



**Energy (Barmer) Limited**

Village & Post : Bhadresh, Post Box No. 30,

Distt : Barmer – 344001 (Rajasthan)

CIN : U31102MH1996PLC185098

Phone : +91 2982 229100

Website: [www.jsw.in](http://www.jsw.in)

Ref: JSWE(B)/ENV/24-25/011

**Date: 14.06.2024**

To,

**Ministry of Environment Forests & Climate Change,**

**Integrated Regional Office,**

**A-209&218, Aranya Bhavan, M. G. Road,**

**Jaipur-304002, Rajasthan.**

**Sub: Compliance Report-Environmental Clearance for 1080 MW Lignite based Power Plant at Village-Bhadresh, District Barmer.**

Dear Sir,

With reference to your letter No. J-13011/58/2006-IA-II (T) dated 20.07.2007 and 19.11.2009, and followed by Letter no. IV/ENV/R/Th-39/679/08/273, we herewith submit half-yearly compliance report, for the period pertaining to **October- 2023 to March- 2024**, for the conditions stipulated in the Environmental clearance issued for this Power Project. Analysis Data has uploaded on JSWEBL website – <http://www.jsw.in/energy/about-barmer-plant>.

We have taken up the Project activity at proposed site incorporating the conditions stipulated in this environmental clearance.

Thanking you.

For JSW ENERGY (BARMER) Ltd.

Dipak Patil

GM (Operation, Environment & Chemistry)

**Enclosure:**

- |                                 |                 |
|---------------------------------|-----------------|
| 1. Compliance Report            |                 |
| 2. Water consumption Data       | -Annexure I     |
| 3. Effluent Water Data          | -Annexure II    |
| 4. Coal Analysis Data           | -Annexure III   |
| 5. CEMS & Stack Monitoring DATA | -Annexure IV    |
| 6. Ash Utilization Data         | -Annexure V     |
| 7. Noise Monitoring             | -Annexure VI    |
| 8. AAQ Monitoring Data          | -Annexure VII   |
| 9. Environmental Expenditure    | - Annexure VIII |
| 10. Last Compliance Report      | -Annexure IX    |

**C.C.**

The Member Secretary – Central Pollution Control Board, Delhi

The Member Secretary – RSPCB, Jaipur

The Regional Officer – RSPCB, Balotra.



**Part of O.P.Jindal Group**

Regd. Office : JSW Energy (BARMER) Limited, JSW Center, BKC Complex, Bandra (E), Mumbai – 400051

Jaipur Office: Office No. 2 & 3, 7<sup>th</sup> Floor, Man Upasana Plaza, C-44, Sardar Patel Marg, C-Scheme, Jaipur – 302 001 Ph : 0141 2369772 Fax 0141 2369774

**Compliance report for MOEF conditions stipulated in Environmental Clearance (dt. 20-07-2007 as amended on 19-11-2009) for 1080 MW Lignite-based power project of RWPL at Village-Bhadresh, District-Barmer**

**Reporting Period: OCT, 2023- MAR-2024**

S.N.	Condition	Status
i	No land in excess of 468 ha shall be acquired for any activity of the project.	Land acquisition has been carried at the time of setting up the Power Project. No additional land been acquired for this Project.
ii	The water requirement for the project shall not exceed 35.5 cusecs. No ground water shall be abstracted for any activity of the project.	Water in excess of the mandated 35.5 cusecs would not be drawn during the operation of the Project.  IGNP supplied water is being used for generation of electricity as per EC conditions. Water being used Records of Water received from IGNP is enclosed. <b>ANNEXURE-I</b>
iii	<i>Closed Circuit Cooling System with induced draft cooling towers shall be installed.</i>	Four numbers of closed-circuit cooling tower blocks with induced draft cooling towers have been erected and are in operation.
iv	<i>Treated effluents conforming to the prescribed standards shall be re-circulated and reused within the plant. No effluents shall be discharged outside the plant boundary.</i>	A common <b>ETP (Aeration – Clarifier – Filtration – Ultra Filtration – Reverse Osmosis)</b> to cater to all the 8 power generating units has erected. All the process effluents generated is being treated in this ETP and reused within the plant ensuring zero discharge outside the plant boundary. Effluent Water Quality Data – <b>Annexure – II</b>
v	<i>Lignite with ash content not exceeding 20% and sulphur content not exceeding 2.0% shall be used.</i>	Lignite with ash content less than 20% and Sulphur content less than 2% being used.  Third party analysis reports for the same are enclosed. <b>ANNEXURE-III</b>
vi	<i>Space provision for FGD shall be made, if required at a later stage.</i>	The Project is based on Circulating Fluidized Base Combustion technology for fuel firing and involves injection of lime, which absorbs Sulphur.  As such, there is no requirement for FGD. However, space provision has been made for FGD.

vii	<i>Four stacks of 122 m height each with exit velocity of at least 20 m/s shall be provided with continuous online monitoring system.</i>	A total of four bi-flue stacks, each flue of 122 m height, shall release the flue gases to the atmosphere. All these stacks being equipped with Continuous Emission Monitoring Systems (CEMS), to ensure the emission of PM, SO <sub>2</sub> , NO <sub>x</sub> & CO to be within prescribed levels. <b>ANNEXURE-IV</b>
viii	<i>Low NO<sub>x</sub> burners shall be installed.</i>	The boiler is designed on Circulating Fluidized Bed Combustion, system attains to very low NO <sub>x</sub> generation. <b>ANNEXURE-IV</b>
ix	<i>High efficiency Electrostatic Precipitator (ESPs) having efficiency of 99.9% shall be installed so as to ensure that particulate emissions do not exceed 100 mg/Nm<sup>3</sup>.</i>	High efficiency ESPs are installed to maintain PM emission levels at less than 100 mg/Nm <sup>3</sup> . <b>ANNEXURE-IV</b>
xi	<i>Fly ash shall be collected in dry form and its 100% utilization shall be ensured within 3 years from the day of the commissioning of the plant. Ash to be disposed off in the ash pond shall be through HCSD system.</i>	Fly ash is being collected in dry form from the currently operational EIGHT Units and is being lifted by M/s Shree Cement, M/s. JK Lakshmi, M/s. Ambuja Cement Limited & M/s Binani Cements and many Local Brick and Tiles Block manufacturer. Unutilized ash, if any, would be disposed off to the emergency ash pond through HCSD system. <b>Ash Utilization data ANNEXURE-V</b>
xii	<i>Ash pond shall be lined with 0.5 mm thick HDPE geo-membrane lining.</i>	The ash pond is lined with 0.5 mm thick HDPE geo-membrane, to avoid any leachate to the ground.
xiii	<i>Details of compensation to be paid to the land oustees along with number of land oustees shall be worked out and submitted to this Ministry within three months from the date of issue of this letter or before the start of work on the project whichever is earlier.</i>	Resettlement Action Plan (RAP) was compiled and submitted to the MOEF on 30-07-2007.
xiv	<i>Necessary prior clearance from NHAI shall be obtained before laying the pipeline.</i>	All necessary prior clearance from NHAI had obtained before laying the pipeline and a copy Submitted.

