



**RAJASTHAN STATE MINES & MINERALS LIMITED**  
( A Government of Rajasthan Enterprise)

**SBU & PC LIGNITE, JAIPUR**

**Khanij Bhawan, Tilak Marg, C-Scheme, Jaipur-302005**

Corporate Office: 4, Meera Marg, Udaipur-303001

Registered Office: C-89-90, Lal Kothi Scheme, Jaipur-302015

Ph. (0141)2227947,2227408,2227360 FAX- 0141-2227761 E-mail jaipur.rsmml@rajasthan.gov.in  
CTIN-U14109RJ1949SGC000505, Website: www.rsmm.com . **GSTIN-08AAACR7857H1Z0**



Ref : RSMML/SBU-PC(L)/F.5/VBD/2021-22/ 676

REGISTERED  
Date 14/06/2021

To,

The Director(S),  
Ministry of Environment, Forest & Climate Change,  
Govt. of India,  
Indira Paryavaran Bhawan,  
Jor Bagh Road,  
New Delhi 110 003 (INDIA)  
e-mail- monitoring-ec@nic.in

Sub: Ambient Air quality report and Ambient Noise report for Sonari Lignite Mines, Distt. Barmer (Raj.).

Sir,

In compliance of conditions stipulated in the Environmental Clearance vide letter No. J 11015/186/2006-IA.II(M) dated 17th July, 2007 & Project Code- Thermal & Coal; please find enclosed herewith Ambient Air quality report and Ambient Noise report for the period of HE ending Apr'20 -- Sep'20 & Oct'20--Mar'21, in respect of Sonari Lignite Mines, Distt. Barmer (Rajasthan). There is no ground water intersected by mining activity.

Thanking you,

Yours faithfully,

(Arun Singh)

Head & In-charge (Lignite)  
& Project Proponent  
ARUN SINGH  
HEAD & IN-CHARGE (LIGNITE)

Encl : As above

- Copy to: 1. The Deputy Director/Scientist-C, Integrated Regional Office (IRO), Ministry of Environment, Forests & Climate Change, Aranya Bhawan, Jhalana Dungri, Jaipur (Raj) e-mail- iro.jaipur-mefcc@gov.in  
2. The Member Secretary, Rajasthan State Pollution Control Board, 4, Institutional Area, Jhalana Dungri, Jaipur, e-mail- member-secretary@rpcb.nic.in  
3. Dy. General Manager (System), Corporate Office, Udaipur to upload on BSMML website



(Arun Singh)  
Head & In-charge (Lignite)  
& Project Proponent  
ARUN SINGH  
HEAD & IN-CHARGE (LIGNITE)



1060/Lab/Air/2020/RSMM, Barmer/12/02.11.2020

**TEST REPORT**

Name of Party : Rajasthan State Mines & Minerals Ltd.,  
Soneri Lignite Project, Barmer  
Ref. : RSMM/GLP/Env./2020/277-I dated 06.10.2020  
Description of Samples : Ambient air samples(ID: HC/AIR/2020100200138-149)  
Sample collected by : Rajasthan State Mines & Minerals Ltd.,  
Soneri Lignite Project, Barmer  
Purpose : Analysis of SO<sub>2</sub> & NO<sub>x</sub> conc. in given samples  
Sample Received on : 15.10.2020

Sample No.	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>x</sub> (µg/m <sup>3</sup> )
1	8.2	14.7
2	8.2	15.0
3	8.5	15.2
4	8.1	15.4
5	7.8	14.6
6	8.1	14.0

*Rakesh*  
Scientific Officer

*H. Singh*  
Dy. Manager (GEOLOGY)

Rajasthan State Mines & Minerals Ltd.

Sonari lignite Project, Barmer

SPM Sample results for the month of March, 2021

Sample no.	Date	Location	RPM( $\mu\text{g}/\text{M}^3$ )	SPM( $\mu\text{g}/\text{M}^3$ )	TSPM ( $\mu\text{g}/\text{M}^3$ )
1	5.03.2021	Site Office	58.888	86.388	145.276
2	8.03.2021	Site Office	87.262	121.409	208.671
3	10.03.2021	Weigh Bridge	113.291	138.932	252.223
4	12.03.2021	Weigh Bridge	132.391	159.863	292.254
5	13.03.2021	Mining Area	141.005	161.111	302.116
6	15.03.2021	Mining Area	139.417	169.047	308.464

Dy. Manager (Geology)  
Sonari lignite Mines, Barmer

**Rajasthan State Mines & Minerals Ltd.**

Sonari lignite Project, Barmer

SPM Sample results for the month of December, 2020

Sample no.	Date	Location	RPM( $\mu\text{g}/\text{M}^3$ )	SPM( $\mu\text{g}/\text{M}^3$ )	TSPM ( $\mu\text{g}/\text{M}^3$ )
1	3.12.2020	Site Office	72.777	95.833	168.610
2	5.12.2020	Site Office	96.153	123.076	219.229
3	7.12.2020	Weigh Bridge	110.975	138.651	249.626
4	9.12.2020	Weigh Bridge	114.677	156.652	271.329
7	11.12.2020	Mining Area	123.233	168.498	291.731
8	14.12.2020	Mining Area	145.811	167.550	313.361

