

MAHARASHTRA POLLUTION CONTROL BOARD

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Scheme Road No. 8, Opp. Cine Planet Cinema, Near
Sion Circle, Sion (E),
Mumbai - 400 022

Red/L.S.I

Date: 10/3/2012

Consent No: BO/AS(T)/E/EIC NO.RD-2293-12/CC/AC-2861 05/04/2013

Consent to Establish under Section 25 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

M/s Sudarshan Chemical Industries Ltd.
(Pesticides, Pigment & Intermediates Div)
Plot No. 44,45,46, MIDC Dhatav, Roha
Dist- Raigad.

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 Establish is granted for a period up to: commissioning of the unit or 5 years whichever is earlier.

"Consent to Establish will be operational only after obtaining Environmental Clearance from competent authority by the applicant and subject to the compliance of conditions stipulated in an Environmental Clearance including conditions which may be more stringent, if stipulated by /in the Environmental Clearance."

2. The Consent is valid for the manufacture of -

Sr. No.	Product Name	Maximum Quantity	UOM
1	Pigments (Organic pigments, Inorganic pigments, Pearl Pigments, Pigment Preparation, Fluorescent Pigment, High Performance pigments, HP dyes & intermediates)	28368	MT/A
	BY PRODUCTS		
1	Phosphoric Acid (12-15 %)	250.00	MT/M
2	Recovered Pigment	6.00	MT/M
3	POCl ₃	10.00	MT/M
4	Dicalcium Phosphate	400.00	MT/M

3. CONDITIONS UNDER WATER ACT:

(i) The daily quantity of trade effluent from the factory shall not exceed 7246.0 M³.

(ii) The daily quantity of sewage effluent from the factory shall not exceed 52.0 M³.

(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:

1	pH	Between	6.5 to 8.5
2	BOD 3 days 27 deg C	Not to exceed	100.0 mg/l
3	Oil & Grease	Not to exceed	10.0 mg/l
4	Suspended Solids	Not to exceed	100.0 mg/l.
5	COD	Not to exceed	250.0 mg/l.
6	Hexavalent Chromium	Not to exceed	0.1 mg/l.
7	Total Chromium	Not to exceed	2.0 mg/l.
8	Phenolic Compound	Not to exceed	1.0 mg/l.
9	Cadmium	Not to exceed	2.0 mg/l.
10	Zinc	Not to exceed	5.0 mg/l.
11	TAN	Not to exceed	50.0 mg/l.
12	Lead	Not to exceed	0.1 mg/l.
13	Selenium	Not to exceed	0.05 mg/l.
14	Total RC	Not to exceed	1.00 mg/l.
15	Phosphates	Not to exceed	5.00 mg/l.
16	Pesticide	Not to exceed	0.10 mg/l.
17	Cyanide	Not to exceed	0.20 mg/l.
18	Copper	Not to exceed	3.00 mg/l
19	Bioassay test-90 % survival of fish after first 96 hours in 100 % effluent		

(iv) **Trade Effluent Disposal:** The treated trade effluent shall be recycled / reused to the maximum extent in the process and 59 CMD shall be used for gardening and remaining if any, should be discharge into CETP after expansion of CETP capacity for 12.5 MLD and total 22.5 MLD.

(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	Boiler Ash	19.00	Ton/D	Sale for offsite recycling / brick making/ CHWTSDP
2	Paper, Plastic, sweepage, Fiber drums	890.00	Kg/Day	Onsite incineration

3	Mica waste (dry)	1500.00	MT/A	Sale for offsite recycling/ CHWTSDF
4	Canteen waste	50.00	Kg/Day	Use in Biogas plant/ compost
5	Rubber, handgloves, PVC shoes, Tarpaulin, Paper bags, hose pies	20.00	MT/A	Sale for offsite recycling/ CHWTSDF
6	Broken discarded glass	5000.00	Kg/Ann m	Sale for offsite recycling/ CHWTSDF
7	Boiler soot	4000.00	Kg/Ann m	Sale for offsite recycling/ CHWTSDF
8	Insulating material/ Thermocol	20.00	Ton/Y	Sale to authorised vendor/ CHWTSDF
9	Excess biomass from ETP (dry basis)	60.00	MT/M	Use as bio fertilizer /compost/CHWTSDF/ other ETP
10	Iron Scrap (metallic scrap)	800.00	MT/A	Sale to authorised vendor for offsite recycling
11	Plastic (Non metallic scrap)	300.00	MT/A	Sale for offsite recycling/ CHWTSDF
12	Paper	200.00	MT/A	Sale for offsite recycling/ CHWTSDF
13	Electrical Scrap	20.00	MT/A	Sale for offsite recycling/ CHWTSDF
14	Filter Cloth	50.00	MT/A	Sale for offsite recycling/ CHWTSDF
15	AC Sheets	10.00	MT/A	Sale for offsite recycling/ CHWTSDF
16	Discarded Barrels	20000.00	Nos./Y	Sale for decontamination
17	Wooden Scraps	300.00	MT/A	Sale for offsite recycling

