



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(HDF)/Barmer(Barmer)/9(1)/2016-2017/31-33

Order No : 2020-2021/CPM/5619

Date: 27/04/2020

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 05/07/2018 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 II (Unit- III & IV) plant** situated at **Village- Bhadresh Tehsil:Barmer District:Barmer** , Rajasthan, subject to the following conditions:-

- 1 That this Consent to Operate is valid for a period from **01/12/2018** to **30/11/2023** .
- 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 On Land For Plantation/Horticulture
Trade Effluent	9800.000	NIL	9,800.000 Dust 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
Two Lignite fired Boilers(440TPH EACH)	ADEQUATE STACK HEIGHT , ESP	SO2	600 mg/Nm3
		Particulate Matter	50 mg/Nm3
		NOx	300 mg/Nm3
		Hg and its compounds	0.03 mg/Nm3
Two DG Sets(1000KVA EACH)	ACOUSTIC ENCLOSURE , SAFE STACK HEIGHT AS PER ER IV	CO	150 mg/NM3
		Particulate Matter	75 mg/NM3
		NOx	710 ppm
		NMHC	100 mg/NM3



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- 6 That the **Stage II (Unit- III & IV) plant** will comply with the standards as prescribed vide MOEF notification No. GSR 826(E) dated 16th November, 2009 with respect to National Ambient Air Quality Standards.
- 7 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
Ammonical Nitrogen (as N)	Not to exceed 50 mg/l
Biochemical Oxygen Demand (3 days at 27°C)	Not to exceed 30 mg/l
Chemical Oxygen Demand	Not to exceed 250 mg/l
Fecal Coliform (FC) (MPN per 100ml)	Not to exceed 1000

- 8 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
Oil and Grease	Not to exceed 10 mg/l
Biochemical Oxygen Demand (3 days at 27°C)	Not to exceed 30 mg/l
Free Available Chlorine	Not to exceed 0.5 mg/l
pH Value	Between 6.5 to 8.5
Copper as Cu)	Not to exceed 1.0 mg/l
Zinc (as Zn)	Not to exceed 1.0 mg/l
Total Chromium (as Cr)	Not to exceed 0.2 mg/l
Chemical Oxygen Demand	Not to exceed 250 mg/l
Phosphate (as P)	Not to exceed 5.0 mg/l

- 9 That this consent to operate is valid for power generation of 270 MW capacity with the help of two lignite fired boiler of 440 TPH each.
- 10 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.
- 11 That the total capital investment as on 31.03.2018 as per the C. A certificate submitted by the unit is Rs 1352.79 crore which includes the cost of Land, building, plant & machinery and miscellaneous assets only.
- 12 That guidelines on co-processing in cement/ Power/ Steel industries issued by Central Pollution Control Board shall be complied.
- 13 That the industry shall comply with the emission standards prescribed for Power Plants under the Environment (Protection) Rules, 1986.
- 14 That the industry shall comply with the emission standards for thermal power plants as notified by MoEF, GoI New Delhi vide gazette notification dated 07/12/2015 and directions issued by Central Pollution Control Board / MOEF from time to time in this regard.



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- 15 That the industry shall maintain online continuous monitoring system at stack attached to boiler to monitor the emission level of particulate matter(PM),SO₂,NO_x,Hg alongwith for effluents and connectivity of the same shall be ensured with RPCB/CPCB server whenever plant is operated.
- 16 That the industry shall comply with the guidelines of August, 2018 issued by CPCB for "Continuous Emission Monitoring Systems".
- 17 That industry shall maintain adequate stack height and acoustic enclosures at the two DG sets of 1000 KVA each capacity.
- 18 That safe & adequate infrastructure facility in accordance with emission regulation Part-III issued by the Central Pollution Control Board shall be maintained at the stack attached to the boiler & DG Sets for stack emission monitoring.
- 19 That no other fuel except lignite shall be used in boiler of the power plant without prior permission from the State Board.
- 20 That no additional source of air emission shall be installed without prior consent from the State Board.
- 21 That all the raw materials(coal etc) shall be stored in closed covered shed and storage facility for coal shall be further strengthened & coal shall not be stored in open areas.
- 22 That power supply to the production/process shall be interlocked with the pollution control equipments that in the event of non functioning of the pollution equipment the production process stops automatically.
- 23 That total fresh water requirement from Indira Gandhi Canal shall be 21750 KLD(boiler/cooling-21000 KLD+Domestic-150 KLD+Industrial Process-600 KLD) and no ground water shall be abstracted from the ground without prior permission from the Central Ground Water Authority (CGWA).
- 24 That the industry shall maintain zero discharge status outside the premises. No effluent shall be discharged outside the premises of the industry under any circumstances.
- 25 That suitable measure for rain water harvesting for artificial recharge of ground water shall be taken.
- 26 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.
- 27 That the industry shall submit time bound action plan for installation of FGD.
- 28 The domestic effluent shall be treated up to prescribed standards and shall be used for plantation/ green belt development within or outside of the premises.



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- 29 That the Ministry of Environment and Forest, Govt. of India, Notification dated 14/09/1999 (amended till date) related to the fly ash management, shall be complied and monthly compliance reports shall be submitted to the State Board.
- 30 That the plantation in atleast 33% of total area of the plant premises in and around the plant shall be carried out & maintained.
- 31 That the industry shall obtain Environmental Clearance from competent authority under EIA Notification dated 14.09.2016 for any such activity which attracts Environmental Clearance under EIA Notification dated 14.09.2006.
- 32 That the industry shall comply with the provisions of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and record of daily hazardous waste generation and its disposal shall be maintained.
- 33 That this Consent to Operate shall be subjected to compliance of any direction or order passed by NGT/ Hon'ble Court of law in the matter.
- 34 That the industry shall not use petcoke/furnace oil as fuel in the power plant in compliance to the order dated 24/10/2017 of Hon'ble Supreme Court, wherein ban has been imposed on the use of petcoke and furnace oil in the State of Rajasthan.
- 35 That all the recommendations made in the Charter of Corporate Responsibility for Environment Protection for Thermal power plants shall be implemented.
- 36 That cemented roads shall be provided and maintained inside the premises to minimize the fugitive emissions due to vehicular movements.
- 37 That the industry shall also ensure the compliance of all the conditions of consent order no. 2016-2017/HDF/2506 dt 04.01.2017.
- 38 That the industry shall submit the half yearly compliance report of all the above conditions to the State Board.
- 39 That, notwithstanding 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**.
- 40 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.



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41 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.

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]