

MAHARASHTRA POLLUTION CONTROL BOARD

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Kalpataru Point, 2nd - 4th Floor
 Opp. Cine Planet Cinema,
 Near Sion Circle, Sion (E)
 Mumbai-400 022.

Date: 16/04/2014

RED/MSI

Consent No. BO/AST/ RO Navi Mumbai/EIC NO NM-4666-13/R/CC- 03599

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. Expanded Polymer Systems Pvt Ltd.
 Plot No. C-44/1, TTC MIDC Pawane,
 Navi Mumbai.

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:

- The Consent to Operate is granted for a period up to: 31/01/2016.
- The Consent is valid for the manufacture of -

Sr. No.	Product	Maximum Quantity
1.	Polyether Polyol	300 MT/Month
2.	Trading of Methyl Diphenyl Di-Isocyanate	50 MT/Month
3.	Blended Polyester Polyol (CFC free)	150 MT/Month
4.	Polyester Polyol	
5.	TDI/ Pure MDI Prepolymer	150 MT/Month
6.	Rigid Polyol	800 MT/Month
7.	Flexible Polyol	200 MT/Month

3. CONDITIONS UNDER WATER ACT:

- The daily quantity of trade effluent from the factory shall not exceed 19.5 m³.
- The daily quantity of sewage effluent from the factory shall not exceed 25.0 m³.

(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:

		Between	6.5 to 8.5
1	pH	Between	6.5 to 8.5
2	Suspended Solids	Not to exceed	100 mg/l.
3	BOD 3 days 27 deg.0	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.

(iv) **Trade Effluent Disposal:** The treated trade effluent shall be recycled to the maximum extent & excess if any shall be discharged into CETP through the sewerage system provided by MIDC.

(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	Treatment	Disposal
1	Stationery & Paper Bags	200 Kg/M	----	Sale

(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	29.00 CMD
Industrial processing generating Bio-Degradable waste water	19.00 CMD
Industrial processing generating Non-Bio-Degradable waste water	--- CMD
Industrial Boiler/Cooling etc.	6.00 CMD
Any other and gardening.	5.00 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 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. There shall not be any secondary (fugitive) emissions.

B) Conditions for D.G. Set:

1. Noise from D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
2. 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 provide. The measurement of insertion loss will be done at different points at 0.5 metres from acoustic enclosure/room and the average.
3. 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 75 dB (A) during day time and 70 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.
4. Industry should make efforts to bring down noise level due to D.G. set, outside industrial premises, within ambient noise requirements by proper siting and control measures.
 5. Installation of D.G. set must be strictly in compliance with recommendations of D.G. set manufacturer.
 6. A proper routine and preventive maintenance procedure for D.G. set should be set and followed in consultation with the D.G. manufacturer which would help to prevent noise levels of D.G. set from deteriorating with use.
 7. D.G. set shall be operated only in case of power failure.
 8. The applicant should not cause any nuisance in the surrounding area due to operation of D.G. set.

(i) **Standards for Emissions of Air Pollutants:**

(i)	SPM/TPM	Not to exceed	150	mg/Nm ³
(ii)	SO ₂	Not to exceed	16	Kg/day
(iii)	SO ₂ from Process	Not to exceed	50	ppm

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

Sr. No.	Type of Fuel	Quantity
1.	LDO	442.5 Lit/D.
2.	HSD	25 Lit/D.

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

Sr. No.	Stack Attached to	APC provided	Height in meters
1	Thermopack & Steam Boiler	Chimney	30
2	Thermopack	Chimney	10
3	D. G. Set (100 KVA)	Acoustic Enclosure	2.5 (above roof)
4	Reactor Pr 01	Water Scrubber	1.75
5	Reactor PR 02		
6	Reactor PR 03	Water Scrubber	2.15
7	PO Storage Tank	Water Scrubber	5.5

- (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 :

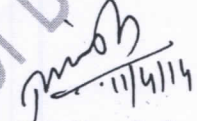
(i) The applicant shall handle hazardous wastes as specified below:

Sr. No.	Item No. as per Schedule-I	Type of Waste	Quantity	Disposal
1.	5.1	Spent Oil	200 Kg/A.	CHWTSDf, TTCWMA

2.	33.3	Discarded Containers	260 Nos/A.	Sale/ Reuse.
3.	34.3	ETP Sludge	238 Kgs/A.	CHWTSDF, TTCWMA

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:**
- Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
 - 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.
 - The applicant shall bring minimum 33% of the available open land under green coverage/plantation. The applicant shall submit a yearly statement by 30th September every year on available open plot area, number of trees surviving as on 31st March of the year and number of trees planted by September end.
 - 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.
 - 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.
 - 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.
 - 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.
 - The applicant shall make an application for renewal of the consent at least 60 days before the date of expiry to the consent.
 - 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.
 - An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
 - 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.
 - 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. If CETP dose not work for achieving standards & problem of pollution occurs, industry shall voluntarily stop the production or total effluent shall be reused.
 10. The consent should not be construed as any exemption from obtaining necessary NOC from other Govt. agencies as may deemed fit necessary.
 11. The industry shall also comply with the Industry specific standards notified under Environment Protection Act.
 12. This Board reserves the right to amend or add any conditions in this consent and the same shall be binding on the Applicant.
 13. This consent is issued as per the delegation of powers to HOD's vide Board Office Order No. 31/2013 dtd. 01/03/2013.
 14. The capital investment for expansion is Rs 15.18 Crore.


 (P. K. Mirashe)
 Asst. Secretary Technical

To,
M/s. Expanded Polymer Systems Pvt Ltd.
 Plot No. C-44/1, TTC MIDC Pawane,
 Navi Mumbai.

Copy to: 1] Regional Officer, MPCB Navi Mumbai, 2] Sub Regional Officer, MPCB, Navi Mumbai - I:- They are directed to ensure the compliance of consent conditions.
 3) Chief Accounts Officer, MPCB, Mumbai 4] Cess Branch, MPCB. 5] Master file.

Received Consent fee of -

Amount (Rs.)	D.D. No.	Date	Drawn on
1,50,000/-	157158	14/05/2013	Bank of India

*Remaining fees of Rs. 16,666/- with the Board will be considered during the next renewal.