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

Ref: JSWE(B)L/ENV/25-26/021 **Date: 23.12.2025**

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- 2025 to September- 2025,** 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.

Sharad Chandra Totla
GM (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.

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: APR, 2025- SEP-2025

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. **ANNEXURE-I**
iii	*Closed Circuit Cooling System with induced draft cooling towers shall be installed.*	Four numbers of closed-circuit cooling tower blocks with induced draft cooling towers have been erected and are in operation.
iv	*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.*	A common **ETP (Aeration – Clarifier – Filtration – Ultra Filtration – Reverse Osmosis)** 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 – **Annexure – II**
v	*Lignite with ash content not exceeding 20% and sulphur content not exceeding 2.0% shall be used.*	Lignite with ash content less than 20% and Sulphur content less than 2% being used. Third party analysis reports for the same are enclosed. **ANNEXURE-III**
vi	*Space provision for FGD shall be made, if required at a later stage.*	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	*Four stacks of 122 m height each with exit velocity of at least 20 m/s shall be provided with continuous online monitoring system.*	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, SO2, NOx & CO to be within prescribed levels. **ANNEXURE-IV**
viii	*Low NOx burners shall be installed.*	The boiler is designed on Circulating Fluidized Bed Combustion, system attains to very low NOx generation. **ANNEXURE-IV**
ix	*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^3.*	High efficiency ESPs are installed to maintain PM emission levels at less than 100 mg/Nm^3. **ANNEXURE-IV**
xi	*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.*	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. **Ash Utilization data ANNEXURE-V**
xii	*Ash pond shall be lined with 0.5 mm thick HDPE geo-membrane lining.*	The ash pond is lined with 0.5 mm thick HDPE geo-membrane, to avoid any leachate to the ground.
xiii	*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.*	Resettlement Action Plan (RAP) was compiled and submitted to the MOEF on 30-07-2007.
xiv	*Necessary prior clearance from NHAI shall be obtained before laying the pipeline.*	All necessary prior clearance from NHAI had obtained before laying the pipeline and a copy Submitted.

xv	*Necessary prior clearance from Indian Air Force shall be obtained for construction of stacks of requisite height before starting the work on the project.*	Before commencing the civil work on the stacks, necessary clearance had obtained from the Indian Air Force.
xvi	*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.*	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.
xvii	*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.*	There is hardly any ground water within 20 km of the Project area.
xviii	*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.*	The machinery has been designed to limit the noise levels to 75 dB (A). All personnel working in the Plant have PPEs issued. **ANNEXURE-VI**
xix	*A greenbelt shall be developed all around the plant boundary and ash pond covering an area of 154 ha.*	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.
xx	*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.*	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. **ANNEXURE-VII**
xxi	*For controlling fugitive dust, regular sprinkling of water in lignite handling area and other vulnerable areas of the plant shall be ensured.*	Regular sprinkling of water is being practiced to minimize the fugitive dust emissions.

xxii	*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 http://envfor.nic.in.*	Published in Rajasthan Patrika Jodhpur Edition, Dt 19/08/2007
xxiii	*A separate environment monitoring cell with suitable qualified staff should be set up for implementation of the stipulated environmental safeguards.*	A dedicated environment monitoring cell with qualified staff has been established and is operative.
xxiv	*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.*	Being complied with. Copy of Submission enclosed **– Annexure IX**
xxv	*Regional Office of the Ministry of Environment & 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.*	Submitted.
xxvi	*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.*	The funds earmarked for environmental protection measures will not be diverted for other purposes. **Annexure VIII**
xxvii	*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.*	Being complied.

