


MAHARASHTRA POLLUTION CONTROL BOARD

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Website: http://mpcb.gov.in		Near Sion Circle, Sion (E)
E-mail: pci2@mpcb.gov.in		Mumbai-400 022.

Red/L.S.I

Date: 26/08/2013

Consent No: BO/AST/RO-KP/EIC- KP-13180-13/R&A/CC- 7101

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 Ltd,
Plot No. D-9, MIDC Lote,
Tal. Khed, Dist. Ratnagiri-415605.**

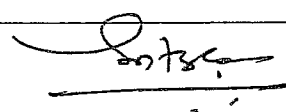
located in the area declared under the provisions of the Water Act, Air act and Authorization under the provisions of HW(M&H) Rules and amendments thereto subject to the provisions of the Act and the Rules and the Orders that may be made further and subject to the following terms and conditions:

1. **The Consent to Operate is granted for a period up to: 31.01.2018**
2. **The Consent is valid for the manufacture of -**

SR. NO	NAME OF PRODUCT	Max. Qty. (MT / A)
01	Sodium Penta Chloro Rhenate & it's Formulations	1800
02	Hydroxy Ethylidene Di-Phosphonic Acid & it's Formulations (Codex - 661 & it's Formulations)	7200
03	Acetyl Chloride	3600
04	Sodium Salt of 5 Sulphono Isothalic dimethyl ester. (SIPM)	360
05	Amino Tri-methylene Phosphonic Acid & it's Formulations	1200
06	Codex - 551	600
07	Dispercel - 32 (Poly Maleic Acid)	360
08	THPE (1,1,1,Tris (4 - Hydroxy Phenyl) Ethane) AND/ OR DMBPC (Di-Methyl Bis Phenol Cyclohexane (DMBPC)	1025
09	R & D and Pilot Plant for Industrial Chemicals, Intermediates & Pharmaceuticals	—
10	Lauracel	30
11	(R) - 9- [2 (phosphono Methoxy)propyl] Adenine (PMPA)	75
12	4-Hydroxythiobenzamide Febuxostat T1	12
13	Ethyl 2-(4-hydroxyphenyl)-4-methylthiazole-5-carboxylate Febuxostat T2	18

SRO Chiplun/I/R/L/91018000

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14	Ethyl 2-(3-formyl-4-hydroxyphenyl)-4-methylthiazole-5-carboxylate Febuxostat T3	15
15	Ethyl 2-(3-formyl-4-isobutoxyphenyl)-4-methylthiazole-5-carboxylate Febuxostat T4	14
16	Ethyl 2-(3-cyano-4-isobutoxyphenyl)-4-methylthiazole-5-carboxylate Febuxostat T5 and /OR Febuxostat	12
17	5-(Bromomethyl)-4-(4-fluorophenyl)-6-(1-methylethyl)-2- methyl (methylsulfonyl) amino] pyrimidine Z 7 Br	48
18	Phosphonium,[[4-(4-fluorophenyl)-6-(1-methylethyl)-2-[methyl methylsulfonyl) amino] - 5 pyrimidinyl] methyl] triphenyl -bromide (1:1) Z 8.2	60
19	N-[4-(4-Fluorophenyl)-5-formyl-6-(1-methylethyl)-2-pyrimidinyl]-N-methyl methane sulfonamide. Z7 Formyl	25
20	6-Hydroxy-3,4-dihydro-1H-quinolin-2-one. 6 HQ	20
21	Benzeneacetic acid, 4-[4-[4-(hydroxydiphenylmethyl)-1-piperidinyl] -1-oxobutyl]- α,α -dimethyl- Fexofenadine N- 1 and /OR Fexofenadine Hydrochloride	26
22	1, 3; 2, 4 -bis (3,4-dimethyl benzylidene) sorbitol Exclar	75
23	n-Octyl -1-Phosphonic Acid NOPA	75
	By-Products	
01	Hydrochloric Acid (HCl)	15000
02	Dil. Acetic Acid	1200
03	Methanol	600
04	Spent Acid	1645
05	Sodium Sulphite (30%)	936
06	Dilute Methanol	450
07	Spent Ethyl Bromide	187.5
08	Spent Magnesium acetate	75
09	Spent Sodium Bromide Solution	1424.25

3. CONDITIONS UNDER WATER ACT:

- (i) The daily quantity of trade effluent from the factory shall not exceed **85 m³**.
(ii) The daily quantity of sewage effluent from the factory shall not exceed **63m³**.

