



Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongari, Jaipur-302 004
Phone: 0141-5159600,5159695 Fax: 0141-5159697
www.rpcb.nic.in

Registered

File No : F(Tech)/Barmer(Barmer)/3(1)/2008-2009/2487-2489

Order No : 2011-2012/CPM/957

Dispatch Date: 04/07/2011

M/s Raj West Power Private Limited

Village- Bhadresh , Tehsil:Barmer

District:Barmer

Sub: Consent to Establish 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(s) for Consent to Establish dated 12/03/2011 and subsequent correspondence.


Sir,

Consent to Establish 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 **Unit (III to VIII) plant** situated / proposed at **Village-Bhadresh Tehsil:Barmer District:Barmer**, Rajasthan under the provisions of the said Act(s). This consent is granted on the basis of examination of the information furnished by you in consent application(s) and the documents submitted therewith, subject to the following conditions:-

- 1 That this Consent to Establish is valid for a period from **01/01/2010** to **31/12/2012** or **date of Commencement of production / commissioning of the project or activities whichever is earlier**.
- 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 / Capacity
ELECTRIC POWER GENERATION	Product	810.00 MW

- 3 That in case of any increase in capacity or addition / modification / alteration or change in product mix or process or raw material or fuel the project proponent is required to obtain fresh consent to establish.
- 4 That the control equipment as proposed by the applicant shall be installed before trial operation is started for which prior consent to operate under the provision of the **Water Act and Air Act** shall be obtained. This consent to establish shall not be treated as consent to operate.
- 5 That the quantity of effluent generation and disposal along with mode of disposal for the treated effluent shall be as under:


वरिष्ठ पर्यावरण अभियंता
राजस्थान राज्य प्रदूषण नियंत्रण मण्डल



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Type of effluent	Max. effluent generation (KLD)	Quantity of effluent to be recycled (KLD)	Quantity of treated effluent to be disposed (KLD) and mode of disposal
Trade Effluent	29400.000	NIL	29,400.000. Ash Pond
Domestic Sewage	450.000	NIL	450.000 On Land For Plantation/Horticulture

- 6 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
Boiler-III to VIII	ESP	Particulate Matter	50 mg/NM ³

- 7 That the domestic sewage shall be treated before disposal so as to conform to the standards prescribed by the Board as notified under the Environment (Protection) Act-1986 for disposal **On Land for irrigation**. The main parameters for regular monitoring shall be as under.

Parameters	Standards
pH Value	Between 5.5 to 9.0
Total Kjeldahl Nitrogen (as N)	Not to exceed 100 mg/l
Chemical Oxygen Demand	Not to exceed 250 mg/l
Sulphide (as S)	Not to exceed 2.0 mg/l
Bio-assay Test	90% survival of fish after 96 hours in 100% effluent
Free Available Chlorine	Not to exceed 0.5 mg/l
Oil and Grease	Not to exceed 20 mg/l



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- 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

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
Temperature	Not more than 5°C higher than the intake water temperature
Chromium (total)	Not to exceed 0.2 mg/l

- 9 That all the conditions imposed vide letter no. F-5 (BR-529)/RPCB/Gr-II/3828-31 dated 15/01/2009 shall be complied.
- 10 That the industry shall comply with all the conditions 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 this consent to operate is valid for 6x 135 MW (Unit III to VIII) thermal power plant
- 12 That total fresh water requirement shall not exceed from 35.5 cusec for the entire project without prior permission from the State Board, and competent authorities.
- 13 That suitable measure for rain water harvesting for artificial recharge of ground water shall be taken.
- 14 That no industrial effluent will be discharged from the factory premises in to a stream or well or sewer or on land and the effluent generated from captive power plant shall be used for ash quenching.
- 15 That the industrial effluents generated from R.O. rejects, DM plant & cooling tower shall be neutralized & will be used for cooling proposes after taking it into water circulation tank. No industrial effluent will be discharged inside or outside the factory premises.

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- 16 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.
- 17 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.
- 18 That the particulate emissions from stack of various section of power plant shall not exceed 50 mg/NM³ and continuous online arrangement for stack monitoring of particular emissions shall be provided.
- 19 That the industry shall provide & maintain adequate dust collection and extraction system to control fugitive dust emission at coal crusher and coal transfer points.
- 20 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.
- 21 That for the control fugitive emission guidelines /code of practice as issued by CPCB will be followed.
- 22 That all the sources of emissions be provided with proper pollution control measures and maintained as well all time so as to conforming the emission standards prescribed.
- 23 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
- 24 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 compliance of the Water Act and Air Act.
- 25 That the grant of this **Consent to Establish** 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.
- 26 That the grant of this **Consent to Establish** shall not, in any way, adversely affect or jeopardize the legal proceedings, 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 Establish** shall also be subject, beside 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



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aforesaid Act(s). Please note that, non compliance of any of the above stated conditions would tantamount to revocation of **Consent to Establish** and project proponent / occupier shall be liable for legal action under the the relevant provisions of the said Act(s).

This bears the approval of the competent authority.

Yours Sincerely

Group Incharge

Copy To:-

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

वरिष्ठ पर्यावरण अभियन्ता
राजस्थान राज्य प्रदूषण नियन्त्रण मण्डल
जयपुर (राज.)

Group Incharge

1. The first part of the paper is devoted to a discussion of the various methods of determining the rate of reaction. The second part is devoted to a discussion of the various methods of determining the order of reaction. The third part is devoted to a discussion of the various methods of determining the activation energy of a reaction.