

# MAHARASHTRA POLLUTION CONTROL BOARD

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RED/LSI

Consent No. BO/JD(APC)/ EIC NO.NK-12244-12/R/CC- 833 Date: 21/01/2013

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. Larsen & Toubro Ltd.,**  
**Plot No.A-10, MIDC Nagapur, Ahmednagar,**  
**Dist: Ahmednagar.**

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 – 31.07.2015.
2. The Consent is valid for the manufacture of -

| Sr. No. | Product                                 | Maximum Quantity |
|---------|---|------------------|
| 1.      | Switch Boards<br>(Low & Medium Voltage) | 1883 Nos./Month  |

3. **CONDITIONS UNDER WATER ACT:**

- (i) The daily quantity of trade effluent from the factory shall not exceed 20.0 m<sup>3</sup>
- (ii) The daily quantity of sewage effluent from the factory shall not exceed 35.0 m<sup>3</sup>.
- (iii) **Trade Effluent Treatment:** The applicant shall provided 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:

|     |                      | Between       |            |
|-----|----------------------|---------------|------------|
| 1   | pH                   |               | 5.5 to 9.0 |
| 2   | Suspended Solids     | Not to exceed | 100 mg/l.  |
| 3   | BOD 3 days 27 Dec C. | Not to exceed | 100 mg/l.  |
| 4   | COD                  | Not to exceed | 250 mg/l.  |
| 5   | Oil & Grease         | Not to exceed | 10 mg/l.   |
| 6   | TDS                  | Not to exceed | 2100 mg/l  |
| 7   | Chlorides            | Not to exceed | 600 mg/l   |
| 8.  | Sulphates            | Not to exceed | 1000 mg/l. |
| 9.  | Cyanide              | Not to exceed | 0.2 mg/l.  |
| 10. | Copper               | Not to exceed | 3.0 mg/l.  |
| 11. | Zinc                 | Not to exceed | 5.0 mg/l.  |
| 12. | Nickel               | Not to exceed | 3.0mg/l.   |

- (iv) **Trade Effluent Disposal:** The treated effluent shall be recycled / re-used in the process to the maximum extent and remaining shall be used on land for plantation in the premises only. There shall not be any discharge out side the factory 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 27° C. Not to exceed 100 mg/l.
- (vi) **Sewage Effluent Disposal:** The treated effluent shall be recycled / re-used in the process to the maximum extent and remaining shall be used on land for plantation in the premises only. There shall not be any discharge outside the factory premises.

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

| Sr. No. | Type of Waste         | Quantity | Treatment | Disposal                 |
|---------|-----------------------|----------|-----------|--------------------------|
| 1       | Sheet steel scrap     | 475 MT/A | --        | Sale to authorized party |
| 2       | Copper strip Scrap    | 51 MT/A  | --        | Sale to authorized party |
| 3       | Aluminum strips Scrap | 66 MT/A  | --        |                          |
| 4       | Packing waste (wood)  | 302 MT/A | --        | Sale to authorized party |
| 5       | PVC wire Scrap        | 7 MT/A   | --        | Sale to authorized party |
| 6       | General Garbage       | 68 MT/A  | ...       | Sale to authorized party |

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

|                         |          |
|-------------------------|----------|
| Domestic                | 45.0 CMD |
| Industrial Processing   | 20.0 CMD |
| Industrial cooling      | 20.0 CMD |
| Agriculture / Gardening | 50 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:**

- 1) Scrubber provided to PTP Exhaust, dust collector provided to grinding & bus bar polishing section and all other sources of emission shall be operated & maintained continuously so as to achieve prescribed standards.
- 2) Acoustic enclosure provided to D.G. Set shall be operated & maintained continuously so as to achieve prescribed standards.
- 3) There shall not be any secondary emission.

**B) Conditions for D.G. Set**

- a. Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
- b. 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.
- c. 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 75 dB(A) during day time and 70 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.
- d. 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.
- e. Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
- f. 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
- g. D.G. Set shall be operated only in case of power failure
- h. The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.

