

MAHARASHTRA POLLUTION CONTROL BOARD

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Kalpataru Point, 2nd - 4th Fl.

Opp. Cine Planet Cinema,

Near Sion Circle, Sion (E)

Mumbai-400 022.

Red/L.S.I

Date: 18/02/2012

Consent No: BO/JD(APC)/EIC No. AM-3526-12/O/CC- CAG-304

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, Paras,
Tq. Balapur, Dist. Akola.

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 - 31/12/2013.
2. The Consent is valid for the manufacture of -

Sr. No.	Product Name	Maximum Quantity	UOM
1.	Electricity generation	500 (250×2)	MW

3. CONDITIONS UNDER WATER ACT:

- (i) The daily quantity of trade effluent from the factory shall not exceed 13990 M³ (Condenser Cooling Water, Boiler Blow Downs, Cooling Tower Blow Down, Ash Pond Effluent and Other Effluent if any generated)
- (ii) The daily quantity of sewage effluent from the factory shall not exceed 970 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 quantity and operate and maintain the same continuously so as to achieve the quantity of the treated effluent to the following standards:

A. Industrial Effluent from Power Plant:-

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:

I. Condenser Cooling Water:			
1)	pH	Between	6.5 to 8.5
2)	Temperature	Not to exceed	5 Degree C. Higher than the intake water temperature.
3)	Free available Chlorine	Not to exceed	0.5 mg/l
II. Boiler Blow downs:			
1)	Suspended Solids	Not to exceed	100 mg/l.
2)	Oil & 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.
III. 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.
IV. Ash Pond Effluent:			
1)	pH	Between	6.5 to 8.5
2)	Suspended Solids	Not to exceed	100 mg/l.
3)	Oil & Grease	Not to exceed	20 mg/l.
4)	BOD 3 days	Not to exceed	100 mg/l.
5)	COD	Not to exceed	250 mg/l.
6)	TDS	Not to exceed	2100 mg/l.

(iv) **Trade Effluent Disposal:** The treated effluent shall be recycled /reused for dust suppression, ash handling, for preparation of ash slurry and dispose off into ash bund.

(v) **Sewage Effluent Treatment:** The applicant should operate 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.

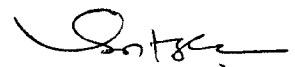
(1)	Suspended Solids	Not to exceed	100	mg/l.
(2)	BOD 3 days 27o C.	Not to exceed	100	mg/l.

(vi) **Sewage Effluent Disposal:** The treated domestic effluent should 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 Waste	Quantity	UOM	Treatment	Disposal
1	Bottom ash	806	T/Day	To brick Mfg.	
2	Fly ash	3226	T/Day	To brick Mfg.	
	Total Ash	4032	T/Day		

1) The factory authority shall comply with the provision of the utilization of ash generated from their activity as stipulated in the Notification issued by Ministry of Environment & Forest, Government of India vide Notification No. SO 763(E), dated 14-09-1999.



(viii) **Other Conditions:**

- 1) The industry should monitor effluent quality regularly.
- 2) Green Belt afforestation shall be done upto 33% on available open space land.

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	...	5775	CMD
(ii) Industrial processing	...	16721	CMD
(iv) Industrial Cooling/Boiler	...	46222	CMD
(v) Fire fighting	...	3115	CMD

The applicant should 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 should operate 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. Scrubber of sufficient capacity shall be provided to all source of TPM/SPM.
2. ESP's of sufficient capacity shall be provided to coal based boilers.
3. Coal handling system of adequate capacity shall be provided with the dust collectors and automatic water sprinkling system.
4. Spraying of water on all working area/ dump area/ stack.

Standards for Emissions of Air Pollutants:

(i) SPM/TPM	Not to exceed	100	mg/Nm ³
(ii) SO ₂	Not to exceed	96000	Kg/day.
(iii) NH ₃	Not to exceed	50.0	ppm.
(iv) NO _x	Not to exceed	150.0	mg/Nm ³ .

