

# MAHARASHTRA POLLUTION CONTROL BOARD

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Red/L.S.I

Date: 13/09/2013

Consent No: BO/JD(APC)/EIC No. PN-17725-13-13/O/CC-7683

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 & TM) Rules respectively].

CONSENT is hereby granted to

M/s. Emerson Climate Technologies (India) Ltd.  
(Ancillary Unit) Harpalwadi  
Tal: Karad, Dist. Satara-415519

located in the area declared under the provisions of the Water Act, Air act and Authorization under the provisions of HW(M, H & TM) Rules 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	Cylinder Head	5,28,000	Nos./Year
2	Piston	3,96,000	Sets/Year
3	Stator	18,00,000	Nos./Year
4	Rotor	18,00,000	Nos./Year
5	Bearing	5,28,000	Nos./Year
6	Body (Crank Case)	16,50,000	Nos./Year
7	Connecting Rod	1,98,000	Sets/Year
8	Shaft	16,50,000	Nos./Year
(1 set = 2 Nos.)			

### 3. CONDITIONS UNDER WATER ACT:

- (i) The daily quantity of trade effluent from the factory shall not exceed:  $32.5 \text{ M}^3$
- (ii) The daily quantity of sewage effluent from the factory shall not exceed -  $44.0 \text{ M}^3$
- (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.	Parameters	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	TDS	Not to exceed 2100 mg/l
7	Chlorides	Not to exceed 600 mg/l
8	Sulphates	Not to exceed 1000 mg/l
9	Copper	Not to exceed 3.0 mg/l
10	Zinc (as Cu)	Not to exceed 5.0 mg/l
11	Iron (as Fe)	Not to exceed 3.0 mg/l
12	Total Metal	Not to exceed 10.0 mg/l

(iii) **Trade Effluent Disposal:** The treated effluent shall be used on land for gardening. There shall not be any discharge outside the factory premises. The industry shall become member of CETP as and when required.

**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 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 Of Waste	Quantity	UOM	Treatment	Disposal
1	Aluminium Boring	45.0	MT/Annum	---	Sale to authorized scrap dealers
2	Metal Scrap	40.0	MT/Annum	---	
3	Ct Boring	3000.0	MT/Annum	---	
4	Steel Scrap	110.0	MT/Annum	---	
5	Wooden Scrap	240.0	MT/Annum	---	
6	Plastic Scrap	30.0	MT/Annum	---	
7	Plastic & MS Drums	36000	Nos./Annum	---	
8	Card Board/Paper Scrap	30.0	MT /Annum	---	
9	Copper wire scrap	25.0	MT /Annum	---	
10	Misc. Scrap	30.0	MT/Annum	---	

(viii) **Other Conditions:** Industry should 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:

(i) Domestic	55.0	CMD
(ii) Industrial Processing	36.0	CMD
(iii) Industrial cooling	20.0	CMD
(iv) Agriculture/Gardening	65.0	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:

**a) Control Equipment:**

- 1) Adequate fume extraction system followed by dust collector shall be provided to all source of SPM & shall be operate properly continuously
- 2) There shall not be any secondary (fugitive) emissions

**6. CONDITIONS FOR DG 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 75dB (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.
- 4] The applicant 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.

**Standards for Emissions of Air Pollutants:**

(i)	SPM/TPM	Not to exceed	150.0 mg/Nm <sup>3</sup>
(ii)	SO <sub>2</sub>	Not to exceed	87.0 Kg/Day

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

Sr. No.	Type of Fuel	Quantity	UOM
1	LDO	400	Lit./Day
2	F.O. (Thermopack)	400	Lit./Day
3	LPG	500	Kgs/Day
4	HSD	450	Lit./Hrs.

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

Sr. No.	Chimney Attached to	Height in Mtrs.
1	Boiler (Thermopack)	17
2	Decarb. Furnace - 2 Nos.	12.5 (each)
3	Varnish Oven	8.5
4	Stack Welding	8.5
5	DG Set (750 KVA) - 2 Nos.	3.5 (above the roof) - each
6	DG Set (110 KVA)	2.5 (above the roof)

(iii) 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.

(iv) 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.

(v) 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.

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

(i) The Industry shall handle hazardous wastes as specified below:

Sr. No.	Type Of Waste	Quantity	UOM	Disposal
1	5.1 Used/ spent oil	15000	Lit./Annum	Sale to MPCB authorized recycler/reprocessor
2	5.2 Oil Soaked Cotton Waste/residues	15.0	MT/Annum	CHWTSDF
3	11.4 Flue gas dust & other particulate	0.5	MT/Annum	CHWTSDF
4	11.5 Waste from treatment of slag & black drosses	2.4	MT/Annum	CHWTSDF
5	33.2 Container Sludge	1.2	MT/Annum	CHWTSDF
6	33.3 Discarded containers/Drums/barrel	3000	Nos./Annum	Sale after decontamination
7	34.3 ETP Sludge	2.9	MT/Annum	CHWTSDF
8	13.1 Process Dust	0.5	MT/Annum	CHWTSDF

9	3:3 Tank bottom sludge	2:0	MT/Annum	CHWTSDF
10	34.2 Spent Resin	0.5	MT/Annum	CHWTSDF
11	E-Waste	0.5	MT/Annum	Sale to approved MPCB recycler/reprocessor
12	B-4 Used Batteries	100	Nos./Annum	Sale to approved MPCB recycler/return back to supplier/manufacturer

(ii) 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 (M, H & TM) 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.
8. **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 30<sup>th</sup> day of September every year, the Environmental Statement Report for the financial year ending 31<sup>st</sup> 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.
- ix. 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.

9. The Board reserves the rights to add/amend/revoke any condition in this consent and the same shall be binding on the applicant.

10. The Consent is issued subject to the decision taken in the meeting of the Consent Committee of the board held on 06/09/2013.

11. You shall submit Bank Guarantee of Rs. 5/ Lakhs in favor of Regional Officer, Pune within 15 days towards Operation & maintenance of pollution control system. The Bank Guarantee shall be valid up to 30/04/2014.

12. This consent is issued with an overriding effect to the previous consent Issued by the Board vide no. BO/ APAE/EIC No. PN-8195-10/O/CC-274 dated 03/06/2011.

13. The Capital investment of the industry is Rs. 43.25 Crore (Existing 42.46 Crore + Expansion 0.79 Crore).

For and on behalf of the  
Maharashtra Pollution Control Board

(Rajeev Kumar Mital, IAS)  
Member Secretary

To,

M/s. Emerson Climate Technologies (India) Ltd.

(Ancillary Unit) Harpalwadi

Tal. Karad, Dist. Satara 415 519

Received Consent fee of -

Sr. No.	Amount (Rs.)	D.D. No.	Date	Drawn On
1	Rs. 5,100/-	001151	06/04/2013	IDBI Bank Ltd.

Copy to:

1. CAO/Cess Branch/Master File.

2. RO- MPCB, Pune/SRO-MPCB, Satara- They are directed to obtain the BG of Rs. 5/- Lakhs from the industry & submit the report within one month period.