



ASIA ENVIRO LAB

(An ISO 9001:2015, 14001:2015, 45001:2018 & MOEF Approved Lab)

Job Description : Environmental Testing, ETP/STP Manufacturing, ETP/STP Plant Operation Pollution NOC Etc.

Lab - H1-837, Near Pollution Control Board, RIICO Industrial Area, Bhiwadi, Distt. Alwar (Rajasthan)-301019

Ph. No. : 01493-294022, 09694666022, Email : asiaenvirolab@gmail.com, Website : www.asiaenvirolab.com

Test Report

Report No.: AEL/SSPL/24092023/AA/01 Reporting Date: 29/09/2023

Issued to: **M/s Shah Sponge & Power Ltd.**
Village - Juri, P.O- Hata, Distt-East Singhbhum

Sample I'd : AEL/SSPL/240923/AA/01
Date : 24.09.2023
Period of testing : 24.09.2023 to 29.09.2023

SAMPLE PARTICULARS:	
Type of the Sample	Ambient Air Sample
Date of Sampling	21.09.2023 to 22.09.2023
Point of Sample Collection	Near Main Gate
Sample Collected By	Lab Rep.
Purpose of Analysis	Monitoring

SAMPLE OBSERVATIONS	
Sampling flow rate (m ³ /min.)	1.16
Period of sampling (minutes)	1445.8
Total volume of air sampled (m ³)	1677.1

Sr. No.	Parameters	Unit	Results	Standards Limit as Per NAAQS	Test Protocol
1	Particulate Matter(PM ₁₀)	µg/m ³	88.4	100	IS: 5182,(P-23)
2	Particulate Matter(PM _{2.5})	µg/m ³	47.2	60	IS: 5182,(P-24)
3	Sulphur Dioxide (SO ₂)	µg/m ³	14.9	80	IS: 5182,(P-2)
4	Nitrogen Dioxide (NO ₂)	µg/m ³	36.2	80	IS: 5182,(P-6)
5	Benzene (C ₆ H ₆)	µg/m ³	N.D	5	IS: 5182 (P-11)
6	Ozone(O ₃)	µg/m ³	28.2	180	IS: 5182,(P-9)
7	Lead (Pb)	µg/m ³	N.D	1	IS: 5182(P-22)
8	Arsenic (As)	ng/m ³	N.D	6	APHA-Air
9	Nickel (Ni)	ng/m ³	N.D	20	APHA-Air
10	Ammonia(NH ₃)	µg/m ³	<20	400	IS: 5182,(P-25)
11	Benzopyrene (BaP)	ng/m ³	N.D	1	IS: 5182 (P-12)
12	Carbon Mono Oxide (CO)	mg/m ³	1.21	4	IS: 5182(P-10)

Remark: - ND/Not Detectable

Checked By

Authorized Signatory



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Test Report

Report No.: AEL/SSPL/24092023/AA/02 Reporting Date: 29/09/2023

Issued to: **M/s Shah Sponge & Power Ltd.**
Village -Juri , P.O- Hata ,Distt-East Singhbhum

Sample I'd : AEL/SSPL/240923/AA/02
Date : 24.09.2023
Period of testing : 24.09.2023 to 29.09.2023

SAMPLE PARTICULARS:	
Type of the Sample	Ambient Air Sample
Date of Sampling	21.09.2023 to 22.09.2023
Point of Sample Collection	Near Gate No-2
Sample Collected By	Lab Rep.
Purpose of Analysis	Monitoring

SAMPLE OBSERVATIONS	
Sampling flow rate (m ³ /min.)	1.18
Period of sampling (minutes)	1447.4
Total volume of air sampled (m ³)	1707.9

Sr. No.	Parameters	Unit	Results	Standards Limit as Per NAAQS	Test Protocol
1	Particulate Matter(PM ₁₀)	µg/m ³	82.7	100	IS: 5182,(P-23)
2	Particulate Matter(PM _{2.5})	µg/m ³	42.6	60	IS: 5182,(P-24)
3	Sulphur Dioxide (SO ₂)	µg/m ³	12.9	80	IS: 5182,(P-2)
4	Nitrogen Dioxide (NO ₂)	µg/m ³	33.4	80	IS: 5182,(P-6)
5	Benzene (C ₆ H ₆)	µg/m ³	N.D	5	IS: 5182 (P-11)
6	Ozone(O ₃)	µg/m ³	29.9	180	IS: 5182,(P-9)
7	Lead (Pb)	µg/m ³	N.D	1	IS: 5182(P-22)
8	Arsenic (As)	ng/m ³	N.D	6	APHA-Air
9	Nickel (Ni)	ng/m ³	N.D	20	APHA-Air
10	Ammonia(NH ₃)	µg/m ³	<20	400	IS: 5182,(P-25)
11	Benzopyrene (BaP)	ng/m ³	N.D	1	IS: 5182 (P-12)
12	Carbon Mono Oxide (CO)	mg/m ³	1.09	4	IS: 5182,(P-10)

