

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/S.S./Recycler

EIC No: TN-3696-12

Consent No: BO/MPCB/RO(HQ)/Thane /CO/B- 56 Date: 06/08/2012

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 & E-Waste (Management & Handling) Rules, 2011.

[To be referred as Water Act, Air Act ,HW (M&H) Rules & E-Waste (Management & Handling) Rules, 2011, respectively].

CONSENT is hereby granted to

**M/s. Eco-Recycling Ltd.
Eco- House near Top Glass Enclave,
Bhoipada, Near Range Office, Sativali Road,
Vasai (E), Dist: Thane.**

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 period up to 31/08/2014**
[Subject to obtaining the registration from MPCB as E-Waste recycler before commencement of the production activity].
- 2. The Consent is valid for the manufacture of -**

Sr. No.	Product Name	Maximum Quantity
	Physical & Mechanical separation of different components from electrical and electronic waste such as :-	
1	Glass	7190 MTA
2	Plastic	
3	Steel /iron	
4	Aluminum	
5	Copper	
6	Tin	
7	Zinc	
8	Nickel	
9	Gold	
10	Silver	
11	CFC	
12	Oil	
13	Batteries	
14	Compressors & Others	

(Only Dry Process allowed)

3. CONDITIONS UNDER WATER ACT:

- (i) The daily quantity of trade effluent from the factory shall not exceed 0.00 M³.
(ii) The daily quantity of sewage effluent from the factory shall not exceed 2.5 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:

1	pH	Between	5.5 to 9.0
2	Temperature	Should not exceed 5 c above the ambient temperature of the receiving body	
3	Oil & Grease	Not to exceed	10 mg/l
4	Suspended Solids	Not to exceed	100 mg/l.
5	Cyanide (as 'CN')	Not to exceed	0.2 mg/l.
6	Ammonical nitrogen (as N)	Not to exceed	50 mg/l.
7	Total residual chlorine (as Cl ₂)	Not to exceed	1.0 mg/l.
8	Cadmium (as Cd)	Not to exceed	2.0 mg/l
9	Nickel (as Ni)	Not to exceed	3.0 mg/l
10	Zinc (as Zn)	Not to exceed	5.0 mg/l
11	Chromium as Cr Hexavalent Total	Not to exceed	0.1 mg/l.
12	Copper (as Cu)	Not to exceed	3.0 mg/l.
13	Lead (as Pb)	Not to exceed	0.1 mg/l.
14	Iron (as Fe)	Not to exceed	3.0 mg/l.
15	Total metal	Not to exceed	10.0 mg/l.

- (iv) **Trade Effluent Disposal:** The metal bearing industrial effluent shall be segregated and reused back into process and remaining treated effluent shall use on land for gardening. There shall not be any discharge outside the factory premises. The industry shall become member of CETP as and when proposed. Industry shall provide necessary facilities to recycle the entire industrial effluent back into the process in six months.

- (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. N	Type Of Waste	Quantity	Disposal
1	Wood, Cardboard, Gunny Bag, Plastic	1 MT/day	Sale to Authorized recyclers

(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 | ... | 2.50 CMD |
| (ii) Water gets Polluted & Pollutants are Biodegradable | ... | 0.00 CMD |
| (iii) Water gets Polluted, Pollutants are not Biodegradable & Toxic | ... | 0.00 CMD |
| (iv) Industrial Cooling, spraying in mine pits or boiler feed | ... | 0.00 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:**

Industry shall provide filter bag house dust collector of sufficient capacity to control the emissions.

Standards for Stack Emissions of air pollutants:

- | | | |
|----------------------|---------------|-----------------------|
| (i) SPM/TPM | Not to exceed | 50 mg/Nm ³ |
| (ii) SO ₂ | Not to exceed | -- Kg/Day |

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

Sr. No.	Type Of Fuel	Quantity	UOM
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- (ii) The applicant shall erect the chimney(s) of the following specifications:-

Sr. No.	Chimney Attached To	Height in Mtrs.
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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.

- (iii) 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.

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

(i) The industry is hereby permitted to accept electric/electronic waste appliance as refrigerators, freezers, personal computers, TV Sets, Cellur Phones, as a raw material to separate components such as glass, plastic steel iron, Aluminum, copper Tin, zinc, Nickel, Gold, silver, CFC, Oil batteries, Compressors and others of quantity of 7200 MTA

- a. The industry shall follow Manifest system strictly while transporting Hazardous Waste.
- b. The industry shall inform the Board in its returns regarding quantity of hazardous waste accepted & HW disposed by it during the year.

