

MAHARASHTRA POLLUTION CONTROL BOARD

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Mumbai - 400 022

Consent order No: - Format 1.0/BO/AS(T)/EIC No. RD-3227-16/R/CC-10073
Date- 22/09/2016

To,
M/s SI Group India Pvt. Ltd.,
Village Rasal, Post Pali, Tal. Sudhagad,
Dist. Raigad-410 205.

Subject: Grant of renewal of Consent to Operate under Red/ LSI category.

- Ref. : 1. Earlier Consent to operate granted vide no. BO/AST/EIC No. RD-2538-13/
CC-4386 dtd. 22/05/2013.
2. Minutes of CC meeting held on 20/07/2016.

Your application No. CR1601000150

Dated: 18/12/2015

For: grant 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 2016 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 to Operate is granted for a period up to 28/02/2021.
2. The proposed capital investment of the industry is Rs. 55.95 Cr. (As per CA certificate submitted by industry)
3. The Consent is valid for the manufacturing of -

Sr. No.	Product Name	Maximum Quantity	UoM
1.	Para Tertiary Butyl Phenol, 2,4 Di Tertiary Butyl Phenol, 2,6 Di Tertiary Butyl Phenol, Para Tertiary Butyl Phenol, Para Nonyl Phenol, Para Dodecyl Phenol, Di Nonyl Phenol, Di Dodecyl Phenol, Other Alkyl Phenols and related speciality products and their by-products	4,000	MT/M
2.	Electricity (Bio-mass based power project with Coal) generation for Captive purpose	5,000	KW/Hr

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	125	As per Schedule -I	100 CMD treated effluent from power plant shall be recycled into cooling tower and 25 CMD treated industrial effluent shall be reused/ recycled upto maximum extent into process, into cooling tower and gardening within premise
2.	Domestic effluent	30	As per Schedule -I	Reused/ recycled upto maximum extent into process, into cooling tower and gardening within premise

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	Boilers/ Fire Engines	5	As per Schedule -II
2	DG Set (2 Nos. of 380 KVA)	2	As per Schedule -II

6. Conditions about Non Hazardous Wastes:

Sr. No.	Type of Waste	Quantity	UOM	Disposal
1	Paper waste	100	Kg/M	Reuse/ Sale to scrap merchant
2	Boiler Refractory	1000	Kg/A	Land filling in own premise
3	Cooling & storm water drain sludge	500	Kg/A	
4	Sand from water filtration & drained	1000	Kg/M	Land filling in own premise
5	Used & broken glasses	500	Kg/A	Sale to scrap merchant
6	ETP Biological sludge	500	Kg/M	Use as manure
7	Non-metallic waste	500	Kg/M	Reuse/ Sale to scrap merchant
8	Metallic waste	1000	Kg/M	Reuse/ Sale to scrap merchant
9	Canteen garbage	200	Kg/M	Use as manure after composting
10	Boiler ash	600	MT/M	Sale to brick/ Cement manufacturer or landfill with soil layer on top

7. Conditions under Hazardous Waste (M, H & T M) Rules, 2016 for treatment and disposal of hazardous waste:


1) The applicant shall handle following types of hazardous wastes:

Sr. No.	Type of Waste	Category	Quantity	UOM	Treatment	Disposal
1	Oily sludge emulsion	1.3	200	Kg/M	—	Used as fuel in Boiler
2	Still bottoms from distillation process	1.4	25	MT/M	—	Recycle/ reuse into process
3	Spent catalyst and molecular sieves	1.6	10	MT/M	—	CHWTSDF for incineration
4	Used / Spent Oil	5.1	75	Kg/M	—	Used as fuel in Boiler
5	Discarded asbestos	15.2	25	Kg/M	—	CHWTSDF for incineration
6	Residue/ sludge containing Phenol	19.1	500	Kg/M	—	Recycle/ reuse into process
7	Spent solvents	20.2	100	Kg/M	—	Recycle/ reuse into process
8	Chemical containing residue	34.1	200	Kg/M	—	Recycle/ reuse into process

