



Head Office (CPM )

**Rajasthan State Pollution Control Board**  
**4, Institutional Area, Jhalana Doongari, Jaipur-302 004**  
**Phone: 0141-5159600,5159695 Fax: 0141-5159697**



**Registered**

**File No : F(Tech)/Barmer(Barmer)/3(1)/2008-2009/6524-6526**

**Order No : 2021-2022/CPM/8556**

**Date: Feb 10 2022 10:51AM**

**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 25/06/2021 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 III (Unit V VI) plant** situated at **Village- Bhadresh , TehsilBarmer District -Barmer Bhadresh Tehsil:Barmer District:Barmer** , Rajasthan, subject to the following conditions:-

- 1 That this Consent to Operate is valid for a period from **01/11/2021 to 31/10/2026** .
- 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 | Product | 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:



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| Type of effluent | Max. effluent generation (KLD) | Recycled Qty of Effluent (KLD) | Disposed Qty of effluent (KLD) and mode of disposal      |
|------------------|--------------------------------|--------------------------------|----------------------------------------------------------|
| Domestic Sewage  | 75.000                         | NIL                            | 75.000<br>On Land For<br>Plantation/Horticulture         |
| Trade Effluent   | 9800.000                       | NIL                            | 9,800.000<br>Dust<br>suppression/Plantation/Horticulture |

- 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                                                                                                    |
| One D.G. Set( 1000KVA)   | ACOUSTIC ENCLOSURE , ADEQUATE STACK HEIGHT | NO <sub>x</sub> (as NO <sub>2</sub> )<br>(at 15% O <sub>2</sub> )<br>day basis in<br>ppmv<br>NMHC (as C)<br>(at 15% O <sub>2</sub> )<br>PM (at 15% O <sub>2</sub> )<br>CO (at 15% O <sub>2</sub> ) | 710 mg/Nm <sup>3</sup><br><br><br>100 mg/Nm <sup>3</sup><br>75 mg/Nm <sup>3</sup><br>150 mg/Nm <sup>3</sup> |

Two Lignite fired Boilers(  
440TPH EACH)

ADEQUATE STACK  
HEIGHT , ESP

SO<sub>2</sub> 600 mg/Nm<sup>3</sup>

Particulate  
Matter 50 mg/Nm<sup>3</sup>



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|  |  |                      |                         |
|--|--|----------------------|-------------------------|
|  |  | NOx                  | 450 mg/Nm <sup>3</sup>  |
|  |  | Hg and its compounds | 0.03 mg/Nm <sup>3</sup> |

- 6 That the domestic sewage 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.

| 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



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| 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 |

- 8 That the industry shall obtain all the necessary permissions from concern authority and district administration Barmer for operation of 270 MW lignite coal based power plant.
- 9 That this consent to operate is being issued for production capacity of 2 x 135 MW (Unit 5 & 6) thermal power plant.
- 10 That the total project cost of unit 5 & 6 is Rs. 1362.89 Crore. The industry shall take/obtain modification in consent to operate after paying fee as applicable.
- 11 That the industry shall comply with all the conditions as imposed by MOEF, Government of India vide its office letter no. F. No. J-13011/58/2006-IA II (I) dated 20/07/2007 while issuing EC to your project and also amendment made vide letter dated 19.11.2009 thereafter.
- 12 That all the conditions imposed vide CPCB letter no B-33014/07/2017-2018/IPC-II/TPP/15934 dated 11.12.2017 shall be complied in future in letter & spirit.
- 13 That all the conditions imposed vide letter no F (HDF)/Barmer(Barmer)/12(1)/2017-2018/1223-1225 dated 25/06/2019 shall be complied
- 14 That the Charter of Corporate Responsibility for Environment Protection specified for Thermal Power Plants shall be complied.
- 15 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.



