

# MAHARASHTRA POLLUTION CONTROL BOARD

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RED/LSI

Consent No. BO/JD(APC)/ EIC-RD-2186-11/O/CAC-22 /Auto Renewal/ CC-320  
Date: 21/11/2013.

Consent to operate under Section 26 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization / Renewal of Authorization under Rule 5 of the Hazardous Wastes (Management Handling & Transboundary Movement) Rules, 2008. [To be referred as Water Act, Air Act and HW (MH & TM) Rules respectively].

CONSENT is hereby granted to

M/s. Tata Power Company  
[Bhivpuri Hydro Power Station]  
Bhivpuri, Tal: Karjat,  
Dist: Raigad.

located in the area declared under the provisions of the Water Act, Air act and Authorization under the provisions of HW(MH&TM) Rules and amendments thereto subject to the provisions of the Act and the Rules and the Orders that may be made further and subject to the following terms and conditions:

1. **The Consent to operate is granted for a period up to 31.12.2018.**

2. **The Consent is valid for the manufacture of -**

Sr. No.	Products	Maximum Qty.
1	Electricity Generation. (Hydroelectric Power Project)	75 MW [3X24 + 1.5X2]

3. **CONDITIONS UNDER WATER ACT :**

- (i) The daily quantity of trade effluent from the factory shall be **NIL**.  
[Tail race discharge from the Hydroelectric Power Plant shall be 1.365 Million M<sup>3</sup>/day.]
- (ii) The daily quantity of sewage effluent from the factory shall not exceed 4.0 m<sup>3</sup>.
- (iii) Trade Effluent Treatment and Disposal: **N.A.**

(iv) **Sewage Effluent Treatment** : The applicant shall provide comprehensive treatment system as is warranted with reference to influent quality and operate and maintain the same continuously so as to achieve the quality of treated effluent to the following standards.

(1)	Suspended Solids	Not to exceed	100	mg/l.
(2)	BOD 3 days 27° C	Not to exceed	100	mg/l.

(v) **Sewage Effluent Disposal**: The treated domestic effluent shall be used on land for gardening / plantation only.

(vi) **Non-Hazardous Solid Waste:**

Type of waste	Quantity	Treatment	Disposal
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(vii) **Other conditions** : NIL.

**SRO Raigad -II /R/L/ Auto Renewal**

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4. The applicant shall comply with the provisions of the Water ( Prevention & Control of Pollution ) Cess Act, 1977 ( to be referred as Cess Act ) and Rules thereunder:  
The daily water consumption for the following categories is as under:

(i) Domestic	...	10.0	CMD
(ii) Industrial [ Power Generation ]	...	1.365	Million CMD.
(iii) Industrial Cooling/Boiler	...	---	CMD
(iv) Agriculture/Gardening	...	20.0	CMD

The applicant shall regularly submit to the Board the returns of water consumption in the prescribed form and pay the Cess as specified under Section 3 of the said Act.

5. **CONDITIONS UNDER AIR ACT :**

- (i) The applicant shall install a comprehensive control system consisting of control equipments as is warranted with reference to generation of emission and operate and maintain the same continuously so as to achieve the level of pollutants to the following standards :

**A) Control Equipment :** Air pollution control equipments of adequate capacity shall be provided to limit the emissions.

**B) Standards for Emissions of Air Pollutants :**

- (i) SPM Not to exceed 150 mg/Nm<sup>3</sup>  
(ii) SO<sub>2</sub> Not to exceed 4.0 kg/day

**C) Conditions for D.G. Set:-**

1]Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically. 2] Industry should provide acoustic enclosure for control of noise. The acoustic enclosure/acoustic treatment of the room should be designed for minimum 25 dB(A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB (A) shall also be provided. The measurement of insertion loss will be done at different points at 0.5 meters from acoustic enclosure/room and then average. 3] The industry shall take adequate measures for control of noise levels from its own sources within the premises in respect of noise to less than 55 dB(A) during day time and 45 dB(A) during the night time. Day time is reckoned between 6 a.m. to 10 p.m and night time is reckoned between 10 p.m to 6 a.m. 4] Industry should make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper siting and control measures. 5] Installation of DG Set much be strictly in compliance with recommendations of DG Set manufacturer. 6] A proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use. 7] D.G. Set shall be operated only in case of power failure. 8] The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.

