



Head Office Power
Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongari, Jaipur-302 004
Phone: 0141-2716804



Revised Consent

File No : F(Tech)/Barmer(Barmer)/5153(1)/2023-2024/5821-5823
Order No : 2023-2024/Power/3
Unit Id : 5276
M/s JSW Energy (Barmer) Ltd.(Old Name Raj West Power Private Limited)
Village- Bhadresh , Tehsil:Barmer
District:Barmer
Sub: Consent to Operate under Section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 and under Section 21(4) of Air (Prevention & Control of Pollution) Act, 1981.
Ref: Your application for Consent to Operate dated 08/08/2023 and subsequent correspondence.

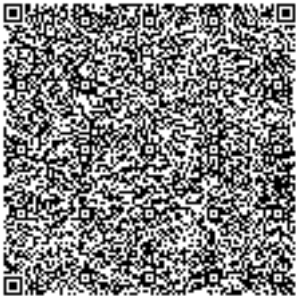
Sir,

Consent to Operate under the provisions of Section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 (hereinafter to be referred as the Water Act) and under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981, (hereinafter to be referred as the Air Act) as amended to date and rules & the orders issued thereunder is hereby granted for your Stage I (Unit I II) plant situated at Village- Bhadresh Bhadresh Tehsil:Barmer District:Barmer , Rajasthan, subject to the following conditions:-

- 1 That this Consent to Operate is valid for a period from 01/01/2024 to 31/12/2028 .
- 2 That this Consent is granted for manufacturing / producing following products / by products or carrying out the following activities or operation/processes or providing following services with capacities given below:

Particular	Type	Quantity with Unit
Electricity	Activity	270.00 MW

- 3 That this Consent to Operate is for existing plant, process & capacity and separate Consent to Establish/Operate is required to be taken for any addition / modification / alteration in process or change in capacity or change in fuel.
- 4 That the quantity of effluent generation along with mode of disposal for the treated effluent shall be as under:





Head Office Power
Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongari, Jaipur-302 004
Phone: 0141-2716804

Revised Consent

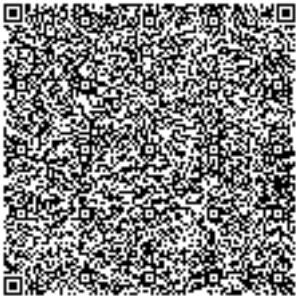
File No : F(Tech)/Barmer(Barmer)/5153(1)/2023-2024/5821-5823
Order No : 2023-2024/Power/3
Unit Id : 5276

Date: Dec 5 2023 2:58PM

Type of effluent	Max. effluent generation (KLD)	Recycled Qty of Effluent (KLD)	Disposed Qty of effluent (KLD)and mode of disposal
Domestic Sewage	7.500	NIL	7.500 Treated through STP & used in plantation
Trade Effluent	1750.000	1,750.000	NIL treated in effluent treatment plant and reuse/recycle in process

5 That the sources of air emissions along with pollution control measures and the emission standards for the prescribed parameters shall be as under:

Sources of Air Emissions	Pollution Control Measures	Prescribed	
		Parameter	Standard
Two D. G. Set(1000KVA EACH)	ACOUSTIC ENCLOSURE , ADEQUATE STACK HEIGHT	NOx (as NO2) (at 15% O2) day basis in ppmv NMHC (as C) (at 15% O2) PM (at 15% O2) CO (at 15% O2)	710 mg/Nm3 100 mg/Nm3 75 mg/Nm3 150 mg/Nm3
Two Lignite fired Boilers(440TPH EACH)	ADEQUATE STACK HEIGHT , ELECTROSTATIC PRECIPITATOR	S02	600 mg/Nm3





Head Office Power
Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongari, Jaipur-302 004
Phone: 0141-2716804

Revised Consent

File No : F(Tech)/Barmer(Barmer)/5153(1)/2023-2024/5821-5823
Order No : 2023-2024/Power/3
Unit Id : 5276