*[Handwritten Signature]*

Dy. Manager (Geology)  
Sonari lignite Mines, Barmer

## Rajasthan State Mines & Minerals Ltd.

Unit: Sonari Lignite Project, Barmer

Sound Monitoring record for the month of March-2021

S.N	Date	Locations	db		Remarks
			Min.	Max.	
1	19.03.2021	Manager Office (In Side)	27.4	31.6	
2	19.03.2021	Manager Office (Out Side)	28.5	33.2	
3	19.03.2021	Sonari Village	27.4	32.5	
4	19.03.2021	Weigh-Bridge (In Side)	38.2	42.6	Trucks are in operation for weighing.
5	19.03.2021	Weigh Bridge (Out Side)	39.6	44.0	Trucks are in operation for weighing.
6	19.03.2021	Camp	27.7	31.5	
7	19.03.2021	Plantation Area	27.0	31.1	
8	19.03.2021	SON-33 (Inside Cabin)	51.4	56.0	Kobelco Ex-220 BLC is in operation for I/B loading
9	19.03.2021	SON-33 (Outside Cabin)	60.2	65.3	Kobelco Ex-220 BLC is in operation for I/B loading
10	19.03.2021	SON-33 (Inside Cabin)	49.7	54.8	Volvo Ex-480 BLC is in operation for O/B loading
11	19.03.2021	SON-33 (Outside Cabin)	59.5	64.3	Volvo Ex-480 BLC is in operation for O/B loading
12	19.03.2021	SON-24 (Inside Cabin)	50.2	55.4	Volvo Ex-480 BLC is in operation for O/B loading
13	19.03.2021	SON-24 (Outside Cabin)	59.3	64.2	Volvo Ex-480 BLC is in operation for O/B loading
14	19.03.2021	SON-24 (Inside Cabin)	49.0	53.7	Volvo Ex-480 BLC is in operation for I/B loading
15	19.03.2021	SON-24 (Outside Cabin)	59.4	64.0	Volvo Ex-480 BLC is in operation for I/B loading
16	19.03.2021	SON-22 (Inside Cabin)	50.3	55.1	Volvo Ex-300 BLC is in operation for Lignite loading
17	19.03.2021	SON-22 (Outside Cabin)	58.2	63.0	Volvo Ex-300 BLC is in operation for Lignite loading
18	19.03.2021	Dump Yard	47.3	51.4	Dumpers are in operation for O/B unloading.
19	19.03.2021	Haul Road	48.2	52.5	Dumpers are crossing with lignite loading

*V. Singh*

Dy. Manager(Geology)  
SLP, Barmer

# Rajasthan State Mines & Minerals Ltd.

Unit: Sonari Lignite Project, Barmer

Sound Monitoring record for the month of Feb. 2021

S.N	Date	Locations	db		Remarks
			Min.	Max.	
1	12.02.2021	Manager Office (In Side)	26.7	30.5	
2	12.02.2021	Manager Office (Out Side)	27.3	32.7	
3	12.02.2021	Sonari Village	26.5	31.0	
4	12.02.2021	Weigh-Bridge (In Side)	39.8	43.4	Trucks are in operation for weighing
5	12.02.2021	Weigh Bridge (Out Side)	40.1	45.5	Trucks are in operation for weighing
6	12.02.2021	Camp	27.2	32.3	
7	12.02.2021	Plantation Area	26.3	30.5	
8	12.02.2021	SON-24 (Inside Cabin)	50.2	55.6	Kobelco Ex-220 BLC is in operation for Lignite loading
9	12.02.2021	SON-24 (Outside Cabin)	59.3	64.0	Kobelco Ex-220 BLC is in operation for lignite loading
10	12.02.2021	SON-24 (Inside Cabin)	50.2	55.2	Volvo Ex-300 BLC is in operation for Lignite loading
11	12.02.2021	SON-24 (Outside Cabin)	60.1	65.0	Volvo Ex-300 BLC is in operation for Lignite loading
12	12.02.2021	SON-24 (Inside Cabin)	50.5	55.7	Volvo Ex-480 BLC is in operation for I/B loading
13	12.02.2021	SON-24 (Outside Cabin)	61.0	65.4	Volvo Ex-480 BLC is in operation for I/B loading
14	12.02.2021	SON-33 (Inside Cabin)	49.3	54.0	Volvo Ex-480 BLC is in operation for O/B loading
15	12.02.2021	SON-33 (Outside Cabin)	58.2	63.6	Volvo Ex-480 BLC is in operation for O/B loading
16	12.02.2021	SON-33 (Inside Cabin)	50.2	54.7	Volvo Ex-480 BLC is in operation for I/B loading
17	12.02.2021	SON-33 (Outside Cabin)	59.0	63.5	Volvo Ex-480 BLC is in operation for I/B loading
18	12.02.2021	Dump Yard	46.2	50.0	Dumpers are in operation for O/B unloading
19	12.02.2021	Haul Road	47.1	51.3	Dumpers are crossing with lignite loading