<b>xv</b>	<i>Necessary prior clearance from Indian Air Force shall be obtained for construction of stacks of requisite height before starting the work on the project.</i>	Before commencing the civil work on the stacks, necessary clearance had obtained from the Indian Air Force.
<b>xvi</b>	<i>Adequate measures shall be taken up to maintain the sanctity and protection from any adverse impact from the proposed power project to the temple of Sant Ishardas Samadhi.</i>	The Temple is outside the plant premises.  In consultation with the local population, suitable developmental measures such as supply of lighting and electricity have been taken for this temple.
<b>xvii</b>	<i>Regular monitoring of ground water quality including heavy metals shall be undertaken in the project area to ascertain the change, if any, in the water quality due to leaching of contaminants from the ash disposal area.</i>	There is hardly any ground water within 20 km of the Project area.
<b>xviii</b>	<i>Noise levels shall be limited to 75 dBA. For people working in the high noise area, protective devices such as earplugs etc. shall be provided.</i>	The machinery has been designed to limit the noise levels to 75 dB (A). All personnel working in the Plant have PPEs issued. <b>ANNEXURE-VI</b>
<b>xix</b>	<i>A greenbelt shall be developed all around the plant boundary and ash pond covering an area of 154 ha.</i>	A total of 154 Ha area brought under green belt developed as designated greenbelt area. Mortality replacement work is continuous process and is being carried.
<b>xx</b>	<i>Regular monitoring of the air quality shall be carried out in and around the power plant and records shall be maintained. The location of monitoring stations and frequency of monitoring shall be finalized in consultation with SPCB. Six monthly reports shall be submitted to this Ministry.</i>	Regular monitoring of AAQ is being carried out in and around the power plant at locations and frequency finalized in consultation with the RSPCB and records are maintained. <b>ANNEXURE-VII</b>
<b>xxi</b>	<i>For controlling fugitive dust, regular sprinkling of water in lignite handling area and other vulnerable areas of the plant shall be ensured.</i>	Regular sprinkling of water is being practiced to minimize the fugitive dust emissions.

xxii	<i>The project proponent should advertise at least in two local newspapers widely circulated in the region around the project, one of which should be in the vernacular language of the locality concerned, informing that the project has been accorded environmental clearance and copies of clearance letters are available with the State Pollution Control Board/Committee and may also be seen in the Website of the Ministry of Environment and Forests in the <a href="http://envfor.nic.in">http://envfor.nic.in</a>.</i>	Published in Rajasthan Patrika Jodhpur Edition, Dt 19/08/2007
xxiii	<i>A separate environment monitoring cell with suitable qualified staff should be set up for implementation of the stipulated environmental safeguards.</i>	A dedicated environment monitoring cell with qualified staff has been established and is operative.
xxiv	<i>Half yearly report on the status of implementation of the conditions and environmental safeguards should be submitted to this Ministry, its Regional Office, CPCB and SPCB.</i>	Being complied with. Copy of Submission enclosed – <b>Annexure IX</b>
xxv	<i>Regional Office of the Ministry of Environment &amp; Forests located at Lucknow will monitor the implementation of the stipulated conditions. Complete set of Environmental Impact Assessment Report and Management Plan along with additional information submitted to this Ministry should be forwarded to the Regional Office for their use during monitoring.</i>	Submitted.
xxvi	<i>Separate funds should be allocated for implementation of environmental protection measures along with item-wise break-up. These cost should be included as part of the project cost. The funds earmarked for the environment protection measures should not be diverted for other purposes and year-wise expenditure should be reported to the Ministry.</i>	The funds earmarked for environmental protection measures will not be diverted for other purposes. <b>Annexure VIII</b>
xxvii	<i>Full cooperation should be extended to the Scientists/Officers from the Ministry and its Regional Office at Lucknow /the CPCB/the SPCB during monitoring of the project.</i>	Being complied.

**ANNEXURE - I**
**IGNP WATER BILL**
**OCTOMBER- 2023 to MARCH- 2024**

Month	Cuft/Month	Cum/Month	Cuft/day	Cusecs – Day
OCTOBER-23	80243529	2272256	2588501	29.96
NOVEMBER-23	25007169	708128	833572	9.65
DECEMBER-23	51548398	1459696	1662852	19.25
JANUARY-24	55126179	1561008	1778264	20.58
FEBRUARY-24	61772645	1749216	2130091	24.65
MARCH-24	53132182	1504544	1713941	19.84





**ANNEXURE-I**

No. 384

Government of Rajasthan  
Indira Gandhi Nahar Project

Date: 01/11/2023

The General Manager  
J.S.W Energy (Barmer) Limited  
Near Saint paul school  
Indira colony Barmer, Rajasthan

Sub: Raw water bill for industrial purpose for the period october/2023

S.No.	Particular	Reading as on 30/09/2023	Reading as on 31/10/2023	Difference as per flow meter	Qty. in CFT	Unit	Rate	Amount
1	Supply of raw water from IGMN to JSW for industrial purpose	168211664	170483920	2272256	80243528.62	/1000 cft	275	22066970.37
Rs.- Two Crore Twenty Lakh Sixty Six thousand Nine Hundred Seventy only								SAY RS 22066970.00

Assistant Engineer  
Sub dn. III 28th u/c tmc dn.  
IGNP Mohangarh

No. 441

Government of Rajasthan  
Indira Gandhi Nahar Project

Date: 01/12/2023

The General Manager  
J.S.W Energy (Barmer) Limited  
Near Saint paul school  
Indira colony Barmer, Rajasthan

Sub: Raw water bill for industrial purpose for the period November/2023

S.No.	Particular	Reading as on 31/10/2023	Reading as on 30/11/2023	Difference as per flow meter	Qty. in CFT	Unit	Rate	Amount
1	Supply of raw water from IGMN to JSW for industrial purpose	170483920	171192048	708128	25007168.84	/1000 cft	275	6876971.43
Rs.-Sixty Eight Lakh Seventy Six thousand Nine Hundred Seventy one only								SAY RS 6876971.00

S.No.  
Xen tmc dn ignp mohangarh

Date:

Assistant Engineer  
Sub dn. III 28th u/c tmc dn.  
IGNP Mohangarh

सहायक अभियन्ता  
उपखण्ड III 28 वां प्र.नि.  
डी.एम.सी.खण्ड, इ.म.न.प  
मोहनगड

No. 524

Government of Rajasthan  
Indira Gandhi Nahar Project

Date: 01/01/2024

The General Manager  
J.S.W Energy (Barmer) Limited  
Near Saint paul school  
Indira colony Barmer, Rajasthan

Sub: Raw water bill for industrial purpose for the period December/2023

S.No.	Particular	Reading as on 30/11/2023	Reading as on 31/12/2023	Difference as per flow meter	Qty. in CFT	Unit	Rate	Amount
1	Supply of raw water from IGMN to JSW for industrial purpose	173192048	172651744	1459696	51548398.49	/1000 cft	275	14175809.58
Rs.-One Crore forty one Lakh Seventy five thousand eight Hundred ten only								SAY RS 14175810.00

