

MAHARASHTRA POLLUTION CONTROL BOARD

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Format no.1.0/Consent order No BO/JD(APC)/EIC No. 4710-13/Renewal/CAC - 5842
Date: 10.07.2013.

To,
M/s Larsen and Toubro Ltd
(Heavy Engineering)
Powai West Campus,
Saki Vihar Road Powai, Mumbai -400072

Subject: Consent to Operate RED/LSI category.

Ref : 1. Earlier Consent granted vide no. BO/PCI-II/ EIC No. MU-0902-08/R/CC- 679 dated 22/10/2008.
2. Minutes of CAC meeting held on 04.06.2013.

Your application: For Consent to Renewal.

Dated: 07.12.2012

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 under Rule 5 of the Hazardous Wastes (M, H & T M) Rules 2008 is considered and the consent is hereby granted subject to the following terms and conditions and as detailed in the schedule I, II, III & IV annexed to this order:

1. The consent is granted for a period from 31.12.2012 to 30.04.2017.
2. The actual capital investment of the industry is Rs. 347.50 Crs. (As per C. A. Certificates submitted by industry)
3. The Consent is valid for the manufacture of -

Sr. No.	Product /By-Product Name	Maximum Quantity in MT/A
1	Industrial Machinery	5497.00 Tons/Year

4. Conditions under Water (P&CP), 1974 Act for discharge of effluent:

Sr. no.	Description	Permitted quantity of discharge (CMD)	Standards to be achieved	Disposal
1.	Trade effluent	3.0	As per Schedule -I	Sewerage system provided by MCGM
2.	Domestic effluent	460.0	As per Schedule -I	Sewerage system provided by MCGM

5. Conditions under Air (P& CP) Act, 1981 for air emissions:

Sr. no.	Description of stack / source	Number of Stack	Standards to be achieved
1.	PGW	1	As per schedule -II
2.	Stress Relieving Furnace	1	

3	D.G.set (2x1250 KVA)	2
4	D.G.set (2x625 KVA)	2
5	D.G.set (1x500 KVA)	1
6	D.G.set (4x160 KVA)	4
7	D.G.set (1x100 KVA)	1

6. Conditions under Hazardous Waste (M, H & T M) Rules, 2008 for treatment and disposal of hazardous waste:

Sr. No.	Type Of Waste	Category	Quantity	UOM	Treatment	Disposal
1	5.1 Coolant	5.1	1,20,000	Ltr/Yr	-	SALE to authorized reprocessor /Recycler
2	5.1 Used/Spent oil	5.1	3000	Kg/Yr	-	SALE to authorized reprocessor / recycler
3	21.5 Waste from paint residues	21.5	19,200	Kg/Yr	-	CHWTSDF
4	Saw dust & cotton waste	5.2	2000	Kg/Yr	-	CHWTSDF
5	34.3 Chemical sludge from waste water treatment	34.3	400	Kg/Yr	-	CHWTSDF
6	Laboratory Waste	34.3	100	Ltr/Yr	-	CHWTSDF
7.	31.1 E- Waste	31.1	As & When Generated	-	-	Sent to E-Waste Authorized recycler/ reprocessor

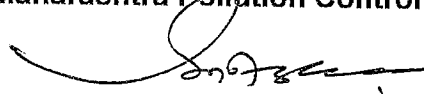
**7. Conditions under Non Hazardous and disposal of non hazardous waste:
NATURE, QUANTITY AND METHOD OF DISPOSAL OF NON-HAZARDOUS SOLID WASTE**

Sr.No.	Type of Waste	Disposed Quantity (Tones/Yr)	Disposal Method and its destination
1	Ferrous Scrap	1793.87	Disposal to scrap dealers through Tender/Auction
2	Non Ferrous Scrap	39.17	
3	Electrical Scrap	90.80	
4	Welding Waste	15.22	
5	Canteen Waste	200	Used for preparing bio-gas and compost within premises
6	Garden Waste	480	
7	Non Ferrous Metallurgical Waste	17.346	Sent to authorized agency

8. This Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.

9. This consent should not be construed as exemption from obtaining necessary NOC/permission from any other Government authorities.

For and on behalf of the
Maharashtra Pollution Control Board



(V.M. Motghare) 9/13/13
Member Secretary

Received Consent fee of

Sr. No.	Bank Name	DD No.	DD Dt.	Amount
1	Standard Chartered Bank	349229	22/11/2012	34,75,122.00
2	Standard Chartered Bank	446764	21/01/2013	1,75,000.00

Copy to:

1. Regional Officer – Mumbai and Sub-Regional Officer- Mumbai -III, MPCB, Mumbai. They are directed to ensure the compliance of the consent conditions.
2. Chief Accounts Officer, MPCB, Mumbai.
3. CC/CAC desk- for record & website updation purposes.

Schedule-I

Terms & conditions for compliance of Water Pollution Control:

1. A] As per your application, you have provided the Effluent Treatment Plant (ETP) with the design capacity of 5 CMD.

B] The Applicant shall operate the effluent treatment plant (ETP) to treat the trade effluent so as to achieve the following standards/ prescribed under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.

Sr No.	Parameters	Standards as per EP Act, 1986	Standards prescribed by Board (If any)
		Limiting Concentration in mg/l, except for pH	Limiting Concentration in mg/l, except for pH
01	pH	6.0-8.5	5.5 to 9.0
02	Suspended Solids	100	100
03	BOD (3 days 27oC)	100	100
04	COD	250	250
05	Oil & Grease	10	10
06	Total Dissolved Solids	2100	2100
07	Chloride	600	600
08	Sulphates	1000	1000

C] The treated trade effluent shall be disposed in the Municipal sewerage system provided by MCGM.

