

# MAHARASHTRA POLLUTION CONTROL BOARD

|  |   |  |
|--|---|--|
| Tel: 24010437/24020781/24014701                              |  | Kalpataru Point, 2 <sup>nd</sup> - 4 <sup>th</sup> Floor |
| Fax: 24024068 / 24023515                                     |   | Opp. Cine Planet Cinema,                                 |
| Website: <a href="http://mpcb.gov.in">http://mpcb.gov.in</a> |   | Near Sion Circle, Sion (E)                               |
| E-mail: <a href="mailto:ast@mpcb.gov.in">ast@mpcb.gov.in</a> |   | Mumbai-400 022.  |

RED/SSI

Date: 23/02/2015

Consent No. BO/AST/ RO Kolhapur/EIC No. KP-16740-15/O/CC- 1937

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 Waste (Management, Handling & Transboundary Movement) Rules 2008 and Amendment Rules, CONSENT is hereby granted to

**M/s. SI Group India Ltd.,  
Plot No. D-1/3, MIDC Lote Parshuram,  
Tal. Khed, Dist. Ratnagiri**

located in the area declared under the provisions of the Water Act, Air act and Authorization under the provisions of HW(MH & 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 for a period up to: 30.06.2015
2. The Consent is valid for the manufacture of -

| Sr. No. | Products & by products                                 | Maximum Quantity |
|---------|--|------------------|
| 1.      | Resins (Phenolic, Polyurathanes, Alkyl, Polyester etc) | 20,000 MT/A      |
| 2.      | Alkyl Phenols & their Derivatives                      |                  |
| 3.      | Antioxidants   |                  |
| 4.      | Other related products                                 |                  |

### 3. CONDITIONS UNDER WATER ACT:

- (i) The daily quantity of trade effluent from the factory shall not exceed 148 m<sup>3</sup>.
- (ii) The daily quantity of sewage effluent from the factory shall not exceed 10 m<sup>3</sup>.

#### (iii) Trade Effluent:

**Treatment:** The applicant shall operate 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:

| Sl. No. | Parameter              | Limit         | Standard  |
|---------|------------------------|---------------|-----------|
| 1       | pH                     | Between       | 5.5 to 9  |
| 2       | Suspended Solids       | Not to exceed | 100 mg/l  |
| 3       | BOD 3 days 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       | Sulphate               | Not to exceed | 1000 mg/l |
| 8       | Chloride               | Not to exceed | 600 mg/l  |
| 9       | Phenolic compounds     | Not to exceed | 5 mg/l    |
| 10      | Iron                   | Not to exceed | 3 mg/l    |

- (iv) **Trade Effluent Disposal:** The treated effluent shall be recycled/reused in the process at maximum extent & remaining shall be discharged into CETP.

(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 27°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 purpose within own premises.

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

| Sr. No. | Type of Waste     | Quantity/Month | Disposal                           |
|---------|-------------------|----------------|------------------------------------|
| 1.      | Paper Bags/Waste  | 25,000 Kg/A    | Reuse/Sale to authorized recycler  |
| 2.      | Used cotton waste | 1000 Kg/A      |                                    |
| 3       | Metallic waste    | 15,000 Kg/A    |                                    |
| 4       | Wooden Scrap      | 12,000 Kg/A    |                                    |
| 5       | Boiler Ash        | 5 MT/Day       | Sale to Brick/ Cement manufacturer |

(viii) **Other conditions:** The industry shall monitor effluent quality regularly. The applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Cess Act, 1977 (to be referred as Cess Act) and Rules there under: The daily water consumption for the following categories is as under:

|   |       |     |
|---|-------|-----|
| Domestic  | 12.0  | CMD |
| Industrial processing generating Bio-Degradable waste water     | 208.0 | CMD |
| Industrial processing generating Non-Bio-Degradable waste water | ---   | CMD |
| Industrial Boiler/Cooling etc.                                  | 46.0  | CMD |
| Any other and gardening.  | ---   | 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 which is also available on MPCB website at <http://mpcb.mah.nic.in/images/cessform1.pdf>.

#### 5. CONDITIONS UNDER AIR ACT:

(i) The applicant shall operate 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:

1. Air Pollution control equipment of sufficient capacity shall be provided to limit the emissions.
2. Scrubber of sufficient capacity shall be provided to control the gases emissions.

##### Standards for Emissions of Air Pollutants:

|       |                             |               |      |                    |
|-------|-----------------------------|---------------|------|--------------------|
| (i)   | SPM/TPM                     | Not to exceed | 150  | mg/Nm <sup>3</sup> |
| (ii)  | SO <sub>2</sub> (Coal)      | Not to exceed | 120  | Kg/day             |
| (iii) | SO <sub>2</sub> (Briquette) | Not to exceed | 14.4 | Kg/day             |
| (iv)  | Acid Mist                   | Not to exceed | 35   | mg/Nm <sup>3</sup> |

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

| Sr. No. | Type of Fuel           | Quantity |
|---------|------------------------|----------|
| 1       | Furnace Oil/LDO        | 5 MT/D   |
| 2       | Coal/Biomass Briquette | 12 MT/D  |

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

| Sr. No. | Chimney attached to       | APCS provided                    | Height in meters |
|---------|---------------------------|----------------------------------|------------------|
| 1.      | FO fired Boiler (Standby) | Common Stack                     | 34.0             |
| 2.      | Briquette fired Boiler    | Cyclone separator and Bag Filter |                  |
| 3.      | Process Reactor           | Alkali Scrubber                  | ...              |
| 4.      | DG set 250 KVA            | Stack                            | 2.5*             |

\* above roof level

- (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 should not cause any nuisance in surrounding area.
- 2) The industry should monitor stack emissions and ambient air quality regularly.

