

MAHARASHTRA POLLUTION CONTROL BOARD

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Near Sion Circle, Sion (E),
Mumbai - 400 022

Consent order No :- Format 1.0/BO/CAC-Cell/EIC-NM-5861-15/CR/CAC-274 | Date:- 24/02/2016

To,
M/s. Exide Industries Limited
Plot No. T-17, MIDC Taloja,
Tq. Panvel, Dist. Raigad.

Sub: Renewal of Consent to Operate with increased CI in RED category.

Ref: 1] Earlier Consent granted vide no. BO/CAC-cell/RO-NK/EIC-NK-15168-13/R/CAC-4680 dtd.19.05.2014 valid upto 31.07.2015.

2] Your Application approved in CAC meeting held on 02.02.2016.

Your application:- CR1507000060

Dated: 01.07.2015.

For: Renewal of 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 under Rule 5 of the Hazardous Wastes (M, H & T M) Rules 2008 is considered and the consent is hereby granted subject to the following terms and conditions and as detailed in the schedule I, II, III & IV annexed to this order:

1. The consent is granted for a period from 01.09.2015 to 31.07.2020.
2. The actual capital investment of the industry is Rs. 174.24 Crores. (Existing CI- Rs. 91.17 Cr + Increased CI- Rs. 83.07 Cr. as per CA certificate submitted by industry)
3. The Consent is valid for the manufacture of -

Sr. No.	Product / By-Product Name	Maximum Quantity (Nos/Month)
1.	Lead Acid Storage Batteries	92,000
2.	Lead Acid Storage Batteries (small)	2,50,000
3.	EQ Plates	2,10,00,000

4. Conditions under Water (P&CP), 1974 Act for discharge of effluent:

Sr. no.	Description	Permitted quantity of discharge (CMD)	Standards to be achieved	Disposal
1.	Trade effluent	291	As per Schedule - I	To CETP
2.	Domestic effluent	100	As per Schedule - I	On land for gardening

5. Conditions under Air (P& CP) Act, 1981 for air emissions:

Sr. no.	Description of stack / source	Number of Stack	Standards to be achieved
1.	Sovema Mill (24 TPD)	1	As per Schedule -II
2.	Sovema Mill (9 TPD)	1	As per Schedule -II
3.	Auto Pasting	1	As per Schedule -II
4.	Auto Casting	1	As per Schedule -II
5.	Auto Assembly & Parter	1	As per Schedule -II

Sr. no.	Description of stack / source	Number of Stack	Standards to be achieved
6.	Lead Alloying	1	As per Schedule -II
7.	Small Batteries Assembly	1	As per Schedule -II
8.	Small Batteries Parter	1	As per Schedule -II
9.	SBD- PG Filling	1	As per Schedule -II
10.	Jar Formation	1	As per Schedule -II
11.	SBD- Formation	1	As per Schedule -II
12.	Lead Alloying	1	As per Schedule -II
13.	Sovema Mill Ball Casting	1	As per Schedule -II
14.	Small Batteries Casting	1	As per Schedule -II
15.	Small Batteries Formation	1	As per Schedule -II
16.	DG set	1	As per Schedule -II

6. Conditions about Non Hazardous Wastes:

Sr. no.	Type Of Waste	Quantity & UoM	Treatment	Disposal
1.	PP Scrap	22 MT/A	----	By sale to authorized re-processor/vendor
2.	Copper Scrap	11 MT/A	----	
3.	Brass Scrap	8 MT/A	----	
4.	Stainless Steel Scrap	9 MT/A	----	
5.	Mild Steel Scrap	75 MT/A	----	
6.	Corrugated Box, Cotton Hand Gloves, Mouth Mask, Hard Board & Packing Material Scrap	350 MT/A	----	
7.	Wooden Scrap	185 MT/A	----	
8.	Polybags Scrap	20 MT/A	----	
9.	Sweeping Dust	22 MT/A	----	
10.	Used Rubber tire of MHE	3.0 MT/A	----	
11.	Rubber/PVC Cables/Wires	4.0 MT/A	----	
12.	Aluminium Scrap	3.0 MT/A	----	
13.	Electrical Scrap	5.0 MT/A	----	
14.	Electrical Motor Scrap	1.0 MT/A	----	
15.	Empty MS Oil Drums	120 Nos./A	----	