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. The applicant shall not carry out any excess production or produce new products without Consent of the Board and without Environmental Clearance wherever it requires.
11. The applicant shall not increase the water consumption and effluent quantity prescribed in the Consent.
12. The applicant shall operate and maintain existing ETP & APCS effectively so as to achieve the standards prescribed in the Consent.
13. The applicant shall not change fuel without obtaining prior permission from the Board.
14. The applicant shall properly collect, transport & regularly dispose off the hazardous waste to CHWTSDF, in compliance of the Hazardous Wastes (Management, Handling & Transboundry Movement) Rules, 2016 and keep proper manifest thereof.
15. The applicant shall provide full fledged Effluent Treatment Plant consisting of primary, secondary and tertiary treatment. The treated effluent shall be 100% recycle/ reuse into process and in cooling tower so as to achieve Zero Liquid Discharge (ZLD).
16. This Consent is issued pursuant to the decision of Consent Committee in the meeting held on 20/07/2016.

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. 3,00,100/-	902652	16/12/2015	SBI
2	Rs. 2,00,000/-	471337	12/08/2016	SBI

Copy to:

1. Regional Officer (Raigad)/ Sub-Regional Officer (Raigad-II), M.P.C. Board.
- They are directed to ensure the compliance of the consent conditions.
2. Chief Accounts Officer, MPCB, Mumbai.
3. CC/CAC desk- for record & website updating purposes.

Schedule-I

Terms & conditions for compliance of Water Pollution Control:

1) A) As per your application, you have provided Effluent Treatment Plant of designed capacity 55 CMD consisting of primary, secondary and tertiary treatment for the treatment of 25 CMD of industrial effluent generated from the manufacturing process and 30 CMD of domestic effluent.

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 prescribed by Board (If any)
I. Compulsory Parameters		Limiting Concentration in mg/l, except for pH
01	pH	5.5 to 9.0
02	Oil & Grease	10 mg/l.
03	BOD (3 days 27° C)	30 mg/l.
04	Total Dissolved Solids	2100 mg/l.
II Additional Parameters		
05	Suspended Solids	100 mg/l.
06	COD	250 mg/l.
07	Sulphates	1000 mg/l.
08	Chlorides	600 mg/l.
09	TAN	50 mg/l.
10	Phenolic Compounds	1 mg/l.
11	Fe	3 mg/l.
12	Zn	3 mg/l.

C) The treated effluent shall be recycled/ reused into process, into cooling tower and remaining shall be applied on land for gardening within premise. In no case, effluent shall find its way outside Company's premise.

2) The industrial effluent arising from various sections of Power plant shall be given such treatment either collectively or individually as the site condition permits that the final quality of effluent shall have following character standards:-

A) Condenser cooling water:

Sr. No.	Parameters	Standards prescribed by Board (If any)
01	pH	5.5 to 8.5
02	Temperature	5° C higher than the intake temperature
03	Free available Chlorine	0.5 mg/l.

B) Boiler blow down:

Sr. No.	Parameters	Standards prescribed by Board (If any)
01	pH	5.5 to 8.5
02	Oil & Grease	10 mg/l.
03	Copper (Total)	1 mg/l.
04	Iron (Total)	1 mg/l.
05	Suspended Solids	100 mg/l.

C] Cooling Tower blow down:

Sr. No.	Parameters	Standards prescribed by Board (If any)
01	Free available Chlorine	0.5 mg/l.
02	Zinc	1 mg/l.
03	Chromium (Total)	0.2 mg/l.
04	Phosphate	5 mg/l.

D] D.M. Plant outlet:

Sr. No.	Parameters	Standards prescribed by Board (If any)
01	pH	5.5 to 9.0
02	Oil & Grease	10 mg/l.
03	BOD (3 days 27° C)	30 mg/l.
04	Total Dissolved Solids	2100 mg/l.
05	Suspended Solids	100 mg/l.
06	COD	250 mg/l.