*[Signature]*

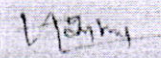
Dy. Manager(Geology)  
SLP, Barmer

# Rajasthan State Mines & Minerals Ltd.

Unit: Sonari Lignite Project, Barmer

Sound Monitoring record for the month of Jan.-2021

S.N	Date	Locations	db		Remarks
			Min.	Max.	
1	19.01.2021	Manager Office (In Side)	27.3	31.8	
2	19.01.2021	Manager Office (Out Side)	29.0	34.1	
3	19.01.2021	Sonari Village	27.2	32.5	
4	19.01.2021	Weigh-Bridge (In Side)	38.0	42.6	Trucks are in operation for weighing
5	19.01.2021	Weigh Bridge (Out Side)	39.3	44.0	Trucks are in operation for weighing
6	19.01.2021	Camp	26.1	31.2	
7	19.01.2021	Plantation Area	25.0	30.1	
8	19.01.2021	SON-22 (Inside Cabin)	49.2	54.3	Volvo Ex-300 BLC is in operation for Lignite loading
9	19.01.2021	SON-22 (Outside Cabin)	58.1	63.5	Volvo Ex-300 BLC is in operation for Lignite loading
10	19.01.2021	SON-24 (Inside Cabin)	49.5	53.6	Volvo Ex-480 BLC is in operation for O/B loading
11	19.01.2021	SON-24 (Outside Cabin)	59.2	64.3	Volvo Ex-480 BLC is in operation for O/B loading
12	19.01.2021	SON-24 (Inside Cabin)	50.1	54.6	Volvo Ex-480 BLC is in operation for O/B loading
13	19.01.2021	SON-24 (Outside Cabin)	60.3	65.2	Volvo Ex-480 BLC is in operation for O/B loading
14	19.01.2021	SON-33 (Inside Cabin)	51.2	55.5	Kobelco Ex-220 BLC is in operation for Lignite loading
15	19.01.2021	SON-33 (Outside Cabin)	60.1	65.8	Kobelco Ex-220 BLC is in operation for lignite loading
16	19.01.2021	SON-33 (Inside Cabin)	50.3	55.4	Volvo Ex-480 BLC is in operation for I/B loading
17	19.01.2021	SON-33 (Outside Cabin)	59.2	64.7	Volvo Ex-480 BLC is in operation for I/B loading
18	19.01.2021	Dump Yard	45.3	49.6	Dumpers are in operation for O/B unloading
19	19.01.2021	Haul Road	46.0	50.7	Dumpers are crossing with lignite loading

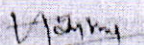
  
 Dy. Manager (Geology)  
 SLP, Barmer

# Rajasthan State Mines & Minerals Ltd.

Unit: Sonari Lignite Project, Barmer

Sound Monitoring record for the month of Jan-2021

S.N	Date	Locations	db		Remarks
			Min.	Max.	
1	19.01.2021	Manager Office (In Side)	27.3	31.8	
2	19.01.2021	Manager Office (Out Side)	29.0	34.1	
3	19.01.2021	Sonari Village	27.2	32.5	
4	19.01.2021	Weigh-Bridge (In Side)	38.0	42.6	Trucks are in operation for weighing
5	19.01.2021	Weigh Bridge (Out Side)	39.3	44.0	Trucks are in operation for weighing
6	19.01.2021	Camp	26.1	31.2	
7	19.01.2021	Plantation Area	25.0	30.1	
8	19.01.2021	SON-22 (Inside Cabin)	49.2	54.3	Volvo Ex-300 BLC is in operation for Lignite loading
9	19.01.2021	SON-22 (Outside Cabin)	58.1	63.5	Volvo Ex-300 BLC is in operation for Lignite loading
10	19.01.2021	SON-24 (Inside Cabin)	49.5	53.6	Volvo Ex-480 BLC is in operation for O/B loading
11	19.01.2021	SON-24 (Outside Cabin)	59.2	64.3	Volvo Ex-480 BLC is in operation for O/B loading
12	19.01.2021	SON-24 (Inside Cabin)	50.1	54.6	Volvo Ex-480 BLC is in operation for O/B loading
13	19.01.2021	SON-24 (Outside Cabin)	60.3	65.2	Volvo Ex-480 BLC is in operation for O/B loading
14	19.01.2021	SON-33 (Inside Cabin)	51.2	55.5	Kobelco Ex-220 BLC is in operation for Lignite loading
15	19.01.2021	SON-33 (Outside Cabin)	60.1	65.8	Kobelco Ex-220 BLC is in operation for lignite loading
16	19.01.2021	SON-33 (Inside Cabin)	50.3	55.4	Volvo Ex-480 BLC is in operation for I/B loading
17	19.01.2021	SON-33 (Outside Cabin)	59.2	64.7	Volvo Ex-480 BLC is in operation for I/B loading
18	19.01.2021	Dump Yard	45.3	49.6	Dumpers are in operation for O/B unloading
19	19.01.2021	Haul Road	46.0	50.7	Dumpers are crossing with lignite loading