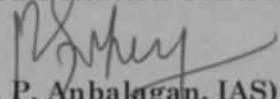
7. Conditions under Hazardous Waste (MH & TM) Rules, 2008 for treatment and disposal of hazardous waste:

Sr. No.	Type Of Waste	Category	Quantity	UOM	Treatment	Disposal
1	Used / Spent oil	5.1	4.0	MT/D	----	Sale to authorized recycler
2	Glass Mat & PE Scrap	21.1	20	MT/D	----	Sale to authorized recycler
3	Sump Paste of Lead Sulphate & Lead Oxide from Pasting	9.1	9.92	MT/D	----	Sale to authorized recycler
4	Rejected Plates and Cover from Casting, Pasting & Molding	9.1	26.4	MT/D	----	Sale to authorized recycler
5	Lug Pieces from	9.1	8.01	MT/D	----	Sale to

Sr. No.	Type Of Waste	Category	Quantity	UOM	Treatment	Disposal
	Mac Paster (Formation) Lead Alloy					authorized recycler
6	Dross Collected from Crucibles & Refinery oxides of lead	9.2	11.8	MT/D	----	Sale to authorized recycler
7	Residues containing Cadmium and Arsenics	10.1	25	Kg/D	----	CHWTSDF
8	Discarded container, barrels, Liners used for HW chemicals	33.3	10	Kg/D	----	Sale to authorized recycler
9	ETP Sludge	34.3	600	Kg/D	----	CHWTSDF
10	Wet sludge from scrubber	36.1	100	Kg/D	----	CHWTSDF
11	Spent Acid from Batteries	36.3	300	Lit/D	----	Reuse in process
12	Wastes/residues containing oil	5.2	35	Kg/D	----	CHWTSDF
13	Wastes/residues containing resin	23.1	30	Kg/D	----	CHWTSDF
14	E-Waste	---	8.0	Kg/D	----	Sale to authorized recycler

8. The Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.
9. This consent should not be construed as exemption from obtaining necessary NOC/permission from any other Government authorities.
10. Industry shall submit Board Resolution within period of 1 month towards increase the CI by 83 Cr for up-gradation of advancement in battery technology including plant and machinery without obtaining consent to establish from the Board and thereby violating consent condition.

For and on behalf of the
Maharashtra Pollution Control Board


(Dr. P. Anbalagan, IAS)
Member Secretary

Received Consent fee of-

Sr. No.	Amount (Rs.)	DD No	Date	Drawn On
1	Rs. 4,73,600/-	529065	30.06.2015	Dena Bank
2	Rs. 13,94,000/-	529068	02.07.2015	Dena Bank

Note:- Board has balance consent fee of Rs 29,091/- which will be considered during next renewal of consent.

Copy to:

1. Regional Officer, MPCB, Pune, Sub-Regional Officer, Pimpri-Chinchwad MPCB, Pune. They are directed to ensure the compliance of the consent conditions.
2. Chief Accounts Officer, MPCB, Mumbai.
3. CC/CAC desk- for record & website updation purposes.

Schedule-I

Terms & conditions for compliance of Water Pollution Control:

- 1) A] As per your application, you have provided Effluent Treatment Plant (ETP) with the design capacity of 370 CMD.
- B] The Applicant shall operate the effluent treatment plant (ETP) to treat the trade effluent so as to achieve the following standards prescribed by the Board or under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.

Sr No.	Parameters	Standards as per EP Act,1986 (Limiting Concentration in mg/l, except for pH)
01	pH	5.5 to 9.0
02	Suspended Solids	100
03	BOD (3 days 27°C)	100
04	COD	250
05	Oil & Grease	10
06	TDS	2100
07	Chlorides	600
08	Sulphates	1000
09	Lead as Pb	0.1
10	Cadmium as Cd	0.2
11	Arsenic	0.2
12	Total Metal	10

- C] The treated effluent shall be discharged into CETP for further treatment after confirming the above standards. In no case, at any time effluent shall find its way to any water body directly or indirectly and outside the factory premises

- 2) A] As per your consent application, you have provided sewage treatment plant of designed capacity 100 CMD.