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

Sr. No.	Type Of Fuel	Quantity	UOM
1	Coal	9600	MT/Day
2	Furnace Oil	84.62	MT/day

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

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

- (iii) The applicant should 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.

(iv) The industry should 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.

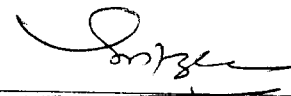
(vi) **Other Conditions:**

1. The coal handling system shall be converted with proper hooding and ventilation arrangement connected to dust suppress agent so as not to allow any fugitive emissions.
2. A green belt with tree plantation shall be maintained upto a distance not less than 200 Mtrs around Thermal Power Plant.
3. There shall not be any fugitive emissions.
4. The factory authorities shall install a separate interlinked metering system showing the consumption of energy for operation of domestic and 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 on each 10th of January, April, July & October.
5. The firm shall provide continuous flow meter for the measurement of the flow of the effluent.
6. The industry shall not cause any nuisance in surrounding area.
7. The industry shall monitor stack emissions & ambient air quality regularly.
8. Industry shall provide RCC roads for CHP area.
9. Industry shall provide Environmental Friendly road transportation by adopting mechanical type closed truck for transportation of mineral as well as Ash with effect from 01/04/2012.
10. The applicant shall install online continuous monitoring system for process stack emission analysis and same shall be directly connected to MPCB website <http://mpcb.gov.in>, as well as to the respective Regional Office within 3 months period and operate the same regularly.
11. The applicant shall install three continuous automatic ambient air & micrometeorological monitoring station at location indicated by State Board to be set up & operate at its own cost measure SO₂, NO_x & Particulate Matter. These CAAQMS shall also have necessary provision of networking to the Air Quality Monitoring network of MPCB.

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

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

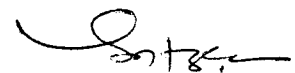
Sr. N.	Type Of Waste	Quantity	UOM	Disposal
1	5.1 Used/Spent Oil	600	Lits./M	By sale to authorized Re-processor/ CHWTSDF.
2	Resin	600	Kg/M	By sale to authorized Re-processor/ CHWTSDF.



- a. 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.

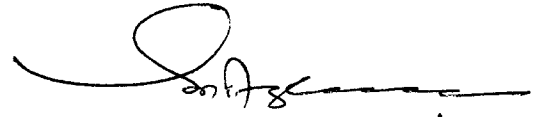
7. Industry shall comply with following additional conditions:

- 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. As 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. This consent should not be constructed as exemption from obtaining necessary NOC from any other Government agencies as may deemed fit necessary.
9. The applicant shall comply with the condition of Environmental Clearance & submit the progress report regularly.
10. Industry shall submit an irrevocable Bank Guarantee of Rs. 5,00,000/- (Five Lacs only) at Regional Office, Amravati in 15 days against the installation of CAAQM within four months period.
11. Industry shall submit an irrevocable Bank Guarantee of Rs. 50,00,000/- (Fifty Lacs only) at Regional Office, Amravati in 15 days against the O&M of air pollution control system so as to achieve the consented standards.
12. This is issued with approval of Consent Appraisal Committee meeting of the Board held on 31.01.2012.
13. The total Capital investment of the industry is Rs. 3065.305/-Cr.

This consent is issued as per the office note dated 02/02/2012 approved by the Hon'ble Chairman of the Board.



(V.M Motghare)
Joint Director (Air Pollution Control)

18/2/2012

To,
M/s. Maharashtra State Power Generation Co. Ltd.
Thermal Power Station Paras,
Tq. Balapur, Dist. Akola.

Copy to:
RO- MPCB Amravati/ SRO-MPCB Akola -
- They are directed to ensure the Compliance of consent conditions 10&11 and obtain the Bank Guarantee of Rs. 5,00,000/- and 50,00,000/- from the industry & submit the detail report of performance & evaluation within 1 month.

CAO/Cess Branch/Master File

Received Consent fee of -

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On	Remarks
1	1,22,61,320/-	431567	27/12/2011	SBI	DD no. 431567 To 431579
2	2,55,040/-	431830	10/02/2012	SBI	