ANNEXURE - I

IGNP WATER BILL

APRIL- 2025 to SEPTEMBER- 2025

Month	Cu11ft/Month	Cum/Month	Cuft/day	Cusecs – Day
APRIL-25	64397217	1823536	2146574	24.84
MAY-25	44393403	1257088	1479780	17.13
JUNE-25	63335523	1793472	2043081	23.65
JULY-25	56020059	1586320	1867335	21.61
AUGUST-25	25078363	710144	808979	9.36
SEPTEMBER-25	57575026	1630352	1857259	21.50

ANNEXURE-I

Government of Rajasthan
Indira Gandhi Nahar Project

No. 21 Date: 01/05/2024

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 April/2024

S.No.	Particular	Reading as on 31/03/2024	Reading as on 30/04/2024	Difference as per flow meter	Qty. in CFT	Unit	Rate	Amount
1	Supply of raw water from IGMN to JSW for industrial purpose	177466512	179290048	1823536	64397217.22	/1000 cft	332.75	21428174.03
							SAY RS	21428174.00

Rs.-Two Crore Forteen Lakh Twenty eighty thousand one Hundred seventy four 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.
पी.एम.सी.खण्ड, इ.गा.न.प
मोहनगढ

Government of Rajasthan
Indira Gandhi Nahar Project

No. 63 Date: 04/06/2024

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 May/2024

S.No.	Particular	Reading as on 30/04/2024	Reading as on 31/05/2024	Difference as per flow meter	Qty. in CFT	Unit	Rate	Amount
1	Supply of raw water from IGMN to JSW for industrial purpose	179290048	180547136	1257088	44393403.26	/1000 cft	332.75	14771904.93
							SAY RS	14771905.00

Rs.-One Crore Forty seven Lakh Seventy One thousand Nine Hundred five 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.
पी.एम.सी.खण्ड, इ.गा.न.प
मोहनगढ

Government of Rajasthan
Indira Gandhi Nahar Project

No. 76 Date: 01/07/2024

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 June/2024

S.No.	Particular	Reading as on 31/05/2024	Reading as on 30/06/2024	Difference as per flow meter	Qty. in CFT	Unit	Rate	Amount
1	Supply of raw water from IGMN to JSW for industrial purpose	180547136	182340608	1793472	63335522.83	/1000 cft	332.75	21074895.22
							SAY RS	21074895.00

Rs.-Two Crore Ten Lakh Seventy Four thousand Eight Hundred Ninety Five 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.
पी.एम.सी.खण्ड, इ.गा.न.प
मोहनगढ

ANNEXURE-I

Government of Rajasthan
Indira Gandhi Nahar Project

No. 122 Date: 01/09/24

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 July/2024

S.No.	Particular	Reading as on 30/06/2024	Reading as on 31/07/2024	Difference as per flow meter	Qty. in CFT	Unit	Rate	Amount
1	Supply of raw water from IGMN to JSW for industrial purpose	182340608	183926928	1586320	56020058.62	/1000 cft	332.75	18640674.51
							SAY RS	18640675.00

Rs.-One Crore Eighty Six Lakh Forty thousand Six Hundred Seventy Five only

S.No. Date:

Xen tmc dn ignp mohangarh

Assistant Engineer
Sub dn. III 28th u/c tmc dn.
IGNP Mohangarh
सहायक अभियन्ता
उपखण्ड III 28 वां प्र.नि.
एम.सी.खण्ड, इ.गा.न.प.
मोहनगढ

Government of Rajasthan
Indira Gandhi Nahar Project

No. 147 Date: 02/09/24

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 August/2024

S.No.	Particular	Reading as on 31/07/2024	Reading as on 31/08/2024	Difference as per flow meter	Qty. in CFT	Unit	Rate	Amount
1	Supply of raw water from IGMN to JSW for industrial purpose	183926928	184637072	710144	25078362.82	/1000 cft	332.75	8344825.23
							SAY RS	8344825.00

Rs.-Eighty three Lakh Forty four thousand Eight Hundred twenty Five only

S.No. Date:

Xen tmc dn ignp mohangarh

Assistant Engineer
Sub dn. III 28th u/c tmc dn.
IGNP Mohangarh
सहायक अभियन्ता
उपखण्ड III 28 वां प्र.नि.
टी.एम.सी.खण्ड इ.गा.न.प.
मोहनगढ

Government of Rajasthan
Indira Gandhi Nahar Project

No. 202 Date: 01/10/2024

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 september/2024

S.No.	Particular	Reading as on 31/08/2024	Reading as on 30/09/2024	Difference as per flow meter	Qty. in CFT	Unit	Rate	Amount
1	Supply of raw water from IGMN to JSW for industrial purpose	184637072	186267424	1630352	57575025.60	/1000 cft	332.75	19158089.77
							SAY RS	19158090.00