- (ii) **The applicant shall observe the following fuel pattern:-**

<u>Sr.No.</u>	<u>Type of Fuel</u>	<u>Quantity</u>
1.	Diesel	200.0 Ltrs/Day

- (iii) **The applicant shall erect the chimney(s) of the following specifications :-**

<u>Sr.No.</u>	<u>Chimney attached to</u>	<u>Height in Mtrs.</u>
1.	DG Set 250 KVA	3.2*

(Above roof top of building in which it is installed)

- (iv) The applicant shall provide ports in the chimney/(s) and facilities such as ladder, platform etc. for monitoring the air emissions and the same shall be open for inspection to/and for use of the Board's Staff. The chimney(s) vents attached to

various sources of emission shall be designated by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.

(v) The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standard in respect of noise to less than 75 dB(A) during day time and 70 dB(A) during night time. Day time is reckoned between 6 a.m. and 10 p.m. and night time is reckoned between 10 p.m. and 6 a.m.

(vi) **Other Conditions :**

- 1) The industry should not cause any nuisance in surrounding area.
- 2) The industry should monitor stack emissions and ambient air quality regularly.

6. **CONDITIONS UNDER HW (M&H) RULES, 1989 & AMENDMENT RULES :**

(i) The applicant shall handle hazardous wastes as specified below:

Sr. No.	Item No. of process generating HW as per Schedule-I	Type of Waste	Quantity	Disposal
1	5.1	Used/Spent Oil	85 MT/Year	By sale to CPCB/MPCB authorized recycler/reprocessor
2	--	Oil soaked waste	100 Kg/A	Incineration/ CHWTSDF

7. Whenever due to any accident or other unforeseen act or even, such emissions occur or is apprehended to occur in excess of standards laid down, such information shall be forthwith Reported to Board, concerned Police Station, office of Directorate of Health Services, Department of Explosives, Inspectorate of Factories and Local Body. In case of failure of pollution control equipments, the production process connected to it shall be stopped.

8. **General Conditions :**

- (i) The applicant shall maintain good house keeping and take adequate measures for control of pollution from all sources so as not to cause nuisance to surrounding area/inhabitants.
- (ii) The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a yearly statement by 30<sup>th</sup> September every year on available open plot area, number of trees surviving as on 31<sup>st</sup> March of the year and number of trees planted by September end.
- (iii) Solid Waste – The non-hazardous solid waste arising in the factory premises, sweepings, etc. be disposed of scientifically so as not to cause any nuisance / pollution. The applicant shall take necessary permissions from civic authorities for disposal to dumping ground.
- (iv) The applicant shall provide for an alternate electric power source sufficient to operate all pollution control facilities installed by the applicant to maintain compliance with the terms and conditions of the consent. In the absence, the applicant shall stop, reduce or otherwise, control production to abide by terms and conditions of this consent regarding pollution levels.
- (v) The applicant shall not change or alter the quantity, quality, the rate of discharge, temperature or the mode of the effluent/emissions or hazardous wastes or control equipments provided for without previous written permission of the Board.
- (vi) The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.
- (vii) An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.

- (viii) The applicant shall install a separate meter showing the consumption of energy for operation of domestic and industrial effluent treatment plants and air pollution control system. A register showing consumption of chemicals used for treatment shall be maintained.
- (ix) Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes/sewers down stream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system.
- (x) Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
- (xi) The industry shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
9. This Board reserves the right to amend or add any conditions in this consent and the same shall be binding on the Applicant.
10. **This consent is issued under the auto renewal consent policy of the Board vide letter No.B/654 dated 31.01.2012 as per self certification submitted by Shri. S. Padmanabhan, Executive Director (Operations) M/s Tata Power Company Ltd Dated 17.10.2013, authorized signatory as per Board resolution passed in board meeting dated 04.01.2013.**
11. **The total capital investment of the project is Rs.308.02 /- Cr.**
12. **This consent is issued as per empowerment delegated by Hon'ble Member Secretary to HOD's vide office note dated 11.11.2013.**

For and On Behalf of the  
Maharashtra Pollution Control Board,

  
(V.M. Motghare) 19/11/13  
Joint Director [ Air Pollution Control ]

To,  
M/s. Tata Power Company  
[Bhivpuri Hydro Power Station]  
Bhivpuri, Tal: Karjat,  
Dist: Raigad.

Copy to:

1. RO-Raigad/ SRO-Raigad-II - They are directed to ensure the compliance of the consent conditions.
2. CAO/ Cess Branch/ Master File

Received Consent fee of -

Amount	D.D. No.	Date	Drawn on
Rs. 25,49,600/-	583384	09.10.2013.	HDFC Bank