	38		
		23.12.2022	03.01.2023	516	252	70	29	34		
		27.12.2022	03.01.2023	526	260	62	37	40		
		30.12.2022	03.01.2023	532	270	70	27	31		
10. Kanhat village	B	02.12.2022	07.12.2022	150	60	38	18	22		
		07.12.2022	14.12.2022	146	64	36	19	22		
		10.12.2022	14.12.2022	145	60	34	12	17		
		13.12.2022	14.12.2022	140	58	37	13	29		
		16.12.2022	21.12.2022	162	63	35	13	20		
		20.12.2022	21.12.2022	135	53	34	17	22		
		23.12.2022	03.01.2023	145	63	39	16	21		
		27.12.2022	03.01.2023	137	52	32	14	18		
		30.12.2022	03.01.2023	129	60	38	20	27		


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Checked by


Manager-Environment

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NOISE QUALITY REPORT

Month	DECEMBER	Area	SOHAGPUR	Report No	BSP/SGP/2022/12
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	18.01.2023
Name of the Project	NAVGAON U/G	Sample Reference No.	9-11

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)	
9.Mine site office	A	07.12.2022	48.9	49.4	
		23.12.2022	46.0	49.7	
10.Loading Point	A	07.12.2022	51.5	50.3	
		23.12.2022	63.7	40.6	
11.Navgaon Colony	C	07.12.2022	49.6	47.3	
		23.12.2022	45.1	40.3	


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.		16716		Report Issue Date		02-01-2023	
Customer Name		South Estern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	RAHMAN	Date of Sampling	04-12-2022	Sample ID	14557		
Sampling Location	Navgaon Mine Discharge Navagaon 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	7.33	±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

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

TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		20945		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	15303		
Sampling Location	Navgaon Mine Discharge Navagaon U/G	Sampling Plan	AS PER FORTNIGHT PLAN	Sampling Method	CMPDIL/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	26-12-2022	Date of Analysis	From 30-12-2022 To 11-01-2023		

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

Reported By
Salim Khan

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

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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	NAVGAON U/G	Sample Reference No.	9-10

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					
9.Mine site office	A-O	02.01.2023	08.01.2023	515	240	72	29	33
		04.01.2023	08.01.2023	516	245	74	30	35
		06.01.2023	08.01.2023	526	252	73	31	34
		10.01.2023	13.01.2023	532	260	64	33	38
		12.01.2023	13.01.2023	528	264	74	35	40
		17.01.2023	20.01.2023	546	280	68	28	32
		19.01.2023	20.01.2023	522	270	60	30	35
		23.01.2023	29.01.2023	525	263	62	34	49
		27.01.2023	29.01.2023	529	260	68	27	32
10. Kanhat village	B	02.01.2023	08.01.2023	137	54	32	15	18
		04.01.2023	08.01.2023	139	56	34	17	22
		06.01.2023	08.01.2023	135	53	32	18	24
		10.01.2023	13.01.2023	141	58	34	14	19
		12.01.2023	13.01.2023	133	50	30	13	17
		17.01.2023	20.01.2023	145	55	35	19	23
		19.01.2023	20.01.2023	147	59	40	17	24
		23.01.2023	29.01.2023	142	55	36	16	19
		27.01.2023	29.01.2023	144	56	39	18	22

Rajul
Analyzed by

Rajul
Checked by

C.K. Verma
Manager-Environment

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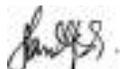
	<p style="text-align: center;">CENTRAL MINE PLANNING AND DESIGN INSTITUTE LIMITED Environment Laboratory, Regional Institute-V, Phone: (07815) 271646, email: rdri5.cmpdi@coalindia.in, website: www.cmpdi.co.in</p>	<p style="text-align: center;"><i>cmpdi</i> <i>A Mini-Ratna Company</i></p>
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NOISE 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	NAVGAON U/G	Sample Reference No.	9

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)	
9.Mine site office	A	13.01.2023	52.6	51.2	
		24.01.2023	53.4	50.4	



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.		20815		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	15398		
Sampling Location	Navgaon Mine Discharge Navagaon 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	11.60	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	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	52.00	±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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619

TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		22724		Report Issue Date		07-02-2023	
Customer Name		South Estern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	Amarjeet	Date of Sampling	21-01-2023	Sample ID	15702		
Sampling Location	Navgaon Mine Discharge Navagaon 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	7.23	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	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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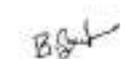
AIR QUALITY REPORT

