


MAHARASHTRA POLLUTION CONTROL BOARD

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BO/JD(APC)/EIC No. NK-12551-12/CC-CAC-822

Date: 08 / 02 /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 (M&H) Rules respectively].

CONSENT is hereby granted to

M/s Bosch Ltd.
Plot no.75, MIDC Estate, Trimbak Road,
Satpur Nashik, Maharashtra-422007.

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 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	Fuel injectors and components	325	Nos./Year

3. CONDITIONS UNDER WATER ACT:

- (i) The daily quantity of trade effluent from the factory shall not exceed 426 M³.
- (ii) The daily quantity of sewage effluent from the factory shall not exceed 344M³.

(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:

1	pH	Between	5.5 to 9.0
2	BOD ₃ days 27°C	Not to exceed	100 mg/l
3	COD	Not to exceed	250 mg/l
4	Suspended Solids	Not to exceed	100 mg/l.
5	Oil & Grease	Not to exceed	10 mg/l
6	Sulphates	Not to exceed	1000 mg/l.
7	Chlorides	Not to exceed	600 mg/l.
8	Phosphates	Not to exceed	5 mg/l.
9	Total Chromium as Cr	Not to exceed	2 mg/l.
10	Hexavalent Chromium as Cr	Not to exceed	0.1 mg/l.
11	TDS	Not to exceed	2100 mg/l.
12	Cyanide	Not to exceed	0.2 mg/l.
13	Copper as Cu	Not to exceed	3 mg/l.
14	Iron (as Fe)	Not to exceed	3.0 mg/l.
15	Nickel (as Ni)	Not to exceed	3.0 mg/l
16	Zinc (as Zn)	Not to exceed	5.0 mg/l

(iv) **Trade Effluent Disposal:** The treated effluent shall be recycled/ reused back in the process up to maximum extent, remaining shall be used on land for gardening only within premises. There shall not be any discharge outside the factory premises and in no case trade effluent shall find its way into nearby stream /river. The industry shall become member of CETP as and when proposed.

(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 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.

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

Sr. No.	Type Of Waste	Quantity	UOM	Treatment	Disposal
1	Metal Scrap	325.00	MT/M	---	Sale
2	Brass Scrap	0.30	MT/M	---	Sale
3	Copper Scrap	0.18	MT/M	---	Sale
4	Packaging Material	25.00	MT/M	---	Sale

(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 amendment Rules, 2003 there under

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

(i) Domestic purpose	...	430.00 CMD
(ii) Water gets Polluted & Pollutants are Biodegradable	...	500.00 CMD
(iii) Water gets Polluted, Pollutants are not Biodegradable & Toxic	...	0.00 CMD
(iv) Industrial Cooling, spraying in mine pits or boiler feed	...	510.00CMD
(V) Gardening	---	30 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:

- I. Adequate fume extraction system followed by dust collector of sufficient capacity shall be provided at all dust generating locations and operated properly.
- II. Cyclone type dust collector of sufficient capacity followed by ventury and packed bed scrubber shall be provided to the incinerator.
- III. Scrubber with exhaust system of sufficient capacity shall be provided to process lines(Acidic pickling line and Alkaline degreasing line) shall be operate and maintain properly so as to achieve following air emission standards.
- IV. There shall not be any secondary (fugitive) emissions.

6. Standards for Stack Emissions:

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

Sr. No.	Type Of Fuel	Quantity	UOM
1	LPG	50.08	MT /M
2	Furnace Oil	9960.00	Liters /Day
3	HSD	40910.00	Liters /Day
4	Methanol	10625	Kg/M

- (ii) **Standards for Emissions of Air Pollutants:**

(i) SPM/TPM	Not to exceed	150 mg/Nm ³
(ii) Acid Mist	Not to exceed	35 mg/Nm ³
(iii) SO ₂	Not to exceed	1.34 T/day

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

Sr. No.	Chimney Attached To	Height in Mtrs.
1	D G set - 2 Nos, (830 KVA)	10.00
2	D G set- 3 Nos, (1000 KVA)	10.00
3	MTU-D G Set, 2 Nos, (2000 KVA)	32.00
4	Cummins-D G Set, 2 Nos, (2000 KVA)	32.00
5	Cummins-D G Set	22.00
6	Incinerator	30.00
7	Hot Water Generator	30.00
8	Carburizing Furnace	11.00
9	Hardening Furnace	11.00

- (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 and ambient air quality Regularly.

