

MAHARASHTRA POLLUTION CONTROL BOARD

REGIONAL OFFICE, PUNE

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3rd Floor, "Jog Center"
Wakdevadi, Mumbai-Pune Road,
Pune - 411 003.

Red/S.S.I

Date: 07/03/2018

Consent No: RO-PUNE/CONSENT/1803000311

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 6 of the Hazardous and Other Wastes (Management & Transboundary Movement) Rules 2016.

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

CONSENT is hereby granted to

M/s Alvi Rubber Products,
Plot No C-214/3, MIDC Chincholi,
Tal Mohol, Dist Solapur

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 yrs whichever is earlier.
2. The Consent is valid for the manufacture of -

Sr. No.	Product Name	Maximum Quantity	UOM
1	Crum Powder	30	T/M
2	Furnace Oil (Tyre Pyrolysis)	300	T/M
3	Carbon Dust	20	Kg/M

3. CONDITIONS UNDER WATER ACT:

- (i) The daily quantity of trade effluent from the factory shall be Nil.
- (ii) The daily quantity of sewage effluent from the factory shall not exceed 1.00M³.
- (iii) Trade Effluent : NA
- iv) Trade Effluent Disposal: NA
- 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	30	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	Treatment	Disposal
1	Boiler Ash	10	Kg/M	--	Sale to Brick Manufacturer

(viii) **Other Conditions:**

- 1) Industry should monitor effluent quality regularly.
- 2) Industry shall develop green belt of local species in 1/3rd of total area.

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	...	1.50	CMD
(ii) Industrial Processing	...	--	CMD
(iii) Industrial Cooling	...	0.5	CMD
(iv) Agriculture / 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.

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. Standards for Emissions of Air Pollutants:

(i) SPM/TPM	Not to exceed	150	mg/Nm ³
(ii) SO ₂	Not to exceed	0.5	Kg/day

b. Control Equipment:

1. Industry shall provide fume extraction system followed by dust collection system to carbon black handling section.
2. Industry shall provide dust collector followed by wet scrubber to Pyrolysis Kilns/Reactors.
3. There shall not be any fugitive emissions.
4. Industry shall install sensors with alarm at suitable threshold limit for gases like CO. The necessary piping arrangement for gases along with sensors shall be done in work environment so as to ensure safe operational practices.

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 65 dB(A) during day time and 55 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. Standards for Stack Emissions:

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

Sr. No.	Type Of Fuel	Quantity	UOM
1	Bagasse	0.50	MT/M

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

Sr. No.	Chimney Attached To	Height in Mtrs.
1	Reactor/Pyrolysis kiln	11 or as per provision of emission regulation Part-IV issued by CPCB, whichever is higher

- 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.

(v) 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.

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8. CONDITIONS UNDER HAZARDOUS AND OTHER WASTE (MANAGEMENT & TRANSBOUNDARY MOVEMENT) RULES, 2016:

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

Sr. No.	Type Of Waste	Quantity	UOM	Disposal
		-----NA-----		

(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 and Other Waste (M&TM) Rules, 2016.
 - a. 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.
 - 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 and Other Waste (M&TM) Rules, 2016.

9. Specific Conditions:

- (i) Industry shall make necessary provisions for storage of carbon dioxide gas which is used for degassing of the reactor to vent out off gases through condenser - water - burning chamber where these gases are burnt into flame. The degassing of reactor by carbon dioxide shall be done so as to ensure safe closure of the batch process.
- (ii) The flue gases from burning chamber, if any specifically during startup and burning of excess off gases from reactor, shall be vent out through chimney having adequate height 11 mtrs. Or as per provisions of emission regulation Part-IV issued by CPCB whichever is higher.
- (iii) Industry shall use clean fuel such a LPG/PNG during startup of the reactor.
- (iv) Industry shall ensure that there are no leakages from reactor, piping so as to minimize fugitive emissions. The records of preventive maintenance schedule of burner, reactor vessel, pyrolysis chamber and allied piping shall be maintained and made available for inspection during official visits.
- (v) The pyrolysis oil condensed from the vessel shall be collected in storage tanks located in earmarked areas. The pipelines shall be equipped with floating valve so as to avoid spillage due to overflow.
- (vi) There shall not be spillage of pyrolysis oil in and around the factory premises.

