


# MAHARASHTRA POLLUTION CONTROL BOARD

Tel: 24010437/24020781/24014701		Kalpataru Point, 2 <sup>nd</sup> - 4 <sup>th</sup> Fl.
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Website: <a href="http://mpcb.gov.in">http://mpcb.gov.in</a>		Near Sion Circle, Sion (E)
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Red/L.S.I

Date: 01/11/2012

Consent No: BO/JD(APC)/EIC No. **PN-12158-11/O/CC-MPCB/12/00491**

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. Bharat Electronics Ltd.,  
NDA Road Pashan,  
Dist. Pune 411 021**

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: 31/12/2016.**

**2. The Consent is valid for the manufacture of -**

Sr. No.	Product Name	Maximum Quantity	UOM
1	Mg MnO <sub>2</sub> Batteries	1,20,000	Nos/Y
2	Li So <sub>2</sub> Batteries	1,00,000	Nos/Y
3	NiCd Batteries	1,30,000	Nos/Y
4	Li-Ion Batteries	1,20,000	Nos/Y
5	LH-30 LRF & other laser products	2,500	Nos/Y
6	HHTI Thermal imager, PCB & other assembly	2,000	Nos/Y
7	AERV integration	40	Nos/Y
8	X-Ray Tube	4,000	Nos/Y
9	X-Ray Cables	2,000	Nos/Y

**3. CONDITIONS UNDER WATER ACT:**

- The daily quantity of trade effluent from the factory shall not exceed 25.0 M<sup>3</sup>.
- The daily quantity of sewage effluent from the factory shall not exceed 40.0 M<sup>3</sup>.

14	Empty drums	40.00	Nos./Annum	sold to authorized Vendor
15	Battery boxes	500.00	Kg/Annum	sold to authorized Vendor
16	HDPE oven bags	200.00	Kg/Annum	sold to authorized Vendor
17	SS & MS Scrap	2000	Kg/Annum	sold to authorized Vendor

(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                 | ... | 42.0 CMD |
| (ii) Industrial Processing   | ... | 27.0 CMD |
| (iii) Industrial Cooling     | ... | 10.0 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:

**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. There shall not be any secondary (fugitive) emissions.

**6. 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.

(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	BOD	Not to exceed	30 mg/l
3	COD	Not to exceed	250 mg/l
4	Oil & Grease	Not to exceed	10 mg/l
5	Suspended Solids	Not to exceed	100 mg/l
6	TDS	Not to exceed	2100 mg/l
7	Sulphate	Not to exceed	1000 mg/l
8	Chloride	Not to exceed	600 mg/l
9	Cr +6 (as cr)	Not to exceed	0.10 mg/l
10	Total Chromium	Not to exceed	2.0 mg/l
11	Cynide	Not to exceed	0.2 mg/l
12	Nickel	Not to exceed	5.0 mg/l

(iv) **Trade Effluent Disposal:** The treated industrial effluent shall be recycled to the maximum extent and remaining treated effluent shall use on land for gardening. 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

- (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 domestic effluent shall be treated in sewage treatment plant. It shall be used on land for gardening / plantation only.

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

Sr. No.	Type Of Waste	Quantity	UOM	Disposal
1	Paper scrap	1500.00	Kg/Annum	sold to authorized Vendor
2	Copper scrap	150.00	Kg/Annum	sold to authorized Vendor
3	Nickel scarp	100.00	Kg/Annum	sold to authorized Vendor
4	Brass scrap	100.00	Kg/Annum	sold to authorized Vendor
5	Aluminium scrap	300.00	Kg/Annum	sold to authorized Vendor
6	Packing boxes wood	1000.00	Nos./Annum	sold to authorized Vendor
7	Plastic scrap	400.00	Kg/Annum	sold to authorized Vendor
8	rubber scrap	50.00	Kg/Annum	sold to authorized Vendor
9	Non ferrous scrap	300.00	Kg/Annum	sold to authorized Vendor
10	Optics/glass scrap	100.00	Kg/Annum	sold to authorized Vendor
11	Dusters	75.00	Kg/Annum	sold to authorized Vendor
12	Corrugated boxes	200.00	Kg/Annum	sold to authorized Vendor
13	Broken Jigs	100.00	Kg/Annum	sold to authorized Vendor

- 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

**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	100	Kg/day

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

Sr. No.	Type Of Fuel	Quantity	UOM
1	HSD	4800.0	Lit/Day

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

Sr. No.	Chimney Attached To	Height in Mtrs.
1	Scrubber stack S-1 to S-8 (X-ray/Chemical section)	12.00
2	Fume extraction stack S-9 to S-11 (EO assembly section)	12.00
3	DG set (100 KVA)- S-12	6.00
4	DG set (500 KVA)-S-13	9.00
5	DG set (500 KVA)-S-14	9.00

- (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.

(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 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	3700.00	Lit/year	Sale to Auth reprocessor
2	15.2 Discarded asbestos	750.00	Kg/Year	CHWTSDF Ranjangaon
3	20.2 Spent solvents	1000.00	Kg/Year	CHWTSDF Ranjangaon
4	20.1 Contaminated aroma aliphatic or napthenic solvents	900.00	Kg/Year	CHWTSDF Ranjangaon

5	23.1 Waste Residue	5084.00	Kg/Year	CHWTSDF Ranjangaon
6	30.2 Chemical sludge from waste water treatment	8000.00	Kg/Year	CHWTSDF Ranjangaon
7	30.1 Chromium bearing residue and sludge	4000.00	Kg/Year	CHWTSDF Ranjangaon
8	32.1 Spent chemicals	7600.00	Kg/Year	CHWTSDF Ranjangaon
9	31.1 Residues and wastes*	7600.00	Kg/Year	CHWTSDF Ranjangaon
10	33.3 Discarded containers / barrels / liners	3000.00	Nos/Year	CHWTSDF Ranjangaon
11	34.2 Toxic metal-containing residue from water purification	1100.00	Nos/Year	CHWTSDF Ranjangaon
12	5.2 Wastes/residue containing oil	650.00	Kg/Year	CHWTSDF Ranjangaon
13	10.1 Residues containing cadmium and arsenic	1000.00	Kg/Year	CHWTSDF Ranjangaon
14	34.4 Chemical sludge from waste water treatment	5000.00	Kg/Year	CHWTSDF Ranjangaon
15	15.1 Asbestos-containing residues	250.00	Kg/Year	CHWTSDF Ranjangaon
16	Bio Medical waste	40	kg/Month	CBMWTSDf Ranjangaon
17	E-Waste	1000	Kg/year	Auth. Recycler

(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 (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.

**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 pre the provisions of rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992.
- ix. An 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.

9. This is issued with approval of Consent Committee meeting of the Board held dtd. 30/05/2012/17/10/2012.

10. You shall submit operation Bank Guarantee of Rs. 5/- Lakhs in favor of Regional Officer Pune within 15 days. The Bank Guarantee shall be valid up to 31/12/2016.

11. The Capital investment of the industry is Rs. 38.30/-Cr

  
(Rajeev Kumar Mital, IAS)  
Member Secretary

To,  
M/s. Bharat Electronics Ltd.,  
NDA Road Pashan,  
Dist. Pune 411 021

Copy to:

RO- MPCB Pune /SRO-MPCB Pune-I- They are directed to ensure the compliance of consent conditions & obtain the B.G. Of Rs. 5/- Lakhs from the industry & submit the report within 01 month period.

Received Consent fee of -

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	3,75,000/-	967350	16/11/2011	SBI
2	100/-	967478	16/11/2011	SBI
3	25,000/-	972347	20/08/2012	SBI