

MAHARASHTRA POLLUTION CONTROL BOARD

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Mumbai - 400 022

Consent order No :- Format1.0/BO/CAC-Cell/EIC-PN-23155-14/CR/CAC- 1314

Date- 29/01/2016

To,

M/s. Exide Industries Limited
D2 MIDC, Chinchwad ,Pune.

Subject: 1st Consent to Operate for expansion and Renewal of Consent to Operate for existing unit with amalgamation 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) Consent o Establish for expansion granted vide BO/CAC-cell/EIC-PN-20756-14/E(Exp)/CAC-6520 dtd.11.07.2014
- (3) Your Application approved in 10th CAC meeting of 2015-2016 held on 23.11.2015.

Your application CO1411000093

Dated: 14.10.2014

For: 1st Consent to Operate for expansion and Renewal of Consent to Operate for existing unit with amalgamation.

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 upto 31.07.2017.
2. The actual capital investment of the industry is Rs. 279.43 Crores. (As per CA certificate submitted by industry)
3. The Consent is valid for the manufacture of –

Sr. No.	Product / By-Product Name	Maximum Quantity
1.	SLI (Automotive batteries)	2,50,000 units/M
2.	MX (Motorcycle batteries)	3,75,000 units/M
3.	Automotive batteries	50,000 Nos/M

(Without using Lead Scrap/Lead acid battery scrap from outside)

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	247	As per Schedule -I	The treated effluent shall be recycled to the maximum extent for secondary
2.	Domestic	130	As per Schedule -I	

effluent			purposes such as Cooling, Process, gardening etc. In no case, effluent shall find its way outside factory premises. Recycled quantity of treated effluent is 48 CMD for Cooling tower/AC, 20 CMD for Domestic flushing, 250 CMD for Process and excess 59 CMD to be utilized for gardening.
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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.	Indegenous Stacker & SLI ASSLY Line No. 5	1	As per Schedule -II
2.	SLI ASSLY Line no. 2	1	As per Schedule -II
3.	SLI ASSLY Line no. 3 & Plate cutting	1	As per Schedule -II
4.	SLI Ball Mill	1	As per Schedule -II
5.	STRIP CASTER	1	As per Schedule -II
6.	MX ASSLY & Plate Cleaning	1	As per Schedule -II
7.	MX Ball Mill	1	As per Schedule -II
8.	Alloy Blending	1	As per Schedule -II
9.	Plate Formation	1	As per Schedule -II
10.	Jar Formation	1	As per Schedule -II
11.	DG set (750 KVA x 2 nos)	2	As per Schedule -II
12.	DG set (380 KVA x 5 nos)	5	As per Schedule -II
13.	DG set (187.5 KVA x 3 nos)	3	As per Schedule -II
14.	DG set (1010 KVA x 2 nos)	2	As per Schedule -II
15.	DG set (1010 KVA x 1 nos)	1	As per Schedule -II
16.	SLI ASSLY Line no. 1 and SLI ASSLY Line no. 4	1	As per Schedule -II
17.	MX Plate Cutting	1	As per Schedule -II
18.	12MT Ball Mill/Strip Caster	1	As per Schedule -II
19.	DG set (1010 KVA x 1 nos)	1	As per Schedule -II

6. Conditions under Municipal Solid Waste (Management and Handling) Rule, 2000:

Sr. no.	Type Of Waste	Quantity & UoM	Treatment	Disposal
1	containers drums ,light and heavy MS Scrap	16 MT/M	--	By sale
2	Polypropylene	25 MT/day	--	By sale
3.	Wooden packing material	10 MT/M		By sale

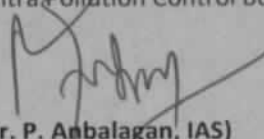
7. Conditions under Hazardous Waste (MH & TM) Rules, 2008 for treatment and disposal of hazardous waste:

Sr. No.	Type Of Waste	Category	Quantity	UOM	Treatment	Disposal
1	Used / Spent oil	5.1	2	MT/M	-	sale to authorized Recycler
2	Lead Dross, Lead stag and Lead bearing Residue	9.1	105	MT/M	-	sale to authorized Recycler