Rs.-One crore Ninety one Lakh Fifty eight thousand ninety only

S No. Date:

Xen tmc dn ignp mohangarh

Assistant Engineer
Sub dn. III 28th u/c tmc dn.
IGNP Mohangarh
सहायक अभियन्ता
उपखण्ड III 28 वां खण्ड प्र.नि.
टी.एम.सी. खण्ड इ.गा.न.प.
मोहनगढ

ANNEXURE-II

Effluent Water Quality Apr– 2025 to Sep– 2025

SN	Parameters	UoM	CPCB Limits	Results					
				Apr	May	June	July	Aug	Sep
1.	pH		**6.5-8.5**	7.24	7.84	7.82	7.77	7.54	7.78
2.	Biochemical Oxygen Demand (BOD) @ 27Deg C for 3 days	mg/L	**< 30.0**	19.55	18.80	18.90	15.15	17.13	25.48
3.	Chemical Oxygen Demand (COD)	mg/L	**< 250**	106.40	102.25	106.00	102.50	110.70	114.15
4.	Total Kjeldhal Nitrogen as NH3	mg/L	**< 100**	16.00	16.28	15.90	15.98	16.00	15.78
5.	Free Available Chlorine	mg/L	**< 0.5**	BDL	BDL	BDL	BDL	BDL	BDL
6.	Oil & Grease	mg/L	**< 20**	BDL	BDL	BDL	BDL	BDL	BDL
7.	Copper as Cu	mg/L	**< 1**	BDL	BDL	BDL	BDL	BDL	BDL
8.	Zinc as Zn	mg/L	**< 1**	0.12	0.123	0.119	0.115	0.120	0.117
9.	Iron as Fe	mg/L	**< 1**	BDL	BDL	BDL	BDL	BL	BDL
10.	Total Suspended Solid	mg/L	**< 100**	38.18	40.90	42.00	37.95	38.00	39.50
11.	Ammonical Nitrogen as N	mg/L	**< 50**	7.94	8.53	7.96	7.92	7.94	7.95
12.	Nitrate Nitrogen	mg/L	**< 10**	1.30	1.34	1.30	1.26	1.26	1.29
13.	Total Chromium as Cr	mg/L	**< 1**	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 APR, 2025 – SEP, 2025

	AVERAGE		
Month	**Total Moisture**	**Gross Calorific Value**	**Sulfur**
	%	**Kcal/Kg**	**%**
APRIL-25	39.76	2982.39	0.38
MAY-25	39.18	2975.48	0.38
JUNE-25	40.58	2997.79	0.37
JULY-25	40.74	2986.34	0.43
AUGUST-25	39.66	2920.49	0.42
SEPTEMBER-25	40.89	2897.17	0.42

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/162
Source Name: Screenhouse (As Fired)
Consumer Name: JSW Energy, Barmer Limited

Date: 09th May'2025

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"
April'2025	424970.00	39.76	0.38	2982.39

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

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/165
Source Name: Screenhouse (As Fired)
Consumer Name: JSW Energy, Barmer Limited

Date: 09th June'2025

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"
May'2025	481321.04	39.18	0.38	2975.48

Quality Council of India

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

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/168
Source Name: Screenhouse (As Fired)
Consumer Name: JSW Energy, Barmer Limited

Date: 08th July'2025

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"
June'2025	471264.96	40.58	0.37	2997.79

Quality Council of India

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

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/171 **Date:** 07th Aug'2025
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"
July'2025	410610.81	40.74	0.43	2986.34

Quality Council of India

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

ANNEXURE-III

भारतीय गुणवत्ता परिषद्
QUALITY COUNCIL OF INDIA
Creating an Ecosystem for Quality

भारत सरकार के वाणिज्य एवं उद्योग मंत्रालय द्वारा स्थापित एक स्वायत्त निकाय
An autonomous body setup by Ministry of Commerce & Industry, Government of India