(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	...	655.00	CMD
(ii) Water gets Polluted & Pollutants are Biodegradable	...	8479.00	CMD
(iii) Water gets Polluted, Pollutants are not Biodegradable & Toxic	...	0.00	CMD
(iv) Industrial Cooling, spraying in mine pits or boiler feed	...	272.00	CMD
(v) Plantation / Gardening	...	0.00	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:

- I. Scrubber of sufficient capacity shall be provided to a) organic pigment processing section, b) Inorganic pigment processing section, c) Chlorination, d) Cadmium dissolution section, e) Calcination section, f) Mica section, g) NOx scrubber to pigment plant, h) MCP reaction, i) HCL scrubber to PMN reaction, j) ammonia scrubber to hexa plant, k) incinerator.
- II. Dust collector of adequate capacity shall be provided to a) blending section, b) Drying section, c) Pulveriser, d) Grinder to limit the emission & any other source of particulate emissions.
- III. Multi-cyclone type dust collector should be provided to Boiler.
- IV. There shall not be any secondary (fugitive) emissions.

b. Standards for Emissions of Air Pollutants:

(i) SPM/TPM	Not to exceed	150.00	mg/Nm ³
(ii) SO ₂ Boiler	Not to exceed		Kg/day
(iii) SO ₂ Process	Not to exceed	50.00	ppm
(iv) HCL	Not to exceed	35.0	mg/nm ³
(v) NOx	Not to exceed	50.00	ppm
(vi) Chlorine	Not to exceed	3.00	ppm
(vii) Methyl Chloride	Not to exceed	20.00	ppm

Standards for Stack Emissions:

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

Sr. No.	Type Of Fuel	Quantity	UOM
01	HSD	100.00	KL/A
02	LDO	2.00	KL/Day
03	LPG	200.00	Kg/Day

- (ii) Standards for emission of VOC Pollutants

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

- (A) The industry shall phase out the Ozone Depleting Substances (ODS) as per ODS Rules 2000 and shall be informed to MPCB within a period of 3 months.

GUIDELINES FOR FUGITIVE EMISSION CONTROL

1. Fugitive emissions over reactors, formulation areas, centrifuges, chemicals loading, transfer areas etc. are yet to be collected through hoods and ducts by induced drafts and controlled by scrubber / dust collector.

2. Usually scrubbers installed for channelized emissions are used for fugitive emissions to control also & sometimes dedicated scrubbers are provided. This practice may be permitted as long as tail gas concentrations are within the prescribed limits.
3. In addition, organic gaseous emissions (odour & toxic) be routed to activated carbon beds (absorption) or to thermal oxidizer and for dust emissions cyclones / bag filters are to be provided.
4. Emphasis be given to solvent management / solvent loss prevention.
5. Enclosures to chemical storage area, collection of emissions from loading of raw materials. In particulars, solvents through hoods and ducts by induced draft, and control by scrubber / dust collector or to be ensured.
6. Vapour balancing, nitrogen blanketing ISO tanks etc. to be provided, besides special care needs to be taken for control in respect of odorous chemicals.

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

Sr. No.	Chimney Attached To	Height in Mtrs.
1	Boiler	45.00
2	Mica ABS 300013	20.00
3	Mica Air Wash TTK 300282	20.00
4	White Plant ABS 300008	14.00
5	Mica ABS 300046	8.00
6	White Plant ABS 300009	14.00
7	White Air Washer AWU 300001	15.00
8	White Plant Coating ABS 300010	14.00
9	IOC ABS 300014	14.00
10	DG Set (250 KVA)	4.00
11	Pearl Plant (PA-341101)	13.00
12	DG Set (1000 KVA)	6.30
13	DG Set (625 KVA)	6.00
14	HPP Ammonia Scrubber	20.00
15	Batch Making New Benz Pigment	20.00
16	Batch Making New Azo Pigment	20.00
17	Rubine CDR 300001	20.00
18	Yellow CDR 300003	20.00
19	RLC CDR 300002	20.00
20	Rubine CDR 300004	2.00

* installed above the roof of bldg

(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 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