S.No.  
Xen tmc dn ignp mohangarh

Date:

Assistant Engineer  
Sub dn. III 28th u/c tmc dn.  
IGNP Mohangarh

सहायक अभियन्ता  
उपखण्ड III 28 वां प्र.नि.  
डी.एम.सी.खण्ड, इ.म.न.प  
मोहनगड



Part of O.P.Jindal Group

Regd. Office : JSW Energy (BARMER) Limited, JSW Center, BKC Complex, Bandra (E), Mumbai – 400051

Jaipur Office: Office No. 2 & 3, 7<sup>th</sup> Floor, Man Upasana Plaza, C-44, Sardar Patel Marg, C-Scheme, Jaipur – 302 001 Ph : 0141 2369772 Fax 0141 2369774



**ANNEXURE-I**

No. 553  
Government of Rajasthan  
Indira Gandhi Nahar Project  
Date: 01/02/2024

The General Manager  
J.S.W Energy (Barmer) Limited  
Near Saint paul school  
Indira colony Barmer, Rajasthan

Sub: Raw water bill for industrial purpose for the period January /2024

S.No.	Particular	Reading on 31/12/2023	Reading as on 31/01/2024	Difference as per flow meter	Qty. in CFT	Unit	Rate	Ammount
1	Supply of raw water from IGMN to JSW for industrial purpose	172651744	174212752	1561008	55126178.62	/1000 cft	275	15159699.12
say Rs								15159699.00

Rs.- One Crore Fifty One Lakhs Fifty Nine Thousand Six hundred Ninety nine only

S.No. 553-554

Xen tmc dn ignp mohangarh

Date: 01/02/2024

Assistant Engineer  
Sub dn. III 28th u/c tmc dn.  
IGNP Mohangarh

सहायक अभियन्ता  
उपखण्ड III 28 वां प्र.नि.  
डी.एम.सी.खण्ड, इ.गा.न.प.  
मोहनगढ़

No. 544  
Government of Rajasthan  
Indira Gandhi Nahar Project  
Date: 01/03/2024

The General Manager  
J.S.W Energy (Barmer) Limited  
Near Saint paul school  
Indira colony Barmer, Rajasthan

Sub: Raw water bill for industrial purpose for the period February/2024

S.No.	Particular	Reading as on 31/01/2024	Reading as on 29/02/2024	Difference as per flow meter	Qty. in CFT	Unit	Rate	Amount
1	Supply of raw water from IGMN to JSW for industrial purpose	174212752	175961968	1749216	61772645.41	/1000 cft	275	16987477.49
SAY RS								16987477.00

Rs.-One Crore sixty nine Lakh eighty seven thousand four Hundred seventy seven only

S.No.  
Xen tmc dn ignp mohangarh

Date:

Assistant Engineer  
Sub dn. III 28th u/c tmc dn.  
IGNP Mohangarh

सहायक अभियन्ता  
उपखण्ड III 28 वां प्र.नि.  
डी.एम.सी.खण्ड, इ.गा.न.प.  
मोहनगढ़

No. 00  
Government of Rajasthan  
Indira Gandhi Nahar Project  
Date: 01/04/2024

The General Manager  
J.S.W Energy (Barmer) Limited  
Near Saint paul school  
Indira colony Barmer, Rajasthan

Sub: Raw water bill for industrial purpose for the period March/2024

S.No.	Particular	Reading as on 29/02/2024	Reading as on 31/03/2024	Difference as per flow meter	Qty. in CFT	Unit	Rate	Amount
1	Supply of raw water from IGMN to JSW for industrial purpose	175961968	177466512	1504544	53132182.08	/1000 cft	275	14611350.07
SAY RS								14611350.00

Rs.-One Crore forty Six Lakh Eleven thousand three Hundred fifty only

S.No.  
Xen tmc dn ignp mohangarh

Date:

Assistant Engineer  
Sub dn. III 28th u/c tmc dn.  
IGNP Mohangarh

सहायक अभियन्ता  
उपखण्ड III 28 वां प्र.नि.  
डी.एम.सी.खण्ड, इ.गा.न.प.  
मोहनगढ़



### **Effluent Water Quality Oct- 2023 to Mar- 2024**

SN	Parameters	UoM	CPCB Limits	Results					
				Oct	Nov	Dec	Jan	Feb	Mar
1.	pH		<b>6.5-8.5</b>	7.68	7.46	7.49	7.64	7.65	7.58
2.	Biochemical Oxygen Demand (BOD) @ 27Deg C for 3 days	mg/L	<b>&lt; 30.0</b>	19.25	14.50	18.25	20.75	16.00	20.25
3.	Chemical Oxygen Demand (COD)	mg/L	<b>&lt; 250</b>	94.50	81.50	88.00	103.75	89.25	101.5
4.	Total Kjeldhal Nitrogen as NH <sub>3</sub>	mg/L	<b>&lt; 100</b>	7.48	6.45	8.83	7.85	3.90	9.95
5.	Free Available Chlorine	mg/L	<b>&lt; 0.5</b>	BDL<0.18	BDL<0.18	BDL<0.18	BDL<0.18	BDL<0.18	BDL<0.18
6.	Oil & Grease	mg/L	<b>&lt; 20</b>	BDL	1.00	1.20	1.05	1.60	1.83
7.	Copper as Cu	mg/L	<b>&lt; 1</b>	BDL	BDL	BDL	BDL	BDL	BDL
8.	Zinc as Zn	mg/L	<b>&lt; 1</b>	0.121	0.134	0.124	0.127	0.135	0.12
9.	Iron as Fe	mg/L	<b>&lt; 1</b>	0.124	0.144	0.120	0.130	0.122	0.135
10.	Total Suspended Solid	mg/L	<b>&lt; 100</b>	29.0	28.50	28.50	32.25	24.25	37.00
11.	Ammonical Nitrogen as N	mg/L	<b>&lt; 50</b>	3.25	3.00	4.23	4.00	3.90	4.13
12.	Nitrate Nitrogen	mg/L	<b>&lt; 10</b>	1.25	0.965	1.30	1.37	1.16	1.65
13.	Total Chromium as Cr	mg/L	<b>&lt; 1</b>	BDL<0.01	BDL<0.01	BDL<0.01	BDL<0.01	BDL<0.01	BDL<0.01

**ANNEXURE-III**

**COAL ANALYSIS REPORT**

**COAL ANALYSIS REPORT OCT, 2023 – MARCH, 2024**

	<b><u>AVERAGE</u></b>		
<b>Month</b>	<b>Total Moisture</b>	<b>Gross Calorific Value</b>	<b>Sulfur</b>
	<b>%</b>	<b>Kcal/Kg</b>	<b>%</b>
OCTOBER-23	41.79	3129.07	0.45
NOVEMBER-23	42.01	3203.49	0.40
DECEMBER-23	41.27	3248.68	0.35
JANUARY-24	41.61	3232.46	0.22
FEBRUARY-24	41.13	3089.36	0.38
MARCH-24	41.76	2871.19	0.39