#### 6. CONDITIONS UNDER HW (M,H &TM) RULES, 2008 :

(i) The applicant shall handle hazardous wastes as specified below:

| Sr. No. | Item No. of process generating HW as per Schedule-I | Type of Waste                                | Quantity   | Disposal                       |
|---------|---|--|------------|--------------------------------|
| 1.      | 23.1  | Waste Residue from resin /Filter             | 15000 Kg/A | CHWTSDF                        |
| 2.      | 20.3  | Distillation Residue                         | 12000 Kg/A |                                |
| 3.      | 1.7   | Spent Catalyst                               | 5000 Kg/A  |                                |
| 4.      | 5.1   | Used/spent oil                               | 1000 Kg/A  |                                |
| 5.      | 15.2  | Asbestos Gasket                              | 150 Kg/A   | CHWTSDF                        |
| 6.      | 19.1  | Residue sludge Containing Phenol             | 5000 Kg/A  | CHWTSDF                        |
| 7.      | 20.2  | Spent Solvents                               | 20000 Kg/A | MoEF/SPCB authorized recyclers |
| 8.      | 34.1  | Residue from Barrels cleaning                | 200 Kg/A   | CHWTSDF                        |
| 9.      | 1.9   | ETP sludge containing hazardous constituents | 5000 Kg/A  | CHWTSDF                        |
| 10.     | 33.3  | Decontaminated Barrels                       | 3000Nos./A | Return to Manufacturer         |

7. Whenever due to any accident or release of gases 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 and the production process should be stopped by taking all necessary safety measures. The industry shall also monitor the emissions and ensure that the emissions do not cause any harm or nuisance in the surrounding. The industry should not restart the process without permission of the Board and other statutory organizations as require under the law.
8. **General Conditions:**
- a. Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
  - b. 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.
  - c. The applicant shall bring minimum 33% of the available open land under green coverage/plantation. The applicant shall submit a yearly statement by 30<sup>th</sup> September every year on available open plot area, number of trees surviving as on 31<sup>st</sup> March of the year and number of trees planted by September end.
  - d. 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.
  - e. The applicant shall provide for an alternate electric power source sufficient to operate all pollution control facilities installed by the 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 and conditions of this consent regarding pollution levels.
  - f. 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 equipment provided for without previous written permission of the Board.
  - g. 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.
  - h. The applicant shall make an application for renewal of the consent at least 60 days before the date of expiry to the consent.
  - i. The firm shall submit to this office, the 30<sup>th</sup> day of September every year, the Environmental Statement Report for the financial year ending 31<sup>st</sup> March in the prescribed Form-V as per the provisions of rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992.
  - j. An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
  - k. 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.
  - l. 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 down stream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system.
  - m. Neither storm water nor discharge from other premises shall be allowed to mix with effluents from the factory.

- n. 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.
9. The consent should not be construed as any exemption from obtaining necessary NOC from other Govt. agencies as may deemed fit necessary.
10. If CETP does not work for achieving standards and problem of pollution occurs, industry should voluntarily stop the production or total effluent should be reused.
11. This consent is issued as per the delegation of powers to HOD's vide Board Office Order No. 31/2013 dtd. 01/03/2013.
12. The industry shall also comply with the Industry specific standards notified under Environment Protection Act.
13. Industry shall submit the Bank Guarantee of Rs. 1.0 Lakh within 15 days in favour of Regional Officer, Kolhapur towards Operation & Maintenance of Pollution Control Systems.
14. The total capital investment is Rs 11.91 Crore (Existing- 11.01 Crore + proposed- 90.0 Lakh) as per C. A. Certificate submitted by the industry.

*(P. K. Mirashe)*  
23/12/14

(P. K. Mirashe)

Assistant Secretary (Technical)

To,  
M/s. SI Group India Ltd.,  
Plot No. D-1/3, MIDC Lote Parshuram,  
Tal. Khed, Dist. Ratnagiri

Copy to: Regional Officer, MPCB, Kolhapur / Sub-Regional Officer, MPCB, Chiplun – They are requested to ensure compliance of consent conditions & report the same.

- 1) Chief Accounts Officer, MPCB, Mumbai  
2) Cess Wing/Master file.

Received Consent fee of –

| Amount (Rs.) | D.D. No. | Date       | Drawn on |
|--------------|----------|------------|----------|
| 5,000/-      | 446656   | 26.12.2014 | SBI Bank |