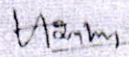
  
Dy. Manager (Geology)  
SLP, Barmer

## Rajasthan State Mines & Minerals Ltd.

Unit: Sonari Lignite Project, Barmer

Sound Monitoring record for the month of Dec.-2020

S.N	Date	Locations	db		Remarks
			Min.	Max.	
1	16.12.2020	Manager Office (In Side)	27.0	31.2	
2	16.12.2020	Manager Office (Out Side)	28.7	33.5	
3	16.12.2020	Sonari Village	27.1	32.4	
4	16.12.2020	Weigh-Bridge (In Side)	39.2	43.5	Trucks are in operation for weighing
5	16.12.2020	Weigh Bridge (Out Side)	40.1	45.2	Trucks are in operation for weighing
6	16.12.2020	Camp	27.2	32.5	
7	16.12.2020	Plantation Area	26.5	30.6	
8	16.12.2020	SON-22 (Inside Cabin)	50.1	55.0	Volvo Ex-480 BLC is in operation for O/B loading
9	16.12.2020	SON-22 (Outside Cabin)	59.2	64.7	Volvo Ex-480 BLC is in operation for O/B loading
10	16.12.2020	SON-22 (Inside Cabin)	50.4	54.1	Volvo Ex-480 BLC is in operation for O/B loading
11	16.12.2020	SON-22 (Outside Cabin)	60.3	65.6	Volvo Ex-480 BLC is in operation for O/B loading
12	16.12.2020	SON-24 (Inside Cabin)	49.8	53.5	Volvo Ex-300 BLC is in operation for Lignite loading
13	16.12.2020	SON-24 (Outside Cabin)	59.2	64.0	Volvo Ex-300 BLC is in operation for Lignite loading
14	16.12.2020	SON-33 (Inside Cabin)	50.4	54.8	Kobelco Ex-220 BLC is in operation for Lignite loading
15	16.12.2020	SON-33 (Outside Cabin)	58.3	63.1	Kobelco Ex-220 BLC is in operation for lignite loading
16	16.12.2020	SON-24 (Inside Cabin)	49.7	53.2	Volvo Ex-480 BLC is in operation for I/B loading
17	16.12.2020	SON-24 (Outside Cabin)	59.1	64.3	Volvo Ex-480 BLC is in operation for I/B loading
18	16.12.2020	Dump Yard	46.7	50.5	Dumpers are in operation for O/B unloading
19	16.12.2020	Haul Road	47.2	51.8	Dumpers are crossing with lignite loading

  
 Dy. Manager (Geology)  
 SLP, Barmer

# Rajasthan State Mines & Minerals Ltd.

Unit: Sonari Lignite Project, Barmer

Sound Monitoring record for the month of Nov.-2020

S.N	Date	Locations	db		Remarks
			Min.	Max.	
1	23.11.2020	Manager Office (In Side)	26.5	30.7	
2	23.11.2020	Manager Office (Out Side)	28.2	33.0	
3	23.11.2020	Sonari Village	26.3	31.2	
4	23.11.2020	Weigh-Bridge (In Side)	38.0	42.0	Trucks are in operation for weighing
5	23.11.2020	Weigh Bridge (Out Side)	39.5	44.6	Trucks are in operation for weighing
6	23.11.2020	Camp	28.6	32.4	
7	23.11.2020	Plantation Area	27.0	31.1	
8	23.11.2020	SON-22 (Inside Cabin)	49.3	53.4	Volvo Ex-480 BLC is in operation for O/B loading
9	23.11.2020	SON-22 (Outside Cabin)	58.7	63.0	Volvo Ex-480 BLC is in operation for O/B loading
10	23.11.2020	SON-33 (Inside Cabin)	51.2	55.6	Volvo Ex-300 BLC is in operation for Lignite loading
11	23.11.2020	SON-33 (Outside Cabin)	61.3	65.2	Volvo Ex-300 BLC is in operation for Lignite loading
12	23.11.2020	SON-24 (Inside Cabin)	50.2	54.4	Volvo Ex-480 BLC is in operation for O/B loading
13	23.11.2020	SON-24 (Outside Cabin)	59.7	64.3	Volvo Ex-480 BLC is in operation for O/B loading
14	23.11.2020	SON-22 (Inside Cabin)	49.3	55.0	Kobelco Ex-220 BLC is in operation for I/B loading
15	23.11.2020	SON-22 (Outside Cabin)	59.1	64.2	Kobelco Ex-220 BLC is in operation for I/B loading
16	23.11.2020	SON-22 (Inside Cabin)	50.0	54.4	Volvo Ex-480 BLC is in operation for O/B loading
17	23.11.2020	SON-22 (Outside Cabin)	60.3	65.1	Volvo Ex-480 BLC is in operation for O/B loading
18	23.11.2020	Dump Yard	47.2	51.0	Dumpers are in operation for O/B unloading
19	23.11.2020	Haul Road	48.1	52.3	Dumpers are crossing with lignite loading