**Quality Council of India**  
2nd Floor, Institution of Engineers Building,  
Bahadur Shastri Zafar Marg,  
New Delhi – 110 002, India

Report ID: QCI/COAL/JSW/SH/MR/108  
Source Name: Screenhouse (As Fired)  
Consumer Name: JSW Energy, Barmer Limited

Date: 09<sup>th</sup> November'2023

This is to certify that the weighted average analysis parameters of Lignite Coal (As Received basis) collected from Conveyor belt feeding to Unit# 1, 2, 3, 4, 5,6,7 and 8 is mentioned below:

Month	Quantity (in Metric Tonnes)	Analysis Parameters (As Received Basis) on weighted average		
		Total Moisture %	Sulphur %	GCV "Kcal/Kg"
October'2023	463459.000	41.79	0.43	3129.07

Mr. F.C. Srivastava  
Deputy Director  
Finance & Accounts Division, QCI

**Note:**

Sampling and analysis done by Quality Council of India (QCI) with the help of its technical service provider. Weighted Average Report is based on the basis Daily analysis report analyzed by QCI.  
GCV analysis has been done in accordance to BIS specification, IS 1350 (Part-II), 1970 Reaffirmed: 2017  
Testing and analysis performed at NABL accredited lab.  
#Total Moisture determination has been done by QCI with the help of its third-party agency at JSW Energy (Barmer) limited laboratory in accordance to BIS specification, IS 1350 (Part-I), 1984 reaffirmed:2013

QCI is an autonomous body, setup by Government of India, to establish & operate national accreditation structure and promote quality  
Tel.: +91-11-2337 9321, 2337 8050 Fax : +91-11-2337 8678 website : [www.qcin.org](http://www.qcin.org)

# ANNEXURE-III



**Quality Council of India**  
2nd Floor, Institution of Engineers Building,  
Bahadur Shah Zafar Marg,  
New Delhi – 110 002, India

Report ID: QCI/COAL/JSW/SH/MR/111  
Source Name: Screenhouse (As Fired)  
Consumer Name: JSW Energy, Barmer Limited

Date: 12<sup>th</sup> December'2023

This is to certify that the weighted average analysis parameters of Lignite Coal (As Received basis) collected from Conveyor belt feeding to Unit# 1, 2, 3, 4, 5,6,7 and 8 is mentioned below:

Month	Quantity (in Metric Tonnes)	Analysis Parameters (As Received Basis) on weighted average		
		Total Moisture %	Sulphur %	GCV "Kcal/Kg"
November'2023	444439.000	42.01	0.40	3203.49

Mr. F.C. Srivastava  
Deputy Director  
Finance & Accounts Division, QCI



## Note:

Sampling and analysis done by Quality Council of India (QCI) with the help of its technical service provider. Weighted Average Report is based on the basis Daily analysis report analyzed by QCI.  
GCV analysis has been done in accordance to BIS specification, IS 1350 (Part-I), 1970 Reaffirmed: 2017  
Testing and analysis performed at NABL accredited lab.  
#Total Moisture determination has been done by QCI with the help of its third-party agency at JSW Energy (Barmer) limited laboratory in accordance to BIS specification, IS 1350 (Part-I), 1984 reaffirmed:2013

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Tel: +91-11-2337 9321, 2337 8050 Fax: +91-11-2337 8678 website : [www.qci.org](http://www.qci.org)



भारतीय गुणवत्ता परिषद्

द्वितीय मंज, इंस्टीटयूट ऑफ इंजीनियर्स भवन,  
२, बहादुर शाह जयपुर मार्ग, नई दिल्ली - ११०००२

Quality Council of India

2nd Floor, Institution of Engineers Building,  
2, Bahadur Shah Zafar Marg, New Delhi - 110 002

Date: 09<sup>th</sup> January 2024

Report ID: QCI/COAL/JSW/SH/MR/114  
Source Name: Screenhouse (As Fired)  
Consumer Name: JSW Energy, Barmer Limited

This is to certify that the weighted average analysis parameters of Lignite Coal (As Received basis) collected from Conveyor belt feeding to Unit# 1, 2, 3, 4, 5,6,7 and 8 is mentioned below:

Month	Quantity (in Metric Tonnes)	Analysis Parameters (As Received Basis) on weighted average		
		Total Moisture %	Sulphur %	GCV "Kcal/Kg"
December 2023	496422.000	41.27	0.35	3248.68



Mr. F.C. Srivastava  
Deputy Director  
Finance & Accounts Division, QCI

**Note:**

Sampling and analysis done by Quality Council of India (QCI) with the help of its technical service provider. Weighted Average Report is based on the basis Daily analysis report analyzed by QCI.

GCV analysis has been done in accordance to BIS specification, IS 1350 (Part-I), 1970 Reaffirmed-2017

Testing and analysis performed at NABL accredited lab.

#Total Moisture determination has been done by QCI with the help of its third-party agency at JSW Energy (Barmer) limited laboratory in accordance to BIS specification, IS 1350 (Part-I), 1984 reaffirmed-2013

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## ANNEXURE-III



**Quality Council of India**  
2nd Floor, Institution of Engineers Building,  
Bahadur Shastri Zafar Marg,  
New Delhi – 110 002, India

Report ID: QCI/COAL/JSW/SH/MR/117  
Source Name: Screenhouse (As Fired)  
Consumer Name: JSW Energy, Barmer Limited

Date: 09<sup>th</sup> February 2024

This is to certify that the weighted average analysis parameters of Lignite Coal (As Received basis) collected from Conveyor belt feeding to Unit# 1, 2, 3, 4, 5, 6, 7 and 8 is mentioned below:

Month	Quantity (in Metric Tonnes)	Analysis Parameters (As Received Basis) on weighted average		
		Total Moisture %	Sulphur %	GCV "Kcal/Kg"
January 2024	538275.000	41.61	0.22	3232.46

Mr. F.C. Srivastava  
Deputy Director  
Finance & Accounts Division, QCI

### Note:

Sampling and analysis done by Quality Council of India (QCI) with the help of its technical service provider. Weighted Average Report is based on the basis Daily analysis report analyzed by QCI.  
GCV analysis has been done in accordance to BIS specification, IS 1350 (Part-II), 1970 Reaffirmed: 2017  
Testing and analysis performed at NABL accredited lab.  
#Total Moisture determination has been done by QCI with the help of its third-party agency at JSW Energy (Barmer) limited laboratory in accordance to BIS specification, IS 1350 (Part-I), 1984 reaffirmed:2013

QCI is an autonomous body, setup by Government of India, to establish & operate national accreditation structure and promote quality  
Tel.: +91-11-2337 9321, 2337 8050 Fax: +91-11-2337 8678 website : [www.qcin.org](http://www.qcin.org)

# ANNEXURE-III



**Quality Council of India**  
2nd Floor, Institution of Engineers Building,  
Bahadur Shah Zafar Marg,  
New Delhi – 110 002, India