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- 16 That the unit shall provide and maintain adequate dust collection and extraction system to control fugitive dust emissions at coal crusher, coal crusher, coal transfer points and coal handling and storage areas.
- 17 That the particulate emissions from the stack of various sections of the power plant shall not exceed 50 mg/NM<sup>3</sup>.
- 18 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.
- 19 That low Nox burners shall be installed at the boiler feeding system.
- 20 That the level of SPM within distance 3-10 M from dust generating source/plant shall not exceed to 600 mg/Nm<sup>3</sup> in ambient air.
- 21 That for the control fugitive emission guidelines /code of practice as issued by CPCB will be followed.
- 22 That the project proponent shall undertake measures and ensure that no fugitive fly ash emissions take place at any point of time.
- 23 That no industrial effluent will be discharged 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 used for ash quenching, control of fugitive emissions and plantation.
- 24 That the industrial effluents generated from R.O. rejects, DM plant & cooling tower shall be neutralized & be used for plantation, horticulture and ash quenching purpose. No industrial effluent will be discharged inside or outside the factory premises into a stream or well or sewer or on land.
- 25 The domestic effluent shall be treated up to prescribed standards and shall be used for plantation/ green belt development within the premises.
- 26 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.
- 27 That the total fresh water requirement for unit-V & VI shall not exceed 21750.00 KLD (boiler/cooling-21000KLD + domestic -150KLD + industrial purpose- 600 KLD) which shall be met from ground water i.e.IGNP Mohangarh.
- 28 That no ground water shall be abstracted without prior permission from the State Board and the Central Ground Water Authority.
- 29 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.



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- 30 That the industry shall undertake suitable measures for rain water harvesting for artificial recharge of ground water.
- 31 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 provide relevant details to the State Board, MoEF, Government of India and as per the Notification dated 25/01/2016 issued by MoEF & CC, the industry shall upload on their website the details of stock of each type of ash available with them and thereafter shall update the stock position at least once a Month. The industry shall also ensure compliance of the other provisions of the aforesaid Notification.
- 32 That the unit shall install flow meters at inlet and outlet of STP and at outlet of ETP.
- 33 That the unit shall submit details of solid waste generated from the plant to Regional Officer of the State Board, Balotra.
- 34 That the Thermal power plant shall meet the limits of Boiler (specified in condition no.5), as per the Notification dated 07.12.2015 issued by the Ministry of Environment, Forest and Climate Change, Government of India.
- 35 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.
- 36 That the industry shall provide acoustic enclosure and adequate stack height of minimum 30 meters with one D.G. set of 1000 KVA.
- 37 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).
- 38 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.
- 39 That the industry shall comply with the standards as prescribed vide MOEF notification no. GSR 826(E) dated 16th November, 2009 with respect to National Ambient Air Quality.
- 40 That the industry shall ensure compliance of ambient air quality standard in respect of noise as prescribed under Environment (Protection) Act & Rules made therein.
- 41 That the industry shall comply with the provisions of the Public Liability Insurance Act, 1991.



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- 42 That the industry shall complete all the works in the stipulated time as per your commitment letter dated 1.2.2022, failing which bank guarantee of Rs.20, 000/- shall be forfeited without further notice in the matter.
- 43 That suitable measure for rain water harvesting for artificial recharge of ground water shall be taken.
- 44 That cemented roads shall be provided & maintained inside the premises to minimize the fugitive emissions due to vehicular movements.
- 45 That the plantation in atleast 33% of total area of the project in and around the cement plant shall be carried out & maintained
- 46 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.
- 47 That, not withstanding anything provided hereinabove, the State Board shall have 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 the conditions imposed here in above and to make such variation as it deemed fit for the purpose of Air Act & Water Act.
- 48 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.
- 49 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 Act or the Rules made thereunder.
- 50 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.
- 51 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.
- 52 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
- 53 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.



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- 54 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.
- 55 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.

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 the approval of the competent authority.

**Yours Sincerely**

**Group Incharge[ CPM ]**

(A): **Copy To:-**

- 1 Regional Officer, Regional Office, Rajasthan State Pollution Control Board, Balotra to ensure the compliance.
- 2 Master File.

**Group Incharge[ CPM ]**