

MAHARASHTRA POLLUTION CONTROL BOARD

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Red/L.S.I

Consent No. BO/JD(APC)/EIC No. AD-9775-12/R/CC- CAC-178 Date: 19/08/2012.

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. Maharashtra State Power Generation Co. Ltd.,

Thermal Power Station Parli(V) New Unit-I

Tal:- Parli, Dist: Beed.

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: 31/10/2013.
2. The Consent is valid for the manufacture of -

Sr. No.	Product Name	Maximum Quantity	UOM
1	Electricity Generation	1 × 250	MW

(250 × 1 MW New TPS)

3. CONDITIONS UNDER WATER ACT:

- (i) The daily quantity of trade effluent from the factory shall not exceed **8561.0 M³**.
(50% is recovered & reused in ash disposal in old TPS)
- (ii) The daily quantity of sewage effluent from the factory shall not exceed **80.0 M³**.
- (iii) **Trade Effluent :**

Treatment: The applicant shall provide comprehensive treatment system consisting of primary / secondary and/or tertiary treatment as is warranted with reference to influent quality and operate and maintain the same continuously so as to achieve the quality of the treated effluent to the following standards:

The industrial effluent arising from various sections of Power Plant shall be given such treatment either collective or individually as the site condition permits that the final quality of effluent shall have following character standards:

Sr.no	Parameter	Limits	
Condenser Cooling Water			
1	pH	Between	6.5 to 8.5
2	Temperature	Not exceed 5 Degree C higher than the intake water temperature	
3	Free available Chlorine	Not to exceed	0.5 mg/l
Boiler Blow Downs			
1	Suspended Solids	Not to exceed	100 mg/l.
2	Oil and Grease	Not to exceed	20 mg/l
3	Copper (Total)	Not to exceed	1 mg/l

4	Iron (Total)	Not to exceed	1 mg/l
Cooling Tower Blow Down			
1	Free available Chlorine	Not to exceed	0.5 mg/l
2	Zinc	Not to exceed	1 mg/l.
3	Chromium(Total)	Not to exceed	0.2 mg/l
4	Phosphate	Not to exceed	5 mg/l.
Ash Pond Effluent			
1	pH	Between 6.5 to 8.5.	
2	Suspended Solids	Not to exceed	100 mg/l
3	Oil And Grease	Not to exceed	20 mg/l
D. M. Plant Effluent			
1	pH	Between 6.5 to 9.0.	
2	BOD 3 days 27°C	Not to exceed	30 mg/l
3	COD	Not to exceed	250 mg/l
4	Suspended solids	Not to exceed	100 mg/l
5	Oil & Grease	Not to exceed	10 mg/l
6	TDS	Not to exceed	2100 mg/l

(iv) **Trade Effluent Disposal:** The treated effluent shall be recycled back for industrial use including coal dust suppression making ash slurry & remaining for plantation in the premises.

(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.

(vii) **Non-Hazardous Solid Wastes:**

Sr. No.	Type Of Waste	Quantity	UOM	Treatment	Disposal
1.	Fly Ash (1200 Fly Ash + 300 MT Bottom Ash)	1400-1500	MT/Day	--	As per Govt. of India Guidelines
2.	Ferrous Scrap	500	MT/A	--	Sale

(viii) **Other Conditions:**

1. Industry should monitor effluent quality regularly.
2. Green belt a forestation shall be done upto 33% on available open space land.
3. The factory authorities shall install a separate meter showing the consumption of energy for operation of domestic & industrial effluent treatment plants. The quarterly returns of the energy consumption shall be submitted to Board office under intimation to respective Regional and Sub Regional Officer.
4. The firm shall provide continuous flow meter for the measurement of the flow of effluent.

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 amendment Rules, 2003 there under

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

(i) Domestic	...	100.0 CMD
(ii) Industrial Processing	...	22164.0 CMD
Cooling Boiler		

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.

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:

1. The ESP should be provided with sufficient capacity to limit the particulate matter.
2. Coal handling system shall be provided with automatic water sprinkling and proper handling and ventilation arrangement connected to dust collection system.
3. Dust collector of sufficient capacity should be provided to all dust emitting sources and coal crushing unit.
4. Industry shall make necessary provisions for installing FGD with 90% efficiency in its design and layout and sufficient floor space so that it can be installed in future as and when directed by Board.
5. There shall not be any fugitive emission from coal storage yard.

