

MAHARASHTRA POLLUTION CONTROL BOARD

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Mumbai- 400 022.

EIC No.: -PN - 13151 - 12

RED/LSI

Consent No. BO/MPCB/RO(HQ)/HSMD/Battery/CAC - 655 Date: 16/10/2012

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 and Trans boundary 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. Exide Industries Limited.,
D - II Block, MIDC Chinchwad,
Pune - 19.

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 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 up to 31.12.2013.
2. The Consent is valid for the manufacture of -

<u>Sr. No.</u>	<u>Product</u>	<u>Maximum Quantity</u>
	Manufacturing of Lead Acid Storage Batteries	
1.	SLI (Automotive)	250000.0 Units/M
2.	MX (Motorcycle)	375000.0 Units/M

(Without using Lead scrap / Lead acid battery scrap)

3. **CONDITIONS UNDER WATER ACT:**

- (i) The daily quantity of trade effluent from the factory shall not exceed **248.0 CMD**
- (ii) The daily quantity of sewage effluent from the factory shall not exceed **128.0 CMD**

(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)	Suspended Solids	Not to exceed	100 mg/l.
3)	BOD 3days 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)	Total Dissolved Solids	Not to exceed	2100 mg/l
7)	Chlorides	Not to exceed	600 mg/l
8)	Sulphates	Not to exceed	1000 mg/l
9)	Lead	Not to exceed	0.1 mg/l
10)	Cadmium as Cd	Not to exceed	0.2 mg/l
11)	Arsenic	Not to exceed	0.2 mg/l
12)	Total Metal	Not to exceed	10.0 mg/l

(iv) **Trade Effluent Disposal:** The treated effluent shall be recycled in the process to the extent maximum & remaining disposed on land for gardening, cleaning and flushing purpose in the factory premises.

(v) **Sewage Effluent Treatment:** The applicant shall provide comprehensive domestic effluent 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 use for the gardening purpose in the premises.

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

Sr. No.	Type of Waste	Quantity	Disposal
1	Solid waste like containers, Drums & metal scrap (light & heavy scrap)	16.0 MT/M	Sale to Vendor
2	Wooden packing material	10.0 MT/M	Sale to Vendor
3	Polypropylene Scrap	25.0 MT/M	Sale to Vendor

(viii) **Other Conditions:**

- Industry shall monitor effluent quantity regularly. & achieve zero discharge by scientific Operation & Maintenance of ETP & STP.
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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	...	138.0 CMD
(ii) Industrial Processing	...	463.0 CMD
(iii) Industrial Cooling/Boiler	...	13.0 CMD
(iv) Agriculture/Gardening	...	25.0 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) Industry shall install a comprehensive Air pollution 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:

Control Equipment:

- 1) Bag Filter of sufficient capacity shall be provided to Oxide mill section, Pasting sect, Assembling section, Casting sect and Dust collector shall provide to any other source of particulate matter emissions.
- 2) Mist eliminator of sufficient capacity shall be provided to jar formation and scrubber for any other source of gaseous emissions.

Conditions For D.G. 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 closure /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 metres 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 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.
4. 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.
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. The DG 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 the DG set.
9. Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.

Standards for Emissions of Air Pollutants:

1.	SPM / TPM	Not to exceed	150 mg/Nm ³
2.	SO ₂	Not to exceed	416 kg/day
3.	SO ₂ from process	Not to exceed	50 PPM
4.	Acid Mist	Not to exceed	35 mg/NM ³
5.	Lead	Not to exceed	10 mg/NM ³
6.	NO _x from process	Not to exceed	50 PPM

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

<u>Sr.No.</u>	<u>Type of Fuel</u>	<u>Quantity</u>	
1)	L.P.G.	75.0	T/M
2)	HSD for D.G. set	80.0	KI/M.
3)	Acetylene	2000.0	m ³ /M.
4)	Oxygen	4000.0	m ³ /M.