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

- (i) SPM/TPM Not to exceed 150 mg/Nm<sup>3</sup>  
(ii) SO<sub>2</sub> Not to exceed 18 kg/day

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

| <u>Sr.No.</u> | <u>Type of Fuel</u> | <u>Quantity</u> |
|---------------|---------------------|-----------------|
| 1.            | HSD                 | 1000 Ltrs./day  |
| 2.            | LPG                 | 52 MT/year      |
| 3.            | SF6 gas             | 12 MT/Year      |

(iv) **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.            | Powder Coating Oven              | 10                     |
| 2.            | PTP Exhaust                      | 10                     |
| 3.            | Hot water generator              | 10                     |
| 4.            | PTP Drying Oven                  | 10                     |
| 5.            | PTP drying oven exhaust          | 10                     |
| 6.            | D.G. Set 500 KVA -2 Nos.         | 16 each                |
| 7.            | D.G. Set 100 KVA -1 No.          | 10                     |
| 8.            | Firefighting Diesel engine stack | 5.5*                   |

(\* above roof top of the building in which it is installed)

- (v) 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.
- (vi) 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.
- (vii) **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.

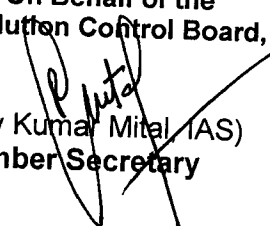
**6. CONDITIONS UNDER HAZARDOUS WASTE (MH & TM) RULES, 2008:**

| Sr. No. | Item No. of Process Generating H.W. as per schedule-I | Type of Waste  | Quantity     | Disposal   |
|---------|---|--|--------------|--|
| 1       | 34.3,   | ETP Sludge   | 16.0 T/Y     | CHWTSDf  |
| 2       | 12.5  | Phosphate sludge   | 4 Ton/year   | CHWTSDf  |
| 3       | 5.1   | Waste Oil  | 1500 Ltrs./Y | Sale to authorized MoEF/MPCB Recycler/re-processor |
| 4       | 5.2   | Oil Contaminated waste   | 3.7 T/Y      | CHWTSDf  |
| 5       | 33.3  | Discarded Containers of Haz. Waste, Oil Filters (Oil/Chemical) | 400 Nos./Y   | CHWTSDf  |
| 6       |   | Grinding dust  | 0.75 kg/yr   | CHWTSDf  |
| 7       | 22.2  | Pakaging waste like polythene sheets thermocol                 | 8 tons/yr    | 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 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, no. of trees surviving as on 31<sup>st</sup> March of the year and no. of trees planted by September end.
  - (ii) The applicant shall provide for an alternate electric power source sufficient to operate all pollution control facilities installed by he applicant and operate the same in case of power failure to maintain compliance with the terms and conditions of the consent. In the absence of same, the applicant shall stop, reduce or otherwise, control production to abide by terms & conditions of this consent regarding pollution levels.
  - (iii) **The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent.** 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 firm shall submit MPCB, the Environmental Statement Report for the financial year ending 31<sup>st</sup> March in the prescribed Form-V as pre the provisions of rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992 before 30<sup>th</sup> September every year.
  - (v) 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. The applicant shall also submit a comparative statement of designed power and chemical consumptions vis-a vis actual power and chemical consumption along with Environmental statement.
  - (vi) 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. Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
  - (vii) 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. An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
  - (viii) 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.
  - (ix) 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.
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 has been issued with the approval of consent committee meeting held on 04.01.2013, subject to condition that the consent has been granted without prejudice to the decision being taken by appellate authority, Environment Department, Govt. Of Maharashtra and will be accordingly further modified /reviewed.
11. The total capital investment of industry is Rs.89.30 /- Crore (Capital Investment of existing unit is Rs. 64.22/- crore and capital investment of the expansion unit is Rs.25.08/-).
12. This consent is issued pursuant to the decision of Consent Committee meeting of the Board held on 04.01.2013 and with the approval of the Hon'ble Chairman of the Board.

For and On Behalf of the  
Maharashtra Pollution Control Board,

  
(Rajeev Kumar Mital IAS)  
Member Secretary

To,  
M/s. Larsen & Toubro Ltd.,  
Plot No.A-10, MIDC Nagapur, Ahmednagar,  
Dist: Ahmednagar.

Copy to:

- 1) Regional Officer, MPCB, Nashik, 2) Sub-Regional Officer, Ahmednagar  
- They are directed to submit the performance report along with recent stack monitoring, AQM, Noise monitoring and compliance of consent conditions within one month period.

3) Chief Accounts Officer, MPCB, Mumbai

4)Received Consent fee of –

Consent fees received as per revised Consent fee GR of Env. Deptt, GoM dtd.25.08.2011.

| Amount         | D.D.No.                                     | Date       | Drawn on |
|----------------|---|------------|----------|
| Rs.2,75,000/-* | 997616                                      | 25.05.2012 | SBI      |
| Rs.1,00,000/-  | Previous balance consent fees in the Board. |            |          |

5] Cess Branch, MPCB.