Report ID: QCI/COAL/JSW/SH/MR/120  
Source Name: Screenhouse (As Fired)  
Consumer Name: JSW Energy, Barmer Limited

Date: 11<sup>th</sup> March'2024

This is to certify that the weighted average analysis parameters of Lignite Coal (As Received basis) collected from Conveyor belt feeding to Unit# 1, 2, 3, 4, 5,6,7 and 8 is mentioned below:

Month	Quantity (in Metric Tonnes)	Analysis Parameters (As Received Basis) on weighted average		
		Total Moisture %	Sulphur %	GCV "Kcal/Kg"
February'2024	335899.000	41.13	0.38	3089.36



Mr. F.C. Srivastava  
Deputy Director  
Finance & Accounts Division, QCI

## Note:

Sampling and analysis done by Quality Council of India (QCI) with the help of its technical service provider. Weighted Average Report is based on the basis Daily analysis report analyzed by QCI.  
GCV analysis has been done in accordance to BIS specification, IS 1350 (Part-II), 1970 Reaffirmed: 2017  
Testing and analysis performed at NABL accredited lab.  
#Total Moisture determination has been done by QCI with the help of its third-party agency at JSW Energy (Barmer) limited laboratory in accordance to BIS specification, IS 1350 (Part-I), 1984 reaffirmed:2013

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## ANNEXURE-III



**Quality Council of India**  
2nd Floor, Institution of Engineers Building,  
Bahadur Shastri Zatar Marg,  
New Delhi – 110 002, India

Report ID: QCI/COAL/JSW/SH/MR/123  
Source Name: Screenhouse (As Fired)  
Consumer Name: JSW Energy, Barmer Limited

Date: 09<sup>th</sup> April 2024

This is to certify that the weighted average analysis parameters of Lignite Coal (As Received basis) collected from Conveyor belt feeding to Unit# 1, 2, 3, 4, 5,6,7 and 8 is mentioned below:

Month	Quantity (in Metric Tonnes)	Analysis Parameters (As Received Basis) on weighted average		
		Total Moisture %	Sulphur %	GCV "Kcal/Kg"
March/2024	565396.000	41.76	0.39	2871.19



Mr. F.C. Srivastava  
Deputy Director  
Finance & Accounts Division, QCI

### Note:

Sampling and analysis done by Quality Council of India (QCI) with the help of its technical service provider. Weighted Average Report is based on the basis Daily analysis report analyzed by QCI.  
GCV analysis has been done in accordance to BIS specification, IS 1350 (Part-I), 1970 Reaffirmed: 2017  
Testing and analysis performed at NABL accredited lab.  
#Total Moisture determination has been done by QCI with the help of its third-party agency at JSW Energy (Barmer) limited laboratory in accordance to BIS specification, IS 1350 (Part-I), 1984 reaffirmed:2013

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**ANNEXURE-IV**
**STACK EMISSION MONITORING RESULTS OCT – 2023 to MARCH – 2024**
**Month: Oct' 2023**

SN	Parameters	UOM	Unit-I	Unit-II	Unit-III	Unit-IV	Unit-V	Unit-VI	Unit-VII	Unit-VIII
1	Average Velocity	m/Sec	17.93	18.33	18.02	18.26	17.79	17.98	17.96	18.31
2	Flow	Nm <sup>3</sup> /Sec	137.0	141.0	140.5	137.3	133.7	135.8	138.1	138.9
3	Stack Exit Temp.	°C	165	162	156	172	172	170	162	168
4	Particulate Matter	mg/Nm <sup>3</sup>	36.8	37.6	35.2	33.6	39.1	36.4	40.4	40.1
5	Sulphur Dioxide	mg/Nm <sup>3</sup>	471.8	476.4	462.0	456.8	510.8	502.2	475.4	481.5
6	Oxides of Nitrogen	mg/Nm <sup>3</sup>	169.4	156.6	169.0	157.8	183.4	160.7	166.4	157.5

**Month: NOV' 2023**

SN	Parameters	UOM	Unit-I	Unit-II	Unit-III	Unit-IV	Unit-V	Unit-VI	Unit-VII	Unit-VIII
1	Average Velocity	m/Sec	15.18	15.36	15.79	15.70	15.67	15.83	15.32	15.70
2	Flow	Nm <sup>3</sup> /Sec	117.0	115.7	120.6	120.5	119.1	118.0	116.0	119.6
3	Stack Exit Temp.	°C	161	171	165	163	167	176	169	166
4	Particulate Matter	mg/Nm <sup>3</sup>	35.2	38.3	39.9	40.3	34.0	35.7	38.9	38.7
5	Sulphur Dioxide	mg/Nm <sup>3</sup>	475.2	464.4	470.1	476.4	483.7	490.7	492.9	493.6
6	Oxides of Nitrogen	mg/Nm <sup>3</sup>	136.1	133.0	133.0	129.8	125.9	162.8	149.3	146.3

**Month: DEC' 2023**

SN	Parameters	UOM	Unit-I	Unit-II	Unit-III	Unit-IV	Unit-V	Unit-VI	Unit-VII	Unit-VIII
1	Average Velocity	m/Sec	15.67	15.56	16.15	15.97	16.56	16.11	17.36	16.47
2	Flow	Nm <sup>3</sup> /Sec	119.1	116.7	121.1	120.9	125.1	120.6	134.1	125.8
3	Stack Exit Temp.	°C	167	173	173	169	170	174	160	165
4	Particulate Matter	mg/Nm <sup>3</sup>	36.9	39.3	41.3	38.3	37.4	39.9	40.7	36.3
5	Sulphur Dioxide	mg/Nm <sup>3</sup>	460.0	458.2	479.3	467.2	503.9	467.2	509.7	480.8
6	Oxides of Nitrogen	mg/Nm <sup>3</sup>	120.1	130.0	136.0	126.8	131.8	126.8	156.8	142.2

# **ANNEXURE-IV**

**Month: JAN' 2024**

SN	Parameters	UOM	Unit-I	Unit-II	Unit-III	Unit-IV	Unit-V	Unit-VI	Unit-VII	Unit-VIII
1	Average Velocity	m/Sec	16.96	18.05	18.99	17.81	18.19	17.39	17.05	17.65
2	Flow	Nm <sup>3</sup> /Sec	126.7	136.0	144.1	135.7	136.4	131.6	130.5	134.8
3	Stack Exit Temp.	°C	175	171	168	166	173	169	164	165
4	Particulate Matter	mg/Nm <sup>3</sup>	37.6	34.4	33.2	33.8	39.0	36.4	31.2	35.3
5	Sulphur Dioxide	mg/Nm <sup>3</sup>	490.0	463.3	459.2	467.8	494.4	450.1	433.4	435.6
6	Oxides of Nitrogen	mg/Nm <sup>3</sup>	135.0	125.0	136.0	131.9	143.2	126.8	127.8	127.9