*[Signature]*

Dy. Manager(Geology)  
SLP, Barmer

## Rajasthan State Mines & Minerals Ltd.

Unit Sonari Lignite Project Barmer

Sound Monitoring record for the month of Nov.-2020

S.N	Date	Locations	db		Remarks
			Min.	Max.	
1	23.11.2020	Manager Office (In Side)	26.5	30.7	
2	23.11.2020	Manager Office (Out Side)	28.2	33.0	
3	23.11.2020	Sonari Village	26.3	31.2	
4	23.11.2020	Weigh-Bridge (In Side)	38.0	42.0	Trucks are in operation for weighing
5	23.11.2020	Weigh Bridge (Out Side)	39.5	44.6	Trucks are in operation for weighing
6	23.11.2020	Camp	28.6	32.4	
7	23.11.2020	Plantation Area	27.0	31.1	
8	23.11.2020	SON-22 (Inside Cabin)	49.3	53.4	Volvo Ex-480 BLC is in operation for O/B loading
9	23.11.2020	SON-22 (Outside Cabin)	58.7	63.0	Volvo Ex-480 BLC is in operation for O/B loading
10	23.11.2020	SON-33 (Inside Cabin)	51.2	55.6	Volvo Ex-300 BLC is in operation for Lignite loading
11	23.11.2020	SON-33 (Outside Cabin)	61.3	65.2	Volvo Ex-300 BLC is in operation for Lignite loading
12	23.11.2020	SON-24 (Inside Cabin)	50.2	54.4	Volvo Ex-480 BLC is in operation for O/B loading
13	23.11.2020	SON-24 (Outside Cabin)	59.7	64.3	Volvo Ex-480 BLC is in operation for O/B loading
14	23.11.2020	SON-22 (Inside Cabin)	49.3	55.0	Kobelco Ex-220 BLC is in operation for I/B loading
15	23.11.2020	SON-22 (Outside Cabin)	59.1	64.2	Kobelco Ex-220 BLC is in operation for I/B loading
16	23.11.2020	SON-22 (Inside Cabin)	50.0	54.4	Volvo Ex-480 BLC is in operation for O/B loading
17	23.11.2020	SON-22 (Outside Cabin)	60.3	65.1	Volvo Ex-480 BLC is in operation for O/B loading
18	23.11.2020	Dump Yard	47.2	51.0	Dumpers are in operation for O/B unloading
19	23.11.2020	Haul Road	48.1	52.3	Dumpers are crossing with lignite loading

*(Signature)*

Dy. Manager(Geology)  
SLP, Barmer

# Rajasthan State Mines & Minerals Ltd.

Unit: Sonari Lignite Project Barmer

Sound Monitoring record for the month of Oct-2020

S.N	Date	Locations	db		Remarks
			Min.	Max.	
1	15.10.2020	Manager Office (In Side)	26.2	31.4	
2	15.10.2020	Manager Office (Out Side)	27.0	32.8	
3	15.10.2020	Sonari Village	25.5	30.3	
4	15.10.2020	Weigh-Bridge (In Side)	37.3	41.5	Trucks are in operation for weighing
5	15.10.2020	Weigh Bridge (Out Side)	38.4	43.7	Trucks are in operation for weighing
6	15.10.2020	Camp	28.0	32.6	
7	15.10.2020	Plantation Area	26.4	30.5	
8	15.10.2020	SON-33 (Inside Cabin)	50.2	54.6	Kobelco Ex-220 BLC is in operation for Lignite loading
9	15.10.2020	SON-33 (Outside Cabin)	59.1	64.7	Kobelco Ex-220 BLC is in operation for Lignite loading
10	15.10.2020	SON-33 (Inside Cabin)	50.5	54.3	Volvo Ex-300 BLC is in operation for I/B loading
11	15.10.2020	SON-33 (Outside Cabin)	60.0	65.6	Volvo Ex-300 BLC is in operation for I/B loading
12	15.10.2020	SON-24 (Inside Cabin)	49.2	53.2	Volvo Ex-480 BLC is in operation for O/B loading
13	15.10.2020	SON-24 (Outside Cabin)	58.4	63.1	Volvo Ex-480 BLC is in operation for O/B loading
14	15.10.2020	SON-24 (Inside Cabin)	50.2	55.4	Volvo Ex-480 BLC is in operation for O/B loading
15	15.10.2020	SON-24 (Outside Cabin)	59.3	64.5	Volvo Ex-480 BLC is in operation for O/B loading
16	15.10.2020	SON-22 (Inside Cabin)	50.3	54.6	Kobelco Ex-220 BLC is in operation for I/B loading
17	15.10.2020	SON-22 (Outside Cabin)	59.4	64.0	Kobelco Ex-220 BLC is in operation for I/B loading
18	15.10.2020	Dump Yard	46.0	50.2	Dumpers are in operation for O/B unloading
19	15.10.2020	Haul Road	47.2	51.5	Dumpers are crossing with lignite loading

*[Signature]*

Dy. Manager(Geology)  
SLP, Barmer



CIN : U74140RJ1996PTC0011375

## Hydrominiron Consultancy Pvt. Ltd.

823/Lab/Air/2020/RMM, Barmer/12/11.05.2020

### TEST REPORT

Name of Party : Rajasthan State Mines & Minerals Ltd.,  
Soneri Lignite Project, Barmer  
Ref. : RMM/SLP/Env./2020/7-I dated 23.04.2020  
Description of Samples : Ambient air samples  
Sample collected by : Rajasthan State Mines & Minerals Ltd.,  
Soneri Lignite Project, Barmer  
Purpose : Analysis of SO<sub>2</sub> & NO<sub>x</sub> conc. in given samples  
Sample Received on : 08.05.2020

Sample No.	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>x</sub> (µg/m <sup>3</sup> )
1	8.1	13.4
2	8.3	13.1
3	7.9	14.2
4	8.0	14.0
5	7.9	13.8
6	8.0	13.9

(P. N Bhargava)

U. M. Jaiswal (Manager)

Registered Office : C-57, Shiv Marg, Dundlod Colony, Hawa, Sadak, JAIPUR-302 019 Phone : 0141-221 0341, 221 8832  
Website : www.hydrominiron.com | E-mail : hydrominiron@hotmail.com | hcpl@hydrominiron.com

Testing & Research Division : Plot No. 11, Ratan Industrial Area, Village Harsuliya, Tehsil Phagi, District Jaipur-303904

