

MAHARASHTRA POLLUTION CONTROL BOARD

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Consent order No: - format1.0/BO/AST/EIC.No-RD-3218-16/Raigad/R/CC- 7245

Date- 30/05/2016

To,

Hikal Limited

Plot No-A-18, MIDC Mahad -402309

Dist-Raigad, Maharashtra, India

Subject: Amendment in Consent to Operate for Change in Product Mix- RED category.

- Ref :**
1. Earlier Consent granted vide no:-format1.0/BO/AST/EIC.No-RD-2895- 14/Raigad/R/CC-237 dtd-03/06/2015.
 2. Your application dtd-16/12/2015 for Amendment in consent with change in product mix.
 3. Minutes of CC meeting held on dtd-29/04/2016.

For: Consent to Operate (Amendment for change in product Mix) 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 under Rule 5 of the Hazardous Wastes (M, H & T M) Rules 2008 is considered and the consent is hereby granted subject to the following terms and conditions and as detailed in the schedule I, II, III & IV annexed to this order:

1. The consent is granted for a period from 30/11/2014 to 30/11/2016.
2. The actual capital investment of the industry is Rs.27.92 Crs. (As per C.A Certificate submitted by industry).
3. The Consent is valid for the manufacture of -

Sr. No.	Product Name	Maximum Quantity	UOM
1	Ethyclozate	3.0	MT/M
2	Amitrol	15.00	MT/M
3	MMPDC (5 Methoxy Methyl Pyridine 2,3 Dicarboxylic Acid)	50.00	MT/M
4	Diuron	310.00	MT/M
5	Sodium Hypo Chloride (15%)	480.00	MT/M
6	3,5 Dichloro Aniline	80.00	MT/M
7	APP(2'-Amino-2' - Methyl-(4-Isopropyloxy - 6 - methyl) - propiophenone) (New)	25.00	MT/M
8	AF O2(4 - Acetoxy -6 - tert - Butyl-8 -Fluoro-2, 3- Dimethyl Quinoline) (New)	10.00	MT/M
9	Benzofenap (New)	15.00	MT/M
10	Benfuresate (New)	5.00	MT/M
	TOTAL	993.00	MT/M

BY PRODUCTS:-

Sr. No.	By-Product Name	Maximum Quantity	UOM
1	Spent Catalyst	0.988	MT/M
2	Hydrochloric Acid (30%)	50.00	MT/M
3	Acetone	43.50	MT/M
4	Sodium Bromide Solution	300.00	MT/M
5	*Calcium Sulphate Gypsum	212.542	MT/M
6	35% Spent Sulphuric Acid	119.75	MT/M

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BIO-PRODUCT			
01	Biosol Odour Eliminator	2050.00	Kg/day
02	Biosol Biosurf	2050.00	Kg/day
03	Biosol Biotrack	2050.00	Kg/day
04	Biosol Bioclean	2050.00	Kg/day
05	Biosol Mac	2050.00	Kg/day
06	Biosol Sanibac	2050.00	Kg/day
07	Biosol Biotrap	2050.00	Kg/day
08	Biosol Biospot	2050.00	Kg/day
09	Biosol Biosep STC	2050.00	Kg/day
10	Biosol Bio-scrub	2050.00	Kg/Day
Total		20500.00	Kg/Day

Note:-*Industry shall dispose the By-Product Calcium Sulphate (Gypsum) at CHWTSDF.

4. Conditions under Water (P&CP), 1974 Act for discharge of effluent:

Sr. no.	Description	Permitted quantity of discharge (CMD)	Standards to be achieved	Disposal
1.	Trade effluent	85.0	As per Schedule -I	CETP
2.	Domestic effluent	45.0	As per Schedule -I	CETP.

5. Conditions under Air (P & CP) Act, 1981 for air emissions:

Sr. no.	Description of stack / source	Number of Stack	Standards to be achieved
1.	Boiler (IAEC) and Thermopack (200000 kcal/hrs)	1	As per Schedule -II
2.	Boiler (briquette fire)		
3.	DG Set(125 KVA)	1	As per Schedule -II

6. Conditions under Hazardous Waste (MH & TM) Rules, 2008 for treatment and disposal of hazardous waste:

Sr. No.	Type Of Waste	Quantity	UOM	Disposal
1	3.3 Sludge and filters contaminated with oil	1.80	MT/A	CPCB Registered and MPCB authorized reprocess or /CHWTSDF for incineration
2	34.3 Chemical sludge from waste water treatment	66.60	MT/A	CHWTSDF for Landfill
3	35.1 Filters and filter material which have organic liquid	6.00	MT/A	CHWTSDF For incineration
4	35.2 Spent catalyst*	36.00	MT/A	CPCB Registered and MPCB authorized reprocess or /CHWTSDF for incineration
5	5.1 Used /spent oil	0.60	MT/A	CPCB Registered and MPCB authorized reprocess or/ CHWTSDF for incineration
6	20.2 Spent solvents	30.00	MT /A	CPCB Registered and MPCB authorized reprocess or /CHWTSDF for incineration
7	20.3 Distillation residues	99.00	MT /A	CHWTSDF for incineration
8	26.1 Process waste sludge/residues	300.00	MT /A	CHWTSDF for disposal as per waste disposal criteria
9	33.2 Sludge from treatment of waste water	1.20	MT /A	CHWTSDF for Landfill