**Month: FEB' 2024**

SN	Parameters	UOM	Unit-I	Unit-II	Unit-III	Unit-IV	Unit-V	Unit-VI	Unit-VII	Unit-VIII
1	Average Velocity	m/Sec	16.85	17.73	17.68	17.67	18.04	18.93	18.77	17.50
2	Flow	Nm <sup>3</sup> /Sec	127.5	136.4	138.8	135.3	137.5	144.6	142.4	135.8
3	Stack Exit Temp.	°C	169	162	153	164	166	165	168	158
4	Particulate Matter	mg/Nm <sup>3</sup>	37.5	38.5	35.3	36.1	38.2	33.9	34.0	37.4
5	Sulphur Dioxide	mg/Nm <sup>3</sup>	447.7	461.5	436.9	456.3	442.3	456.3	463.3	458.2
6	Oxides of Nitrogen	mg/Nm <sup>3</sup>	154.5	145.2	163.1	156.6	159.8	148.4	151.2	158.4

**Month: MAR' 2024**

SN	Parameters	UOM	Unit-I	Unit-II	Unit-III	Unit-IV	Unit-V	Unit-VI	Unit-VII	Unit-VIII
1	Average Velocity	m/Sec	19.66	17.84	18.07	18.84	17.71	17.05	18.37	17.99
2	Flow	Nm <sup>3</sup> /Sec	151.6	139.1	144.3	146.6	136.5	132.0	141.9	140.0
3	Stack Exit Temp.	°C	161	156	146	157	161	159	160	157
4	Particulate Matter	mg/Nm <sup>3</sup>	34.5	40.7	32.2	34.5	40.2	32.8	35.6	39.0
5	Sulphur Dioxide	mg/Nm <sup>3</sup>	433.0	471.2	429.9	466.0	456.3	449.3	481.5	464.9
6	Oxides of Nitrogen	mg/Nm <sup>3</sup>	149.3	150.1	154.3	161.0	162.8	141.1	161.6	162.8



# **ANNEXURE-IV**

## **Unit # 1 - Continuous Emission Monitoring System-CEMS DATA**

Month		SOX mg/m3	NOX mg/m3	SPM mg/m3
Oct-23	Average	494.48	166.53	35.53
	Max	518.53	185.91	44.41
Nov-23	Average	494.89	189.66	37.37
	Max	518.62	217.89	45.45
Dec-23	Average	505.94	181.52	39.01
	Max	527.63	227.75	46.13
Jan-24	Average	492.91	218.34	37.42
	Max	518.44	236.50	45.68
Feb-24	Average	450.53	207.09	35.25
	Max	513.29	252.51	46.16
Mar-24	Average	454.86	160.15	35.54
	Max	510.16	184.35	43.12

## **Unit # 2 - Continuous Emission Monitoring System-CEMS DATA**

Month		SOX mg/m3	NOX mg/m3	SPM mg/m3
Oct-23	Average	428.26	165.44	29.24
	Max	460.41	180.55	38.49
Nov-23	Average	403.13	172.19	31.44
	Max	451.55	188.34	44.05
Dec-23	Average	435.70	157.51	32.88
	Max	448.79	189.91	46.33
Jan-24	Average	428.48	168.64	38.60
	Max	497.79	188.78	45.72
Feb-24	Average	407.89	145.08	38.55
	Max	512.22	234.00	43.58
Mar-24	Average	400.16	142.93	37.76
	Max	493.90	171.62	44.36

## ANNEXURE-II

### Unit # 3 - Continuous Emission Monitoring System-CEMS DATA

Month		SOX mg/m3	NOX mg/m3	SPM mg/m3
Oct-23	Average	480.47	187.48	36.52
	Max	518.04	213.56	40.75
Nov-23	Average	482.60	188.45	39.13
	Max	519.68	210.25	41.72
Dec-23	Average	444.51	143.02	38.22
	Max	514.23	170.29	42.35
Jan-24	Average	455.55	169.14	39.57
	Max	520.18	187.70	42.08
Feb-24	Average	457.35	161.11	40.42
	Max	508.58	187.61	44.71
Mar-24	Average	441.11	153.18	41.33
	Max	503.32	174.39	43.54

### Unit # 4 - Continuous Emission Monitoring System-CEMS DATA

Month		SOX mg/m3	NOX mg/m3	SPM mg/m3
Oct-23	Average	390.22	240.22	31.54
	Max	446.87	248.71	37.31
Nov-23	Average	253.59	156.71	34.56
	Max	373.68	195.16	40.69
Dec-23	Average	432.65	135.40	34.90
	Max	517.87	160.05	39.56
Jan-24	Average	451.18	195.37	37.62
	Max	525.33	244.61	41.84
Feb-24	Average	490.24	209.07	39.61
	Max	523.55	275.34	45.68
Mar-24	Average	411.43	183.77	39.20
	Max	256.14	273.52	40.78

## ANNEXURE-II

### Unit # 5 - Continuous Emission Monitoring System-CEMS DATA

Month		SOX mg/m3	NOX mg/m3	SPM mg/m3
Oct-23	Average	452.78	164.11	35.07
	Max	513.48	196.98	41.19
Nov-23	Average	420.76	150.10	36.97
	Max	501.12	177.82	42.82
Dec-23	Average	410.04	153.26	34.44
	Max	511.05	192.68	46.38
Jan-24	Average	455.63	175.07	39.45
	Max	520.18	196.29	42.08
Feb-24	Average	464.56	158.96	35.49
	Max	510.94	219.88	44.71
Mar-24	Average	426.31	176.99	35.54
	Max	501.73	226.98	39.87

### Unit # 6 - Continuous Emission Monitoring System-CEMS DATA

Month		SOX mg/m3	NOX mg/m3	SPM mg/m3
Oct-23	Average	473.31	203.49	40.64
	Max	558.41	285.04	46.35
Nov-23	Average	412.61	226.56	34.18
	Max	531.72	271.91	45.43
Dec-23	Average	398.16	131.69	37.51
	Max	511.31	166.54	43.84
Jan-24	Average	471.26	179.20	41.57
	Max	533.98	217.49	45.97
Feb-24	Average	500.04	213.47	38.55
	Max	531.73	264.80	45.60
Mar-24	Average	502.70	187.96	39.54
	Max	526.99	266.45	45.54

## ANNEXURE-II

### Unit # 7 - Continuous Emission Monitoring System-CEMS DATA

Month		SOX mg/m3	NOX mg/m3	SPM mg/m3
Oct-23	Average	480.80	237.01	30.51
	Max	511.16	285.08	35.35
Nov-23	Average	477.08	209.56	36.44
	Max	499.85	252.06	42.66
Dec-23	Average	458.02	178.90	29.88
	Max	488.73	265.53	46.31
Jan-24	Average	411.22	203.86	34.75
	Max	484.88	254.66	42.09
Feb-24	Average	450.37	200.44	35.57
	Max	484.49	242.44	40.77
Mar-24	Average	420.45	172.18	36.35
	Max	495.61	239.88	39.91