**Rajasthan State Mines & Minerals Ltd.**

Sonari lignite Project, Barmer

SPM Sample results for the month of September, 2020

Sample .no.	Date	Location	RPM( $\mu\text{g}/\text{M}^3$ )	SPM( $\mu\text{g}/\text{M}^3$ )	TSPM ( $\mu\text{g}/\text{M}^3$ )
1	21.09.2020	Site Office	62.573	88.304	150.877
2	23.09.2020	Site Office	84.823	114.363	199.186
3	24.09.2020	Weigh Bridge	112.603	132.410	245.013
4	26.09.2020	Weigh Bridge	109.788	149.470	259.258
5	28.09.2020	Mining Area	134.417	161.788	296.205
6	30.09.2020	Mining Area	135.772	171.544	307.316



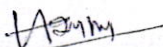
Dy. Manager (Geology)  
Sonari lignite Mines, Barmer

**Rajasthan State Mines & Minerals Ltd.**

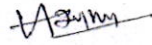
Unit: Sonari Lignite Project, Barmer

Sound Monitoring record for the month of Sept.-2020

S.N	Date	Locations	db		Remarks
			Min.	Max.	
1	24.09.2020	Manager Office (In Side)	27.8	32.5	
2	24.09.2020	Manager Office (Out Side)	29.3	34.0	
3	24.09.2020	Sonari Village	26.8	31.2	
4	24.09.2020	Weigh-Bridge (In Side)	36.5	41.8	Trucks are in operation for weighing
5	24.09.2020	Weigh Bridge (Out Side)	39.0	45.2	Trucks are in operation for weighing
6	24.09.2020	Camp	27.1	32.0	
7	24.09.2020	Plantation Area	27.2	31.7	
8	24.09.2020	SON-39 (Inside Cabin)	49.7	53.8	Volvo Ex-300 BLC is in operation for Lignite loading
9	24.09.2020	SON-39 (Outside Cabin)	58.9	63.2	Volvo Ex-300 BLC is in operation for Lignite loading
10	24.09.2020	SON-39 (Inside Cabin)	50.3	55.0	Kobelco Ex-220 BLC is in operation for I/B loading
11	24.09.2020	SON-39 (Outside Cabin)	59.1	64.5	Kobelco Ex-220 BLC is in operation for I/B loading
12	24.09.2020	SON-22 (Inside Cabin)	51.2	55.7	Volvo Ex-480 BLC is in operation for O/B loading
13	24.09.2020	SON-22 (Outside Cabin)	60.3	65.6	Volvo Ex-480 BLC is in operation for O/B loading
14	24.09.2020	SON-24 (Inside Cabin)	49.6	54.2	Volvo Ex-480 BLC is in operation for O/B loading
15	24.09.2020	SON-24 (Outside Cabin)	59.5	64.1	Volvo Ex-480 BLC is in operation for O/B loading
16	24.09.2020	SON-24 (Inside Cabin)	49.5	54.3	Kobelco Ex-220 BLC is in operation for I/B loading
17	24.09.2020	SON-24 (Outside Cabin)	58.7	63.6	Kobelco Ex-220 BLC is in operation for I/B loading
18	24.09.2020	Dump Yard	46.2	51.3	Dumpers are in operation for O/B unloading.
19	24.09.2020	Haul Road	46.3	50.2	Dumpers are crossing with lignite loading

  
Dy. Manager(Geology)  
SLP, Barmer

<b>Rajasthan State Mines &amp; Minerals Ltd.</b>					
Unit: Sonari Lignite Project, Barmer					
Sound Monitoring record for the month of August-2020					
S.N	Date	Locations	db		Remarks
			Min.	Max.	
1	21.08.2020	Manager Office (In Side)	27.3	32.7	
2	21.08.2020	Manager Office (Out Side)	28.5	33.4	
3	21.08.2020	Sonari Village	27.3	31.9	
4	21.08.2020	Weigh-Bridge (In Side)	35.0	40.2	Trucks are in operation for weighing
5	21.08.2020	Weigh Bridge (Out Side)	38.4	44.5	Trucks are in operation for weighing
6	21.08.2020	Camp	26.0	31.3	
7	21.08.2020	Plantation Area	26.4	30.5	
8	21.08.2020	SON-22 (Inside Cabin)	50.3	54.7	Volvo Ex-480 BLC is in operation for O/B loading
9	21.08.2020	SON-22 (Outside Cabin)	59.5	64.6	Volvo Ex-480 BLC is in operation for O/B loading
10	21.08.2020	SON-39 (Inside Cabin)	48.3	52.7	Volvo Ex-480 BLC is in operation for O/B loading
11	21.08.2020	SON-39 (Outside Cabin)	58.5	63.8	Volvo Ex-480 BLC is in operation for O/B loading
12	21.08.2020	SON-22 (Inside Cabin)	50.0	54.4	Volvo Ex-480 BLC is in operation for O/B loading
13	21.08.2020	SON-22 (Outside Cabin)	60.4	64.9	Volvo Ex-480 BLC is in operation for O/B loading
14	21.08.2020	SON-22 (Inside Cabin)	50.2	55.4	Volvo Ex-300 BLC is in operation for Lignite loading
15	21.08.2020	SON-22 (Outside Cabin)	60.1	65.0	Volvo Ex-300 BLC is in operation for Lignite loading
16	21.08.2020	SON-24 (Inside Cabin)	49.2	53.7	Kobelco Ex-220 BLC is in operation for I/B loading
17	21.08.2020	SON-24 (Outside Cabin)	57.9	62.5	Kobelco Ex-220 BLC is in operation for I/B loading
18	21.08.2020	Dump Yard	46.0	50.1	Dumpers are in operation for O/B unloading.
19	21.08.2020	Haul Road	47.5	51.5	Dumpers are crossing with lignite loading

