

MAHARASHTRA POLLUTION CONTROL BOARD

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Red/L.S.I

Consent No. BO/JD (APC)/EIC No. RD-2146-11/O- CAC - 20

Date: 24 / 11 / 2011

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 (M&H) Rules respectively].

CONSENT is hereby granted to

M/s. Tata Power Company Limited,
At Khopoli (Khopoli Hydro Generating Station),
Khopoli, Tal. Khalapur,
Dist Raigad.

located in the area declared under the provisions of the Water Act Air act and Authorization under the provisions of HW(M&H) 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: 31/12/2016.
2. The Consent is valid for the manufacture of -

Sr. No.	Product Name	Maximum Quantity	UOM
1	Hydro Electric Power Generation	72	MW

3. CONDITIONS UNDER WATER ACT:

- (i) The daily quantity of tailrace discharge from hydro power station shall not exceed 1.469 Million M³/Day
- (ii) The daily quantity of sewage effluent from the Hydro Power Station shall not exceed 16 M³/Day.
- (iii) Trade Effluent : N.A.
- (iv) Trade Effluent Disposal : N.A.
- (v) 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 27o C.	Not to exceed	100	mg/l.
- (vi) Sewage Effluent Disposal: The treated domestic effluent shall be soaked in a soak pit, which shall be got cleaned periodically. Overflow, if any, shall be used on land for gardening / plantation only.

- (v) The applicant shall comply with the provisions of the water (prevention & control of Pollution) Cess Act, 1977 (to be referred as Cess Act) and amendment Rules, 2003 there under.

The daily water consumption for the following categories is as under:

Sr No	Usage	Quantity
(i)	Domestic	16 CMD
(ii)	Industrial (Power Generation)	1.469 Million CMD
(iii)	Agricultural /Gardening	---- CMD

The applicant shall regularly submit to the board the returns of water consumption in the prescribe form and pay the cess as specified under section 3 of the said Act. (As per clause no 2.c of cess Act Hydro Power station are exempted from the definition of industry hence payment of cess is not applicable to Khopoli Hydro Power station)

4. 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 to as to achieve the level of pollutants to the following standards:

Control Equipment: NA

Conditions for DG sets:-

1. Noise from DG sets shall be controlled by providing acoustic enclosure or by treating the room acoustically.
2. Applicant should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room shall be designed for minimum 25dB (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 shall be done at different points at 0.5 meters from acoustic enclosure/room and then average.
3. The Applicant should make efforts to bring down noise level due to DG set, outside the premises, with ambient noise level requirements by proper setting and control measures.
4. Installation of DG set must be strictly in compliance with recommendations of DG set Manufacturer.
5. A proper routine and preventive maintenance procedure for DG set shall be and followed in consultation with the DG manufacturers, which would help to prevent noise levels of DG sets from deteriorating with use.
6. The DG set shall be operated only in case of power failure. The applicant shall make arrangement for regular electrical power.
7. The applicant shall not cause any nuisance in the surrounding area due to operation of DG sets.
8. In case of problems, the DG set shall not be operated until it is set back to satisfactory position.

9. Standard for Emission of Air Pollutants

(a)	SPM	Not to exceed	150 mg/Nm ³
(b)	SO ₂	---	--- Kg/day

(ii) The Applicant shall observe the following fuel pattern

Sr.No	Type of fuel	Quantity
1	HSD	200 Liters/Day

(iii) The Applicant shall erect the chimney(s) of the following specifications

Sr.No	Chimney Attached to	Height in Metres
1	D.G set (250 KVA)	14.2

(iv) The applicant shall provide ports in the chimney(s) and facility such as ladder, platform etc for monitoring of 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 designed by numbers such as S-1, S-2 etc. and these Shall be painted/displayed to facilities identification.

5. OTHER CONDITION

(i) The industry shall be take adequate measures for contro 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 in between 6 am and 10 pm. and night time is reckoned between 10 pm and 6 am.

6. CONDITIONS UNDER HAZARDOUS WASTE (MANAGEMENT, HANDLING & TRANSBOUNDARY MOVEMENT) RULES, 2008:

(i) The Industry shall handle hazardous wastes as specified below.

Sr.No	Type of Waste	Quantity	UOM	Disposal
1	Used oil/Spent oil category 5.1	9.5	MT/Annum	Sale to SPCB/CPCB authorized re-refiners/reprocessor
2	Oil Soaked waste	100	Kg/A	Incineration

(ii) Treatment:- NA

(iii) The authorization is hereby granted to operate a facility for collection, storage, transport and disposal of hazardous waste.

(iv) Wherein due to any accident or other unforeseen act or event, such emission occurs or is apprehended to occur in excess of standards laid down, such information shall be forthwith reported to the MPC Board.

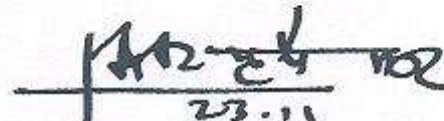
7. NON-HAZARDOUS SOLID WASTES:

Sr.no.	Type of waste	Quantity	UOM	Treatment	Disposal
1	Metallic Waste	---	---	---	Sale
2	Non Metallic Biodegradable Waste	---	---	---	Composting as manure/ Biogas generation

8. Industry shall comply with following additional conditions:

- (i) The applicant shall maintain good housekeeping and take adequate 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 coverage/tree plantation.
- (iii) The applicant shall not change or alter 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.
- (iv) 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 designed points and shall pay to the Board for the services rendered in this behalf.
- (v) The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent.
- (vi) The firm shall submit to this office, the 30th day of September every year, the environmental statement report for the financial year ending 31st march in the prescribed form-V as pre the provisions of rule environment(Protection) (second Amendment) Rules,1992.
- (vii) As inspections book shall be opened and made available to the Board's officers during their visit to the applicant.
- (viii) 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.
- (ix) Adequate safety measure shall be provided to limit the risk zone within the plant boundary, in case of an accident, Leak detection devices shall also be installed at strategic places for early detection and warning.

9. The capital investment of the Khopoli Hydro Power Station is Rs.445.05 /- Crores.
10. This is issued with the approval of consent appraisal committee meeting held on 09.11.2011.


23.11
(Milind Mhaiskar, IAS)
Member Secretary

To,
M/s. Tata Power Company Limited,
At Khopoli (Khopoli Hydro Generating Station),
Khopoli, Tal.Khalapur,
Dist Raigad.

Copy to

- 1) RO- MPCB Raigad/ SRO- MPCB Raigad-I, Navi Mumbai.
- 2) CAO
Received Consent Fees

Sr. No	Amount	DD No	Date	Drawn On
1	22,25,250/-	05621	07.10.2011	HDFC Bank
2	22,25,350/-	05473	24.08.2011	HDFC Bank

- 3) Cess Branch
- 4) Master File