MAHARASHATRA POLLUTION CONTROL BOARD

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Kalpataru Point, 3rd & 4th floor, Sion- Matunga Scheme Road No. 8, Opp. Cine Planet Cinema, Near Sion Circle, Sion (E),

Mumba - 400 022

Red/L.S.I

Date:30/11/2011

Consent No: BO/PAMS/R/EIC NO.NM-2075-10/CC - CAL - 3 6

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 & Transboundry Movement) Rules 2008

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

CONSENT is hereby granted to

M/s Hikal Ltd

Plot No. T-21, MIDC, Taloja

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:

- The Consent to Operate is granted for a period up to: 31/12/2012.
- 2. The Consent is valid for the manufacture of -

	Product Name	Maximum Quantity	UOM
lo.		700	MT/A
	Thiabendazole	300	MT/A
2	C.I.T.D.	100	MT/A
3	Karphos (RTY) Purification	300	MT/A
4	HTP-213 (Fenomidone)	490	MT/A
5	HTP-650 (B.A.S-650) (Ametoctradine)	10	MT/A
6	HTP-528 (Ethyclozate)		MT/A
7 1/2	In House Pilot Plant for Agro/Pharma Products and intermidiates. (Fcaility shall be used only for development of consented products and new products on laboratory scale) Yrly statement of product produced in Pilot Plant should be submitted in April per Yr		
	BY-PRODUCT	1250	MT/A
1	Recovered Ammonia (190%)	458	MT/A
2	Sodium / Potassium Methyl Sulphate Solution (100%)	382	MT/A
3	Sodium/Potassium Thiomethoxide solution 100%)	1462	MT/A
4	Spent HCL (App. 30 %)	904	MT/A
5	Spent H ₂ SO ₄ (98%)	304	414 414

		520	MT/A
3	Spent Caustic		
	INTERMEDIATES	500	MT/A
1	Monochloro acetone	16	MT/A
2	4- Mixed Thiozone		

- 3. CONDITIONS UNDER WATER ACT: (i) The daily quantity of trade effluent from the factory shall not exceed $788.95M^3$.
- (ii) The daily quantity of sewage effluent from the factory shall not exceed $30.0M^3$.

(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:

a	is to achieve the quality of the treat		5.5 to 9.0
	рН	Between	1 8 dog C above the
2	Temperature	Shall not excee	ater temperature
1		receiving w	30 mg/l
3	BOD 3 days 27 deg C	Not to exceed	250 mg/l.
4	COD	Not to exceed	10 mg/l
5	Oil & Grease	Not to exceed	100 mg/l.
6	2 22 27 1	Not to exceed	
7	Total Suspended Solids Bioassay test on fish should show	90% survival in 90	1113.
-	(A) SPECIFIC PESTICIDES		10 mg/l.
8	Benzenl Hexachloride	Not to exceed	10 mg/l.
9	Carbonyl	Not to exceed	10 mg/l.
10	DDT	Not to exceed	10 mg/l.
11	Endosulfan	Not to exceed	450 mg/l.
12	Diamethoate	Not to exceed	450 mg/l.
_	Fenitrothion	Not to exceed	10 mg/l.
13	Malathion	Not to exceed	10 mg/l.
14	Phorate	Not to exceed	
15	Methyl Parathion	Not to exceed	10 mg/l.
16	Phenathoate	Not to exceed	10 mg/l.
17	Pyrethrums	Not to exceed	10 mg/l.
18	Copper Oxyghlorde	Not to exceed	9600 mg/l.
19	The Control of the Co	Not to exceed	50 mg/l.
20		Not to exceed	1000 mg/l.
21	- 10 Co.	Not to exceed	30 mg/l.
22		Not to exceed	2300 mg/l.
23		Not to exceed	7300 mg/l.
24		Not to exceed	780 mg/l.
25	Nitrogen METALS		V series
	(B) HEAVY METALS	Not to exceed	1.0 mg/l.
26	Control of the contro	Not to exceed	1.0 mg/l.
27		Not to exceed	1.0 mg/l.
28	1	Not to exceed	0.01 mg/l.
25		Not to exceed	0.10 mg/l.
30	1 1:1 NT -11 o+o		Shall not exceed 5 times the drinking water standards of BIS

32	(C) Organics Phenol and Phenolic compounds as C ₆ H ₅ OH	Not to exceed	1.0 mg/l.
	(D) Inorganics Arsenics (As As)	Not to exceed	0.2 mg/l.
5	Cyanide (as CN)	Not to exceed Not to exceed	0.2 mg/l. 50.0 mg/l.
86 87	Nitrate (as NO ₃) Phosphate (as P)	Not to exceed	5,0 mg/l.

