

MAHARASHTRA POLLUTION CONTROL BOARD

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Red/L.S.I

Consent No: BO/BO/JD (PAMS)/EIC No- RD-2450-12/R/CAC-73 Date: 4/11/2013

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 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.Excel Industries Limited.

**Plot No.112, 20/1, OS-2, MIDC Area Dhatav,
Tal-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 Operate is granted for a period up to: 31/12/2015

2. The Consent is valid for the manufacture of -

Sr. No	Product Name	Maximum Quantity	UOM
1	Phosphorous Tri Chloride	7200	Ton/Y
2	Sulfex (Sulfur 80 WP)/Sulfex gold	2400	Ton/Y
3	Diethly/dimethly Thiophosphory Acid (DTA(E))/(M)	1200	Ton/Y
4	Diethly/ Dimethly Thiophosphory Chloride Acid (DETC (E))/(M)	10000	Ton/Y
5	N-Phospho Methly Imino Diaectic Acid (NPMIDA) or(Alternate) a)N,N, Dimethly Amino Thio Acetamide Hydrochloride (DMATA, HCL)	1200 100	Ton/Y Tons/A
	b)Acid Chloride	2400	Tons/A
	c) 2-Methyl/Ethyl Bromo Butyrate (M2BB/E2BB)	600	Tons/A
6	Glyphosate Technical	1200	Ton/Y
7	Glyphosate Formulations	1200	Ton/Y
8	1,1,1 Tris (4-Hydroxy Phenyl) Ethane (THPE)	60	Ton/Y
9	Amino Trimethylene Phosphonic Acid (ATMP)	1440	Ton/Y
10	Codex Formulations	960	Ton/Y
11	Styrene Phosphoric Acid	240	Ton/Y
12	Dimethly Bis Phenol cyclohexane (DMBPC)	120	Ton/Y
13	Para Ethoxy Ethly Benzoate (PEEB)	360	Ton/Y
14	Phosphorous Penta Sulphide	16800	Ton/Y
15	R&D and Pilot plant for intermediates, Pharmaceuticals and Drugs.	60	Ton/Y

BY PRODUCTS			
1	NaHS/Na ₂ S (25% Solution)	11425	Ton/Y
2	Hydrochloric Acid (30 %)	22300	Ton/Y
3	Sulfur	2300	Ton/Y
4	Potassium /Sodium Sulfate (50 %)	720	Ton/Y
5	Spent Sulfuric Acid	720	Ton/Y
6	Aqueous solution of Tri Ethyl Amine (TEA)	1900	KL/Y
7	Sodium Bisulphite (28 %)	8000	Ton/Y

3. CONDITIONS UNDER WATER ACT:

(i) The daily quantity of trade effluent from the factory shall not exceed **370.00M³**.

(ii) The daily quantity of sewage effluent from the factory shall not exceed **75.00M³**.

(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	5.5 to 9.0
2	BOD 3 days 27 Deg	Not to exceed	100 mg/l
3	COD	Not to exceed	250 mg/l
4	Suspended Solids	Not to exceed	100 mg/l
5	Oil & Grease	Not to exceed	10 mg/l
a) Specific Pesticides			
1	Benzenl Hexachloride	Not to exceed	10 mg/l
2	Carbonl	Not to exceed	10 mg/l
3	DDT	Not to exceed	10 mg/l
4	Endosalfan	Not to exceed	10 mg/l
5	Diamethoate	Not to exceed	450 mg/l
6	Fenitrothion	Not to exceed	10 mg/l
7	Malathoin	Not to exceed	10 mg/l
8	Phorate	Not to exceed	10 mg/l
9	Methyl Parathion	Not to exceed	10 mg/l
10	Penathoate	Not to exceed	10 mg/l
11	Pyrethrums	Not to exceed	10 mg/l
12	Copper Oxyghloride	Not to exceed	9600 mg/l
13	Copper Sulphate	Not to exceed	50 mg/l
14	Ziram	Not to exceed	1000 mg/l
15	Sulphur	Not to exceed	30 mg/l
16	Paraquat	Not to exceed	2300 mg/l
17	Proponil	Not to exceed	7300 mg/l
18	Nitogen	Not to exceed	780 mg/l