- (vii) Pyrolysis oil tanks shall be provided with arrangement of dyke wall and necessary safety arrangements.
- (viii) The vent of pyrolysis oil tanks shall be equipped with adequate capacity carbon filters so as to minimize emissions of off gases to avoid smell nuisance. The carbon filter's media (fine carbon particle size) shall be replaced periodically to ensure effective adsorption of gases.
- (ix) Industry shall maintain logbook which will specify plant operation time, raw material dead stock, product logistics along with their specifications, logistics of carbon dioxide, records of preventive maintenance etc. The records shall be made available to officials during inspections.
- (x) Industry shall make earmarked storage area for raw materials which shall be covered with shed. The storage area shall have cement concrete flooring with plinth height of 0.5 Mtrs. above the ground.
- (xi) Industry shall maintain minimum distance of 10 Mtrs. between plant area, raw material storage area, carbon black storage area and pyrolysis oil storage area.
- (xii) Industry shall keep 10 Mtrs. free passage area within work environment so as to get direct access to plant / raw material storage / carbon black storage area and pyrolysis oil storage area in case of emergencies.
- (xiii) Adequate fire fighting system shall be provided as per prevailing norms laid down by competent authority.
- (xiv) The industry shall comply provisions of "The Manufacture, Storage & Import of Hazardous Chemicals Rules, 1989".
- (xv) The rules and regulations notified by Ministry of Law and Justice, Govt. of India regarding Public Liabilities Insurance Act, 1991 shall be followed.
- (xvi) Industry shall prepare on site and off site disasters management plan which shall be approved by competent authorities.
- (xvii) Industry shall not carry out further processing of pyrolysis oil.
- (xviii) The byproducts like steel wire shall be collected properly and stored in closed shed.
- (xix) Suitable sensor will be installed to ensure that all gases from the reactor have been evacuated before opening of the reactor for transfer of carbon black / steel wire.
- (xx) The produced carbon black will be conveyed through hydraulic / screw conveyor in closed conditions. The carbon black generated from the manufacturing process can also be conveyed / collected / handled by using any other suitable technology, provided the state Board considers the technology to be appropriate.
- (xxi) It shall be ensured that all the materials have been completely removed from the reactor for which a glass inspection window with provision of lights (illumination) shall be provided at the outer enclosures of the reactor. The end of the conveyor will be attached to a bagging plant where all the carbon black will be bagged in HDPE bags and the bags will be properly sealed.
- (xxii) The bagging plant will be equipped with requisite air pollution control arrangements such as dust extraction system, bag filter to arrest all the carbon particles which may get air borne during bagging process and a vent of minimum height of 11m from the ground level.
- (xxiii) Industry shall carry out ambient air quality monitoring at three locations simultaneously within their premises in consultation with the Regional Officer to monitor RSPM, carbon monoxide and methane / ethane gases at least once in three months through a recognized laboratory or by the industry. It will be ensured that monitoring shall be carried out only during the period when the plant is in operation.

10. Industry shall comply with following general 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 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 & 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 per the provisions of rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992.
- ix. An 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 downstream 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.

11. The Industry shall submit Bank guarantee/s as follows in favour of Regional Officer, MPCB, Pune within 15 days valid till 30.07.2019.

Bank Guarantees Regime for Tyre Pyrolysis units			
Sr. No.	Condition No. of Consent	Bank Guarantee Amount (Rs.)	Time Period
1	Towards provision and operation and maintenance of (Air and Water) pollution control system	1.0 Lakh	Continuous
2	a) Towards provision and operation of suitable sensors for gas, temperature & pressure installed inside the reactor to regulate safe operation of the reactor and proper collection system for Toxic gases. b) Towards provision and operation of hydraulic/screw conveyor for conveyance of the produced carbon black in closed conditions.	1.0 Lakh	Continuous

12. Industry shall shift activity to other suitable location, if any nuisance created to surrounding.
13. This is without prejudice to any other permission required under any of the laws, by-laws or regulations in force.
14. This Board reserves the right to add / amend / revoke any condition in this consent and the same shall be binding on the applicant.
15. Industry shall obtain consent to Operate from the Board before actual commencement of the production.
16. The Capital investment of the industry is Rs. 89.10 Lakh.

For AND ON BEHALF OF M.P.C. BOARD




(J.S. Salunkhe)
Regional Officer, Pune

To,
M/s Alvi Rubber Products,
Plot No C-214/3, MIDC Chincholi,
Tal Mohol, Dist Solapur

Copy to:

- 1) Sub-Regional Officer, MPCB, P - I / P - II / P.C. / Satara / Solapur.
- 2) Chief Accounts Officer, MPCB, Mumbai

Received Consent fee of -

Sr. No.	Amount (Rs.)	Transaction No.	Date
1.	5000	TXN1709001508	16.09.2017