- (iv) Trade Effluent Disposal: The treated effluent shall be recycled to the maximum extent and remaining treated effluent shall be sent to CETP. There shall not be any discharge outside the factory premises.
- (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. mg/l.

(1) Suspended Solids

Not to exceed

(2) BOD 3 days 270 C.

Not to exceed

1000 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:

Type Of Waste	Quantity		Disposal Sale
Plastic Waste	50.00	Kg/Day	
	N. Commission	Kg/Day	Sale
		The state of the s	Sale
Glass Bottles	20.00	The state of the s	Sale
	0.00		
	10.00	generated	Sale
	Plastic Waste Plastic Bottles Glass Bottles Metal Scrap Wood	Plastic Waste 50.00 Plastic Bottles 5.00 Glass Bottles 20.00 Metal Scrap 0.00	Plastic Waste 50.00 Kg/Day Plastic Bottles 5.00 Kg/Day Glass Bottles 20.00 No/Day Metal Scrap 0.00 As & When

(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

35.00 CMD

(ii) Water gets Polluted &

Pollutants are Biodegradable ...

793.47 CMD

(iii) Water gets Polluted, Pollutants are not Biodegradable & Toxic ...

0.00 CMD

(iv) Industrial Cooling, spraying

in mine pits or boiler feed

324.00CMD

30.00 CMD

(v) Agriculture / Gardening 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.

CONDITIONS UNDER AIR ACT :

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: a.

Scrubber of sufficient capacity should be provided to air emission sections and dust collectors should be provided to the all dust generating locations and operated properly.

There shall not be any secondary (fugitive) emissions.

Standards for Emissions of Air Pollutants: b.

Standards for Emission	S Of All Pollutaints.	150.0mg/Nm3
(i) SPM/TPM	Not to exceed	
(ii) SO ₂	Not to exceed	2320,0 Kg/day
(iii)SO ₂ (From Process)	Not to exceed	50.0 ppm
(iv) Chlorine	Not to exceed	5.0 ppm
(v) HCL	Not to exceed	20.0 mg/Nm3
(vi) NH3	Not to exceed 💥	30.0 ppm
1.7773.77.17.777.777.7222	Not to exceed	5.0 mg/Nm3
	Not to exceed	10.0 mg/Nm3
(viii) P ₂ O ₅	Not to exceed	20.0 mg/Nm3
(ix) CH ₃ Cl	Not to exceed	5.0 mg/Nm3
(x) HBr (xi)Particulate matter w		20.0 mg/Nm3
(x1) Particulate matter w	Ittl Tion to execute	3.
Pesticide compounds	N/1/2	

C. Standards for emission of VOC Pollutants

Petrochemical Process / Compounds	Maximum emission limit (mg/Nm3), dry basis
MA DA Phonol	20
WIA, PA, FRENOI	100
Ethyl benezene (*EB), Styrene, Toluene,	
Non-methane HC (Paraffin), Acetone,	150
	MA, PA, Phenol Ethyl benezene (EB), Styrene, Toluene, Xylene, Aromatics, EG, PG

(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

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.