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

Sr. No.	Chimney attached to	Height in Mtrs.
1.	SLI – Assembly Line no. 1	30.0 Mtrs
2.	SLI – Assembly Line no. 2	30.0 Mtrs
3.	SLI – Assembly Line no. 3 & Plate Cutting	30.0 Mtrs
4.	SLI Ball Mill	30.0 Mtrs
5.	Strip Caster / Casting	30.0 Mtrs
6.	MX Assembly / plate cleaning	30.0 Mtrs
7.	MX Ball Mill	30.0 Mtrs
8.	Alloy Blending	30.0 Mtrs
9.	Plate Formation	30.0 Mtrs
10.	Jar Formation Scrubber	30.0 Mtrs
11.	D.G. Set (750 KVA)	05.5 Mtrs
12.	D.G. Set (750 KVA)	05.5 Mtrs
13.	D.G. Set (380 KVA)	04.0 Mtrs
14.	D.G. Set (380 KVA)	04.0 Mtrs
15.	D.G. Set (380 KVA)	04.0 Mtrs
16.	D.G. Set (380 KVA)	04.0 Mtrs
17.	D.G. Set (380 KVA)	04.0 Mtrs
18.	D.G. Set (187.5 KVA)	03.0 Mtrs
19.	D.G. Set (187.5 KVA)	03.0 Mtrs
20.	D.G. Set (187.5 KVA)	03.0 Mtrs
21.	D.G. Set (1010 KVA)	06.0 Mtrs
22.	D.G. Set (1010 KVA)	06.0 Mtrs
23.	D.G. Set (1010 KVA)	06.0 Mtrs
24.	SLI – Assembly Line no. 4	30.0 Mtrs
25.	MX plate cutting	30.0 Mtrs

(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 shall not cause any nuisance in surrounding area.
 2] The Industry should monitor stack emissions and ambient air quality regularly.

6. Whenever due to any accident or other unforeseen act or even, such emission 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.

7. **CONDITIONS UNDER HW (M,H &TM) RULES, 2008 :**

- a. The industry shall transport hazardous waste through MPCB Authorized Transporter only.
 b. The industry shall follow Manifest system strictly while transporting Hazardous Waste.
 c. The industry shall inform the Board in its Form 4 returns regarding quantity of hazardous waste accepted by it during the year.
- i) The Industry shall handle hazardous wastes as specified below:

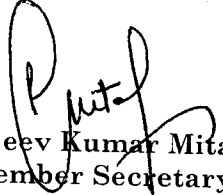
Sr. No	HWcat as per Sch.1	Type of Waste	Quantity in Kg/D	Disposal
1	5.1	Used / spent oil	02.0 MT/M	By sale through authorized recycler.
2	9.1	(A) Lead dross, lead stag and lead bearing residue	85.0 MT/M	By sale through authorized recycler
3	9.1	(B) Inferior paste scrap paste / Tumbler paste	70.0 MT/M	By sale through authorized recycler.
4	9.1	(C) Casting dross	90.0 MT/M	By sale through authorized recycler.
5	9.1	(D) Washed grids and pastes.	90.0 MT/M	In house recycled in melting furnace.
6	9.1	(E) Cut lugs / cuttings	90.0 MT/M	In house recycled in melting furnace.
7	34.1	Flue gas cleaning residue	02.5 MT/M	By sale through authorized recycler.
8	33.3	Discarded containers, barrels, Liners used for Hazardous waste & chemicals.	04.0 MT/M	By sale through authorized recycler.
9	34.3	Sludge from ETP and scrubber	60.0 MT/M	CHWTSDF, Taloja.
10	36.1	Sludge from wet scrubber	02.0 MT/M	By sale through authorized recycler.
11	36.3	Spent acid from batteries.	3000.0 Lits. /M	Reuse in process.