Report ID: QCI/COAL/JSW/SH/MR/171 Date: 08th Sep'2025
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"
August'2025	464749.19	39.66	0.42	2920.49

Quality Council of India

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

ANNEXURE-III

भारतीय गुणवत्ता परिषद्
QUALITY COUNCIL OF INDIA
Creating an Ecosystem for Quality

भारत सरकार के वाणिज्य एवं उद्योग मंत्रालय द्वारा स्थापित एक स्वायत्त निकाय
An autonomous body setup by Ministry of Commerce & Industry, Government of India

Report ID: QCI/COAL/JSW/SH/MR/174
Source Name: Screenhouse (As Fired)
Consumer Name: JSW Energy, Barmer Limited

Date: 08th Oct'2025

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"
September'2025	498530.00	40.22	0.42	2889.45

Quality Council of India

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

ANNEXURE-IV

STACK EMISSION MONITORING RESULTS APRIL – 2025 to SEP – 2025

Month: Apr' 2025

SN	Parameters	UOM	Unit-I	Unit-II	Unit-III	Unit-IV	Unit-V	Unit-VI	Unit-VII	Unit-VIII
1	Average Velocity	m/Sec	19.78	18.00	19.70	20.00	19.10	18.90	20.05	19.82
2	Flow	Nm3/Sec	168	166	168	172	174	172	170	168
3	Stack Exit Temp.	0C	128	130	129	127	129	130	132	130
4	Particulate Matter	mg/Nm3	33.2	30.5	31.4	34.6	32.4	38.6	35.1	30.5
5	Sulphur Dioxide	mg/Nm3	422.2	415.5	428.4	412.6	462.7	440.2	437.5	428.6
6	Oxides of Nitrogen	mg/Nm3	113.2	116.4	110.2	105.4	109.5	128.7	116.4	115.4

Month: May' 2025

SN	Parameters	UOM	Unit-I	Unit-II	Unit-III	Unit-IV	Unit-V	Unit-VI	Unit-VII	Unit-VIII
1	Average Velocity	m/Sec	15.40	16.93	17.77	16.51	15.40	16.89	15.88	16.29
2	Flow	Nm3/Sec	172	166	162	168	170	168	172	165
3	Stack Exit Temp.	0C	159	156	152	164	164	160	162	158
4	Particulate Matter	mg/Nm3	31.4	32.8	33.4	33.4	36.1	34.5	36.8	31.2
5	Sulphur Dioxide	mg/Nm3	421.2	423.2	432.6	412.1	418.2	425.4	408.6	421.2
6	Oxides of Nitrogen	mg/Nm3	112.2	116.4	108.6	106.4	106.8	98.8	104.2	114.2

Month: June' 2025

SN	Parameters	UOM	Unit-I	Unit-II	Unit-III	Unit-IV	Unit-V	Unit-VI	Unit-VII	Unit-VIII
1	Average Velocity	m/Sec	14.89	15.99	18.5	17.45	16.23	17.8	16.40	17.23
2	Flow	Nm3/Sec	166	168	172	164	166	170	158	162
3	Stack Exit Temp.	0C	155	149	158	175	168	158	166	157
4	Particulate Matter	mg/Nm3	32.3	31.5	34.6	34.7	35.6	33.6	37.4	32.1
5	Sulphur Dioxide	mg/Nm3	418.6	435.4	440.1	415.3	425.2	427.5	415.7	430.2
6	Oxides of Nitrogen	mg/Nm3	115.3	110.1	105.7	101.5	108.2	101.1	102.6	112.3

ANNEXURE-IV

Month: July' 2025

SN	Parameters	UOM	Unit-I	Unit-II	Unit-III	Unit-IV	Unit-V	Unit-VI	Unit-VII	Unit-VIII
1	Average Velocity	m/Sec	19.5	18.16	19.60	20.13	19.50	18.56	20.13	19.85
2	Flow	Nm3/Sec	164	149	164	171	160	152	165	163
3	Stack Exit Temp.	0C	126	136	127	122	136	137	136	132
4	Particulate Matter	mg/Nm3	33.1	31.9	33.8	34.1	34.9	34.1	37.1	33.2
5	Sulphur Dioxide	mg/Nm3	417.4	438.3	442.1	420.3	430.1	420.8	417.3	423.2
6	Oxides of Nitrogen	mg/Nm3	111.6	113.1	107.3	105.3	104.5	103.2	101.2	109.4

