

MAHARASHTRA POLLUTION CONTROL BOARD

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Kalpataru Point, 3rd & 4th floor, Sion- Matunga
Scheme Road No. 8, Opp. Cine Planet Cinema,
Near Sion Circle, Sion (E),

Mumbai - 400 022

Red/L.S.I

Date: 27/12/2012

Consent No: BO/JD(APC)/EIC No.NM-4157-12/E/CC-723

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 Authorization / Renewal of Authorization under Rule 5 of the Hazardous Wastes (Management, Handling & Transboundry Movement) Rules 2008

[To be referred as Water Act, Air Act and HW (M&H) Rules respectively].

.....
CONSENT is hereby granted to

M/s. Larsen and Toubro Ltd.
Automation campus, Plot No. A-600,
shil Mahape Road, TTC Ind.
Area Navi Mumbai, 400 710

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 up to commissioning of the unit or 5 year which ever is earlier
2. The Consent is valid for the-

Sr. No.	Product Name	Area	UOM
1	Electrical Panel Board	1800	Nos/Year
2	Air Circuit breakers (ACBs)	36,000	Nos/Year
3	Moulded case circuit breakers (MCCBs)	6,000	Nos/Year
4	Switchgear items & accessories	4,32,000	Nos/Year

3. CONDITIONS UNDER WATER ACT:

- (i) The daily quantity of trade effluent from the factory shall not exceed 140 M³.
- (ii) The daily quantity of sewage effluent from the factory shall not exceed 35 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:

Sr.no	Parameter	Limits
1	pH	Between 5.5 to 9.0
2	Suspended Solids	Not to exceed 100 mg/l.
3	BOD 3 days 27 Deg. 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	Total Dissolved Solids	Not to exceed 2100 mg/l.
7	Chlorides	Not to exceed 600 mg/l.
8	Sulphate	Not to exceed 1000 mg/l.

- (iv) **Trade Effluent Disposal:** The treated industrial effluent shall be recycled to the maximum extent and remaining treated effluent shall be sent to CETP. There shall not be any discharge outside 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.

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|-----|-------------------|---------------|-----|-------|
| (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.

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

Sr. No.	Type Of Waste	Quantity	UOM	Disposal
1	Steel	400.00	MT/A	By Sale
2	Aluminium	20.00	MT/A	By Sale
3	Copper	100.00	MT/A	By Sale
4	Brass	1.00	MT/A	By Sale
5	Phosphor Bronze	0.50	MT/A	By Sale
6	Canteen Waste	75.00	MT/A	Sent to dumping site
7	Garden waste	50.00	MT/A	Used for prepari compost within premise

(viii) **Other Conditions:**

- The unit shall carry out monthly monitoring of treated domestic as well as industrial effluent and submit the report of the same to the Board regularly
- The unit shall take necessary efforts for segregation of solid waste at source only and disposal salable waste regularly. The records showing waste segregation at source to be maintained.
- The unit shall take necessary efforts regarding rain water harvesting every monsoons.

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	...	50.0 CMD
(ii) Industrial Processing	...	150.0 CMD
(iii) Industrial Cooling	...	30.0 CMD
(iv) Industrial Processing & floor washing	...	0.0 CMD
(iv) Agriculture / Gardening	...	0.0 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:

Control Equipment: -

1. Fume extraction system followed by dust collection of sufficient capacity shall be provided at all dust/fume generating location and shall be operate properly and continuously.
2. There shall not any secondary (fugitive) emissions

b. Conditions for D.G. Set

- 1] Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
- 2] 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.
- 3] 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 night time. Day time is reckoned between 6 am to 10 pm and Night time is reckoned between 10 pm to 6 pm.
- 4] 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.
- 5] Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
- 6] 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.
- 7] D.G. Set shall be operated only in case of power failure.
- 8] 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/Nm³
(ii) SO₂ Not to exceed 12 Kg/Day.

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

<u>Sr.No.</u>	<u>Type of Fuel</u>	<u>Quantity</u>
1.	Diesel (HSD)	25 Lit/Hr

(ii) 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	Scrubber	3.00
2	Scrubber	3.00
3	DG Set (1250 KVA X 2 Nos)	5.0 Above roof
4	DG Set 160 KVA	3.5 Above roof

6. 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.
7. 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.
- i) The industry shall take all necessary precautions to control noise pollution in the industrial activities and also nuisance due to vibration generated due to hammering operations. The industry shall take suitable acoustic measures including shielding enclosures noise barriers etc. to control the noise levels within norms stipulated to avoided nuisance in the surrounding

(iii) 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.

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

<u>Sr. No.</u>	<u>Type Of Waste</u>	<u>Quantity</u>	<u>UOM</u>	<u>Disposal</u>
1	5.1 Used /spent oil	3000.00	Lit/Year	Auth.Reprocesso
2	5.2 Wastes/residue containing oil	3000.00	Kg/Year	Auth.Reprocesso
3	34.3 Chemical sludge from wa water treatment	8000.00	Kg/Year	CHWTSDF
4	33.3 Discarded containers / barre liners	150.00	Nos/Year	CHWTSDF
5	34.2 Toxic metal-containing resid	60.00	Lit/Year	CHWTSDF

	from water purification			
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Treatment: - NIL

1. The authorization is hereby granted to operate a facility for collection, storage, transport & disposal of hazardous waste.
2. The industry should comply with the HAZARDOUS WASTE (MANAGEMENT, HANDLING & TRANSBOUNDARY MOVEMENT) RULES, 2008.
 - 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.
 - b. The unit has to display and maintain the data online outside the factory main gate in Marathi & English both on a 6'x4' display board in the manner and the report of the compliance along with photograph shall be submitted to this office & concerned Regional Office/ Sub Regional Office.
 - c. It shall be ensured that the Hazardous waste is handled, managed & disposed of strictly in accordance with the HAZARDOUS WASTE (MANAGEMENT, HANDLING & TRANSBOUNDARY MOVEMENT) RULES, 2008 and shown & submitted to the Board as & when asked for.

9. Industry shall comply with following general 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 per 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.

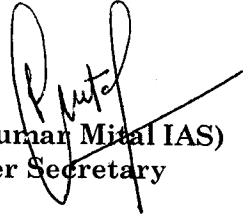
x. The applicant shall install a separate electric meter showing the consumption of energy for operation of domestic and industrial effluent treatment plants and air pollution control system. A register showing consumption of chemicals used for treatment shall be maintained.

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

10.1 This issued with approval of Consent Appraisal Committee meeting of the Board held on dtd. 05/12/2012.

11. The Capital investment of the industry is Rs.106.22 Crs (Existing Rs. 57.06 Crs + Proposed Rs.49.16 Crs)


(Rajeev Kumar Mital IAS)
Member Secretary

To,
M/s. Larsen and Toubro Ltd.
Automation campus, Plot No. A-600,
shil Mahape Road, TTC Ind.
Area Navi Mumbai, 400 710

Copy to:

- 1) Regional Officer/Sub-Regional Officer, MPCB, Navi Mumbai - they are directed to ensure the compliance of consent conditions .
- 3) Chief Accounts Officer, MPCB, Mumbai

Received Consent fee of

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	75000	017630	05 Jul 2012	Axis Bank