8. General Conditions:

- (i) The Industry shall comply with the provision of the Environment (Protection) Act, 1986 and the Rules made there under.
- (ii) The Applicant shall maintain good house keeping and take adequate measures for control of pollution from all sources so as not to cause nuisance to surrounding area/ inhabitants.
- (iii) The applicant shall bring minimum 33 % of the available open land under green coverage plantation.
- (iv) Solid Waste - The non-hazardous solid waste arresting in the factory premises, sweeping, etc. be disposed of scientifically so as not to cause any nuisance / pollution. The applicant shall take necessary permission from civic authorities for disposal to dumping ground.
- (v) The applicant shall provide for an alternate electric power source sufficient to operate all pollution control facilities installed by the applicant shall stop, reduce or otherwise, control production so abide by terms and conditions of this consent regarding pollution levels.
- (vi) The applicant shall not change or alter the quantity, quality, of discharge, temperature or the mode of the effluent/ emission or hazardous wastes or control equipments provided for without previous permission of the Board.
- (vii) 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 discharged points and shall pay to the Board for the service rendered in this behalf.
- (viii) The applicant shall make an application for renewal of the consent at least 60 days before the date of expiry of the consent.
- (ix) 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 Environmental (Protection) (Second Amendment) Rules, 1992.
- (x) The industry shall submit the Annual Returns as per Rule 9 (2) of Hazardous Wastes (M.H &T) Rules, 2008 for the calendar year in Form- IV before 31st January of every year.
- (xi) An inspection book shall be opened and made available the Board officers during their visit to the applicant.
- (xii) The applicant shall install a separate meter showing the consumption of energy for operation of domestic and industrial effluents treatment plants and air pollution control system. A register showing consumption of chemical used for treatment shall be maintained.
- (xiii) Separate drainage system shall be provided for collection of trade 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.
- (xiv) Neither storm water nor discharged from other premises shall allowed to mix with the effluents from the factory.

- (xv) The industry shall ensure that fugitive emission from the activity is controlled so as to maintain clean and safe environment in and around the factory premises.
- (xvi) The valid consent or its renewal shall be produce for inspection at the request of an officer authorized by the State Pollution Control Board.
- (xvii) The person authorized shall not rent, land, sell, transfer or otherwise transport the hazardous waste without obtaining prior permission of the State Pollution Control Board.
- (xviii) Industry shall deal with the dealers of Batteries who have obtained registration from Board.

9. Industry shall comply with the Batteries (Management and Handling) Rules, 2001, Amendment on 2010 & Industry shall confirm and deliver Lead Acid Batteries to registered Battery Dealers only as per the Batteries (Management and Handling) Rules, 2001, Amendment on 2010.
10. The consent should not be constructed as any exemption from obtaining necessary NOC from other Govt. agencies as may deemed fit necessary.
11. This is issued with the approval of Consent Appraisal Committee of the Board in its meeting held on 24.09.2012.
12. Industry shall submit B.G. of Rs. 5 lakhs in favour of Regional Officer, Pune with in 15 days towards Operation & Maintenance of ETP, STP and to achieve zero discharge.
13. This consent order has overriding effect on earlier consent order issued vide No. BO/ MPCB / RO(HQ)/HSMD /Battery/CAC - 48 dated 16/05/2011.
13. Capital Investment of the Industry is 166.85 Crs.


(Rajeev Kumar Mital)
Member Secretary

To,
M/s. Exide Industries Limited.,
D - II Block, MIDC Chinchwad,
Pune - 19.

Copy to:

- 1) Regional Officer, MPCB, Pune.
2) Sub-Regional Officer, MPCB, Pimpri - Chinchwad.
3) Chief Accounts Officer, MPCB, Mumbai
Received Consent fee of -

<u>Amount</u>	<u>D.D.No.</u>	<u>Date</u>	<u>Bank</u>
188402/-	533565	14.02.2012	State Bank of India
100/-	533566	14.02.2012	State Bank of India

4] Cess Branch, MPCB, Mumbai.

RO (HQ)