Month: Aug' 2025

SN	Parameters	UOM	Unit-I	Unit-II	Unit-III	Unit-IV	Unit-V	Unit-VI	Unit-VII	Unit-VIII
1	Average Velocity	m/Sec	19.42	18.12	19.74	20.12	19.42	18.52	20.14	19.91
2	Flow	Nm3/Sec	165	147	166	172	168	154	166	164
3	Stack Exit Temp.	0C	125	138	128	125	139	136	135	137
4	Particulate Matter	mg/Nm3	31.5	36.4	35.5	38.2	38.2	36.6	36.1	35.2
5	Sulphur Dioxide	mg/Nm3	422.5	448.6	427.5	436.7	436.7	425.1	420.5	423.5
6	Oxides of Nitrogen	mg/Nm3	115.8	109.4	108.2	105.5	105.5	104.8	103.7	112.4

Month: Sep' 2025

SN	Parameters	UOM	Unit-I	Unit-II	Unit-III	Unit-IV	Unit-V	Unit-VI	Unit-VII	Unit-VIII
1	Average Velocity	m/Sec	19.73	19.10	19.40	20.0	19.82	19.22	20.0	20.32
2	Flow	Nm3/Sec	168	145	168	169	167	158	168	166
3	Stack Exit Temp.	0C	128	135	126	127	133	134	136	139
4	Particulate Matter	mg/Nm3	30.1	32.7	34.3	34.3	37.7	35.7	37.4	37.5
5	Sulphur Dioxide	mg/Nm3	424.5	442.3	450.3	424.1	433.7	427.1	424.3	430.3
6	Oxides of Nitrogen	mg/Nm3	117.6	115.4	112.6	111.5	108.6	106.3	106.3	113.9

ANNEXURE-II

Unit # 1 - Continuous Emission Monitoring System-CEMS DATA

Month		SOX mg/m3	NOX mg/m3	SPM mg/m3
Apr-25	Average	452.28	128.54	40.06
	Max	506.26	153.66	46.63
May-25	Average	408.88	137.89	38.84
	Max	501.53	148.59	46.12
Jun-25	Average	454.80	111.00	41.91
	Max	513.82	135.22	45.48
Jul-25	Average	433.56	109.75	39.71
	Max	515.84	122.41	44.93
Aug-25	Average	416.12	113.18	42.58
	Max	516.72	131.17	45.91
Sep-25	Average	464.17	107.33	38.68
	Max	521.09	122.05	45.78

Unit # 2 - Continuous Emission Monitoring System-CEMS DATA

Month		SOX mg/m3	NOX mg/m3	SPM mg/m3
Apr-25	Average	382.73	141.69	37.18
	Max	443.40	160.35	44.59
May-25	Average	334.56	134.56	37.39
	Max	440.83	157.46	45.89
Jun-25	Average	366.97	118.23	41.78
	Max	442.92	143.96	45.63
Jul-25	Average	407.76	112.47	41.64
	Max	446.90	126.34	45.72
Aug-25	Average	379.48	107.88	41.42
	Max	437.10	122.41	45.30
Sep-25	Average	399.23	108.08	39.50
	Max	443.55	122.45	44.21

ANNEXURE-II

Unit # 3 - Continuous Emission Monitoring System-CEMS DATA

Month		SOX mg/m3	NOX mg/m3	SPM mg/m3
Apr-25	Average	482.74	142.14	35.68
	Max	525.85	171.54	41.09
May-25	Average	457.64	131.85	38.30
	Max	513.49	146.64	42.48
Jun-25	Average	478.88	117.10	35.27
	Max	531.70	133.54	43.09
Jul-25	Average	478.08	114.15	40.84
	Max	518.75	138.87	44.67
Aug-25	Average	419.03	116.31	42.33
	Max	514.61	129.41	45.41
Sep-25	Average	457.52	116.13	43.92
	Max	510.82	125.54	45.76