Remark: ND-Not Detectable

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Test Report

Report No.: AEL/SSPL/24092023/AA/03 Reporting Date:29/09/2023

Issued to: **M/s Shah Sponge & Power Ltd.**
Village -Juri , P.O- Hata ,Distt-East Singhbhum

Sample I'd : AEL/SSPL/240923/AA/03
Date : 24.09.2023
Period of testing : 24.09.2023 to 29.09.2023

SAMPLE PARTICULARS:	
Type of the Sample	Ambient Air Sample
Date of Sampling	21.09.2023 to 22.09.2023
Point of Sample Collection	Near DG Set Room
Sample Collected By	Lab Rep.
Purpose of Analysis	Monitoring

SAMPLE OBSERVATIONS	
Sampling flow rate (m ³ /min.)	1.17
Period of sampling (minutes)	1448.7
Total volume of air sampled (m ³)	1694.9

Sr. No.	Parameters	Unit	Results	Standards Limit as Per NAAQS	Test Protocol
1	Particulate Matter(PM ₁₀)	µg/m ³	78.3	100	IS: 5182,(P-23)
2	Particulate Matter(PM _{2.5})	µg/m ³	39.8	60	IS: 5182,(P-24)
3	Sulphur Dioxide (SO ₂)	µg/m ³	10.9	80	IS: 5182,(P-2)
4	Nitrogen Dioxide (NO ₂)	µg/m ³	37.4	80	IS: 5182,(P-6)
5	Benzene (C ₆ H ₆)	µg/m ³	N.D	5	IS: 5182 (P-11)
6	Ozone(O ₃)	µg/m ³	29.6	180	IS: 5182,(P-9)
7	Lead (Pb)	µg/m ³	N.D	1	IS: 5182(P-22)
8	Arsenic (As)	ng/m ³	N.D	6	APHA-Air
9	Nickel (Ni)	ng/m ³	N.D	20	APHA-Air
10	Ammonia(NH ₃)	µg/m ³	<20	400	IS: 5182,(P-25)
11	Benzopyrene (BaP)	ng/m ³	N.D	1	IS: 5182 (P-12)
12	Carbon Mono Oxide (CO)	mg/m ³	1.38	4	IS: 5182,(P-10)

Remark: N.D - Not Detectable

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Test Report

Report No.: AEL/SSPL/24092023/AA/04	Reporting Date: 29/09/2023
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Issued to: M/s Shah Sponge & Power Ltd. Village -Juri , P.O- Hata ,Distt-East Singhbhum	Sample I'd : AEL/SSPL/240923/AA/04 Date : 24.09.2023 Period of testing : 24.09.2023 to 29.09.2023
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SAMPLE PARTICULARS:	
Type of the Sample	Ambient Air Sample
Date of Sampling	21.09.2023 to 22.09.2023
Point of Sample Collection	Near Parking Area
Sample Collected By	Lab Rep.
Purpose of Analysis	Monitoring

SAMPLE OBSERVATIONS	
Sampling flow rate (m ³ /min.)	1.19
Period of sampling (minutes)	1449.8
Total volume of air sampled (m ³)	1725.2

Sr. No.	Parameters	Unit	Results	Standards Limit as Per NAAQS	Test Protocol
1	Particulate Matter(PM ₁₀)	µg/m ³	72.9	100	IS: 5182,(P-23)
2	Particulate Matter(PM _{2.5})	µg/m ³	35.6	60	IS: 5182,(P-24)
3	Sulphur Dioxide (SO ₂)	µg/m ³	10.8	80	IS: 5182,(P-2)
4	Nitrogen Dioxide (NO ₂)	µg/m ³	32.5	80	IS: 5182,(P-6)
5	Benzene (C ₆ H ₆)	µg/m ³	N.D	5	IS: 5182 (P-11)
6	Ozone(O ₃)	µg/m ³	30.2	180	IS: 5182,(P-9)
7	Lead (Pb)	µg/m ³	N.D	1	IS: 5182(P-22)
8	Arsenic (As)	ng/m ³	N.D	6	APHA-Air
9	Nickel (Ni)	ng/m ³	N.D	20	APHA-Air
10	Ammonia(NH ₃)	µg/m ³	<20	400	IS: 5182,(P-25)
11	Benzopyrene (BaP)	ng/m ³	N.D	1	IS: 5182 (P-12)
12	Carbon Mono Oxide (CO)	mg/m ³	0.94	4	IS: 5182,(P-10)

Remark: - ND-Not Detectable

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Test Report

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Issued to: M/s Shah Sponge & Power Ltd.
Village -Juri , P.O- Hata ,Distt-East Singhbhum

Sample I'd : AEL/SSPL/240923/AN/01
Date : 24.09.2023

SAMPLE PARTICULARS:	
Type of the Sample	Noise Level Testing (Ambient Air)
Date of Sampling	21.09.2023 to 22.09.2023
Sample Collected By	Lab Rep.
Purpose of Analysis	Monitoring