3	Inferior Paste, Scrap Paste /Tumbler Paste	9.1	70	MT/M	-	sale to authorized Recycler
4	Casting Dross	9.1	90	MT/M	-	sale to authorized Recycler
5	washed grids and paste	9.1	90 + 16	MT/M	-	in house recycled in Melting Furnace
6	Cut Lugs /Cuttings	9.1	90	MT/M	-	in house recycled in Melting Furnace
7	Flue Gas Cleaning Residue	34.1	2.5	MT/M	-	sale to authorized Recycler
8	Discarded Containers , Barrels, Liners Used For Hazardous Waste & Chemicals	33.3	4.0	MT/M	-	sale to authorized Recycler
9	Sludge from ETP & Scrubber	34.3	60	MT/M	-	CHWTSDF at MEPL Ranjangaon
10	Sludge from Wet Scrubber	36.1	2	MTM	-	sale to authorized Recycler
11	spent acid from Batteries	36.3	3000	Lit/M	-	Reuse in the process
12	Waste Glass Wool		6	MT/M	-	CHWTSDF at MEPL Ranjangaon

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. This consent is issued without prejudice to the order passed or being passed by CJM, Pune in criminal case no. RCC/142/2000.
11. Industry shall assess the performance of the existing technology i.e. use of HYDROCHEM CESR in their water Pollution Control system through third party (viz. NEERI, IIT or any other reputed institute) and industry shall submit BG of Rs. 2 lakhs towards the same.

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	Remarks
1.	3,75,000/-	023812	10.10.2014	SBI	--
2.	10,13,026/-	50933	14.11.2013	BNP Paribas	Paid earlier and noted in earlier consent dtd. 19.05.2014 and as Board has granted consent for 19 months only i.e. upto 31.07.2015 and as industry had paid fees for 3 year, balance fees of Rs. 4,78,351/- is now being considered with this consent.
3.	2,64,323/-	028718	22.12.2015	SBI	--

Copy to:

1. Regional Officer, MPCB, Pune:

He is directed to return the BG of Rs. 2 lakhs (obtained towards carrying out treatability study of ETP & submission of report and mass balance of solids by 15.08.2014) and BG of Rs. 1 lakhs (obtained towards submission of water balance and design details of bag filter in TAC format) to applicant.

He is also directed to return Existing BG of Rs. 5 lakh obtained towards O&M of pollution control system to the applicant to avoid the duplication and obtain fresh BG of 10 lakhs from applicant towards O&M of pollution control system

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



Maharashtra Pollution Control Board

Schedule-I

Terms & conditions for compliance of Water Pollution Control:

- 1) A) As per your consent application, you have provided the sewage treatment system for treatment of sewage effluent with the design capacity of 150 CMD.

The Applicant shall operate and maintain 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.

Sr No.	Parameters	Standards prescribed by Board
		Limiting Concentration in mg/l, except for pH
01	BOD (3 days 27°C)	30
02	Suspended Solids	50
03	COD	100
04	Residual Chlorine	1ppm

- B) As per your application, you have provided Effluent Treatment Plant (ETP) of Capacity 300 CMD. As per your application you have provided common storage tank (219 CMD) for treated trade effluent and treated domestic effluent.

The Applicant shall operate the effluent treatment plant (ETP) to treat the trade effluent so as to achieve the following standards (From common storage tank provided for treated trade effluent and treated domestic effluent) 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 prescribed by Board
		Limiting Concentration in mg/l, except for pH
01	pH	6.5-8.5
02	Oil & Grease	10
03	BOD (3 days 27°C)	100
04	Total Dissolved Solids	2100
05	Suspended Solids	50
06	COD	250
07	Chloride	600
08	Sulphate	1000
09	Dissolved phosphate	5.0
10	Lead	0.1
11	Zinc	5
12	Cadmium as Cd	0.2
13	Total metal	10
14	Copper	3.0

- C) The treated effluent shall be recycled to the maximum extent for secondary purposes such as Cooling, Process, gardening etc. In no case, effluent shall find its way outside factory premises. Recycled quantity of treated effluent is 48 CMD for Cooling tower/AC, 20 CMD for domestic flushing, 250 CMD for Process and excess 59 CMD to be utilized for gardening.

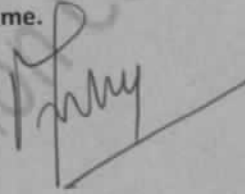
- 2) The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage

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.

- 3) 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.
- 4) 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	15 (fresh) + 48 (recycled) = Total 63 CMD
2.	Domestic purpose	140(fresh) + 20 (recycled) = Total 160 CMD
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	471 (fresh) + 250 (recycled)= Total 721 CMD
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	-----
5.	Gardening	25 (fresh) + 59 (recycled)= Total 84 CMD

- 5) 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.



