

MAHARASHTRA POLLUTION CONTROL BOARD

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Mumbai - 400 022

Red/L.S.I

Date: 22/5/13

Consent No: BO/AST/EIC.NO-RD-2538-13/R/CC-4386

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

[To be referred as Water Act, Air Act and HW (M&H) Rules respectively].

.....
CONSENT is hereby granted to

SI Group India limited
Vill: Rasal, Post: Pali, Tal: Sudhagad, Dist. Raigad.
Maharashtra, Pali-410205
India

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 a period up to: 29/02/2016.
2. The Consent is valid for the manufacture 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 specially products and their by products	4000	MT/M
2	Electricity (Bio-mass based power project with coal)	5000	KW/Hr

3. CONDITIONS UNDER WATER ACT:

- (i) The daily quantity of trade effluent from the factory shall not exceed 125.00M³. (Out of which 100 M³/day effluents from power project shall be recycled in the cooling tower & remaining 25 M³/day effluents from process shall be treated in ETP)
- (ii) The daily quantity of sewage effluent from the factory shall not exceed 30.00M³.

(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:

S.No	Parameters		Limits
1	pH	Between	5.5 to 9.0
2	Suspended Solids	Not to exceed	100 mg/l
3	BOD 3 days 27 Deg. C	Not to exceed	30 mg/l
4	COD	Not to exceed	250 mg/l
5	Oil & Grease	Not to exceed	10 mg/l
6	T.D.S.	Not to exceed	2100 mg/l
7	Chlorides	Not to exceed	600 mg/l
8	Sulphates	Not to exceed	1000 mg/l
9	TAN	Not to exceed	50 mg/l
10	Iron	Not to exceed	3.0 mg/l
11	Phenolic Compounds	Not to exceed	1.0 mg/l
12	Zinc	Not to exceed	3.0 mg/l

The industrial effluent arising from various section 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;		
1	pH	Between	5.5 to 8.5
2	Temperature	Not to exceed	5 degree C higher than the intake Temperature
3	Free available chlorine	Not to exceed	0.5 mg/l.

b	Boiler Blow down		
1	Suspended Solids	Not to exceed	100 mg/l
2	Oil & Grease	Not to exceed	10 mg/l
3	Copper (Total)	Not to exceed	1 mg/l
4	Iron (Total)	Not to exceed	1 mg/l

c	Cooling Tower Blow down		
1	Free available Chlorine	Not to exceed	0.5 mg/l
2	Zinc	Not to exceed	1 mg/l
3	Chromium (Total)	Not to exceed	0.2 mg/l
4	Phosphate	Not to exceed	5 mg/l

d	D.M.Plant effluent		
1	pH	Between	5.5 to 9
2	BOD 3 days 27 ° C	Not to exceed	30 mg/l
3	COD	Not to exceed	250 mg/l
4	Suspended solids	Not to exceed	100 mg/l
5	Oil & Grease	Not to exceed	10 mg/l
6	TDS	Not to exceed	2100 mg/l

(iv) **Trade Effluent Disposal:** The total treated trade effluent shall be recycled /reused to maximum extent and remaining shall be used on land for gardening /plantation within own premises.

(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. No.	Type Of Waste	Quantity	UOM	Disposal
1	Paper waste	100.00	Kg/M	Reuse / Sale
2	Non metallic waste	500.00	Kg/M	Reuse / Sale
3	Metallic Waste	1000.00	Kg/M	Reuse / Sale
4	Canteen garbage	200.00	Kg/M	Reuse / Sale
5	Boiler ash	600.00	MT/M	Sale to brick or cement manufactures / landfill with soil layer on top or in a covered shed
6	Boiler Refractory	1.0	MT/Y	Land filling in own premises
7	Cooling and strom water drain sludge	500	Kg/Y	Land filling in own premises
8	Sand from water filtration & drained (decontaminated)	1.0	MT/M	Land filling in own premises
9	Used glass bottles Broken glass	500	Kg/Y	Sale
10	Empty HDPE Bags	1000	Nos/Y	Sale
11	ETP Sludge	500	Kg/M	Use as manure

(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 | ... | 37.0 CMD |
| (ii) Water gets Polluted & Pollutants are Biodegradable | ... | 30.0 CMD |
| (iii) Water gets Polluted, Pollutants are not Biodegradable & Toxic | ... | 0.00 CMD |
| (iv) Industrial Cooling, spraying in mine pits or boiler feed | ... | 643.0CMD |
| (v) Gardening/Agriculture | ... | 20.0 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) 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 dust collector of sufficient capacity to control the emissions.

