

MAHARASHTRA POLLUTION CONTROL BOARD

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Mumbai- 400 022.

RED/LSI

Consent No. BO/RO-Pune/AST/EIC-PN-5043-09/E/CG- CAC- 10

Date: 14 / 11 / 2011

Consent to Establish under Section 25 of the Water (Prevention & Control of pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorisation / Renewal of Authorisation 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. Hindustan Electricity Generation Company Pvt. Ltd.,
Sr. No. 613-631, 634-637, 644, 645, 650-652, 799-818,
836 of Navlakhumbre and Sr. No. 11, 12, 23, 25,
81 of Vill. Badhalwadi, Tal. Maval, Dist. Pune.

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 Establish is granted for a period upto – Commissioning of the Unit or five years which ever is earlier.

"Consent to Establish will be operational only after obtaining Environmental Clearance from competent authority by the applicant and subject to the compliance of conditions stipulated in an Environmental Clearance including conditions which may be more stringent, if stipulated by/in the Environmental Clearance."

2. The Consent is valid for the manufacture of -

Sr.	Products	Max. Qty.
1	Electricity (Natural Gas based Plant)	355 MW

3. CONDITIONS UNDER WATER (PREVENTION & CONTROL OF POLLUTION) ACT, 1974:

(i) The daily quantity of trade effluent generated from the above activity shall not exceed 495 M³.

(ii) The daily quantity of sewage effluent from the factory shall not exceed 28.80 M³.

(iii) Trade Effluent :

Treatment : The applicant shall treat effluent generated from above said activity in the 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 :

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)	Copper (Total)	Not to exceed	1 mg/l.
5)	Iron (Total)	Not to exceed	1 mg/l.
6)	Zinc	Not to exceed	1 mg/l.
7)	Chromium(Total)	Not to exceed	0.2 mg/l.
8)	Phosphate	Not to exceed	5 mg/l.

- (iv) **Trade Effluent Disposal :** The treated effluent shall be recycled/ reused in process and remaining shall be reused on land for gardening within factory premises only. Industry shall acquire the adequate land for disposal of treated effluent. In no case, effluent shall find its way to any water body directly/indirectly at any time.
- (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 27° C. | Not to exceed | 100 | mg/l. |
- (vi) **Sewage Effluent Disposal :** The treated domestic effluent shall be soaked into soak pit which shall be got cleaned periodically. Overflow if any shall be used on land for gardening / plantation only.
- (vii) **Non-Hazardous Solid Waste :** NIL
- (viii) **Other conditions :** The industry shall monitor effluent quality regularly.
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 | ... | 36 | CMD |
| (ii) Industrial Processing | ... | 417.84 | CMD |
| (iii) Industrial Cooling & Boiler | ... | 154.32 | CMD |
| (iv) Agriculture/Gardening | ... | --- | 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 (PREVENTION & CONTROL OF POLLUTION) ACT, 1981 :**
- (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 :** Gas turbine exhaust, GT shall be provided with dry low NOx combustor or with water injection.
- B) **Standards for Emissions of Air Pollutants :**
- | | | | | |
|-----|----------------------|---------------|----|-----|
| (i) | NOx emission | Not to exceed | 75 | ppm |
| | at 15% excess oxygen | | | |
- C) **Conditions for D.G. Set :** NIL.
- (ii) The applicant shall observe the following fuel pattern :-
- | | | |
|---------------|---------------------|------------------|
| <u>Sr.No.</u> | <u>Type of Fuel</u> | <u>Quantity</u> |
| 1] | Natural Gas | 2312.6 MM Btu/hr |
- (iii) The applicant shall erect the chimney(s) of the following specifications :-
- | | | |
|---------------|-------------------------------|----------------------|
| <u>Sr.No.</u> | <u>Chimney attached to</u> | <u>Height in mt.</u> |
| 1. | Heat Recovery steam Generator | 35 (By pass stack) |
| 2. | Heat Recovery steam Generator | 60 |
- (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 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 industry should not cause any nuisance in surrounding area.
- 2) The industry should monitor stack emissions such as NO_x and ambient air quality regularly.
- 3) The applicant shall install continuous monitoring equipments for stack emission analysis and submit a report on fortnightly basis to the respective Regional Office/ Sub-Regional Office.
- 4) The applicant shall install one continuous automatic ambient air and micrometeorological monitoring station at prominent downwind direction indicated by State Board to be set up and operate at its own cost measure SO₂, NO_x and 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 applicant shall handle hazardous wastes as specified below:


Sl.	Item No (Sch-I)	Type of Waste	Quantity	Disposal
01	5.1	Used/spent oil	330 Lit/M	Sale to authorized reprocessor

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 :**

1. 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.
2. The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a yearly statement by 30th September every year on available open plot area, number of trees surviving as on 31st March of the year and number of trees planted by September end.
3. 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.
4. 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.
5. 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.
6. 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.
7. The applicant shall make an application for renewal of the consent at least 60 days before the date of expiry to the consent.
8. 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 per the provisions of rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992.
9. An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
10. 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.
11. 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.

12. Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
13. 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. The applicant shall not take any effective steps towards implementation of the project before obtaining Environmental Clearance as per EIA notification 2006 and amendments thereto. If any non-compliance of the conditions of consent to Establish observed, the Board will initiate appropriate legal action including forfeiture of bank guarantee, revocation of consent & further action.
10. The applicant shall obtain Consent to Operate before Actual Commencement of the production activity.
11. The consent is issued pursuant to the decision of Consent Appraisal Committee meeting of Board held on 09.11.2011.
12. The consent is issued without prejudice to any order/s is or being passed in the PIL No. 115/2010 or any other proceedings filed against you.
13. This Board reserves the right to amend, revoke or add any conditions in this consent and the same shall be binding on the Applicant.
14. The capital investment of the power plant is Rs. 1200 Crs.


(Milind Mhaikar)
Member Secretary

To,
M/s. Hindustan Electricity Generation Company Pvt. Ltd.,
Sr. No. 613-631, 634-637, 644, 645, 650-652, 799-818,
836 of Navlakumbre and Sr. No. 11, 12, 23, 25,
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Copy to:

RO-Pune / SRO-Pune-II/CAO/ Cess Branch/ Master File

Received Consent fee of -

Amount	D.D. No.	Date	Drawn on
Rs. 9,00,000/-	232642	11.11.2009	Oriental Bank of Commerce
Rs. 2,24,000/-	232643	11.11.2009	Oriental Bank of Commerce
Rs. 76,000/-	232647	11.11.2009	Oriental Bank of Commerce
Rs. 9,00,000/-	404080	16.11.2011	Oriental Bank of Commerce
Rs. 3,00,000/-	404081	16.11.2011	Oriental Bank of Commerce