

MAHARASHTRA POLLUTION CONTROL BOARD

Phone : 4010437/4020781
/4037124/4035273
Fax : 24044532/4024068 /4023516
Email : enquiry@mpcb.gov.in
Visit At : <http://mpcb.gov.in>



Kalpataru Point, 3rd & 4th floor, Sion- Matunga
Scheme Road No. 8, Opp. Cine Planet Cinema,
Near Sion Circle, Sion (E),
Mumbai - 400 022

Consent order No :- Formate 1.0 / BO/CAC-Cell/ EIC No NM-5024-14 / CAC - 7048
Date- 25/07/2014

To,
M/s.SI-Group India Ltd.,
Plot No.D-2/1, MIDC, TTC Industrial Area,
Thane Belapur Road, Turbhe,
Navi Mumbai.

Subject: Renewal of Consent RED category.

Ref : 1. Earlier Consent granted vide no BO/RO-Navi Mumbai/PCI-I/EIC-NM-1415-09/R/CC-12 dtd 25/06/2009
2. Minutes of CAC meeting held on 12.06.2014 and 10.07.2014

Your application: CR1401000272

Dated: 18/12/2013

For: Renewal of Consent

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 01.01.2014 to 28.02.2017.
2. The actual capital investment of the industry is Rs.200.68 Crs. (As per C.A.Certificate submitted by industry)
3. The Consent is valid for the manufacture of -

Sr. No.	Product / By-Product Name	Maximum Quantity in MT/A
1	Cumene	60000
2	Phenol; Dodecyl & other alkyl phenols, Cumyl Phenol, Isopropyl Phenol	38400
3	Acetone and its derivatives (Diacetone Alcohol and Isophorone)	33810
4	Phthalic Anhydride	11000
5	Phthalates	6250
6	Alpha Methyl Styrene & its Dimers	900
7	Fumaric acid	630
8	Capacitor fluids and other Speciality fluids (excluding Heat Transfer Fluids)	2000
9	Isobutyl Benzene	3200
10	Diphenyl Oxide	3000
11	Acetophenone	500
12	Phosphate Plasticizers	1000
13	Heat Transfer Media	3000
14	Perfumery products, Hexylene Glycol, C10,	4650

	C12, Aldehydes, PDMC, CHP, Woodytol, TMCNONE, TMCOL.	
15	Weak Maleic Acid (30%) (By-Product)	3000
16	PAN Purge Cut (By-Product)	200
17	Hexene (By-Product)	500
18	Electricity	4.5 MW
19	Steam	38 TPH

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	1021	As per Schedule -I	CETP
2.	Domestic effluent	126	As per Schedule -I	CETP

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.	Boiler 6 nos	06	As per Schedule -II
2.	Furnace 5 nos	05	
3.	Process vent 2 nos	02	
4.	Heater	01	
5.	Cumene Plant Knock out vessel	01	
6.	DG set 635 KVA	01	

6. Conditions about Non Hazardous Wastes:

Sr. no.	Type Of Waste	Quantity & UoM	Treatment	Disposal
1	Ion Exchange resins from DM plant/DAA plant.	1 MT/Y	--	Landfill
2	Boiler refractory	2 MT/Y	--	
3	Cooling water and storm water drain sludge	1 MT/Y	--	
4	Sand from water filtration	11 MT/Y	--	
5	Empty HDPE bags	1000 Nos/Y	De-contamination	Sale to authorized party after decontamination
6	Used glass bottles, broken glass ware	500 Nos/Y		
7	Plastic Bottles	200 Nos/Y		

8	Used Cotton hand gloves	12000 pairs/Y	--	Landfill
09	Cumene Catalyst (Inert clay)	20 MT/Y	--	
10	Miscellaneous (Rubber gasket/Packing/Transmission Belt/ V-belts, Teflon gasket/packing, PP/FRP/HDPE material, suction air filter of compressor/GTG PTFE/Viton packing etc.)	1 MT/Y	--	Sale to authorized party/Landfill