(ii) The Industry shall handle hazardous wastes as specified below.

Sr. No.	Category of Waste	Type of waste	Quantity	Disposal
1	31.1	Residue and Waste	10 MTA	CHWTSDF

(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) 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. Industry shall obtain registration from MPCB as a recycler of E-waste having environmentally sound technology as per the provisions of E-Waste (Management & Handling) Rules, 2011 before commencement of production activity.

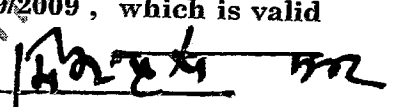
- c. The unit has to display and maintain the data online outside the factory main gate in Marathi & English both on a 6'x4' display board in the manner and the report of the compliance along with photograph shall be submitted to this office & concerned Regional Office/ Sub Regional Office.
- d. It shall be ensured that the Hazardous waste is handled, managed & disposed of strictly in accordance with the Hazardous Waste (Management & Handling) Rules, 1989 as amended on 2008 and shown & submitted to the Board as & when asked for.
7. **Specific Conditions for storage, Handling and Disposal of Waste from Electrical & Electronic equipment (WEEE):**
- i) **Collection of WEEE -**
The applicant must provide appropriate and dedicated vehicles duly identified as per the norms for transportation of Hazardous Waste. The applicant shall obtain all the required permits for transportation of WEEE from competent authority. The applicant shall ensure the safe transport of the WEEE without any spillage during transportation.
- Storage for disassembled parts:**
The applicant must provide appropriate storage for disassembled spare parts from WEEE. Some spare parts (e.g. motors and compressors) will contain oil and/or other fluids. Such part must be appropriately segregated and stored in containers that are secured such that oil and other fluids cannot escape from them. These containers must be stored on an area with an area with an impermeable surface and a sealed drainage system.
- ii) **Storage for other components and residues:**
Other components and residues arising from the treatment of WEEE will need to be contained following their removal for disposal or recovery. Where they contain hazardous substances they should be stored on impermeable surface and in appropriate containers or bays with weatherproof covering. Containers should be clearly labeled to identify their contents and must be secured so that liquids, including rain water cannot enter them. Components should be segregated having regard to their eventual destinations and the compatibility of the component types. All batteries should be handled and stored having regard to the potential fire risk associated with them.
- iii) **Balances :-**
WEEE Guidelines also requires that sites for handling of WEEE have "balances to measure the weight of the segregated waste". The objective is to ensure that a record of weights can be maintained of WEEE entering a facility and components and materials leaving each site (together with their destinations). The nature of the weighing equipment should be appropriate for the type and quantity of WEEE being processed.
- iv) Plastic, which cannot be recycled and is hazardous in nature, is recommended to be land filled in nearby CHWTSDF.

- vi) Ferrous and non ferrous metal recycling facilities fall under the purview of existing environmental regulations for air, water, noise, land and soil pollution and generation of hazardous waste and the same should be followed.
- v) CFCS should be either reused or incinerated in common hazardous waste incineration facilities at CHWTSDF.
- viii) Waste Oil should be either reused or incinerated in common hazardous waste incineration facilities.
- ix) PCB's containing capacitors shall be incinerated in common hazardous waste incineration facilities at CHWTSDF.
- x) Mercury recovery and lead recycling facilities from batteries fall under the Existing environmental regulations for air; water; noise, land and soil pollution and generation of hazardous waste and the same should be followed. In case Mercury or lead recovery is very low, they can be temporarily stored at e-waste dismantling facility and later disposed in TSDF.

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 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.
9. The Capital investment of the industry including existing investment (Rs. 2.75 Crs) & investment for proposed modernization of plant & Machinery activity (Rs. 14.29 Crs) is Rs. 17.04 Crs.
10. This amendment in consent to operate is issued with overriding effect over earlier consent to operate issued by MPC Board vide no: BO/MPCB/RO(HQ)/Thane/CO/B/739 dated: 11/09/2009 , which is valid up to: 31/08/2014.


(Milind Mhaiskar, IAS)
Member Secretary

To,
M/s. Eco-Recycling Ltd,
Eco- House near Top Glass Enclave,
Bhoipada, Near Range Office, Sativali Road,
Vasai (E), Dist: Thane.

Copy to:

- 1) Regional Officer, MPCB, Thane
- 2) Sub-Regional Office, MPCB, Thane-II
- 3) Chief Accounts Officer, MPCB, Mumbai.

Received Consent fee of -

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	45,000/-	460554	28/04/2012	Kotak Mahindra Bank
2	5,000/-	266901	27/02/2012	Kotak Mahindra Bank