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	NAVGAON 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						
9.Mine site office	A-O	01.02.2023	06.02.2023	530	242	73	27	32	
		03.02.2023	06.02.2023	520	247	71	24	29	
		04.02.2023	06.02.2023	524	228	69	25	28	
		05.02.2023	06.02.2023	526	262	70	34	38	
		14.02.2023	21.02.2023	534	265	68	33	36	
		16.02.2023	21.02.2023	544	270	76	32	35	
		22.02.2023	28.02.2023	549	280	64	29	33	
		24.02.2023	28.02.2023	528	266	63	30	34	
		26.02.2023	28.02.2023	555	284	68	27	31	
10. Kanhat village	B	02.02.2023	06.02.2023	139	52	34	16	18	
		03.02.2023	06.02.2023	136	50	36	18	22	
		13.02.2023	21.02.2023	134	54	32	20	23	
		14.02.2023	21.02.2023	142	51	31	15	18	
		16.02.2023	21.02.2023	130	56	30	12	15	
		21.02.2023	28.02.2023	131	55	41	17	22	
		23.02.2023	28.02.2023	140	58	39	13	16	
		25.02.2023	28.02.2023	135	60	35	16	20	


Analyzed by


Checked by


Manager-Environment

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NOISE QUALITY REPORT

Month	FEBRUARY	Area	SOHAGPUR	Report No	BSP/SGP/2023/02
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	13.03.2023
Name of the Project	NAVGAON U/G	Sample Reference No.	9

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)	
9.Mine site office	A	14.02.2023	53.2	47.4	
		25.02.2023	57.1	45.6	


 Sampled by


 Checked by


 Manager-Environment

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		23001		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	15834	
Sampling Location	Navgaon Mine Discharge Navagaon 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	7.82	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	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

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623

TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		26385		Report Issue Date		10-03-2023	
Customer Name		South Estern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	ANIL KUMAR YADAV	Date of Sampling	25-02-2023	Sample ID	16092		
Sampling Location	Navgaon Mine Discharge Navagaon 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	7.49	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	BDL	±0.445 @ 24.429

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

Reported By
Santosh Kumar Singh

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

JSA

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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	NAVGAON 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						
9.Mine site office	A-O	01.03.2023	07.03.2023	540	230	70	27	31	
		04.03.2023	07.03.2023	542	235	74	26	30	
		09.03.2023	17.03.2023	538	242	66	22	25	
		11.03.2023	17.03.2023	544	240	68	24	28	
		14.03.2023	17.03.2023	545	237	70	26	29	
		27.03.2023	01.04.2023	537	238	73	25	29	
		28.03.2023	01.04.2023	539	245	65	22	26	
		29.03.2023	01.04.2023	536	236	69	21	24	
		30.03.2023	01.04.2023	541	244	72	23	26	
10. Kanhat village	B	01.03.2023	07.03.2023	152	70	38	12	18	
		04.03.2023	07.03.2023	148	68	38	11	17	
		09.03.2023	17.03.2023	155	71	43	14	20	
		11.03.2023	17.03.2023	158	72	45	15	21	
		14.03.2023	17.03.2023	145	66	40	13	20	
		27.03.2023	01.04.2023	140	63	35	09	15	
		28.03.2023	01.04.2023	160	74	46	16	21	
		29.03.2023	01.04.2023	150	73	42	13	19	
		30.03.2023	01.04.2023	154	72	45	14	20	


Analyzed by


Checked by


Manager-Environment

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NOISE QUALITY REPORT

Month	MARCH	Area	SOHAGPUR	Report No	BSP/SGP/2023/03
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	02.04.2023
Name of the Project	Navgaon U/G	Sample Reference No.	09-10

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)	
9.Mine site office	A	13.03.2023	52.7	46.3	
		23.03.2023	57.1	45.4	
10. Kanhat village	C	12.03.2023	42.5	37.6	
		21.03.2023	47.3	36.5	

Sampled by

Checked by

Manager-Environment

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		28456		Report Issue Date		27-03-2023	
Customer Name		South Eastern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	SIBO, AMARJEET	Date of Sampling	07-03-2023	Sample ID	16260		
Sampling Location	Navgaon Mine Discharge Navagaon U/G	Sampling Plan	AS PER FORTNIGHTLY PLAN	Sampling Method	CMPDI/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	09-03-2023	Date of Analysis	From 09-03-2023 To 20-03-2023		

Sr. No	Parameter	Test At	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	Main	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	BDL	±6.209 at 247.427
2	Oil & Grease mg/l	Main	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.32	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	BDL	±0.445 @ 24.429

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

Reported By
Manojkumar Baghel

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

JSA

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		28909	Report Issue Date		30-03-2023
Customer Name		South Estern Coal Field Ltd Bilaspur	Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927
Sampling By	Devendra	Date of Sampling	18-03-2023	Sample ID	16448
Sampling Location	Navgaon Mine Discharge Navagaon 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	7.60	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	16.00	±0.445 @ 24.429

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

Reported By
Salim Khan

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

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