(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
2	Suspended Solids	Not to exceed	100 mg/L
3	BOD 3 days 27 Deg. C	Not to exceed	100 mg/L
4	COD	Not to exceed	250 mg/L
5	Oil & Grease	Not to exceed	10 mg/L
6	Phenolic Compound	Not to exceed	1 mg/L

(iv) **Trade Effluent Disposal:** The treated trade effluent shall be recycled/ reused to the maximum extent and remaining shall be disposed into CETP.

(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:**

S. No.	Type Of Waste	Quantity	Treatment & Disposal
1	Sugar/Wheat/Rice Bags	300 Nos/A	By Sale to Authorized Dealer
2	Oil Tin	250 Nos/A	By Sale to Authorized Dealer
3	Wooden Pallets	1000 Nos/A	By Sale to Authorized Dealer
4	M.S. Scrap	50 MT/A.	By Sale to Authorized Dealer
5	Food Waste	10,000 Kgs/A	Bio Gas / Organic Manure
6	Paper Waste	5000 Kg/A	By Sale to Paper Mill
7	Boiler Ash	1200 MT/A.	By sale to Brick Manufacturer.
8	Plastic / Polyvinyl Bags (50 Kg capacity)	9400 Nos/A.	Washed & decontaminated and sold scrap.

(viii) **Other Conditions:** The industry should monitor effluent quality regularly from MoEF approved laboratory.

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	...	66.00 CMD
(ii) Water gets Polluted & Pollutants are Biodegradable	...	123.00 CMD
(iii) Industrial Cooling, spraying in mine pits or boiler feed	...	218.00 CMD
(iv) Agriculture/Gardening	...	50.00 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:

Control Equipment:

Air pollution control equipments of sufficient capacity shall be provided to limit the emissions. Scrubber of sufficient capacity shall be provided for scrubbing SO₂ & HCL vapors.

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 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.
- 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

Standards for Emissions of Air Pollutants from Process and Boiler:

(i)	SPM	Not to exceed	150 mg/Nm ³ .
(ii)	SO ₂	Not to exceed	1243 kg/day
(iii)	HCL vapors/ Acid Mist	Not to exceed	35 mg/Nm ³
(iv)	CL ₂	Not to exceed	15 mg/Nm ³

Standards for Stack Emissions:

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

Sr. No.	Type Of Fuel	Quantity	UOM
1	Furnace Oil	9458	Kgs./day.
2	Coal	38	MT/day.

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

Sr. No.	Chimney Attached To	Height in Mtrs.
1	Boiler 1 ,Oil fired boiler (S-1)	30
2	Boiler 2 & 3 Solid Fuel Fired (S-1)	30
3	D.G set (250 KVA)	8 above roof
4	D.G set (500 KVA)	10 above roof
5	HCL Tail Gas Tower (S-4)	15
6	I.D.Fan for Acetyl Chloride Packaging Section (S-5)	10
7	Acetic Acid Scrubbing Stack (S-6)	12

8	PCL3 Scrubber Stack(S-7)	12
9	Acetic Chloride Scrubbing Stack (S-8)	12
10	Drum Dryer Stack (S-9)	25
11	Packaging Area Stack (S-10)	25
12	Reactor (Neutralizer Stack)(S-11)	25
13	HCL Scrubber System Stack (S-12)	25
14	HCL Scrubber System Stack (S-13)	15
15	Common Vent Scrubber Stack (S-14)	15
16	SO2 Scrubbing System (S-15)	15
17	HCL Scrubbing System (S-16)	15

- (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.

(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 from MoEF approved laboratory.