Schedule-II

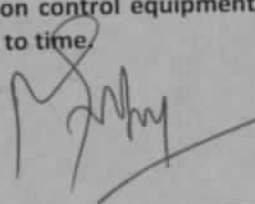
Terms & conditions for compliance of Air Pollution Control:

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	Indgenous Stacker & SLI ASSLY Line No. 5	Bag filter	30 mtrs	NA	NA	--	--
2	SLI ASSLY Line no. 2	Bag filter	30 mtrs	NA	NA	--	--
3	SLI ASSLY Line no. 3 & Plate cutting	Bag filter	30 mtrs	NA	NA	--	--
4	SLI Ball Mill	Scrubber	30 mtrs	NA	NA	--	--
5	STRIP CASTER	Scrubber	30 mtrs	LPG	40 Kg/hr	--	--
6	MX ASSLY & Plate Cleaning	Bag filter	30 mtrs	NA	NA	--	--
7	MX Ball Mill	Scrubber	30 mtrs	LPG	13 Kg/hr	--	--
8	Alloy Blending	Scrubber	30 mtrs	LPG	3 Kg/hr	--	--
9	Plate Formation	Scrubber	30 mtrs	NA	NA	----	--
10	Jar Formation	Scrubber	30 mtrs	NA	NA	--	--
11	DG set (750 KVA x 2 nos)	Acoustic enclosure	5.5 mtrs each*	HSD	280 Kg/hr	1	134.4
12	DG set (380 KVA x 5 nos)	Acoustic enclosure	4 mtrs each*	HSD	393 Kg/hr	1	188.64
13	DG set (187.5 KVA x 3 nos)	Acoustic enclosure	3 mtrs each*	HSD	120 Kg/hr	1	57.6
14	DG set (1010 KVA x 2 nos)	Acoustic enclosure	6.3 mtrs each*	HSD	332 Kg/hr	1	159.36
15	DG set (1010 KVA x 1 nos)	Acoustic enclosure	6.3 mtrs*	HSD	166 Kg/hr	1	79.68
16	SLI ASSLY Line no. 1 & SLI ASSLY Line no. 4	Bag filter	30 mtrs	NA	NA	--	--
17	MX Plate Cutting	Bag filter	30 mtrs	NA	NA	--	--
18	12MT Ball Mill/ Strip caster	Scrubber	30 mtrs	LPG	50 Kg/hr	1	--
19	DG set (1010 KVA x 1 nos)	Acoustic enclosure	6.3 mtrs*	HSD	166 Kg/hr	1	79.68

*Above the roof of building in which it is installed

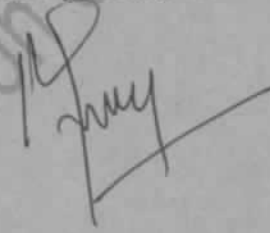
2. The Applicant shall provide Specific Air Pollution control equipments as per the conditions of EP Act, 1986 and rule made there under from time to time.



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:

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).



Maharashtra Pollution Control Board

Schedule-III
Details of Bank Guarantees

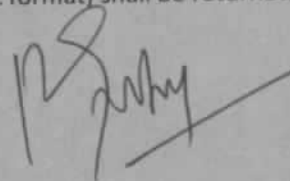
Sr. No.	Consent (C to E/O/R)	Amt of BG Imposed	Submission Period**	Purpose of BG #	Compliance Period	Validity++
1	C to R	Rs. 10 Lakh.	15 days from date of issue of consent	O & M of pollution control system. (Existing BG of Rs. 5 lakh obtained towards O&M of pollution control system shall be returned to the applicant to avoid the duplication and fresh BG of 10 lakhs is to be submitted)	Continuous	Validity of this consent + 4 months
2	C to R	Rs. 2 Lakh.	15 days from date of issue of consent	Industry shall assess the performance of the existing technology i.e. use of HYDROCHEM CESR in their water Pollution Control system through third party (viz. NEERI, IIT or any other reputed institute) and industry shall submit BG of Rs. 2 lakhs towards the same.	6 Months	Validity of this consent + 4 months

** The above Bank Guarantee(s) shall be submitted by the applicant in favour of Regional Officer at the respective Regional Office within 15 days of the date of issue of Consent.

++ The Bank Guarantee(s) shall be valid for a period upto: Validity of consent + 4 months

Existing BG obtained for above purpose if any may be extended for period of validity as above.

Other BG's viz. BG of Rs. 2 lakhs (obtained towards carrying out treatability study of ETP & submit the report and mass balance of solids by 15.08.2014) and BG of Rs. 1 lakhs (obtained towards submission of water balance and design details of bag filter in TAC format) shall be returned to applicant



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.

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