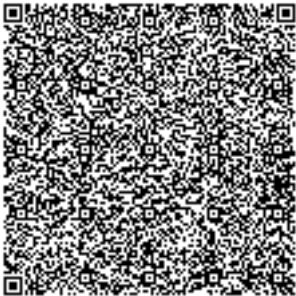
Date: Dec 5 2023 2:58PM

		Particulate Matter	50 mg/Nm3
		NOx	450 mg/Nm3
		Hg and its compounds	0.03 mg/Nm3

6 That the Trade Effluent shall be treated before disposal so as to conform to the standards prescribed under the Environvent (Protection) Act-1986for disposal **Into Inland Surface Water**. The main parameters for regular monitoring shall be as under:

Parameters	Standards
Total Suspended Solids	Not to exceed 100 mg/l
pH Value	Between 5.5 to 9.0
Oil and Grease	Not to exceed 10 mg/l
Total Residual Chlorine	Not to exceed 1.0 mg/l
Biochemical Oxygen Demand (3 days at 27°C)	Not to exceed 30 mg/l
Sulphide (as S)	Not to exceed 2.0 mg/l
Chlorides	Not to exceed 1000 mg/l
Chemical Oxygen Demand	Not to exceed 250 mg/l

7 That the Trade Effluent shall be treated before disposal so as to conform to the standards prescribed under the Environment (Protection) Act-1986 for disposal **Into Inland Surface Water** . The main parameters for regular monitoring shall be as under





Head Office Power
Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongari, Jaipur-302 004
Phone: 0141-2716804

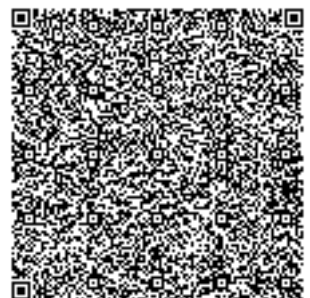
Revised Consent

File No : F(Tech)/Barmer(Barmer)/5153(1)/2023-2024/5821-5823
Order No : 2023-2024/Power/3
Unit Id : 5276

Date: Dec 5 2023 2:58PM

Parameters	Standards
Total Suspended Solids	Not to exceed 100 mg/l
Phosphate	Not to exceed 5 mg/l
Free Available Chlorine	Not to exceed 0.5 mg/l
pH Value	Between 6.5 to 8.5
Oil and Grease	Not to exceed 20 mg/l
Copper as Cu)	Not to exceed 1.0 mg/l
Zinc (as Zn)	Not to exceed 1.0 mg/l
Iron (as Fe)	Not to exceed 1.0 mg/l
Chromium (total)	Not to exceed 0.2 mg/l

- That the industry shall obtain all the necessary permissions from concern authority and district administration Barmer for operation of 270 MW lignite based power plant.
- That this consent to operate is being issued for production capacity of 2 x 135 MW (Unit 1 & 2) thermal power plant.
- That the total project cost of unit 1 & 2 is Rs. 1661.97 Crore. The industry shall take/obtain modification in consent to operate after paying fee as applicable.
- That the Charter of Corporate Responsibility for Environment Protection specified for Thermal Power Plants shall be complied.
- That the industry will comply with the standards as prescribed vide MOEF notification No. GSR 826(E) dated 16th Nov,2009 with respect of National Ambient Air Quality Standards.
- That the unit shall provide and maintain adequate dust collection and extraction system to control fugitive dust emissions at lignite crusher, lignite transfer points and lignite handling and storage areas.
- That the industry shall maintain opacity meter with each boiler stack to monitor the emission level of particulate matter. The monthly observation will be submitted to R.O office along with the reason/clarification for any recorded violation of the prescribed standards.





Head Office Power
Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongari, Jaipur-302 004
Phone: 0141-2716804

Revised Consent

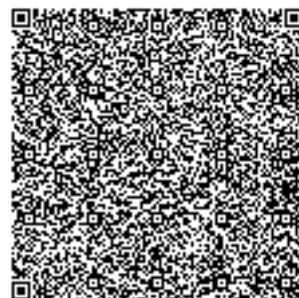
File No : F(Tech)/Barmer(Barmer)/5153(1)/2023-2024/5821-5823