10	33.3 Discarded containers / barrels / ners	6000.00	MT/A	Decontaminated/puncture/cut/disposal through MPCB approved unit
11	3.3 Discarded containers ((Plastic/PP/rubber/Glass)	30.00	MT/A	CHWTSDF for disposal as per waste disposal criteria

7. **Conditions about Non Hazardous Waste:-**

Sr. No.	Type Of Waste	Quantity	UOM	Disposal
1	Metal Scrap	20	MT/A	Sale to authorized party
2	wood scrap	1	MT/A	Sale to authorized party
3	Broken glass	1	MT/A	Sale to authorized party
4	Plastic waste	200	Kg/A	Sale to authorized party
5	Plastic bottles	100	Kg/A	Sale to authorized party
6	Briquette ash	60	MT/M	Sale to brick manufacturers

8. The Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.
9. This consent should not be construed as exemption from obtaining necessary NOC/permission from any other Government authorities.
10. Industry has proposed product mix change within consented limits; hence the consent is issued as per MoEF Circular dtd. 14.12.2006.
11. This consent is issued as per the justification regarding No increase in Pollution Load Certificate issued by Institute of Chemical Technology, Matunga & Industry letter dtd. 8.12.2015.
12. This consent is issued based on self assessment made by you and submitted in prescribed Boards format. If any violation and submission of misleading information notices, then the consent issued under product mix circular issued by MoEF dtd. 14.12.2006 will stand automatically cancelled and you have to follow the procedure of EIA Notification for obtaining Environment Clearance.
13. This amendment in consent is issued with overriding effect on earlier consent to operate granted by the board vide no. format 1.0/ BO/AST/EIC.No-RD-2895-14/Raigad/R/CC-237,dtd-03/06/2015, Valid upto- 30/11/2016.
14. This consent is issued pursuant to the decision of the consent committee meeting held on 29/04/2016.

For and on behalf of the
Maharashtra Pollution Control Board

(Dr. B.N. Patil)

Member Secretary

Received Consent fee of -

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	175100/-	001661	26/09/2014	Bank of Baroda
2	15000/-	002977	11/12/2015	Bank of Baroda

Copy to:

1. Regional Officer -Raigad and Sub-Regional Officer-Mahad, MPCB, They are directed to ensure the compliance of the consent conditions.
2. Chief Accounts Officer, MPCB, Mumbai.
3. CC/CAC desk- for record & website Updation purposes.

Schedule-I

Terms & conditions for compliance of Water Pollution Control:

1) A] As per your application, you have provided the Effluent Treatment Plant (ETP) with the design capacity of 240CMD.

B] The Applicant shall operate the effluent treatment plant (ETP) to treat the trade effluent so as to achieve the following standards prescribed by the Board or under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.

Sr No.	Parameters	Standards
	I. Compulsory Parameters	Limiting Concentration in mg/l, except for pH
01	pH	6.0-8.5
02	Oil & Grease	10
03	BOD (3 days 27 ° C)	100
04	COD	250
05	Suspended Solids	100
06	Total Dissolved Solids	2100
07	Chlorides	600
08	Sulphates	1000
09	Bioassy Test	90% survival of fish after first 96 hrs in 100% effluent**
	II Additional Parameters	
10	Mercury	0.01
11	Arsenic	0.20
12	Chromium (Hexavalent)	0.10
13	Lead	0.10
14	Cyanide	0.10
15	Phenolics (C6H5OH)	1.0
16	Sulphide (as S)	2.0
17	Phosphate(as P)	5.0

C) The treated trade effluent i.e 85 CMD from which 15 CMD will be used for gardening & 6 CMD will be used for Lime preparation & filter washing & remaining effluent (64 CMD) should be discharge to CETP. There should not be any discharge outside the factory premises.

A] The Applicant shall operate the sewage treatment system to treat the sewage so as to achieve the following standards/ prescribed under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.

- | | | | | |
|-----|-------------------|---------------|-----|-------|
| (1) | Suspended Solids. | Not to exceed | 100 | mg/l. |
| (2) | BOD 3 days 27oC. | Not to exceed | 100 | mg/l. |

B] The treated sewage shall be soaked in a soak pit, which shall be got cleaned periodically. The treated sewage shall be disposed on land for gardening/irrigation.