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. 2 suitable exhaust muffler with insertion loss of 25 dB (A) shall also be 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 sitting 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:

The applicant shall observe the following fuel pattern:-

Sr N	o. Type Of Fuel	Quantity	UOM
1	Furnace Oil	943.00	MT/Month
9	HSD	10.00	MT /Month
3	Natural Gas	5.00	MT /Month

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

5. N	o. Chimney Attached To	Height in Mtr
1	Emergency D.G.Set	6.00
2	Ventilation Blower Plant -I (BLW 201)	27.00
3	Acid Scrubber (C-5020)	25.00

4	Vent Sorb Blower Plant -II(BL-501)	25.00
5	Ventilation Blower Plant-III (BL-501)	13.00
	Ventilation Blower MCA (BLW 101)	13.00
3	Emergency Chlorine Blower (BLW 870/1)	17,00
7	Steam Boilers (B-920 A/B)	40.00
3	Ammonia Scrubber (C 1203)	20.00
9	Bag Filter Blower (BLW 601)	22.00
10	Bag Filter Blower (BLW 602)	22.00
11	Bag Filter Blower (BLW 603)	22.00
12	Bag Fitter Blower (BEW 600)	30.00
13	Process Exhaust Vent* (* Attached to flare system for emission control used for burning Methyl Chloride gas generated in the process and carbon dioxide 40 kg/Hr)	de
14	Scrubber for HTP-213	30:00
15	General common Scrubber, HTP 213	30.00
, and (100,00)		N. M.

- The applicant shall provide ports in the chimney (s) and facilities such as (iii) 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.
- The industry shall take adequate measures for control of noise levels from (iv) 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 comply as per new pesticides standards published by MoEF
- 2) The industry should not cause any nuisance in surrounding area.
- 3) The industry should monitor stack emissions and ambient air quality Regularly.

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

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

Sr.	(i) The Industry shall ha Type Of Waste	Quantity	UOM	Disposal
No. 1	5.1 Used /spent oil	9.00	MT/A	Sale to authorized reprocessor
2	9.1 Used batteries	Variable	200	Sale to dealers
3	20.2 Spent Benzene	62.00	MT/A	Sale to authorized reprocessor
4	20.2 Spent Toluene	1383.00	MT/A	Sale to authorized reprocessor
5	20.2 Spent Acetone	468.00	MT/A	Sale to authorized reprocessor
6	29.1 Low Boiler Waste	25.00	MT/A	Incineration at CHWTSDF
7	29.1 Organic Tar form Column-3	9.00	MT/A	Incineration at CHWTSDF

		0.15	MT/A	Incineration at CHWTSDF
8	29.1 Amidine Waste	0.15		Incineration at CHWTSDF
9	29.1 ODCB Waste	6.00	MT/A	Incheration at CHWTSDE
10	29.1 Activated Carbon	41.00	MT/A	Incineration at CHWTSDF
11	29.2 Chemical Sludge contamination	30.00	MT/A	Incineration at CHWTSDF
12	29.1 Chemical Residue /residue pesticide	243.50	MT/A	Incineration at CHWTSDF
13	29.1 HTP-213 Waste residue	25.00	MT/A	Incineration at CHWTSDF
00001	29.1 CDIM Residue	120.00	MT/A	Incineration at CHWTSDF
14	29.1 CITD Residue	900.00	MT/A	Incineration at CHWTSDF
15	The state of the s	780.00	MT/A	Incineration at CHWTSDF
16	29.1 Organic Waste	27.00	MT/A	Landfill
17	29.2 Biological sludge	and the second s	Nos/A	Sale to approved party after
18	33,3 Product liners	App. 500	1408/21	decontamination
19	35.1 Filter and filter cloth	50	MT/A	Incineration at CHWTSDF
20	Boiler Soot	10.00	MT/A	Incineration at CHWTSDF

Treatment: - NIL (ii)

9. 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.

10.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.

 This consent shall not be construed as any exemption from obtaining necessary No Objection Certificate from other Government agencies as may deemed fit necessary.

12 If CETP does not operate efficiently and problem of pollution occurs, industry should voluntarily stop the production or total effluent should reuse.

 This consent is issued as per the decision taken in the meeting of the Consent Appraisal Committee of the Board held on 22/11/2011.

The Capital investment of the industry is Rs 191.69 Crores

24.X1 (Milind Mhaiskar) Member Secretary

To, M/s Hikal Ltd Plot No. T-21, MIDC, Taloja Dist, Raigad,

Copy to :

RO, Navi Mumbai /SRO, Taloja

- 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
1	958450/-		26 Nov 2010	Dena Bank
2	50000/-	440314	6 Aug 2011	Dena Bank
3	983450/-	444379	18 Oct 2011	Dena Bank