Unit # 4 - Continuous Emission Monitoring System-CEMS DATA

Month		SOX mg/m3	NOX mg/m3	SPM mg/m3
Apr-25	Average	364.78	137.69	40.02
	Max	397.78	163.10	42.39
May-25	Average	332.69	139.84	37.50
	Max	433.78	164.21	43.75
Jun-25	Average	412.23	127.93	33.92
	Max	472.40	148.71	41.23
Jul-25	Average	382.56	123.32	37.20
	Max	468.27	153.57	43.71
Aug-25	Average	476.25	124.36	35.73
	Max	519.51	138.91	42.85
Sep-25	Average	489.06	114.46	35.11
	Max	519.37	130.21	42.24

ANNEXURE-II

Unit # 5 - Continuous Emission Monitoring System-CEMS DATA

Month		SOX mg/m3	NOX mg/m3	SPM mg/m3
Apr-25	Average	477.13	106.56	44.34
	Max	526.34	151.99	46.68
May-25	Average	404.83	115.80	40.78
	Max	511.27	153.19	45.12
Jun-25	Average	469.84	110.78	41.42
	Max	522.83	145.41	45.89
Jul-25	Average	468.09	119.27	40.59
	Max	523.41	142.21	44.93
Aug-25	Average	471.38	113.23	37.00
	Max	523.27	136.41	42.15
Sep-25	Average	492.51	131.91	40.62
	Max	530.74	141.11	44.56

Unit # 6 - Continuous Emission Monitoring System-CEMS DATA

Month		SOX mg/m3	NOX mg/m3	SPM mg/m3
Apr-25	Average	457.51	144.92	32.57
	Max	514.78	165.72	37.50
May-25	Average	467.14	128.09	36.66
	Max	569.44	155.78	38.35
Jun-25	Average	511.56	144.22	36.58
	Max	569.51	156.21	45.12
Jul-25	Average	481.89	118.36	36.60
	Max	505.15	125.64	39.05
Aug-25	Average	451.45	114.14	39.02
	Max	502.64	122.45	40.78
Sep-25	Average	486.94	116.22	38.57
	Max	544.12	145.20	39.69

ANNEXURE-II

Unit # 7 - Continuous Emission Monitoring System-CEMS DATA

Month		SOX mg/m3	NOX mg/m3	SPM mg/m3
Apr-25	Average	388.66	109.69	25.35
	Max	453.58	145.78	35.75
May-25	Average	308.98	135.60	30.29
	Max	419.45	147.45	35.88
Jun-25	Average	345.02	119.06	34.27
	Max	554.74	151.91	36.50
Jul-25	Average	408.61	109.60	32.55
	Max	459.78	121.15	35.81
Aug-25	Average	382.46	114.82	33.80
	Max	443.22	133.54	39.87
Sep-25	Average	459.71	111.32	27.64
	Max	524.82	145.41	35.79

Unit # 8 - Continuous Emission Monitoring System-CEMS DATA

Month		SOX mg/m3	NOX mg/m3	SPM mg/m3
Apr-25	Average	458.99	115.00	37.10
	Max	531.60	125.33	43.19
May-25	Average	394.72	113.61	30.77
	Max	507.05	122.25	35.63
Jun-25	Average	447.25	105.56	25.16
	Max	511.72	122.78	32.45
Jul-25	Average	398.12	115.35	29.45
	Max	520.51	148.21	41.14
Aug-25	Average	448.15	114.79	34.38
	Max	519.13	132.05	39.41
Sep-25	Average	410.07	130.85	33.51
	Max	507.11	144.19	42.78

JSW Energy (Barmer) Limited

Ministry of Environment, Forest and Climate Change
Monthly Abstract of Ash Generation and Utilisation

(For the Period from April, 2025 to September, 2025)

Name of Thermal Power Plant: JSW Energy (Barmer) Ltd. - Jalipa-Kapurdi Thermal Plant Lignite Coal Base Thermal Plant