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

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

Sr. No	Cat.	Type of Waste	Qty MT/A	Disposal
1	35.1	Filter material containing Org. Chlorine compounds	3.0MT/Y Dry basis	Landfill CHWTSDF Taloja
2	35.2	Spent org. Catalyst	4.0 MT/Y.	Incineration CHWTSDF Taloja
3	34.3	ETP Sludge (Chem)	75 MT/Y Dry Basis	Landfill CHWTSDF Taloja
4	35.1	Used/Spent oil	2.0 KL/Y	Sale to Authorized Agency
5	20.3	Distillation Residue	300.0 MT/Y	Incineration CHWTSDF Taloja
6	20.3 28.1 28.3 35.2 36.4	Distillation Residue from R& D and Pilot Plant	4.0 MT/Y	Incineration/ CHWTSDF Taloja
7	33.3	Discarded Containers	12710 Nos/Y	Sale to Authorized Agency
8	34.1	Flue gas cleaning Residue (Boiler Soot)	6.0 MT/Y	Incineration/ CHWTSDF Taloja
9	34.2	Spent Ion Exchange Resins	0.12 MT/Y.	

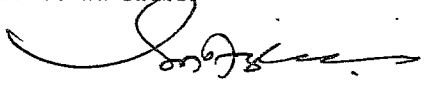
7. Whenever due to any accident or release of gases or other unforeseen act or even, such emissions occur or is apprehended to occur in excess of standards laid down, such

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. 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. 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 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. The consent should not be construed as any exemption from obtaining necessary NOC from other Govt. agencies as may deemed fit necessary.
10. The industry shall also comply with the Industry specific standards notified under Environment Protection Act.

11. Industry shall submit Bank Guarantee of Rs. 5 lakhs towards O & M of Pollution Control System.
12. Applicant shall comply with the clarification issued by MoEF dtd. 14.12.2006 for change in product-mix.
13. Applicant shall comply with the conditions stipulated in Environmental Clearance for expansion dtd. 6th July, 2011.
14. This consent for renewal with change in product mix is issued with following conditions:
 - a) According to material balance, the effluent stream from Febuxostat T1 contains high concentrations of Etahnol and Thiophosphoric acid. Industry shall recover these in order to the reduce load on ETP.
 - b) In the synthesis of Febuxostat T3, industry is using stiochiometrically high quantity of Methane sulphonic acid (10 MT/MT of Febuxostat T3) which shall be recovered / reuse in order to be economical in line with eco-friendly strategy. Methane Sulphonic Acid (MSA) needs to be concentrated and recovered for its subsequent use. MSA is highly-water soluble and bio-degradable, it is to be reused in the existing route of T3.
 - c) Process of Febuxostat T4 could also possibly generate the effluent (approximately 20 m3/ton of product) that contains high concentrations of Dimethyle formamide and KBr. Industry shall recover bromine compounds and send to the reprocessor to get back KBr/BR2 or do it inhouse.
 - d) Febuxostat T5 generates effluent with high concentration of formic acid. Industry should work on reducing the impurities so that it can be reused or sold off.
 - e) During production of 6 HQ, stiochiometrically large quantity of AICI3 is used. Industry shall reuse it as much as possible before being sent to ETP.
15. This consent is issued pursuant to the decision taken in the 9th Consent Committee Meeting of the Board held on 17.08.2013.
16. The Capital investment of the industry is Rs. 69.44 Crores.


 (V. M. Motghare) 28/8/13
 Member Secretary

To,
 M/s. Excel Industries Ltd,
 Plot No. D-9, MIDC Lote,
 Tal. Khed, Dist. Ratnagiri - 415 605.

Copy to:

- 1) Regional Officer, MPCB, Kolhapur.
 Regional Officer, MPCB, Chiplun.
- 2) Chief Accounts Officer, MPCB, Mumbai
- 3) Cess Wing/Master file.

They are directed to ensure the Sub-compliance of consent conditions.

Received Consent fee of -

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	500100/-	027390	03.06.2010	Bank of India
2	50000/-	027410	06.06.2013	Bank of India
3	15000/-	027141	25.03.2013	Bank of India