2) A] As per your consent application, you have provided the sewage treatment System with the design capacity of 500 CMD.

B] The Applicant shall operate the sewage treatment system to treat the sewage so as to achieve the following standards/ prescribed under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.

- | | | | |
|-----|---------------------------------|-----|-------|
| (1) | Suspended Solids. Not to exceed | 100 | mg/l. |
| (2) | BOD 3 days 27oC. Not to exceed | 100 | mg/l. |

C] The treated domestic effluent shall be disposed in to the Municipal sewer system provided by MCGM.

3) The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or and extension or addition thereto.

4) The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.

5) The Applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Cess Act, 1977 and as amended, by installing water meters, filing water cess returns in Form-I and other provisions as contained in the said act.

Sr. no.	Purpose for water consumed	Water consumption quantity (CMD)
1.	Industrial Cooling, spraying in mine pits or boiler feed	160 .0
2.	Domestic purpose	580 .0
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	5.0
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	00
5.	Gardening	300

- 6) The Applicant shall provide Specific Water Pollution control system as per the conditions of EP Act, 1986 and rule made there under from time to time.

Schedule-II

Terms & conditions for compliance of Air Pollution Control:

1. As per your application, you have provided the Air pollution control (APC) system. Following stack (s) and fuel pattern Observed.

Sr. No.	Stack Attached To	APC System	Height in Mtrs.	Type of Fuel	Quantity/ UoM	S %	SO ₂ Kg/Day
1.	PGW	Stack	31.5	PNG	28795 M3/day	10 ppm	0.882 Kg/Day
2.	Stress Relieving Furnace	Stack	30.5				
3	D.G.set (2x1250 KVA)	Stack	7*	Diesel	890 Ltrs/hr	2	333.34 Kg/Day
4	D.G.set (2x625 KVA)	Stack	5*				
5	D.G.set (1x500 KVA)	Stack	5*				
6	D.G. Set (4x160 KVA)	Stack	3*				
7	D.G. Set (1x100 KVA)	Stack	2*				

*Above the roof level of the bldg/shed in which it is installed.

2. The applicant shall operate and maintain above mentioned air pollution control system, so as to achieve the level of pollutants to the following standards:

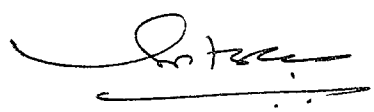
SPM/TPM	Not to exceed	150 mg/Nm ³ .
SO ₂	Not to exceed	334.22 Kg/Day
Acid Mist	Not to exceed	35 mg/Nm ³

3. The Applicant shall provide Specific Air Pollution control equipments as per the conditions of EP Act, 1986 and rule made there under from time to time. (Concern section shall mention specific control equipments)
4. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement/alteration well before its life come to an end or erection of new pollution control equipment.
5. The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).

Schedule-III
Details of Bank Guarantees

1. Industry shall submit the Bank Guarantee of Rs. 5/- Lakhs validity of one year period in the Board within one month period towards operation and maintenance of pollution control systems so as to achieve consent standards / and compliance of the same.

Sr. No	Consent (C to E/O/R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1	Renewal of consent to operate	Rs.5/- Lakhs	Within 15 days	Towards operation and maintenance of pollution control system so as to achieve consent standards	---	31.08.2017



Schedule-IV

General Conditions:

The following general conditions shall apply as per the type of the industry (Product wise).

- 1) 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.
- 2) Industry should monitor effluent quality, stack emissions and ambient air quality monthly/quarterly.
- 3) 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.
- 4) 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.
- 5) The applicant shall provide an alternate electric power source sufficient to operate all pollution control facilities installed 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.
- 6) 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.
- 7) An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- 8) The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent.
- 9) Industry shall strictly comply with the Water (P&CP) Act, 1974, Air (P&CP) Act, 1981 and Environmental Protection Act, 1986 and industry specific standard under EP Rules 1986 which are available on MPCB website(www.mpcb.gov.in).
- 10) The industry should comply with the Hazardous Waste (M, H & TM) Rules, 2008 and submit the Annual Returns as per Rule 5(6) & 22(2) of Hazardous Wastes (M,H &TM) Rules, 2008 for the preceding year April to March in Form-IV by 30th June of every year.

- 11) The industry shall constitute an Environmental cell with qualified staff/personnel/agency to see the day to day compliance of consent condition towards Environment Protection.
- 12) 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 downstream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system.
- 13) Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
- 14) 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.
- 15) 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) 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.
 - d) Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
 - e) 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
 - f) D.G. Set shall be operated only in case of power failure.
 - g) The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.
 - h) The applicant shall comply with the notification of MoEF dated 17.05.2002 regarding noise limit for generator sets run with diesel
- 16) The industry should not cause any nuisance in surrounding area.
- 17) 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.
- 18) The applicant shall maintain good housekeeping.
- 19) 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.

- 20) 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 of solid waste.
- 21) 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. The industry will not carry out any activity, for which this consent has not been granted/without prior consent of the Board.
- 22) 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.
- 23) The industry shall submit quarterly statement in respect of industries obligation towards consent and pollution control compliance's duly supported with documentary evidences (format can downloaded from MPCB official site).
- 24) The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
- 25) The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification dated. 16.11.2009 as amended.

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