Sl. No.	ASH GENERATION AND UTILIZATION							Mode of Ash Utilisation and Utilisation in Each Mode (IN LAKH TON)					
	Month	Coal consumed (Lakh Ton)	Lime 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)	(15)	(16)	(17)
1	APRIL	4.24970	0.07441	10.31	**11.85**	0.50342	0.61279	121.73	0.17010	0.44269	0.0	0.0	0.0
2	MAY	4.81321	0.09355	10.63	**12.34**	0.59402	0.66207	111.46	0.19224	0.46983	0.0	0.0	0.0
3	JUNE	4.71265	0.08917	10.94	**12.60**	0.59402	0.74339	125.15	0.21386	0.52952	0.0	0.0	0.0
4	JULY	4.10611	0.08795	12.77	**14.66**	0.60183	0.76669	127.39	0.20917	0.55753	0.0	0.0	0.0
5	AUGUST	4.64749	0.09998	16.29	**18.18**	0.84485	0.78596	93.03	0.21391	0.57205	0.0	0.0	0.0
6	SEPT	4.98530	0.07902	17.26	**18.65**	0.93000	0.81284	87.40	0.20763	0.60521	0.0	0.0	0.0
TOTAL		**27.51446**	**0.52408**	**13.11**	**14.79**	**4.06814**	**4.38375**	**107.76**	**1.20691**	**3.17684**	**0.0**	**0.0**	**0.0**

ANNEXURE-VI

Noise Level Monitoring- APR' 2025 – SEP' 2025

SN	Month	Apr-25		May-25		June-25		July-25		Aug-25		Sep-25	
	Noise Levels dB (A)	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
1	MAIN GATE INSIDE	69.5	58.5	69.8	60.8	71.3	62.1	66.0	62.7	68.2	60.7	70.2	59.9
2	COOLING TOWER END	68.3	53.2	70.1	65.8	67.3	61.0	68.1	61.5	66.5	60.6	70.4	61.2
3	NORTH WEST CORNER	65.4	57.4	69.2	60.9	68.6	61.6	68.4	61.2	66.9	62.8	65.3	61.0
4	Bhadresh Village	50.2	43.1	46.3	37.9	47.5	38.1	48.9	37.9	49.7	40.8	50.2	41.5
5	Isharpura Village	49.9	42.6	48.9	42.7	49.1	42.3	49.4	41.9	48.4	41.5	49.8	42.3
6	Chuli Village	52.3	41.8	49.1	41.9	50.2	42.3	50.6	42.8	50.8	42.3	50.0	41.0

ANNEXURE-VII

Ambient Air Quality Data- Apr, 2025 – Sep, 2025

Month – Apr' 2025

SN	Location (Avg.24 Hrs.)	PM-10 (µg/m³)	SO2 (µg/m³)	NO2 (µg/m³)	CO (mg/m³)	PM-2.5 (µg/m³)
1	Reservoir Area	37.96	17.85	40.57	0.28	18.41
2	Main Gate	41.96	16.14	36.26	0.54	27.85
3	Ash pond	39.08	16.29	34.43	0.88	33.94
4	Ishrpura Village	50.03	12.40	33.97	0.33	18.00
5	Bhadresh Village	49.70	12.80	19.39	0.34	6.34
6	Chuli Village	30.59	11.55	23.24	0.35	18.62

Month – May' 2025

SN	Location (Avg.24 Hrs.)	PM-10 (µg/m³)	SO2 (µg/m³)	NO2 (µg/m³)	CO (mg/m³)	PM-2.5 (µg/m³)
1	Reservoir Area	28.74	5.89	17.63	0.94	11.79
2	Main Gate	56.75	5.87	32.29	0.41	29.49
3	Ash pond	21.34	10.71	30.83	0.32	15.58
4	Ishrpura Village	78.22	17.78	34.60	0.53	42.64
5	Bhadresh Village	74.59	16.18	31.85	0.53	41.87
6	Chuli Village	75.30	17.61	36.59	0.50	42.62