Sr. No.	Sampling Location	Units	Results		Protocol Used
			Day	Night	
1.	Near Main Gate	dB(A)	72.4	60.9	IS 9989 (By Calculation):2014

Area Code	Category of Area/Zone	Limit as per E(P)A 1986 (The Noise Pollution Regulation & Control Rule, 2006) in dB (A) Leq.	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

Note: -* Day time mean 6:00 am to 10:00 pm

** Njght Time mean 10:00 pm to 6:00 am

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Test Report

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Issued to: M/s Shah Sponge & Power Ltd. Village -Juri , P.O- Hata ,Distt-East Singhbhum	Sample I'd Date : AEL/SSPL/240923/AN/02 : 24.09.2023
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SAMPLE PARTICULARS:	
Type of the Sample	Noise Level Testing (Ambient Air)
Date of Sampling	21.09.2023 to 22.09.2023
Sample Collected By	Lab Rep.
Purpose of Analysis	Monitoring

Sr. No.	Sampling Location	Units	Results		Protocol Used
			Day	Night	
1.	Near DRI Kiln	dB(A)	69.8	57.3	IS 9989 (By Calculation):2014

Area Code	Category of Area/Zone	Limit as per E(P)A 1986 (The Noise Pollution Regulation & Control Rule, 2006) in dB (A) Leq.	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

Note: -* Day time mean 6:00 am to 10:00 pm

** Night Time mean 10:00 pm to 6:00 am


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SAMPLE PARTICULARS:	
Type of the Sample	Noise Level Testing (Ambient Air)
Date of Sampling	21.09.2023 to 22.09.2023
Sample Collected By	Lab Rep.
Purpose of Analysis	Monitoring

Sr. No.	Sampling Location	Units	Results		Protocol Used
			Day	Night	
1.	Near Weigh Bridge	dB(A)	67.4	54.9	IS 9989 (By Calculation):2014

Area Code	Category of Area/Zone	Limit as per E(P)A 1986 (The Noise Pollution Regulation & Control Rule, 2006) in dB (A) Leq.	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

Note: -* Day time mean 6:00 am to 10:00 pm

** Night Time mean 10:00 pm to 6:00 am


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Sign.

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Test Report

Report No.: AEL/SSPL/24092023/AN/04	Reporting Date: 29/09/2023
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SAMPLE PARTICULARS:	
Type of the Sample	Noise Level Testing (Ambient Air)
Date of Sampling	21.09.2023 to 22.09.2023
Sample Collected By	Lab Rep.
Purpose of Analysis	Monitoring

Sr. No.	Sampling Location	Units	Results		Protocol Used
			Day	Night	
1.	Near 725 KVA DG SET	dB(A)	71.2	58.3	IS 9989 (By Calculation):2014

Area Code	Category of Area/Zone	Limit as per E(P)A 1986 (The Noise Pollution Regulation & Control Rule, 2006) in dB (A) Leq.	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

Note: -* Day time mean 6:00 am to 10:00 pm

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Issued to: M/s Shah Sponge & Power Ltd. Village -Juri , P.O- Hata ,Distt-East Singhbhum	Sample I'd : AEL/SSPL/240923/W/01 Date : 24.09.2023 Period of testing : 24.09.2023 to 29.09.2023
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SAMPLE PARTICULARS:	
Type of the Sample	Drinking Water Sample
Date of Sampling	22.09.2023
Point of Sample Collection	From Project Site
Sample Collected By	Customer
Purpose of Analysis	Monitoring

TEST RESULTS:						
Sr.N o.	Parameters	Unit	Results	Drinking Water Specifications (As per IS-10500)		Test Protocol
				Desirable Limits	Permissible Limits in the absence of better alternate source	
1	Colour	Hazen	<5	5 max.	15 max.	APHA 23 rd Ed.,2120 B
2	Odour	--	Agreeable	Agreeable	Agreeable	IS-3025(P-5)
3	Taste	--	Agreeable	Agreeable	Agreeable	IS-3025(P-8)
4	Turbidity	NTU	<1	1 max.	5 max	APHA 23 rd Ed.,2130 B
5	pH	--	7.01	6.5 - 8.5	No relaxation	APHA 23 rd Ed.,4500 H B
6	Total Hardness,(as CaCO ₃)	mg/l	19.4	200 max.	600 max.	APHA 23 rd Ed.,2340 C
7	Iron,(as Fe)	mg/l	<0.02	0.30 max.	No relaxation.	APHA 23 rd Ed. P-3111,A,B,C
8	Chloride,(as Cl)	mg/l	22.9	250 max.	1000 max.	APHA 23 rd Ed.,4500 Cl B
9	Residual Free Chlorine	mg/l	N.D.	0.20 max.	1 max	APHA 23 rd Ed.,4500 Cl
10	Calcium, (as Ca)	mg/l	4.4	75 max.	200 max.	APHA 23 rd Ed.,3500 Ca A
11	Magnesium,(as Mg)	mg/l	2.0	30 max.	100 max.	APHA 23 rd Ed.,3500 Mg B
12	Total Dissolved Solids	mg/l	94.0	500 max.	2000 max.	APHA 23 rd Ed.,2540 C
13	Sulphate,(as SO ₄)	mg/l	2.8	200 max.	400 max.	APHA 23 rd Ed.,4500 SO ₄ E
14	Fluoride,(as F)	mg/l	0.11	1.0 max.	1.5 max.	APHA 23 rd Ed.,4500
15	Total Alkalinity,(as CaCO ₃)	mg/l	32.6	200 max.	600 max.	APHA 23 rd Ed.,2320 A
16	Chromium Total,(as Cr)	mg/l	<0.02	0.05 max.	No relaxation	APHA 23 rd Ed. P-3111,A,B,C
17	Hexa Chromium,(as Cr+6)	mg/l	N.D.	0.05 max.	No relaxation	APHA 23 rd Ed.,3500 Cr B