### Unit # 8 - Continuous Emission Monitoring System-CEMS DATA

Month		SOX mg/m3	NOX mg/m3	SPM mg/m3
Oct-23	Average	502.26	222.93	36.63
	Max	533.15	296.61	45.05
Nov-23	Average	476.98	160.17	41.28
	Max	540.25	239.38	45.03
Dec-23	Average	489.48	143.33	39.98
	Max	551.72	172.53	45.44
Jan-24	Average	500.68	206.27	35.85
	Max	540.53	252.44	44.17
Feb-24	Average	506.66	222.73	42.37
	Max	522.12	246.86	43.74
Mar-24	Average	464.36	149.82	39.32
	Max	525.70	179.67	44.95

**Energy (Barmer) Limited**

Village &amp; Post : Bhadresh, Post Box No. 30,

Distt : Barmer – 344001 (Rajasthan)

CIN : U31102MH1996PLC185098

Phone : +91 2982 229100

Website: [www.jsw.in](http://www.jsw.in)**ANNEXURE-V****Ministry of Environment, Forest and Climate Change  
Monthly Abstract of Ash Generation and Utilisation**(For the Period from **Oct, 2023 to March, 2024**)**Name of Thermal Power Plant:** JSW Energy (Barmer) Limited – Jalipa - Kapurdi Thermal Plant Lignite Coal Base Thermal Plant

Sl. No.	ASH GENERATION AND UTILIZATION							Mode of Ash Utilization and Utilization in Each Mode (IN LAKH TON)					
	Month	Coal consumed (Lakh Ton)	Lime Coal Consumed (Lakh Ton)	Ash content of coal (%)	Total Ash content Coal + lime (%)	Ash Generation (Lakh Ton)	Ash Utilization (Lakh Ton)	% Age Utilization	In making of Fly Ash based/ Bricks/ Blocks/ Tiles etc. (Lakh Ton)	In manufacture of Portland Pozzolana Cement (Lakh Ton)	In Mine filling (Lakh Ton)	In Agriculture/ Waste land Development (Lakh Ton)	Others
(1)	(2)	(3)		(4)		(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
1	OCTOBER	4.65459	0.04523	12.25	13.11	0.61016	0.68365	112.04	0.20340	0.48024	0.0000	0.0000	0.0000
2	NOVEMBER	4.44439	0.04286	11.33	12.18	0.54134	0.50862	93.96	0.16204	0.34658	0.0000	0.0000	0.0000
3	DECEMBER	4.96422	0.04620	11.89	12.71	0.63080	0.70702	112.08	0.20867	0.49835	0.0000	0.0000	0.0000
4	JANUARY	5.38275	0.08123	12.59	13.92	0.74903	0.81571	108.90	0.26840	0.54731	0.0000	0.0000	0.0000
5	FEBRUARY	5.35899	0.08113	15.19	16.52	0.88528	0.85755	96.87	0.28363	0.57391	0.0000	0.0000	0.0000
6	MARCH	5.65396	0.06081	16.78	17.72	1.00206	0.81482	81.31	0.26337	0.55145	0.0000	0.0000	0.0000
TOTAL		<b>30.4589</b>	<b>0.35746</b>	<b>13.47</b>	<b>14.51</b>	<b>4.41867</b>	<b>4.38737</b>	<b>99.29</b>	<b>1.38951</b>	<b>2.99784</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Part of O.P.Jindal Group**

Regd. Office : JSW Energy (BARMER) Limited, JSW Center, BKC Complex, Bandra (E), Mumbai – 400051

Jaipur Office: Office No. 2 & 3, 7<sup>th</sup> Floor, Man Upasana Plaza, C-44, Sardar Patel Marg, C-Scheme, Jaipur – 302 001 Ph : 0141 2369772 Fax 0141 2369774





**Energy (Barmer) Limited**

Village & Post : Bhadresh, Post Box No. 30,

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CIN : U31102MH1996PLC185098

Phone : +91 2982 229100

Website: [www.jsw.in](http://www.jsw.in)

**ANNEXURE-VI**

**Noise Level Monitoring- Oct'2023 – Mar' 2024**

SN	Month	Oct-23		Nov-23		Dec-23		Jan-24		Feb-24		Mar-24	
	Noise Levels dB (A)	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
1	MAIN GATE INSIDE	67.4	62.1	69.5	60.8	68.6	58.5	65.7	60.2	68.1	59.6	68.2	65.5
2	COOLING TOWER END	68.6	63.4	67.0	62.5	64.9	60.9	65.7	63.2	68.9	61.6	70.0	60.8
3	NORTH WEST CORNER	66.0	63.4	64.1	62.5	66.0	61.7	65.8	62.0	66.3	63.6	68.1	64.9
4	Bhadresh Village	48.4	43.0	51.4	43.1	52.7	44.2	52.1	44.2	49.5	43.3	52.4	42.1
5	Isharpura Village	52.1	42.6	51.0	41.3	51.9	42.4	52.9	42.5	52.9	39.8	53.3	41.1
6	Chuli Village	50.6	41.6	49.9	40.5	50.7	40.2	50.9	43.3	47.5	38.6	51.8	42.3



**Part of O.P.Jindal Group**

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**ANNEXURE-VII**
**Ambient Air Quality Data- OCT, 2023 – MARCH, 2023**
**Month – Oct' 2023**

SN	Location (Avg. 24 Hrs.)	PM-10 ( $\mu\text{g}/\text{m}^3$ )	SO2 ( $\mu\text{g}/\text{m}^3$ )	NO2 ( $\mu\text{g}/\text{m}^3$ )	CO ( $\text{mg}/\text{m}^3$ )	PM-2.5 ( $\mu\text{g}/\text{m}^3$ )
1	Reservoir Area	38.65	18.60	28.74	0.16	14.93
2	Main Gate	55.78	5.93	36.27	0.46	37.67
3	Ash pond	19.22	10.65	35.17	0.76	14.72
4	Bhardesh Village	73.90	17.02	33.89	0.49	42.10
5	Ishrpura Village	73.45	17.53	34.77	0.49	36.64
6	Chuli Village	75.70	18.64	37.16	0.47	42.52

**Month – Nov' 2023**

SN	Location (Avg. 24 Hrs.)	PM-10 ( $\mu\text{g}/\text{m}^3$ )	SO2 ( $\mu\text{g}/\text{m}^3$ )	NO2 ( $\mu\text{g}/\text{m}^3$ )	CO ( $\text{mg}/\text{m}^3$ )	PM-2.5 ( $\mu\text{g}/\text{m}^3$ )
1	Reservoir Area	41.41	18.14	28.74	0.17	18.66
2	Main Gate	47.11	5.97	36.25	0.48	32.16
3	Ash pond	47.17	14.75	28.74	0.78	30.11
4	Bhardesh Village	72.08	16.65	32.89	0.23	35.35
5	Ishrpura Village	78.92	20.54	37.45	0.49	41.84
6	Chuli Village	75.13	20.50	35.60	0.23	35.76