Month – June' 2025

SN	Location (Avg.24 Hrs.)	PM-10 (µg/m³)	SO2 (µg/m³)	NO2 (µg/m³)	CO (mg/m³)	PM-2.5 (µg/m³)
1	Reservoir Area	27.62	5.32	28.22	0.40	11.99
2	Main Gate	56.50	5.29	32.22	0.40	30.11
3	Ash pond	43.46	13.00	31.99	0.26	22.63
4	Ishrpura Village	78.83	18.01	35.88	0.54	43.01
5	Bhadresh Village	73.87	16.99	32.51	0.55	42.13
6	Chuli Village	76.85	16.32	35.86	0.51	42.26

ANNEXURE-III

Month – July' 2025

SN	Location (Avg.24 Hrs.)	PM-10 (µg/m³)	SO2 (µg/m³)	NO2 (µg/m³)	CO (mg/m³)	PM-2.5 (µg/m³)
1	Reservoir Area	44.50	36.26	30.19	0.37	18.41
2	Main Gate	48.31	12.54	34.07	0.33	30.32
3	Ash pond	36.77	14.55	7.75	0.86	17.52
4	Ishrpura Village	72.13	13.14	27.64	0.44	33.39
5	Bhadresh Village	68.61	11.45	24.10	0.44	34.71
6	Chuli Village	69.84	10.53	24.58	0.40	33.02

Month – Aug' 2025

SN	Location (Avg.24 Hrs.)	PM-10 (µg/m³)	SO2 (µg/m³)	NO2 (µg/m³)	CO (mg/m³)	PM-2.5 (µg/m³)
1	Reservoir Area	50.11	8.65	33.93	0.28	19.82
2	Main Gate	50.05	8.63	33.97	0.39	33.63
3	Ash pond	26.88	9.68	32.81	0.87	34.86
4	Ishrpura Village	65.60	11.26	25.34	0.42	30.05
5	Bhadresh Village	64.17	11.18	22.94	0.43	33.33
6	Chuli Village	63.68	10.35	23.16	0.38	31.81

Month – Sep' 2025

SN	Location (Avg.24 Hrs.)	PM-10 (µg/m³)	SO2 (µg/m³)	NO2 (µg/m³)	CO (mg/m³)	PM-2.5 (µg/m³)
1	Reservoir Area	24.73	7.38	32.79	0.33	18.72
2	Main Gate	49.25	7.37	34.15	0.41	34.65
3	Ash pond	22.30	7.37	32.52	0.74	18.71
4	Ishrpura Village	63.45	11.41	25.03	0.43	29.96
5	Bhadresh Village	63.09	11.18	23.04	0.44	32.08
6	Chuli Village	61.23	10.31	22.24	0.40	30.24

ANNEXURE-VIII

Environmental Expenditure

Actual anticipated - As per WO issued

Environmental Expenditure Detail (FY_2023-24 & 2024-25)			
Sr. No.	**Particulars**	**Amount (Lacs) Rs.**	
		2023-24	**2024-25**
1	Effluent Treatment Plant (ETP)	44.8	46.14
2	Sewage Treatment Plant (STP)	33.2	34.2
3	Green Belt Development	94.0	104.0
4	Continuous Emission Monitoring System (CEMS) 8Nos. & CAAQMS. -(AMC, Spares & Monitoring))	26.03	51.2
5	Continuous Ambient Air Quality Monitoring System (CAAQMS) 6 Nos. -(Rent and Electricity bills for surrounding plant outside installed Three station)	10.80	11.10
6	Environmental Monitoring (annual)& Instruments	14.90	15.65
7	ESP Modification	588.52	0.00
7	Lime Augmentation (Lime dosing Capacity Enhancement)	0.0	4873.29
Total (Lacs) Rs.		**812.25**	**4873.29**

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

Ref: JSWE(B)L/ENV/25-26/010 **Date: 16.06.2025**

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- 2024 to March- 2025,** 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.

Sharad Chandra Totla
GM (Operation & Maintenance)

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, 7th Floor, Man Upasana Plaza, C-44, Sardar Patel Marg, C-Scheme, Jaipur – 302 001 Ph : 0141 2369772 Fax 0141 2369774