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18	Nitrate,(as NO ₃)	mg/l	1.16	45 max.	No relaxation	IS-3025(P-34)
19	Zinc,(as Zn)	mg/l	< 0.02	5 max.	15 max.	APHA 23rd Ed. P-3111,A,B,C
20	Phenolic Compounds, (as C ₆ H ₅ OH)	mg/l	N.D.	0.001 max.	0.002 max.	APHA 23rd Ed.,5530
21	Copper,(as Cu)	mg/l	<0.02	0.05 max.	1.50 max.	APHA 23rd Ed. P-3111,A,B,C
22	Manganese,(as Mn)	mg/l	<0.02	0.10 max.	0.30 max.	APHA 23rd Ed. P-3111,A,B,C
23	Silver (as Ag)	mg/l	<0.01	0.01 max.	0.05 max.	APHA 23rd Ed. P-3111,A,B,C
24	Aluminum, (as Al)	mg/l	<0.01	0.03 max.	0.20 max.	APHA 23rd Ed. P-3111,A,B,C
25	Ammonia (as total ammonia-N)	mg/l	N.D.	0.5 max.	No relaxation	IS 3025 (P-34)
26	Nickel (as Ni)	mg/l	<0.02	0.02 max.	No relaxation	APHA 23rd Ed. P-3111,A,B,C
27	Lead,(as Pb)	mg/l	N.D.	0.01 max.	No relaxation	APHA 23rd Ed. P-3111,A,B,C
28	Cadmium,(as Cd)	mg/l	N.D.	0.003 max.	No relaxation	APHA 23rd Ed. P-3111,A,B,C
29	Molybdenum (as Mo)	mg/l	< 0.01	0.07max	No relaxation	APHA 23rd Ed. P-3111,A,B,C
30	Boron, (as B)	mg/l	< 0.2	0.5 max	1.0 max	APHA 23rd Ed.,4500 B C
Bacteriological Test Results						
31	Coli form organisms /100 ml	--	Absent	Shall not be detectable in any 100 ml sample		IS-15185:2016
32	E-Coli/ 100 ml	--	Absent	Shall not be detectable in any 100 ml sample		IS-15185:2016

Remarks- N.D- Not Detectable


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Lab - H1-837, Near Pollution Control Board, RIICO Industrial Area, Bhiwadi, Distt. Alwar (Rajasthan)-301019

Ph. No. : 01493-294022, 09694666022, Email : asiaenvirolab@gmail.com, Website : www.asiaenvirolab.com

Test Report

Report No.: AEL/SSPL/24092023/W/02 Reporting Date: 29/09/2023

Issued to: **M/s Shah Sponge & Power Ltd.**
Village -Juri , P.O- Hata ,Distt-East Singhbhum

Sample I'd : AEL/SSPL/240923/W/02
Date : 24.09.2023
Period of testing : 24.09.2023 to 29.09.2023

SAMPLE PARTICULARS:

Type of the Sample	Ground Water Sample
Date of Sampling	22.09.2023
Point of Sample Collection	Near Project Site
Sample Collected By	Lab Rep.
Purpose of Analysis	Monitoring

TEST RESULTS:

Sr. No.	Parameters	Unit	Results	Drinking Water Specifications (As per IS-10500)		Test Protocol
				Desirable Limits	Permissible Limits in the absence of better alternate source	
1	Colour	Hazen	<5	5 max.	15 max.	APHA 23 rd Ed.,2120 B
2	Odour	--	Agreeable	Agreeable	Agreeable	IS-3025(P-5)
3	Taste	--	Agreeable	Agreeable	Agreeable	IS-3025(P-8)
4	Turbidity	NTU	<1	1 max.	5 max	APHA 23 rd Ed.,2130 B
5	pH	--	7.80	6.5 - 8.5	No relaxation	APHA 23 rd Ed.,4500 H B
6	Total Hardness,(as CaCO ₃)	mg/l	212.7	200 max.	600 max.	APHA 23 rd Ed.,2340 C
7	Iron,(as Fe)	mg/l	0.12	0.30 max.	No relaxation.	APHA 23 rd Ed. P-3111,A,B,C
8	Chloride,(as Cl)	mg/l	23.5	250 max.	1000 max.	APHA 23 rd Ed.,4500 Cl B
9	Residual Free Chlorine	mg/l	N.D.	0.20 max.	1 max	APHA 23 rd Ed.,4500 Cl
10	Calcium, (as Ca)	mg/l	57.9	75 max.	200 max.	APHA 23 rd Ed.,3500 Ca A
11	Magnesium,(as Mg)	mg/l	16.5	30 max.	100 max.	APHA 23 rd Ed.,3500 Mg B
12	Total Dissolved Solids	mg/l	596.0	500 max.	2000 max.	APHA 23 rd Ed.,2540 C
13	Sulphate,(as SO ₄)	mg/l	32.4	200 max.	400 max.	APHA 23 rd Ed.,4500 SO ₄ E
14	Fluoride,(as F)	mg/l	0.62	1.0 max.	1.5 max.	APHA 23 rd Ed.,4500
15	Total Alkalinity,(as CaCO ₃)	mg/l	340.6	200 max.	600 max.	APHA 23 rd Ed.,2320 A
16	Chromium Total,(as Cr)	mg/l	<0.02	0.05 max.	No relaxation	APHA 23 rd Ed. P-3111,A,B,C

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17	HexaChromium,(as Cr+6)	mg/l	N.D.	0.05 max.	No relaxation	APHA 23 rd Ed.,3500 Cr B
18	Nitrate,(as NO ₃)	mg/l	11.4	45 max.	No relaxation	IS-3025(P-34)
19	Zinc,(as Zn)	mg/l	0.18	5 max.	15 max.	APHA 23 rd Ed. P-3111,A,B,C
20	Phenolic Compounds, (as C ₆ H ₅ OH)	mg/l	N.D.	0.001 max.	0.002 max.	APHA 23 rd Ed.,5530
21	Copper,(as Cu)	mg/l	<0.02	0.05 max.	1.50 max.	APHA 23 rd Ed. P-3111,A,B,C
22	Manganese,(as Mn)	mg/l	<0.02	0.10 max.	0.30 max.	APHA 23 rd Ed. P-3111,A,B,C
23	Silver (as Ag)	mg/l	<0.02	0.01 max.	0.05 max.	APHA 23 rd Ed. P-3111,A,B,C
24	Aluminum, (as Al)	mg/l	<0.01	0.03 max.	0.20 max.	APHA 23 rd Ed. P-3111,A,B,C
25	Ammonia (as total ammonia-N)	mg/l	N.D.	0.5 max.	No relaxation	IS 3025 (P-34)
26	Nickel (as Ni)	mg/l	<0.02	0.02 max.	No relaxation	APHA 23 rd Ed. P-3111,A,B,C
27	Lead,(as Pb)	mg/l	N.D.	0.01 max.	No relaxation	APHA 23 rd Ed. P-3111,A,B,C
28	Cadmium,(as Cd)	mg/l	N.D.	0.003 max.	No relaxation	APHA 23 rd Ed. P-3111,A,B,C
29	Molybdenum (as Mo)	mg/l	< 0.01	0.07max	No relaxation	APHA 23 rd Ed. P-3111,A,B,C
30	Boron, (as B)	mg/l	< 0.2	0.5 max	1.0 max	APHA 23 rd Ed.,4500 B C

Bacteriological Test Results

31	Coli form organisms/100 ml	--	Absent	Shall not be detectable in any 100 ml sample	IS 15185:2016
32	E-Coli/ 100 ml	--	Absent	Shall not be detectable in any 100 ml sample	IS 15185:2016


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Test Report

Report No.: AEL/SSPL/24092023/FE/01		Reporting Date: 29/09/2023		
Issued to: M/s Shah Sponge & Power Ltd. Village -Juri , P.O- Hata ,Distt-East Singhbhum		Sample I'd : AEL/SSPL/240923/FE/01	Date : 24.09.2023	
		Period of testing : 24.09.2023 to 29.09.2023		
SAMPLE PARTICULARS:				
Type of the Sample		Fugitive Emission Sample		
Date of Sampling		21.09.2023 to 22.09.2023		
Point of Sample Collection		Near Dolochar Yard		
Sample Collected By		Lab Rep.		
Purpose of Analysis		Monitoring		
SAMPLE OBSERVATIONS				
Sampling flow rate (m³/min.)		1.17		
Period of sampling (minutes)		1445.8		
Total volume of air sampled (m³)		1691.5		
Sr. No.	Parameters	Unit	Results	Test Protocol
1	Suspended Particulate Matter(SPM)	µg/m ³	215.4	IS: 5182,(P-4)