Order No : 2023-2024/Power/3

Date: Dec 5 2023 2:58PM

Unit Id : 5276

- 15 That low Nox burners shall be installed at the boiler feeding system. That the level of SPM within distance 3-10 M from dust generating source/plant shall not exceed to 600 mg/Nm³ in ambient air.
- 16 That for the control fugitive emission guidelines /code of practice as issued by CPCB will be followed.
- 17 That the project proponent shall undertake measures and ensure that no fugitive fly ash emissions take place at any point of time.
- 18 That no industrial effluent will be discharged inside or outside from the factory premises in to a stream or well or sewer or on land and the effluent generated from power plant shall be re-used in the process.
- 19 The domestic effluent shall be treated up to prescribed standards and shall be used for plantation/ green belt development within the premises.
- 20 Ash pond shall be lined with HDPE/LDPE lining or any other suitable impermeable media such that no leachate takes place at any point of time. Adequate safety measures shall also be implemented to protect the ash dyke from getting breached.
- 21 That the total fresh water requirement for unit-1 & 2 shall not exceed 21622.5 KLD (boiler/cooling-21000 KLD + domestic -22.5 KLD + industrial purpose- 600 KLD) which shall be met from IGNP Mohangarh.
- 22 That the trade effluent shall be treated in ETP comprising of CMB (Central Monitoring Basin) which has two basins of 4000 KLD capacity of each then through HRSCC (clarifier) of capacity 7440 KLD, followed by filters and eventually through RO system which is common for all the units.
- 23 That the domestic waste water shall be treated in STP of 100 KLD capacity which is common for all the units.
- 24 That no ground water shall be abstracted without prior permission from the State Board and the Central Ground Water Authority.
- 25 That suitable flow measuring devices/meters on the intake source of water, inlet and outlet of effluent treatment/sewage treatment plant shall be installed and maintained. Daily record of water consumption, effluent generation and its treatment and utilization shall be maintained.
- 26 That the industry shall undertake suitable measures for rain water harvesting for artificial recharge of ground water.
- 27 The industry shall comply with the MoEF, Government of India, Notification date 14th September 1999 with till the date amendments relating to fly ash management and shall update the details regarding utilization of fly ash on fly ash portal of CPCB.





Head Office Power
Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongari, Jaipur-302 004
Phone: 0141-2716804

Revised Consent

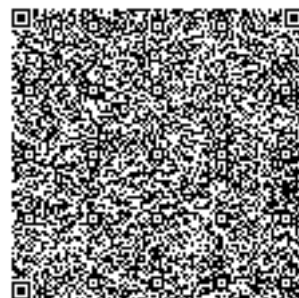
File No : F(Tech)/Barmer(Barmer)/5153(1)/2023-2024/5821-5823

Order No : 2023-2024/Power/3

Date: Dec 5 2023 2:58PM

Unit Id : 5276

- 28 That the industry shall carryout SO₂ & NO_x monitoring within 3 months from State Board's lab so that the adequacy of pollution control measures & compliance of MoEF & CC notification dated 05.09.2022 can be adjudged.
- 29 That the industry shall carry out waste water analysis of RO reject water from State Board's lab within 3 months so that possibility of direct water usage in ash quenching etc from RO reject can be ascertained.
- 30 That the unit shall submit details of solid waste generated from the plant to Regional Officer of the State Board, Balotra.
- 31 That the Thermal power plant shall meet the limits of Boiler as per the Notification dated 07.12.2015 and 05.09.2022 issued by the Ministry of Environment, Forest and Climate Change, Government of India.
- 32 That industry shall comply with the provisions of Hazardous & other Waste (Management & Transboundary movement) Rules, 2016 and record of daily hazardous waste generation and its disposal shall be maintained.
- 33 That the industry shall provide acoustic enclosure and adequate stack height of minimum 30 meters with two D.G. set of 1000 KVA (each).
- 34 That the Thermal power plant shall comply with water consumption limit as specified in the Notification dated 07/12/2015 issued by the Ministry of Environment, Forest and Climate Change (MoEF&CC).
- 35 That the industry shall carryout effluent sampling/stack monitoring/ambient air quality monitoring and submit quarterly analysis report from the State Board laboratory/ laboratory recognized by Ministry of Environment & Forests (MoE&F), Government of India.
- 36 That the industry shall ensure compliance of ambient air quality standard in respect of noise as prescribed under Environment (Protection) Act & Rules made therein.
- 37 That the industry shall comply with the provisions of the Public Liability Insurance Act, 1991.
- 38 That suitable measure for rain water harvesting for artificial recharge of ground water shall be taken.
- 39 That cemented roads shall be provided & maintained inside the premises to minimize the fugitive emissions due to vehicular movements.
- 40 That the plantation in atleast 33% of total area of the project in and around the power plant shall be carried out & maintained.
- 41 That this consent to operate shall be subject to compliance of any direction or order passed by NGT/Hon'ble Court of Law in the matter.
- 42 That this revised consent letter shall supercede the earlier consent letter no F(Tech)/Barmer(Barmer)/5153(1)/2023-2024/5800-5802 dated Dec 1 2023 5:20PM