b) Heavy Metals			
1	Copper	Not to exceed	1.0 mg/l
2	Maganese	Not to exceed	1.0 mg/l
3	Zinc	Not to exceed	1.0 mg/l
4	Mercury	Not to exceed	0.01 mg/l
5	Tin	Not to exceed	0.10 mg/l
6	Any other metal like Nickel etc	Shall not exceed 5 times the drinking water standards of BIS	
c) Organics			
1	Phenol and Phenolic Compound as C6 H5 OH	Not to exceed	1.0 mg/l
d) Inorganics			
1	Arsenic (as AS)	Not to exceed	0.2 mg/l
2	Cyanide (as CN)	Not to exceed	0.2 mg/l
3	Nitrate (as NO3)	Not to exceed	50.0 mg/l
4	Phosphate	Not to exceed	5.0 mg/l

Note: - all parameters will be compulsory for formulators for others the seventh (7th) will be optional.

- (iv) **Trade Effluent Disposal:** The treated trade effluent and sewage effluent shall be recycled/reuse to the maximum extent and excess, if any shall be discharge into CETP through closed pipeline provided by MIDC .In No case the effluent shall find its way outside the factory premises leading to local Nalla /River.
- (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	Unit	Disposal
1	Discarded Drums	30000	Nos./A	Sale to authoris reprocessors
2	Coal fired Boiler ash	1643	T/A	The boiler ash shall be sold t brick manufacturer
3	Bags of Raw materials (Hydrated Lime used for ETP, Sodium Bi Carbonate etc)	250000.	Nos./A	Sale to authoris reprocessors

(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	...	75.00 CMD
(ii)	Water gets Polluted & Pollutants are Biodegradable	...	135.00 CMD
(iii)	Water gets Polluted, Pollutants are not Biodegradable & Toxic	...	235.00 CMD
(iv)	Industrial Cooling, spraying in mine pits or boiler feed	...	600.00 CMD
(vi)	Agriculture/Gardening	...	30.00 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:

Industry shall provide Scrubbers, dust collector of sufficient capacity to control the emissions.

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

6. Standards for Emissions of Air Pollutant:

- | | | | |
|-------|-------------------------------|---------------|-------------------------|
| (i) | SPM | Not to exceed | 150 mg/Nm ³ |
| (ii) | SO ₂ (Boiler) | Not to exceed | 1.9 T/day. |
| (iii) | SO ₂ (coal Boiler) | Not to exceed | 174 kg/day |
| (iv) | SO ₂ | Not to exceed | 50 ppm. |
| (v) | HCL | Not to exceed | 20.0 mg/Nm ³ |
| (vi) | H ₂ S | Not to exceed | 05.0 mg/Nm ³ |
| (vii) | Chlorine | Not to exceed | 3.0 ppm |

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

Sr. No.	Type Of Fuel	Quantity	UOM
1	Furnace Oil /	20.5	MT /D
2	OR Coal	29.00	MT /D
3	HSD	7.5	MT /D

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

Sr. No.	Chimney Attached To	Height in Mtrs.
1	Boiler (6 TPH & 10 TPH)	35
2	Boiler (coal Fired)	42
3	Packed column (PCL-3)	18
4	Dust collector (Sulflex)	8
5	H ₂ S Scrubber DTC1 & DTC2	6 each
6	Common Scrubber DTC1 & DTC2	6 each
7	Acidifier (NPMIDA)	22
8	Reactor(NPMIDA)	18
9	Common Scrubber(NPMIDA)	8
10	Process(Glyhosate)	20
11	Dust collector(Glyhosate)	22
12	Packed Column(Incinerator)	22
13	500 kVA Generator	3.5
14	1250 kVA Generator	4.5
15	Packed Column(Pilot plant)	6
16	Packed Column(Pilot plant)	6
17	Packed Column(ATMP/CODEX)	6
18	Packed Column(SPI/PEEB)	6
19	250 kVA Generator	3.5
20	Furnace P2(P2S2) & Furnace P3 (P2S2)	16 each
21	Scrubber P2 (P2S2) & Scrubber P3 (P2S2)	10 each

(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.