7. CONDITIONS UNDER HAZARDOUS WASTE (MANAGEMENT, HANDLING & TRANSBOUNDRY MOVEMENT) RULES, 2008:

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

Sr. No.	Type Of Waste	Quantity	UOM	Disposal
1	3.3 Sludge and filters contaminated with oil	300.00	Kg/Yr	CHWTSDF
2	33.1 Chemical-containing residue	1.00	MT/Yr	CHWTSDF or incinerat

				in plant
3	33.3 Discarded containers / barrels liners	1200.00	Nos/Yr	Sale to authorised pa after decontamination
4	33.3 Discarded containers / barrels liners	2.00	MT/Yr	CHWTSDF or incinerate plant
5	33.3 Discarded containers / barrels liners	37.00	MT/Yr	CHWTSDF
6	34.1 Flue gas cleaning residue*	3.00	MT/Yr	CHWTSDF
7	34.2 Toxic metal-containing residue from water purification	500.00	Kg/Yr	CHWTSDF or sale authorised recycler
8	35.1 Filters and filter material wh have organic liquid	6.00	MT/Yr	CHWTSDF or incinerate plant
9	36.2 Ash from incineration hazardous waste	12.00	Lit/Yr	CHWTSDF
10	5.1 Used /spent oil	11200.00	Lit/Yr	CHWTSDF or Sale authorised party approv by MOEF/CPCB/MPCB
11	5.2 Wastes/residue containing oil	300.00	Lit/Yr	CHWTSDF or incinerate our own facility
12	9.1 Lead slag/Lead bearing residue	12.00	MT/Yr	CHWTSDF or sale authorised recycler manufacture & suppliers
13	15.2 Discarded asbestos	1.00	MT/Yr	CHWTSDF
14	20.2 Spent solvents	1500.00	MT/M	CHWTSDF or sale authorisd recycler
15	20.3 Distillation residues	5.00	MT/M	CHWTSDF or incinerat in plant
16	Chemical sludge from waste wa treatment	3600.00	MT/Yr	CHWTSDF
17	29.2 Chemical sludge contain residue pesticides	40.00	MT/Yr	CHWTSDF

(ii) Treatment: - NIL

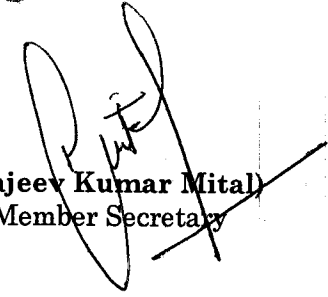
8. Whenever due to any accident or gas leakage or other unforeseen act or even, such emissions occur or is apprehended to occur in excess of standards laid down, such information shall be forthwith Reported to Collector, Directorate of Industry, Safety and Health, Police Station, Fire Brigade, Directorate of Health Services, Department of Explosives, Board and Local Body and the production process should be stopped by taking all necessary safety measures. The industry shall also monitor the emission 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 organization as require under the law.

9. 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.
10. This consent shall not be construed as any exemption from obtaining necessary No Objection Certificate from other Government agencies as may deemed fit necessary.
11. If CETP does not operate efficiently and problem of pollution occurs, industry should voluntarily stop the production or total effluent should reuse.

12. The applicant shall not take any effective steps towards implementation of the project before obtaining Environmental Clearance as per EIA notification 2006 and amendments thereto. If any non-compliance of the conditions of consent to Establish observed, the Board will initiate appropriate legal action including, revocation of consent and further action and consent to operate will be issued only after expansion of CETP capacity from 10 MLD to 22.5 MLD and NOC from CETP before starting actual commercial Production.
13. Industry shall not start any manufacturing activity on plot No 44 & 45 as per these plots are attracts RRZ policy 2009 and only godown activity is allowed on these plots.
14. This consent is issued as per the decision taken in the meeting of the Consent Apr. Committee of the Board held on 05/03/2012.
15. The applicant shall obtain consent to operate before starting actual commercial Production.
16. The Capital investment of the industry is Rs 1437.50 Cr.
(Existing C.I. Rs 40.50 Cr + Increased C.I. Rs 1397 Cr)


 (Rajeev Kumar Mital)
 Member Secretary

To,
 M/s Sudarshan Chemical Industries Ltd.
 (Pesticides, Pigment & Intermediates Div)
 Plot No. 44,45,46, MIDC Dhatav, Roha
 Dist- Raigad.

Copy to :
 RO, Raigad / SRO, Raigad
 -- They are directed to ensure the compliance of consent conditions.
 CAO/Cess Branch/Master file.

Received Consent fee of -

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
01	2793100/-	699373	14 Feb 2012	Bank of Maharashtra