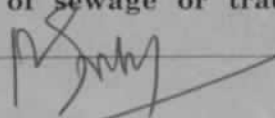
- B] The Applicant shall operate the sewage treatment system to treat the sewage so as to achieve the following standards/ prescribed under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.

(1)	Suspended Solids.	Not to exceed	50	mg/l.
(2)	BOD 3 days 27°C.	Not to exceed	30	mg/l.
(3)	COD	Not to exceed	100	mg/l.

- C] The treated domestic effluent shall be used on land for gardening after confirming the above standards. In no case, at any time effluent shall find its way to any water body directly or indirectly and outside the factory premises.

- D] In case the treatment system is combined for trade effluent and sewage then the standards and disposal path prescribed at sr. no.1 B & C of schedule I shall be applicable.

- 3) The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in

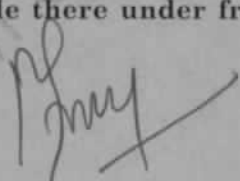


connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or and extension or addition thereto.

- 4) The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.
- 5) The Applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Cess Act, 1977 and as amended, by installing water meters, filing water cess returns in Form-I and other provisions as contained in the said act.

Sr. no.	Purpose for water consumed	Water consumption quantity (CMD)
1.	Industrial Cooling, spraying in mine pits or boiler feed	121
2.	Domestic purpose	135
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	833
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	Nil

- 6) The Applicant shall provide Specific Water Pollution control system as per the conditions of EP Act, 1986 and rule made there under from time to time/ Environmental Clearance / CREP guidelines.



Schedule-II

Terms & conditions for compliance of Air Pollution Control:

1. As per your application, you have provided the Air pollution control (APC) system and also erected following stack (s) and to observe the following fuel pattern-

Sr. No.	Stack Attached To	APC System	Height in Mtrs.	Type of Fuel	Quantity & UoM	S %	SO ₂ Kg/Day
1.	Sovema Mill (24 TPD)	Dust collector followed by filters	30	--	--	--	--
2.	Sovema Mill (9 TPD)		30	--	--	--	--
3.	Auto Pasting	Scrubber	30	LPG	38 Kg /hr	--	--
4.	Auto Casting	Scrubber	30	LPG	33 Kg /hr	--	--
5.	Auto Assembly & Parter	Bag filters	30	Acetylene	1.5 M3 /hr	--	--
6.	Lead Alloying	Scrubber	30	--	--	--	--
7.	Small Batteries Assembly	Bag filters	30	Acetylene	0.58 M3 /hr	--	--
8.	Small Batteries Parter	Bag filters	30	--	--	--	--
9.	SBD- PG Filling	Dust collector	30	LPG	3 Kg /hr	--	--
10.	Jar Formation	Mist Eliminator & Scrubber	30	--	--	--	--
11.	SBD-Formation	Mist Eliminator & Scrubber	30	--	--	--	--
12.	DG Set	--	30	HSD	49 Lit /hr	--	46.0
13.	Lead Alloying	--	30	LPG	17 Kg /hr	--	--
14.	Sovema Mill Ball Casting	Scrubber	30	LPG	22 Kg /hr	--	--
15.	Small Batteries Casting	Scrubber	30	LPG	11 Kg /hr	--	--
16.	Small Batteries Formation	Mist Eliminator	30	--	--	--	--

2. The Applicant shall provide Specific Air Pollution control equipments as per the conditions of EP Act, 1986 and rule made there under from time to time / Environmental Clearance / CREP guidelines. (Concern section shall mention specific control equipments)

a. Bag filters of sufficient capacity shall be provided to Oxide Mill section, Pasting section, Assembling section, Casting section and Dust collector shall provide to any other source of particulate matter emissions.

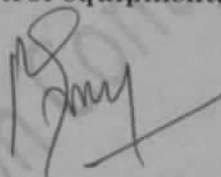
b. Mist eliminator of sufficient capacity shall be provided to jar formation and scrubber for any other source of gaseous emissions.