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Test Report

Report No.: AEL/SSPL/24092023/FE/02	Reporting Date: 29/09/2023
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Issued to: M/s Shah Sponge & Power Ltd. Village -Juri , P.O- Hata ,Distt-East Singhbhum	Sample I'd : AEL/SSPL/240923/FE/02 Date : 24.09.2023 Period of testing : 24.09.2023 to 29.09.2023
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SAMPLE PARTICULARS:	
Type of the Sample	Fugitive Emission Sample
Date of Sampling	21.09.2023 to 22.09.2023
Point of Sample Collection	Near Iron Ore Yard
Sample Collected By	Lab Rep.
Purpose of Analysis	Monitoring

SAMPLE OBSERVATIONS	
Sampling flow rate (m ³ /min.)	1.18
Period of sampling (minutes)	1448.4
Total volume of air sampled (m ³)	1709.1

Sr. No.	Parameters	Unit	Results	Test Protocol
1	Suspended Particulate Matter(SPM)	µg/m ³	174.3	IS: 5182,(P-4)


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Test Report

Report No.: AEL/SSPL/24092023/FE/03		Reporting Date: 29/09/2023		
Issued to: M/s Shah Sponge & Power Ltd. Village -Juri , P.O- Hata ,Distt-East Singhbhum		Sample I'd : AEL/SSPL/240923/FE/03	Date : 24.09.2023	
		Period of testing : 24.09.2023 to 29.09.2023		
SAMPLE PARTICULARS:				
Type of the Sample		Fugitive Emission Sample		
Date of Sampling		21.09.2023 to 22.09.2023		
Point of Sample Collection		Near Coal Yard		
Sample Collected By		Lab Rep.		
Purpose of Analysis		Monitoring		
SAMPLE OBSERVATIONS				
Sampling flow rate (m³/min.)		1.16		
Period of sampling (minutes)		1446.2		
Total volume of air sampled (m³)		1677.5		
Sr. No.	Parameters	Unit	Results	Test Protocol
1	Suspended Particulate Matter(SPM)	µg/m ³	205.8	IS: 5182,(P-4)

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Test Report


Report No.: AEL/SSPL/24092023/FE/04	Reporting Date: 29/09/2023
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Issued to: M/s Shah Sponge & Power Ltd. Village -Juri , P.O- Hata ,Distt-East Singhbhum	Sample I'd : AEL/SSPL/240923/FE/04 Date : 24.09.2023 Period of testing : 24.09.2023 to 29.09.2023
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SAMPLE PARTICULARS:	
Type of the Sample	Fugitive Emission Sample
Date of Sampling	21.09.2023 to 22.09.2023
Point of Sample Collection	Near Fly Ash Storage Area
Sample Collected By	Lab Rep.
Purpose of Analysis	Monitoring

SAMPLE OBSERVATIONS	
Sampling flow rate (m ³ /min.)	1.19
Period of sampling (minutes)	1444.2
Total volume of air sampled (m ³)	1718.5

Sr. No.	Parameters	Unit	Results	Test Protocol
1	Suspended Particulate Matter(SPM)	µg/m ³	245.6	IS: 5182,(P-4)


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Test Report

Report No.: AEL/SSPL/24092023/FE/05		Reporting Date: 29/09/2023		
Issued to: M/s Shah Sponge & Power Ltd. Village -Juri , P.O- Hata ,Distt-East Singhbhum		Sample I'd : AEL/SSPL/240923/FE/05	Date : 24.09.2023	
		Period of testing : 24.09.2023 to 29.09.2023		
SAMPLE PARTICULARS:				
Type of the Sample		Fugitive Emission Sample		
Date of Sampling		21.09.2023 to 22.09.2023		
Point of Sample Collection		Near Main Gate		
Sample Collected By		Lab Rep.		
Purpose of Analysis		Monitoring		
SAMPLE OBSERVATIONS				
Sampling flow rate (m³/min.)		1.17		
Period of sampling (minutes)		1446.8		
Total volume of air sampled (m³)		1692.7		
Sr. No.	Parameters	Unit	Results	Test Protocol
1	Suspended Particulate Matter(SPM)	µg/m ³	125.3	IS: 5182,(P-4)

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Test Report

Report No.: AEL/SSPL/24092023/FE/06	Reporting Date: 29/09/2023
Issued to: M/s Shah Sponge & Power Ltd. Village -Juri , P.O- Hata ,Distt-East Singhbhum	Sample I'd : AEL/SSPL/240923/FE/06 Date : 24.09.2023 Period of testing : 24.09.2023 to 29.09.2023

SAMPLE PARTICULARS:	
Type of the Sample	Fugitive Emission Sample
Date of Sampling	21.09.2023 to 22.09.2023
Point of Sample Collection	Near Sponge Iron Leading Area
Sample Collected By	Lab Rep.
Purpose of Analysis	Monitoring