E] The treated effluent shall be 100% recycled/ reused into cooling tower so as to achieve Zero liquid discharge. In no case, effluent shall find its way outside Company's premise.

3) A] As per your consent application, you treat 30.0 CMD sewage in Effluent Treatment Plant.

B] The treated sewage shall be recycled/ reused into process, into cooling tower and remaining shall be applied on land for gardening within premise. In no case, sewage shall find its way outside Company's premise.

4) The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of water, works 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.

5) 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.

6) 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 and boiler feed	643
2.	Domestic purpose	37
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	30
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	-
5.	Gardening	20

7) 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:

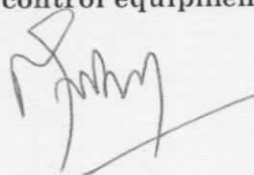
1. As per your application, you have provided following stack(s) and observe the following fuel pattern-

Sr. no.	Stack Attached To	APC System	Height in Mtrs.	Type of Fuel	Quantity & UoM	S %	SO ₂ Kg/day
1	Steam Boiler (SM-80A)	Dust Collector	32	Coal/ Fire wood/ Bio-mass	1 T/Hr	...	240
2	10 TPH Boiler	Bag House	35	Coal/ Fire wood/ Bio-mass	4.5 T/Hr	...	1,080
3	Thermic Fluid Heater (VTAIF-35 Lac Kcl/Hr)						
4	Fire Engines (2 Nos.)	--	10	HSD	1 Ltr/Hr	...	0.42
5	DG Set (2x380 KVA)	--	3.5 above roof	HSD	100 Kg/Hr	...	48

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

Particulate matter	Not to exceed	150 mg/Nm ³ .
SO ₂ (10 TPH Boiler/ TFH)	Not to exceed	1.08 TPD
SO ₂ (Steam Boiler)	Not to exceed	240 Kg/day
SO ₂ (D.G. Sets)	Not to exceed	48 Kg/day

3. 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.
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 equipments.
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 in force

Sr. No.	Consent (C to E/O/R)	Amount of B.G. Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1	C to R	Rs. 5 Lakh	Furnish B.G. Rs. 1.0 Lakh within 15 days (Existing B.G. of Rs. 4.0 Lakh)	Towards O & M of Pollution Control System	Upto 28/02/2021	Extend upto 30/06/2021 after expiry



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) If the MIDC pipeline is broken/ overflowing chamber, in such cases industry shall not discharge their treated effluent into MIDC drain, it shall be sent to CETP by tanker.
- 3) Industry should monitor effluent quality, stack emissions and ambient air quality monthly/quarterly.
- 4) 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.
- 5) 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.
- 6) 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.
- 7) 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.
- 8) The industry shall recycle/ reprocess/ reuse/ recover Hazardous Waste as per the provision contain in the HW(MH&TM) Rules 2016, 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.
- 9) The industry should comply with the Hazardous Waste (M,H & TM) Rules, 2016 and submit the Annual Returns as per Rule 5(6) & 22(2) of Hazardous Waste (M,H & TM) Rules, 2016 for the preceding year April to March in Form-IV by 30th June of every year.
- 10) An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- 11) The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent.
- 12) 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).
- 13) 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.
- 14) 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.
- 15) Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
- 16) 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.

17) 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.
- 18) The industry should not cause any nuisance in surrounding area.
- 19) 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.
- 20) The applicant shall maintain good housekeeping.
- 21) 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.
- 22) 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.
- 23) 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.
- 24) 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.
- 25) 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 be downloaded from MPCB official site).
- 26) The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
- 27) The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification dt. 16.11.2009 as amended.
- 28) **The industry shall recycle/reprocess/reuse/recover hazardous waste as per the provision contained in the HW (M, H & TM) Rules 2016, which can be recycled/ processed/ reused/ recovered and only waste which has to be incinerated shall go to incineration and waste which cannot 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.**

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