**Month – Dec' 2023**

SN	Location (Avg. 24 Hrs.)	PM-10 ( $\mu\text{g}/\text{m}^3$ )	SO2 ( $\mu\text{g}/\text{m}^3$ )	NO2 ( $\mu\text{g}/\text{m}^3$ )	CO ( $\text{mg}/\text{m}^3$ )	PM-2.5 ( $\mu\text{g}/\text{m}^3$ )
1	Reservoir Area	35.88	18.01	39.67	0.27	15.99
2	Main Gate	34.96	5.87	36.22	0.41	24.13
3	Ash pond	38.91	15.82	35.78	0.98	35.09
4	Bhardesh Village	78.74	20.05	36.88	0.59	41.53
5	Ishrpura Village	77.60	19.89	38.28	0.54	42.05
6	Chuli Village	75.46	19.60	36.89	0.55	42.25

# **ANNEXURE-VII**

## **Month – Jan' 2024**

SN	Location (Avg. 24 Hrs.)	PM-10 ( $\mu\text{g}/\text{m}^3$ )	SO2 ( $\mu\text{g}/\text{m}^3$ )	NO2 ( $\mu\text{g}/\text{m}^3$ )	CO ( $\text{mg}/\text{m}^3$ )	PM-2.5 ( $\mu\text{g}/\text{m}^3$ )
1	Reservoir Area	35.18	18.13	51.33	0.32	18.18
2	Main Gate	45.28	6.54	36.25	0.45	28.94
3	Ash pond	44.81	18.13	53.91	0.57	42.63
4	Bhardesh Village	75.10	17.34	36.56	0.42	42.28
5	Ishrpura Village	76.46	16.29	35.45	0.49	43.37
6	Chuli Village	76.64	18.97	36.63	0.56	43.87

## **Month – Feb' 2024**

SN	Location (Avg. 24 Hrs.)	PM-10 ( $\mu\text{g}/\text{m}^3$ )	SO2 ( $\mu\text{g}/\text{m}^3$ )	NO2 ( $\mu\text{g}/\text{m}^3$ )	CO ( $\text{mg}/\text{m}^3$ )	PM-2.5 ( $\mu\text{g}/\text{m}^3$ )
1	Reservoir Area	34.47	17.94	28.78	0.81	15.61
2	Main Gate	39.65	6.04	36.24	0.41	26.20
3	Ash pond	30.31	17.94	24.15	0.74	23.82
4	Bhardesh Village	74.45	18.96	34.67	0.61	41.40
5	Ishrpura Village	74.80	19.38	35.82	0.43	42.90
6	Chuli Village	76.40	18.75	38.37	0.40	43.56

## **Month – Mar' 2024**

SN	Location (Avg. 24 Hrs.)	PM-10 ( $\mu\text{g}/\text{m}^3$ )	SO2 ( $\mu\text{g}/\text{m}^3$ )	NO2 ( $\mu\text{g}/\text{m}^3$ )	CO ( $\text{mg}/\text{m}^3$ )	PM-2.5 ( $\mu\text{g}/\text{m}^3$ )
1	Reservoir Area	37.86	6.34	28.77	0.49	14.00
2	Main Gate	38.91	6.44	36.25	0.58	25.12
3	Ash pond	34.90	23.97	37.56	0.58	21.19
4	Bhardesh Village	73.43	15.88	31.13	0.56	38.41
5	Ishrpura Village	77.34	21.08	37.43	0.50	42.00
6	Chuli Village	76.48	19.37	36.27	0.68	41.42

## Environmental Expenditure

Actual anticipated - As per WO issued

Environmental Expenditure Detail (FY_2022-23 & 2023-24)			
Sr. No.	Particulars	Amount (Lacs) Rs.	
		2022-23	2023-24
1	Effluent Treatment Plant (ETP)	46.82	44.8
2	Sewage Treatment Plant (STP)	32.32	33.2
3	Green Belt Development	87.0	94.0
4	Continuous Emission Monitoring System (CEMS) 8Nos. -(AMC, Spares & Monitoring))	26.64	26.03
5	Continuous Ambient Air Quality Monitoring System (CAAQMS) 6 Nos. -(Rent and Electricity bills for surrounding plant outside installed Three station)	10.12	10.80
6	Environmental Monitoring (annual)& Instruments	8.50	14.90
7	ESP Modification	1765.00	588.52
<b>Total (Lacs) Rs.</b>		<b>2300.56</b>	<b>812.25</b>



**ANNEXURE-IX**



**JSW Energy (Barmer) Limited**  
Village & Post : Bhadresh, Post Box No. 30,  
Distt : Barmer – 344001 (Rajasthan)  
CIN : U31102MH1996PLC185098  
Phone : +91 2982 229100  
Website : [www.jsw.in](http://www.jsw.in)  
Date: 13.12.2023

Ref: JSWE(B)L/ENV/23-24/023

To,

**Ministry of Environment Forests & Climate Change,  
Integrated Regional Office,  
A-209&218, Aranya Bhavan, M. G. Road,  
Jaipur-304002, Rajasthan.**

**Sub: Compliance Report-Environmental Clearance for 1080 MW Lignite based Power Plant at Village-  
Bhadresh, District Barmer.**

Dear Sir,

With reference to your letter No. J-13011/58/2006-IA-II (T) dated 20.07.2007 and 19.11.2009, and followed by Letter no. IV/ENV/R/Th-39/679/08/273, we herewith submit half-yearly compliance report, for the period pertaining to **APRIL- 2023 to September- 2023**, for the conditions stipulated in the Environmental clearance issued for this Power Project. Analysis Data has uploaded on JSWEBL website – <http://www.jsw.in/energy/about-barmer-plant>.

We have taken up the Project activity at proposed site incorporating the conditions stipulated in this environmental clearance.

Thanking you.

For JSW ENERGY (BARMER) Ltd.

Dipak Patil  
GM (Operation, Environment & Chemistry)

Enclosure:

- |                                 |                |
|---------------------------------|----------------|
| 1. Compliance Report            |                |
| 2. Water consumption Data       | -Annexure I    |
| 3. Effluent Water Data          | -Annexure II   |
| 4. Coal Analysis Data           | -Annexure III  |
| 5. CEMS & Stack Monitoring DATA | -Annexure IV   |
| 6. Ash Utilization Data         | -Annexure V    |
| 7. Noise Monitoring             | -Annexure VI   |
| 8. AAQ Monitoring Data          | -Annexure VII  |
| 9. Environmental Expenditure    | -Annexure VIII |
| 10. Last Compliance Report      | -Annexure IX   |

C.C.

The Member Secretary – Central Pollution Control Board, Delhi

The Member Secretary – RSPCB, Jaipur

The Regional Officer – RSPCB, Balaotra.



**Part of O.P.Jindal Group**

Regd. Office : JSW Energy (BARMER) Limited, JSW Center, BKC Complex, Bandra (E), Mumbai – 400051  
Jaipur Office : Office No. 2 & 3, 7<sup>th</sup> Floor, Man Upasana Plaza, C-44, Sardar Patel Marg, C-Scheme, Jaipur – 302 001 Ph : 0141 2369772 Fax 0141 2369774



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