7. Conditions for D.G. Sets.

- 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 sitting 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.

8. CONDITIONS UNDER HAZARDOUS WASTE (MANAGEMENT, HANDLING & TRANSBOUNDRY 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	800.00	TPA	Sale to Authorized Re-Processor/At CHWTSDF
2	Grinding muck	140	TPA	CHWTSDF
3	Oil soaked cotton waste	8	TPA	CHWTSDF
4	12.5 Phosphate sludge	13.00	TPA	CHWTSDF
5	12.3 Spent bath/sludge containing sulphide, cyanide and to	65.00	TPA	Sale to authorized reprocessor/ CHWTSDF.
6	14.Nitrate-, or nitrite-containing sludge	10.00	TPA	CHWTSDF
7	20.1 Contaminated aromatic, aliphatic or naphthenic solvents	2.00	TPA	CHWTSDF / Sale to authorized recycler /At CHWTSDF
8	21.2 Fillers residues	0.01	TPA	CHWTSDF
9	33.3 Discarded containers / barrels / liners	4000.00	Nos/ Year	Sale to authorized reprocessor/ CHWTSDF
10	34.2 Spent oil exchange resins containing Toxic metal.	0.30	TPA	CHWTSDF
11	34.3 Chemical sludge from waste water treatment	165.00	TPA	CHWTSDF
12	Papers	270	TPA	Incineration in own facility/Within premises.
13	35.1 Filters and filter material which have organic liquid	1.5	TPA	CHWTSDF
14	36.2 Ash from incineration of hazardous waste	25	TPA	CHWTSDF
15	Glass wool	1	TPA	CHWTSDF
16	PPE	1	TPA	CHWTSDF
17	Class C-12 metal hydroxide sludge containing nitrate	175	TPA	CHWTSDF
18	Class B-1 used lapping paste	1.8	TPA	CHWTSDF
19	Bleaching powder	0.2	TPA	CHWTSDF
20	Carbon powder	0.2	TPA	CHWTSDF
21	Contaminated solvent muck	0.5	TPA	CHWTSDF
22	Graphite rod	0.2	TPA	CHWTSDF

23	Activated Carbon powder	0.2	TPA	CHWTSDF
24	Coolant Waste	150	TPA	CHWTSDF/Treatment within plant
25	Shoot blasting dust	0.3	TPA	CHWTSDF
26	Used extinguishing powder	0.6	Kg/D	CHWTSDF
27	Deburring ceramic stones	0.3	TPA	CHWTSDF
28	Metal chips	600	TPA	Sold to scrap.
29	E-Waste	30	TPA	Sold to authorized recycler

(ii) Treatment: - NIL

1. The authorization is hereby granted to operate a facility for collection, storage, transport & disposal of hazardous waste.
 - 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.

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 pre 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.

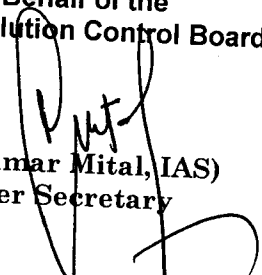
10. This Board reserves the right to amend or add any conditions in this consent and the same shall be binding on the Applicant.

11. Industry shall submit the Bank Guarantee of Rs. 10 Lakhs validity of one year period in the Board within one month period towards operation and maintenance of pollution control system and compliances of consent conditions.

12. This consent is issued with the approval of Consent Appraisal Committee Meeting of the Board in its meeting held on 31.01.2013.

13. The total Capital investment of the industry is Rs.1483.16 Crores

For and On Behalf of the
Maharashtra Pollution Control Board,


(Rajeev Kumar Mital, IAS)
Member Secretary

To,
M/s Bosch Ltd.,
Plot no.75, MIDC Estate, Trimbak Road,
Satpur Nashik, Maharashtra-422007.

Copy to:

- 1) Regional Officer, MPCB, Nashik. - He is instructed to submit the Compliance report of the industry within one month period.
- 2) Sub-Regional Officer, Nashik MPCB,-
- 3) Chief Accounts Officer, MPCB, Mumbai
- 4) Cess Branch/Master File

Industry has paid the consent fees as per the Environment Department G.R.dated 25.08.2011.

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	29,66,420/-	841742	27 Oct 2012	Canara Bank