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

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

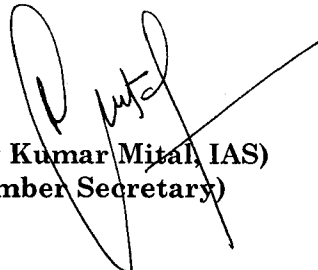
Sr. No.	Category of the waste as per schedule-I or II	Type of waste	Quantity MT/Annum.	Disposal	
1	20.3	Distillation Bottom of DMATA.HCI	31	Shall be send to CHWTSDF	
2	B-12	Distillation Bottom of DETC product	150		
3	B-19	Distillation Bottom of THPE product	1.75		
4	B-12	Distillation Bottom of SPA product	5.4		
5	B-6	Distillation Bottom of PEEB product	5.0		
6	20.3	Distillation Bottom from R&D, Pilot plant Products	20		
7	B-11	Distillation Bottom of Acid Chloride product	125		
8	29.2	Sludge arising from neutralization of waste water from Glyphosate Plant.	300		
9	34.3	Sludge arising from secondary treatment of waste water.	1000		
10	D-1	Residue from filtration of Sulphur	100		
11	34.3	Sludge arising from treatment of high COD waste streams form DETC Process.	5500		
12	36.2	Incineration Ash	5		
13	35.3	Charcoal Residue	2.1		
14	C-13	Residue containing iron sulfide, silica and carbon from product distillation.	30		
15	5.1,5.2	Spent Lubricating agent system oils	5		Sale to authorized recycler
16	33.3	Containers of hazardous chemicals and hazardous waste	1000 nos.		Sale to authorized recycler

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 Waste (M&H) Rules, 2003.
 - a. 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.
 - b. Industry shall obtain registration from CPCB as a re-refiner of used oil having environmentally sound technology as per the provisions of Hazardous Waste (Management & Handling) Rules 1989 & Amendment Rules 2003 before commencement of production.
 - c. The unit has to display and maintain the data online outside the factory main gate in Marathi & English both on a 6x4' 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.
 - d. It shall be ensured that the Hazardous waste is handled, managed & disposed of strictly in accordance with the Hazardous Waste (Management & Handling) Rules, 1989 as amended on 2003 and shown & submitted to the Board as & when asked for.

8. 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 per 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.
9. This consent is issued as per the "No increase in Pollution Load Certificate" issued by Dr. Babasaheb Ambedkar Technological University, Lonere, Dist-Raigad & industry letter vide No-XL/ROH/RSK/200/2011-12 dtd-21-03-2012.
10. This consent is issued by overriding earlier consent No-BO/BO/JD (PAMS)/EIC No-1774-10/R/CAC-11 dated-16/11/2011, Industry has proposed product mix change within consented limits, hence the consent is issued as per MoEF circular dt. 14.12.2006.
11. The case is issued as per the decision of CAC meeting held on 24/12/2012.
12. The Capital investment of the industry is Rs. 13298.84 Lacs.


(Rajeev Kumar Mittal, IAS)
(Member Secretary)

To,
Excel Industries Limited.
Plot No.112, 20/1, OS-2, MIDC Area Dhatav,
Tal-Roha, Dist-Raigad.

Copy for information to:-
Regional Officer MPCB Raigad.
Sub-Regional Officer MPCB Raigad-II
Chief Account Officer MPCB Mumbai

Received Consent fee of -

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	660630	039801	23 Nov 2010	Bank of India
2	660630	032305	19 Oct 2011	Bank of India
3	25000(for increase in C.I)	033108	19 July 2012	Bank of India