SAMPLE OBSERVATIONS	
Sampling flow rate (m³/min.)	1.19
Period of sampling (minutes)	1447.9
Total volume of air sampled (m³)	575.5

Sr. No.	Parameters	Unit	Results	Test Protocol
1	Suspended Particulate Matter(SPM)	µg/m ³	139.4	IS: 5182,(P-4)


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Test Report

Report No.: AEL/SSPL/24092023/ST/01 Reporting Date:29/09/2023

Issued to: M/s Shah Sponge & Power Ltd. Village -Juri , P.O- Hata ,Distt-East Singhbhum	Sample I'd : AEL/SSPL/240923/ST/01 Date : 24.09.2023 Period of testing : 24.09.2023 to 29.09.2023
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SAMPLE PARTICULARS:	
Type of the Sample	Stack Emission-1
Date of Sampling	21.09.2023
Name of Plant/Section	ESP D R I Kiln
Stack Height (from Ground level)	45 Meter
Stack Diameter	2.20 Meter
Type of Fuel Used	Coal
Control Measure	ESP
Sample Collected By	Lab Rep.
Purpose of Analysis	Monitoring

SAMPLE OBSERVATIONS	
Ambient Temperature, °C	34
Stack Temperature, °C	128
Flue gas velocity, m/sec	8.6
Sampling flow rate, liter per minute	27

TEST RESULT				
Sr. No.	Parameters	Unit	Results	Test Protocol
1	PM(Particulate Matter)	mg/Nm ³	98.4	IS 11255(P-1)
2	Sulphur Dioxide (SO ₂)	mg/Nm ³	374.9	IS 11255(P-2)
3	Oxides of Nitrogen(NO _x)	mg/Nm ³	110.9	IS 11255(P-7)


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Test Report

Report No.: AEL/SSPL/24092023/ST/02	Reporting Date: 29/09/2023
Issued to: M/s Shah Sponge & Power Ltd. Village -Juri , P.O- Hata ,Distt-East Singhbhum	Sample I'd : AEL/SSPL/240923/ST/02 Date : 24.09.2023 Period of testing : 24.09.2023 to 29.09.2023

SAMPLE PARTICULARS:

Type of the Sample	Stack Emission-2
Date of Sampling	21.09.2023
Name of Plant/Section	ESP C P P
Stack Height (from Ground level)	75 Meter
Stack Diameter	2.50 Meter
Type of Fuel Used	Coal
Control Measure	ESP
Sample Collected By	Lab Rep.
Purpose of Analysis	Monitoring

SAMPLE OBSERVATIONS

Ambient Temperature, °C	33
Stack Temperature, °C	94
Flue gas velocity, m/sec	8.1
Sampling flow rate, liter per minute	28

TEST RESULT

Sr. No.	Parameters	Unit	Results	Test Protocol
1	PM(Particulate Matter)	mg/Nm ³	129.4	IS 11255(P-1)
2	Sulphur Dioxide (SO ₂)	mg/Nm ³	424.4	IS 11255(P-2)
3	Oxides of Nitrogen(NO _x)	mg/Nm ³	124.7	IS 11255(P-7)

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Test Report

Report No.: AEL/SSPL/24092023/ST/03 Reporting Date: 29/09/2023

Issued to: M/s Shah Sponge & Power Ltd. Village -Juri , P.O- Hata ,Distt-East Singhbhum	Sample I'd : AEL/SSPL/240923/ST/03 Date : 24.09.2023 Period of testing : 24.09.2023 to 29.09.2023
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SAMPLE PARTICULARS:	
Type of the Sample	Stack Emission-3
Date of Sampling	21.09.2023
Name of Plant/Section	Sponge Iron Stock House
Stack Height (from Ground level)	27 Meter
Stack Diameter	600 mm
Stack Attached to	Bag Filter
Control Measure	ESP
Sample Collected By	Lab Rep.
Purpose of Analysis	Monitoring
Type of the Sample	Stack Emission-2

SAMPLE OBSERVATIONS	
Ambient Temperature, °C	33
Stack Temperature, °C	122
Flue gas velocity, m/sec	8.4
Sampling flow rate, liter per minute	27

TEST RESULT				
Sr. No.	Parameters	Unit	Results	Test Protocol
1	PM(Particulate Matter)	mg/Nm ³	34.8	IS 11255(P-1)
2	Sulphur dioxide (SO ₂)	mg/Nm ³	12.6	IS 11255(P-2)
3	Oxides of nitrogen(NO _x)	mg/Nm ³	26.9	IS 11255(P-7)


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Test Report

Report No.: AEL/SSPL/24092023/ST/04	Reporting Date: 29/09/2023
Issued to: M/s Shah Sponge & Power Ltd. Village -Juri , P.O- Hata ,Distt-East Singhbhum	Sample I'd : AEL/SSPL/240923/ST/04 Date : 24.09.2023 Period of testing : 24.09.2023 to 29.09.2023