Standards for Emissions of Air Pollutants:

(i)	SPM/TPM	Not to exceed	75	mg/Nm ³
(ii)	So ₂	Not to exceed	60	MT/Day
(iii)	Nox	Not to exceed	150	ppm

The applicant shall observe the following fuel pattern:-

Sr. No.	Type Of Fuel	Quantity	UOM
1	Coal	4500	MT/Day
2	Furnace Oil	40	KL /Day

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

Sr. No.	Chimney Attached To	Height in Mtrs.
1	Boiler	220 Mtrs

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 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 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 set 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 D.G. set shall not be operated until it is set back to satisfactory position.
9. 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.
10. 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 in between 6 a.m. and 10 p.m. and night time is reckoned between 10 p.m. and 6 a.m.

(ii) **Other Conditions:**

- 1) The coal handling system shall be covered with proper hooding and ventilation arrangement connected to dust suppressing agent so as to not to allow any fugitive emissions.
- 2) There shall not be any fugitive emissions.
- 3) The industry shall not cause any nuisance in surrounding area.
- 4) The industry shall monitor stack emissions and ambient air quality regularly.
- 5) The applicant shall install continuous monitoring equipments for stack emissions analysis and submit a report on fortnightly basis to the respective Regional office / sub -Regional Office.
- 6) **The applicant shall install one continuous automatic ambient air, and micrometeorological monitoring station at location indicated by State Board to be set up and operate at its own cost to measure SO₂, NO_x and particulate matter. These CAAQMS shall also have necessary provision of networking to the Air Quality Monitoring network of M.P.C. Board.**
- 7) Industry shall ensure that fugitive emissions from the activity are controlled so as to maintain safe environment in and around the factory premises.
- 8) the factory authorities shall install a separate meter showing the consumption of energy for operation of domestic and industrial effluent treatment plants and air pollution control equipment. The quarterly returns of the energy consumption shall be submitted to Board office under intimation to respective Regional and Sub-Regional officer on each 10th January, April, July and October.
- 9) If due to any technological improvements or otherwise this Board opines that all or any of the conditions referred above require variation (including the change of any control equipment either in whole or in part), this Board shall after giving the applicant an opportunity of being heard very all or any of such conditions and thereupon the applicant shall be bound to comply with the conditions so varied

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

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

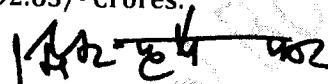
Sr. No	Type Of Waste	Quantity	UOM	Disposal
1	5.1 Used/Waste oil	30	Ltrs/day	Sale to authorized reprocessor

(ii) Treatment: - NIL

7. Industry shall comply with following additional conditions:

- i. The applicant shall maintain good housekeeping 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/ tree plantation.
- 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 he 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 & conditions of this consent regarding pollution levels.
- v. 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.
- vi. The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous wastes to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.
- vii. The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent.
- viii. 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 14 of the Environment (Protection) (Second Amendment) Rules, 1992.
- ix. An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- x. The applicant shall install a separate electric 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.
- xi. Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of 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.
- xii. Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.

8. 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.
- 9 The industry shall send their entire ash (fly ash + bottom ash) to the cement / brick manufacturer.
- 10 Industry shall submit Bank Guarantee of Rs. 5.0 lacs for installation & commissioning of CAAQM system within four months period.
- 11 Industry shall submit bank Guarantee of Rs. 20.0 lacs for monitoring of standards & compliance of consent conditions.
- 12 Industry shall submit Bank Guarantee of Rs. 2 lacs for submission of Environmental Statement and cess details in one month period.
- 13 This is issued with the approval of consent appraisal Committee meeting held on 10/01/2012.
- 14 The capital investment of industry is Rs.1492.63/- Crores.


 (Milind Mhaikar, IAS)
 Member Secretary

To,

**M/s. Maharashtra State Power Generation Co. Ltd.,
 Thermal Power Station Parli(V) New Unit-I
 Tal:- Parli, Dist: Beed.**

Copy to:RO- MPCB Aurangabad /SRO- I-Parbhani.

- They are directed to ensure the compliance of consent conditions & submit the detail report of pollution control System within 1 month period.
- They are directed to take necessary follow up for submission of Bank Guarantee by the industry and submit the report within 1 month period.

CAO/Cess Branch/Master File

Received Consent fee of -

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	1000000/-	456861	22/10/2011	Bank of Maharashtra
2	1000000/-	456862	22/10/2011	Bank of Maharashtra
3	1000000/-	456863	22/10/2011	Bank of Maharashtra
4	1000000/-	456864	22/10/2011	Bank of Maharashtra
5	1000000/-	456865	22/10/2011	Bank of Maharashtra
6	972000/-	456866	22/10/2011	Bank of Maharashtra