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. 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 55 dB(A) during day time and 45 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.
- d. 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.
- e. Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
- f. 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
- g. D.G. Set shall be operated only in case of power failure
- h. The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set

b. Standards for Emission of AIR Pollutants:-

- | | | |
|---------------------------------------|---------------|---|
| 1) SPM/TPM | Not to exceed | 100 mg /Nm ³ (for Captive Plant) |
| 2) SPM/TPM | Not to exceed | 150 mg/ Nm ³ (for chemical plant). |
| 3) SO ₂ (for F.O as fuel) | Not to exceed | 1620 kg/day. |
| 4) SO ₂ (for coal as fuel) | Not to exceed | 1080 kg/day. |
| 5) HCL | Not to exceed | 35 mg/ Nm ³ . |
| 6) Chlorine | Not to exceed | 3.0 ppm. |
| 7) NO _x | Not to exceed | 50 ppm. |

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

Sr. No.	Type Of Fuel	Quantity	UOM
1	LDO/F.O/Diesel	18.00	MT/day
2	Coal /Fire wood/Bio-mass	110.00	MT/day

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

Sr. No.	Chimney Attached To	Height in Mtrs.
1	TP-10 (2 Nos.)	30.00
2	TP-04 & RFB-15	32.00
3	SM-80 / TP-15	32.00
4	10 TPH Boiler & VTAIF-35	35.00

- (iii) 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.

- (iv) 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 & TRANSBOUNDARY MOVEMENT) RULES, 2008:

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

Sr. No.	Type Of Waste	Quantity	UOM	Disposal
1	1.3 Oily sludge emulsion	200.00	Kg/M	Used as fuel
2	1.6 Still bottoms from distillation process	25.00	MT/M	Recycled in process
3	1.7 Spent catalyst and molecular sieves	10.00	MT/M	CHWTSDF for incineration
4	5.1 Used /spent oil	75.00	Kg/M	Used as fuel
5	15.2 Discarded asbestos	25.00	Kg/M	CHWTSDF for incineration
6	19.1 Residue/sludge containing phenol	500.00	Kg/M	Recycled in process
7	20.2 Spent solvents	100.00	Kg/M	Used as fuel
8	33.1 Chemical-containing residue	200.00	Kg/M	Used as fuel
9	1.9 ETP sludge containing hazardous constituents	500.00	Kg/M	Used as manure

- (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, 2003.
 - 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. 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.
 - c. 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 2003 and shown & submitted to the Board as & when asked for.

7. 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.

8. This is issued as per the decision taken in the meeting of the Consent Committee held on 06/05/2013. It was decided to grant renewal of consent with condition that:-

1. Industry shall submit Bank Guarantee of Rs. 2 lakhs towards the O &M of pollution control system and
2. Bank Guarantee of Rs. 2 lakhs towards submission of Environment statement, HW returns, (Form-IV) and Cess returns within one month (i.e-upto-10.06.2013).

The Bank Guarantees shall be submitted at Regional Office Raigad within 15 days period.

9. The Capital investment of the industry is Rs. 67.84 Cr.

(Rajeev Kumar Mital IAS)
Member Secretary

To,
SI Group India limited
Vill: Rasal, Post: Pali, Tal: Sudhagad,
Dist: Raigad, Maharashtra, Pali-410205
India.

Copy for information to:-

Regional Officer MPCB Raigad. Shall submit the compliance of CAC decision.
Sub-Regional Officer MPCB Raigad-II
Chief Account Officer MPCB Mumbai

Received Consent fee of -

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	300100	965026	23 Jan 2013	SBI Bank