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
As per Schedule - I						
1	Pan Tar	1.2	100	MT/Year	--	By sale to authorized vendor/CHWTSDF
2	Tar Sample		5			
3	Distillation Residue	1.4	30	MT/Year	--	By sale to authorized vendor/CHWTSDF
4	Residue from AMS/AMS Dimer/ACP/ Isophorone/DPO/IBB/Phenol Plant	1.4	2610	MT/Year	--	Captive use as a fuel
5	Cumene Bottoms	1.6	2100	MT/Year	--	Captive use as a fuel or sale to authorized party
6	Catalyst containing copper chromite	1.7	8	MT/Year	--	By sale to authorized vendor/CHWTSDF
7	Catalyst containing Vanadium Pentoxide					
8	Spent Catalyst of R&D and pilot plant					

9	Spent Clay from Clay Treater					
10	Alumina of instrument air dryer					
11	Polymeric resin catalyst of DDP/NP/ACP/AMSD plants		12	MT/Year	--	CHWTSDF
12	Raney Nickel Catalyst		3	MT/Year	--	Regenerated by manufacturer /CHWTSDF
13	Spent lubricating oil/ Used transformer oil	5.1	12	MT/Year	--	Sale to authorized actual user/ reprocessor
14	Cotton waste containing oil and LO/ Naphtha filters	5.2	2	MT/Year	--	CHWTSDF
15	Phenolic Tar	19.1	2400	MT/Year	--	Captive use as a fuel/ sale to authorized party
16	Waste H.T.M., R&D / Pilot plant /Analytical waste / Spent solvents / CTC etc.	20.1	10	MT/Year	--	Sale to authorized party/ CHWTSDF
17	Solvent A	20.3	30	MT/Year	--	Sale to authorized party/ CHWTSDF
18	Solvent B		350			
19	Empty carboys	33.3	700	Nos/Year	--	CHWTSDF
20	Empty barrels/ drums		700			
21	Clarifloculator sludge	34.3	20	MT/Year	--	CHWTSDF
22	Filter cloth, elements, cartridges, super cell	35.1	2	MT/Year	--	CHWTSDF
23	spent carbon	35.3	6	MT/Year	--	CHWTSDF
24	Residue from boiler no 4	36.2	3	MT/Year	--	CHWTSDF
25	ETP Bio Sludge	34.3	2400	MT/Year	--	CHWTSDF
As per Schedule - II						

26	Used PVC hand gloves/ goggles	B11	0.5	MT/ Year	--	CHWTSDF
27	Asbestos gaskets/ sheets/ hand gloves	B21	5	MT/ Year	--	CHWTSDF
28	Asbestos cement sheets					
29	Miscellaneous (Not covered in other categories)	D5	1	MT/ Year	--	CHWTSDF

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.

For and on behalf of the
Maharashtra Pollution Control Board

(Rajeev Kumar Mital, IAS)
Member Secretary

Received Consent fee of -

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	2006872	034044	16.12.2013	State Bank of India
2	100/-	034365	24.01.2014	State Bank of India

The balance fees of Rs 735826/- shall be considered at the time of next renewal.

Copy to:

1. Regional Officer -Navi Mumbai and Sub-Regional Officer-Navi Mumbai-I, MPCB, Navi Mumbai. 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.

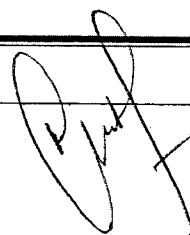
Schedule-I

Terms & conditions for compliance of Water Pollution Control:

- 1) A] As per your application, you have provided the Effluent Treatment Plant (ETP) with the design capacity of 1147 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 prescribed by Board (If any)
		Limiting Concentration in mg/l, except for pH
01	pH	Between 5.5 to 9.0
02	Oil & Grease	Not to exceed 10
03	BOD (3 days 27°C)	Not to exceed 100
04	Suspended Soilds	Not to exceed 100
05	COD	Not to exceed 250
06	Phenolics (C6H5OH)	Not to exceed 1.0
07	Phosphate(as P)	Not to exceed 5.0
08	Chloride	Not to exceed 600
09	Sulphate	Not to exceed 1000
10	TDS	Not to exceed 2100