- 2) The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or extension or addition thereto.
- 3) The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.
- 4) The Applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Cess Act, 1977 and as amended, by installing water meters, filing water cess returns in Form-I and other provisions as contained in the said act.

Sr. no.	Purpose for water consumed	Water consumption quantity (CMD)
1.	Industrial Cooling, spraying in mine pits or boiler feed	130
2.	Domestic purpose	72
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	125
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	---
5.	Gardening/irrigation/plantation	--

- 5) The Applicant shall provide Specific Water Pollution control system as per the conditions of EP Act, 1986 and rule made there under from time to time/ Environmental Clearance / CREP guidelines.



Schedule-II

Terms & conditions for compliance of Air Pollution Control:

1. As per your application, you have provided inbuilt Air pollution control (APC) system and also erected following stack (s) and to observe the following fuel pattern-

Sr. No	Stack Attached To	APC System	Height in Mtrs.	Type of Fuel	Quantity & UoM	S %	SO ₂ Kg/Day
1	Boiler (IAEC) and Thermopack (200000 Kcal/hr)	---	40.00 (common)	Furnace Oil	6.67MT/D	4.5	600
2	Boiler (briquette fire)	Dust collector		Briquettes	15.0MT/D	0.06	18
3	DG Set(125 KVA)	Acoustic encloser	4.0	HSD	15.0 Ltrs/Hr		

2. The Applicant shall provide Specific Air Pollution control equipments as per the conditions of EP Act, 1986 and rule made there under from time to time / Environmental Clearance / CREP guidelines.
3. The applicant shall operate and maintain above mentioned air pollution control system, so as to achieve the level of pollutants to the following standards:

Particulate matter	Not to exceed	150 mg/Nm ³ .
SO ₂ Process	Not to exceed	50 mg/Nm ³
Acid Mist	Not to exceed	35 mg/Nm ³
NH ₃	Not to exceed	50 ppm
NO _x	Not to exceed	50 ppm
Chlorine	Not to exceed	50 ppm

4. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement well before its life come to an end or erection of new pollution control equipment.
5. The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).

**Schedule-III
Details of Bank Guarantees**

Sr. No.	Consent (C to E/O/R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1	C to R	5.0 lakhs	15 days from the date of consent issued	Against compliance of Consent conditions and O & M of pollution control systems.	30/11/2016	31/03/2017

Note: - The B.G shall be submitted at Regional Office MPC Board Raigad.



Schedule-IV

- 1) 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.
- 2) Industry should monitor effluent quality, stack emissions and ambient air quality monthly/quarterly.
- 3) 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.
- 4) 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.
- 5) The applicant shall provide an alternate electric power source sufficient to operate all pollution control facilities installed 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.
- 6) 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.
- 7) The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the HW (MH&TM) Rules 2008, which can be recycled/processed/reused/recovered and only waste which has to be incinerated shall go to incineration and waste which can be used for land filling and cannot be recycled/reprocessed etc should go for that purpose, in order to reduce load on incineration and landfill site/environment.
- 8) The industry should comply with the Hazardous Waste (M, H & TM) Rules, 2008 and submit the Annual Returns as per Rule 5(6) & 22(2) of Hazardous Waste (M, H & TM) Rules, 2008 for the preceding year April to March in Form-IV by 30th June of every year.
- 9) An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- 10) The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent (in case of Renewal of consent).
- 11) Industry shall strictly comply with the Water (P&CP) Act, 1974, Air (P&CP) Act, 1981 and Environmental Protection Act, 1986 and industry specific standard under EP Rules 1986 which are available on MPCB website (www.mpcb.gov.in).
- 12) The industry shall constitute an Environmental cell with qualified staff/personnel/agency to see the day to day compliance of consent condition towards Environment Protection.
- 13) 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 downstream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system.
- 14) Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
- 15) 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.

- 16) 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) 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.
 - d) Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
 - e) 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
 - f) D.G. Set shall be operated only in case of power failure.
 - g) The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.
 - h) The applicant shall comply with the notification of MoEF dated 17.05.2002 regarding noise limit for generator sets run with diesel
- 17) The industry should not cause any nuisance in surrounding area.
- 18) 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.
- 19) The applicant shall maintain good housekeeping.
- 20) 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.
- 21) 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 of solid waste.
- 22) 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 equipments provided for without previous written permission of the Board. The industry will not carry out any activity, for which this consent has not been granted/without prior consent of the Board.
- 23) 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.
- 24) The industry shall submit quarterly statement in respect of industries obligation towards consent and pollution control compliance's duly supported with documentary evidences (format can downloaded from MPCB official site).
- 25) The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
- 26) The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification dt. 16.11.2009 as amended.

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