3. The applicant shall operate and maintain above mentioned air pollution control system, so as to achieve the level of pollutants to the following standards:

1.	Particulate matter	Not to exceed	150 mg/Nm ³
2.	Acid Mist	Not to exceed	35 mg/Nm ³
3.	Nox from process	Not to exceed	50 ppm

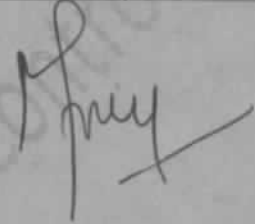
Source	Pollutant	Conc. Based Standards (mg/Nm ³)
Grid Casting	Lead	10
	Particulate matter	25
Oxide Manufacturing	Lead	10
	Particulate matter	25
Paste Mixing	Lead	10
	Particulate matter	25
Assembling	Lead	10
	Particulate matter	25
PVC Section	Particulate matter	150

4. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement well before its life come to an end or erection of new pollution control equipment.
5. The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).



Schedule-III
Details of Bank Guarantees

Sr. No.	Consent (C to E/O/R)	Amt of BG Imposed	Submissi on Period	Purpose of BG	Compliance Period	Validity Date
1	CtoR	Rs. 10 lakh	15 days	Towards O&M of pollution control system	31.07.2020	30.11.2020
2	CtoR	Rs. 2 lakh	15 days	Industry shall submit Board Resolution towards up-gradation of advancement in battery technology including plant and machinery without obtaining consent to establish from the Board	31.03.2016	30.11.2020

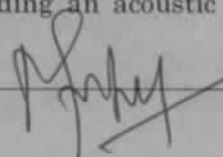


Maharashtra Pollution Control Board

Schedule-IV

General Conditions:

- 1) The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.
- 2) Industry should monitor effluent quality, stack emissions and ambient air quality monthly/quarterly.
- 3) 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.
- 4) 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.
- 5) The applicant shall provide an alternate electric power source sufficient to operate all pollution control facilities installed 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 and conditions of this consent.
- 6) 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 Environment (Protection) (Second Amendment) Rules, 1992.
- 7) The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the HW(MH&TM) Rules 2008, which can be recycled /processed/reused/recovered and only waste which has to be incinerated shall go to incineration and waste which can be used for land filling and cannot be recycled/reprocessed etc should go for that purpose, in order to reduce load on incineration and landfill site/environment.
- 8) The industry should comply with the Hazardous Waste (M,H & TM) Rules, 2008 and submit the Annual Returns as per Rule 5(6) & 22(2) of Hazardous Waste (M,H & TM) Rules, 2008 for the preceding year April to March in Form-IV by 30th June of every year.
- 9) An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- 10) **The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent.**
- 11) Industry shall strictly comply with the Water (P&CP) Act, 1974, Air (P&CP) Act,1981 and Environmental Protection Act,1986 and industry specific standard under EP Rules 1986 which are available on MPCB website(www.mpcb.gov.in).
- 12) The industry shall constitute an Environmental cell with qualified staff/personnel/agency to see the day to day compliance of consent condition towards Environment Protection.
- 13) Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes/sewers downstream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system.
- 14) Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
- 15) The applicant shall install a separate 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.
- 16) 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) 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.
- d) Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
- e) 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
- f) D.G. Set shall be operated only in case of power failure.
- g) The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.
- h) The applicant shall comply with the notification of MoEF dated 17.05.2002 regarding noise limit for generator sets run with diesel
- 17) The industry should not cause any nuisance in surrounding area.
- 18) 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.
- 19) The applicant shall maintain good housekeeping.
- 20) The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a yearly statement by 30th September every year on available open plot area, number of trees surviving as on 31st March of the year and number of trees planted by September end.
- 21) 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 of solid waste.
- 22) The applicant shall not change or alter the 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. The industry will not carry out any activity, for which this consent has not been granted/without prior consent of the Board.
- 23) The industry shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
- 24) The industry shall submit quarterly statement in respect of industries obligation towards consent and pollution control compliance's duly supported with documentary evidences (format can downloaded from MPCB official site).
- 25) The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
- 26) The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification dt. 16.11.2009 as amended.
- 27) During transportation handling of Petroleum product if any accident occurs, the industry shall make emergency arrangement having responsibility to control the situation.
- 28) The storage tanks shall be kept in good conditions all the year round with adequate maintenance.
- 29) The project authority shall prepare On-site & Off-site emergency preparedness plan based on detailed risk analysis.

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