- C) The treated effluent shall be discharge to the CETP.
- 2) A.] As per your consent application, the sewage is being treated at secondary stage in ETP.
- B] In case the treatment system is combined for trade effluent and sewage then the standards and disposal path prescribed at sr. no.1 A & 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	1229
2.	Domestic purpose	400
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	829
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	00
5.	Agricultural / Gardening	110

- 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	Boiler (BF 731)	Stack	18.5	LSHS/FO	600	0.5/ 4.5	1296
2	Boiler (BF 732)	Stack	18.5	LSHS/FO	600	0.5/ 4.5	1296
3	Boiler (BF 733)	Stack	20	LSHS/FO /Tar Blend	600	0.5/ 4.5	1296
4	Boiler (BF 737 & BF 378)	Stack	35	LSHS/FO /Tar Blend	1000 & 250 respectively	0.5/ 4.5	2700
5	HRSG (BF 739)	Stack	45	Exhaust gas from GTG/LSH S/FO/RL NG	1310 & 2053	0.5/ 4.5, For RLN G- Nil	4434
6	PAN Plant-Salt Furnace (BA 301)	Stack	12.8	LSHS/FO	100 Kg/Hr. (Operation during start up only)	0.5/ 4.5	216
7	Cumene Plant - Hot Oil Furnace (BA 101)	Stack	25.9	LSHS/FO	100 Kg/Hr. (Infrequent Operation)	0.5/ 4.5	216
8	Cumene Plant - Hot Oil Furnace (BA 101A)	Stack	30	RLNG/ LSHS/FO	450	0.5/ 4.5	972
9	Cracker-Dowtherm Furnace (BA 201)	Stack	10.7	LSHS/FO	50	0.5/ 4.5	108
10	Pilot Plant - Package type Boiler/Thermic Fluid Heater	Stack	20	LSHS/FO	50 Kg/Hr. (Infrequent Operation)	0.5/ 4.5	108
11	KTI Furnace-Phenol Super Heater (BA 2201)	Stack	35	LSHS/FO	90	0.5/ 4.5	194
12	Allied Furnace- Catalyst regeneration air heating Furnace (BA 2202) + Hot Oil Furnace (BA 2302)	Stack	35	LSHS/FO	120	0.5/ 4.5	259
13	Cumene Plant Knock out vessel (FA 108)	Stack	60	NA	NA	NA	NA
14	PAN Plant vent	Stack	22.2	NA	NA	NA	NA

	gases						
15	Oxidiser off gases	Stack	19	NA	NA	NA	NA
16	DG set 635 KVA	Stack	6	Diesel	45	0.5/ 4.5	6

Industry shall use FO as a start up fuel only.

- 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.
- 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
Acid Mist	Not to exceed	35 ppm

Standards for Emissions of VOC Pollutants:

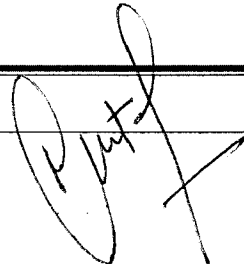
Sr.No	Compounds	Maximum emission limit (mg/Nm ³), dry basis
1	MA,PA,Phenol	20
2	Ethyl benzene (EB), Styrene, Toulene, Xylene, Aromatics, EG, PG	100
3	Non-methane HC (Paraffin), Acetone, olefins	150

- The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacemenalteration well before its life come to an end or erection of new pollution control equipment.
- 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	C to R	Rs.5/- Lakhs	Within 15 days from the date of issue of consent	O & M of PCS	28.02.2017	30.06.2017

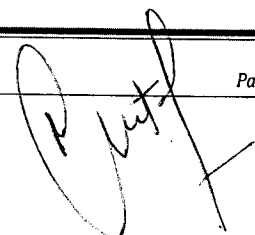
Maharashtra Pollution Control Board



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 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.
- 9) 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.
- 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
- Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
 - 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.
 - 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.
 - Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
 - 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
 - D.G. Set shall be operated only in case of power failure.
 - The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.
 - 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 statement on available open plot area, number of trees surviving as on 31st March of the year and number of trees planted by September end, with the Environment Statement.
- 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 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 dtd. 16.11.2009 as amended.

—0000—