  
 Dy. Manager(Geology)  
 SLP, Barmer

**Rajasthan State Mines & Minerals Ltd.**

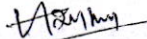
Unit: Sonari Lignite Project, Barmer

Sound Monitoring record for the month of July-2020

S.N	Date	Locations	db		Remarks
			Min.	Max.	
1	17.07.2020	Manager Office (In Side)	29.0	33.2	
2	17.07.2020	Manager Office (Out Side)	29.4	34.5	
3	17.07.2020	Sonari Village	28.2	33.1	
4	17.07.2020	Weigh-Bridge (In Side)	36.6	41.3	Trucks are in operation for weighing
5	17.07.2020	Weigh Bridge (Out Side)	40.5	46.7	Trucks are in operation for weighing
6	17.07.2020	Camp	27.3	32.5	
7	17.07.2020	Plantation Area	27.4	31.9	
8	17.07.2020	SON-22 (Inside Cabin)	51.5	56.0	Volvo Ex-480 BLC is in operation for I/B loading
9	17.07.2020	SON-22 (Outside Cabin)	60.3	65.2	Volvo Ex-480 BLC is in operation for I/B loading
10	17.07.2020	SON-24 (Inside Cabin)	50.5	55.7	Kobelco Ex-220 BLC is in operation for Lignite loading
11	17.07.2020	SON-24 (Outside Cabin)	61.2	66.1	Kobelco Ex-220 BLC is in operation for Lignite loading
12	17.07.2020	SON-22 (Inside Cabin)	49.7	55.9	Kobelco Ex-220 BLC is in operation for I/B loading
13	17.07.2020	SON-22 (Outside Cabin)	60.3	65.0	Kobelco Ex-220 BLC is in operation for I/B loading
14	17.07.2020	SON-22 (Inside Cabin)	50.4	54.3	Volvo Ex-300 BLC is in operation for Lignite loading
15	17.07.2020	SON-22 (Outside Cabin)	59.3	63.8	Volvo Ex-300 BLC is in operation for Lignite loading
16	17.07.2020	SON-24 (Inside Cabin)	48.7	52.8	Volvo Ex-480 BLC is in operation for O/B loading
17	17.07.2020	SON-24 (Outside Cabin)	58.3	63.4	Volvo Ex-480 BLC is in operation for O/B loading
18	17.07.2020	Dump Yard	47.7	51.5	Dumpers are in operation for O/B unloading.
19	17.07.2020	Haul Road	48.3	52.4	Dumpers are crossing with lignite loading

Dy. Manager(Geology)  
SLP, Barmer

<b>Rajasthan State Mines &amp; Minerals Ltd.</b>					
Unit: Sonari Lignite Project, Barmer					
Sound Monitoring record for the month of June-2020					
S.N	Date	Locations	db		Remarks
			Min.	Max.	
1	23.06.2020	Manager Office (In Side)	28.6	32.5	
2	23.06.2020	Manager Office (Out Side)	27.5	33.7	
3	23.06.2020	Sonari Village	26.7	31.5	
4	23.06.2020	Weigh-Bridge (In Side)	35.8	40.2	Trucks are in operation for weighing
5	23.06.2020	Weigh Bridge (Out Side)	41.3	45.5	Trucks are in operation for weighing
6	23.06.2020	Camp	26.7	31.6	
7	23.06.2020	Plantation Area	27.0	32.7	
8	23.06.2020	SON-24 (Inside Cabin)	50.1	54.3	Volvo Ex-300 BLC is in operation for Lignite loading
9	23.06.2020	SON-24 (Outside Cabin)	59.2	63.5	Volvo Ex-300 BLC is in operation for Lignite loading
10	23.06.2020	SON-24 (Inside Cabin)	49.3	54.8	Volvo Ex-480 BLC is in operation for I/B loading
11	23.06.2020	SON-24 (Outside Cabin)	60.1	65.7	Volvo Ex-480 BLC is in operation for I/B loading
12	23.06.2020	SON-22 (Inside Cabin)	50.0	54.4	Kobelco Ex-220 BLC is in operation for Lignite loading
13	23.06.2020	SON-22 (Outside Cabin)	58.3	62.5	Kobelco Ex-220 BLC is in operation for Lignite loading
14	23.06.2020	SON-22 (Inside Cabin)	51.2	55.0	Kobelco Ex-220 BLC is in operation for I/B loading
15	23.06.2020	SON-22 (Outside Cabin)	60.5	65.2	Kobelco Ex-220 BLC is in operation for I/B loading
16	23.06.2020	SON-39 (Inside Cabin)	49.6	54.1	Volvo Ex-480 BLC is in operation for O/B loading
17	23.06.2020	SON-39 (Outside Cabin)	59.0	63.5	Volvo Ex-480 BLC is in operation for O/B loading
18	23.06.2020	Dump Yard	46.8	50.2	Dumpers are in operation for O/B unloading.
19	23.06.2020	Haul Road	47.0	51.7	Dumpers are crossing with lignite loading