SAMPLE PARTICULARS:	
Type of the Sample	Stack Emission-4
Date of Sampling	21.09.2023
Name of Plant/Section	Sponge Iron Raw Material Handling Yard
Stack Height (from Ground level)	20 Meter
Stack Diameter	600 mm
Stack Attached to	Bag Filter
Control Measure	Bag Filter
Sample Collected By	Lab Rep.
Purpose of Analysis	Monitoring
Type of the Sample	Stack Emission-2

SAMPLE OBSERVATIONS	
Ambient Temperature, °C	32
Stack Temperature, °C	72
Flue gas velocity, m/sec	7.6
Sampling flow rate, liter per minute	28

TEST RESULT				
Sr. No.	Parameters	Unit	Results	Test Protocol
1	PM(Particulate Matter)	mg/Nm ³	36.2	IS 11255(P-1)
2	Sulphur dioxide (SO ₂)	mg/Nm ³	11.6	IS 11255(P-2)
3	Oxides of nitrogen(NO _x)	mg/Nm ³	27.4	IS 11255(P-7)


Checked By


Authorized Signatory

ASIA ENVIRO LAB
Auth. Sign
BHIWADI

- Note:** 1. The result listed refer only to the tested samples and applicable parameters.
2. Sample will be destroyed one month from the date of issue of test certificate.
3. Any complaints about this report should be communicated within 7 days of issue of this report
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ASIA ENVIRO LAB

(An ISO 9001:2015, 14001:2015, 45001:2018 & MOEF Approved Lab)

Job Description : Environmental Testing, ETP/STP Manufacturing, ETP/STP Plant Operation Pollution NOC Etc.

Lab - H1-837, Near Pollution Control Board, RIICO Industrial Area, Bhiwadi, Distt. Alwar (Rajasthan)-301019

Ph. No. : 01493-294022, 09694666022, Email : asiaenvirolab@gmail.com, Website : www.asiaenvirolab.com

Test Report

Report No.: AEL/SSPL/24092023/ST/05 Reporting Date: 29/09/2023

Issued to: M/s Shah Sponge & Power Ltd. Village -Juri , P.O- Hata ,Distt-East Singhbhum	Sample I'd : AEL/SSPL/240923/ST/05 Date : 24.09.2023 Period of testing : 24.09.2023 to 29.09.2023
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SAMPLE PARTICULARS:	
Type of the Sample	Stack Emission-4
Date of Sampling	21.09.2023
Name of Plant/Section	Sponge Iron Cooler Discharge and Coal Injection
Stack Height (from Ground level)	15 Meter
Stack Diameter	600 mm
Stack Attached to	Bag Filter
Control Measure	Bag Filter
Sample Collected By	Lab Rep.
Purpose of Analysis	Monitoring
Type of the Sample	Stack Emission-2

SAMPLE OBSERVATIONS	
Ambient Temperature, °C	32
Stack Temperature, °C	68
Flue gas velocity, m/sec	7.9
Sampling flow rate, liter per minute	29

TEST RESULT				
Sr. No.	Parameters	Unit	Results	Test Protocol
1	PM(Particulate Matter)	mg/Nm ³	35.9	IS 11255(P-1)
2	Sulphur dioxide (SO ₂)	mg/Nm ³	10.8	IS 11255(P-2)
3	Oxides of nitrogen(NO _x)	mg/Nm ³	29.6	IS 11255(P-7)


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Test Report

Report No.: AEL/SSPL/24092023/ST/06 Reporting Date:29/09/2023

Issued to: M/s Shah Sponge & Power Ltd.
Village -Juri , P.O- Hata ,Distt-East Singhbhum

Sample I'd : AEL/SSPL/240923/ST/06
Date : 24.09.2023
Period of testing : 24.09.2023 to 29.09.2023

SAMPLE PARTICULARS:	
Type of the Sample	Stack Emission-6
Date of Sampling	21.09.2023
Name of Plant/Section	Sponge Iron Product House and Intermediate Bin
Stack Height (from Ground level)	25 Meter
Stack Diameter	600 mm
Stack Attached to	Bag Filter
Control Measure	Bag Filter
Sample Collected By	Lab Rep.
Purpose of Analysis	Monitoring
Type of the Sample	Stack Emission-2

SAMPLE OBSERVATIONS	
Ambient Temperature, °C	33
Stack Temperature, °C	86
Flue gas velocity, m/sec	8.0
Sampling flow rate, liter per minute	26

TEST RESULT				
Sr. No.	Parameters	Unit	Results	Test Protocol
1	PM(Particulate Matter)	mg/Nm ³	38.7	IS 11255(P-1)
2	Sulphur dioxide (SO ₂)	mg/Nm ³	15.4	IS 11255(P-2)
3	Oxides of nitrogen(NO _x)	mg/Nm ³	49.6	IS 11255(P-7)


Checked By


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