Head Office Power
Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongari, Jaipur-302 004
Phone: 0141-2716804

Revised Consent

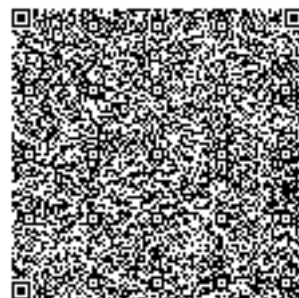
File No : F(Tech)/Barmer(Barmer)/5153(1)/2023-2024/5821-5823

Order No : 2023-2024/Power/3

Date: Dec 5 2023 2:58PM

Unit Id : 5276

- 43 That, notwithstanding anything provided hereinabove, the State Board shall have the power and reserves its right, as contained **under Section 27(2) of the Water Act and under Section 21(6) of the Air Act** to review anyone or all of the conditions imposed here in above and to make such variation as it deems fit for the purpose of **Air Act & Water Act**.
- 44 That the grant of this **Consent to Operate** is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility to comply with the conditions laid down in all other laws for the time-being in force, rests with the industry/ unit/ project proponent.
- 45 That the grant of this **Consent to Operate** shall not, in any way, adversely affect or jeopardize the legal proceeding, if any, instituted in the past or that could be instituted against you by the State Board for violation of the provisions of the Water Act and Air Act or the Rules made thereunder.
- 46 That the Project Proponent shall comply with provisions of the E-waste (Management) Rules, 2016 and ensure that e-waste generated by them is channelized through collection centre or dealer of authorized producer or dismantler or recycler or through designated take back service provider of the producer to authorized dismantler or recycler.
- 47 That the Project Proponent shall maintain record of e-waste generated by them in Form-2 and make such records available for scrutiny by the Board.
- 48 That the Project Proponent shall file annual returns in Form-3, to the Board on or before the 30th day of June following the financial year to which that return relates.
- 49 That the transportation of e-waste shall be carried out as per the manifest system whereby the transporter shall be required to carry a document (three copies) prepared by the sender, giving the details as per Form-6.
- 50 That the Project Proponent shall comply with provisions of the Batteries (Management and Handling) Rules, 2001 (as amended) and submit half yearly returns (as bulk consumer, importer, auctioneer, recycler as the case may be) to the State Board as provided under Rule 10 (2) (ii) of the Battery (Management and Handling) Rules, 2001 (as amended). In case the Project Proponent is not a bulk consumer even then the used batteries shall be returned to the authorized dealers or recyclers only.
- 51 That the record of batteries purchased and sold/ returned to registered dealers and/ or authorized recyclers shall be maintained and made available to the officers of the Board during inspections.





Head Office Power
Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongari, Jaipur-302 004
Phone: 0141-2716804

Revised Consent

File No : F(Tech)/Barmer(Barmer)/5153(1)/2023-2024/5821-5823

Order No : 2023-2024/Power/3

Date: Dec 5 2023 2:58PM

Unit Id : 5276

This **Consent to Operate** shall also be subject, besides the aforesaid specific conditions, to the general conditions given in the enclosed Annexure. The Project Proponent will comply with the provisions of the **Water Act and Air Act** and to such other conditions as may, from time to time , be specified, by the State Board under the provisions of the aforesaid Act(s). Please note that, non compliance of any of the above stated conditions would tantamount to revocation of **Consent to Operate** and Project Proponent / occupier shall be liable for legal action under the relevant provisions of the said Act(s).

This bears approval of the competent authority.

Yours sincerely,

Group Incharge[Power]

(A): Copy to:-

- 1 Regional Officer, Regional Office, Rajasthan State Pollution Control Board,,for information and to monitor the compliance of the Consent to Operate conditions.
- 2 Master File.

Group Incharge[Power]