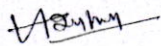
  
 Dy. Manager(Geology)  
 SLP, Barmer

**Rajasthan State Mines & Minerals Ltd.**

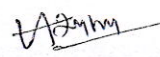
Unit: Sonari Lignite Project, Barmer

Sound Monitoring record for the month of May-2020

S.N	Date	Locations	db		Remarks
			Min.	Max.	
1	20.05.2020	Manager Office (In Side)	27.3	31.4	
2	20.05.2020	Manager Office (Out Side)	28.0	33.2	
3	20.05.2020	Sonari Village	27.2	31.1	
4	20.05.2020	Weigh-Bridge (In Side)	37.5	41.0	Trucks are in operation for weighing
5	20.05.2020	Weigh Bridge (Out Side)	41.5	45.6	Trucks are in operation for weighing
6	20.05.2020	Camp	28.3	32.7	
7	20.05.2020	Plantation Area	27.4	31.0	
8	20.05.2020	SON-39 (Inside Cabin)	50.5	56.2	Volvo Ex-480 BLC is in operation for O/B loading
9	20.05.2020	SON-39 (Outside Cabin)	60.3	65.4	Volvo Ex-480 BLC is in operation for O/B loading
10	20.05.2020	SON-39 (Inside Cabin)	49.1	53.6	Volvo Ex-480 BLC is in operation for O/B loading
11	20.05.2020	SON-39 (Outside Cabin)	59.2	63.5	Volvo Ex-480 BLC is in operation for O/B loading
12	20.05.2020	SON-24 (Inside Cabin)	51.3	56.0	Volvo Ex-300 BLC is in operation for Lignite loading
13	20.05.2020	SON-24 (Outside Cabin)	60.4	64.3	Volvo Ex-300 BLC is in operation for Lignite loading
14	20.05.2020	SON-24 (Inside Cabin)	50.6	55.7	Kobelco Ex-220 BLC is in operation for I/B loading
15	20.05.2020	SON-24 (Outside Cabin)	59.0	64.8	Kobelco Ex-220 BLC is in operation for I/B loading
16	20.05.2020	SON-22 (Inside Cabin)	50.5	55.6	Kobelco Ex-220 BLC is in operation for Lignite loading
17	20.05.2020	SON-22 (Outside Cabin)	60.3	65.0	Kobelco Ex-220 BLC is in operation for Lignite loading
18	20.05.2020	Dump Yard	47.2	51.6	Dumpers are in operation for O/B unloading.
19	20.05.2020	Haul Road	46.4	50.8	Dumpers are crossing with lignite loading

  
Dy. Manager(Geology)  
SLP, Barmer

<b>Rajasthan State Mines &amp; Minerals Ltd.</b>					
Unit: Sonari Lignite Project, Barmer					
Sound Monitoring record for the month of April-2020					
S.N	Date	Locations	db		Remarks
			Min.	Max.	
1	16.04.2020	Manager Office (In Side)	26.0	30.1	
2	16.04.2020	Manager Office (Out Side)	28.2	32.4	
3	16.04.2020	Sonari Village	26.3	30.5	
4	16.04.2020	Weigh-Bridge (In Side)	36.4	40.6	Trucks are in operation for weighing
5	16.04.2020	Weigh Bridge (Out Side)	41.3	44.7	Trucks are in operation for weighing
6	16.04.2020	Camp	29.5	34.2	
7	16.04.2020	Plantation Area	26.1	30.5	
8	16.04.2020	SON-39 (Inside Cabin)	51.2	55.6	Volvo Ex-480 BLC is in operation for O/B loading
9	16.04.2020	SON-39 (Outside Cabin)	59.5	64.2	Volvo Ex-480 BLC is in operation for O/B loading
10	16.04.2020	SON-39 (Inside Cabin)	48.3	53.4	Volvo Ex-480 BLC is in operation for O/B loading
11	16.04.2020	SON-39 (Outside Cabin)	60.1	64.0	Volvo Ex-480 BLC is in operation for O/B loading
12	16.04.2020	SON-22 (Inside Cabin)	50.2	55.3	Kobelco Ex-220 BLC is in operation for Lignite loading
13	16.04.2020	SON-22 (Outside Cabin)	60.0	65.5	Kobelco Ex-220 BLC is in operation for Lignite loading.
14	16.04.2020	SON-22 (Inside Cabin)	49.4	54.0	Kobelco Ex-220 BLC is in operation for I/B loading
15	16.04.2020	SON-22 (Outside Cabin)	58.2	63.3	Kobelco Ex-220 BLC is in operation for I/B loading
16	16.04.2020	SON-24 (Inside Cabin)	49.4	54.2	Volvo Ex-300 BLC is in operation for I/B loading
17	16.04.2020	SON-24 (Outside Cabin)	59.1	63.5	Volvo Ex-300 BLC is in operation for I/B loading
18	16.04.2020	Dump Yard	46.2	51.0	Dumpers are in operation for O/B unloading.
19	16.04.2020	Haul Road	46.0	50.3	Dumpers are crossing with lignite loading

  
**Dy. Manager(Geology)**  
 SLP, Barmer