

MAHARASHTRA 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),
Mumbai - 400 022

Consent order No :- Formate 1.0/ BO/CAC-Cell/ EIC No NM-5509-14/8thCAC 14502
Date- 17/11/2015

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

Subject: 1st operate for briquette fired boiler and renewal of consent along with change in product-mix and amalgamation of both consent under RED category.

- Ref: 1. Existing Consent granted vide no.BO/PAMS/R/EIC NO.NM-4228-12/CC/CAC-576 dtd 16/01/2013 which is valid upto 31.12.2015**
2. Your application approved in CAC meeting held on 09.10.2015.

Your application: CO1409000221
Dated: 11.07.2014

For: 1st operate for briquette fired boiler and amendment in consent for change in product-mix and amalgamation of both consent 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 date of issue of consent to 30.07.2017.**
- 2. The actual capital investment of the industry is Rs.215.54 Crs. (As per C.A.Certificate submitted by industry).**
- 3. The Consent is valid for the manufacture of -**

Sr. No.	Product Name	Maximum Quantity in MT/A
1	Thiabendazole	700
2	C.I.T.D	145
3	HTP-213 (Fenomidone)	300
4	HTP-650 (B.A.S-650) (Ametoctradine)	750
5	HTP-528(Ethyclozate)	10
6	In House Pilot Plant for Agro/Pharma Products and intermediates. (Facility shall be used only for development of consented products and new products and new products on laboratory scale) Yearly statement of product produced in pilot plant should be submitted in April per Yr.	

By Products		
1	Recovered Ammonia	1250
2	Sodium/Potassium Methyl Sulphate Solution (100 %)	458
3	Sodium /Potassium Thiomethoxide solution 100%)	382
4	Spent HCl (App 30%)	1462
5	Spent H2SO4 (98 %)	904
6	Spent Caustic	520
Intermediates		
1	Monochloro acetone	500

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	788.95	As per Schedule -I	CETP
2.	Domestic effluent	30	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 (4 nos)	2 Nos.	As per Schedule -II
2.	Process vents	13 nos.	As per Schedule -II
3.	DG set	1 no.	As per Schedule -II

6. Conditions about Non Hazardous Wastes:

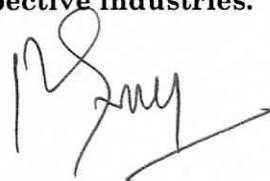
Sr. no.	Type Of Waste	Quantity & UoM	Treatment	Disposal
1	Plastic waste	50 kg/day	--	Sale
2	Plastic bottles	5 kg/day	--	Sale
3	Glass bottles	20 nos./day	---	Sale
4	Metal Scrap	As & when generated	--	Sale
5	Wood		--	Sale
6	Boiler Ash	5400 MT/A	--	Sale



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

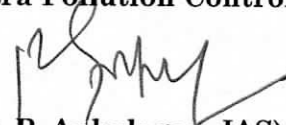
Sr. No.	Type Of Waste	Catego ry	Quanti ty	UOM	Treatn nt	Disposal
1	Used / spent oil	5.1	9	MT/A		Sale to authorized reprocessor
2	Used batteries	9.1	Variable	----		Sale to dealers
3	Spent Benzene	20.2	62	MT/A		Sale to authorized reprocessor
4	Spent Toluene	20.2	1383	MT/A		Sale to authorized reprocessor
5	Spent Acetone	20.2	468	MT/A		Sale to authorized reprocessor
6	Low Boiler Waste	29.1	25	MT/A		CHWTSDF
7	Organic tar from column - 3	29.1	9	MT/A		CHWTSDF
8	Amidine waste	29.1	0.15	MT/A		CHWTSDF
9	ODCB Waste	29.1	6	MT/A		CHWTSDF
10	Activated carbon	29.1	41	MT/A		Sale to authorized reprocessor
11	Chemical sludge	29.2	30	MT/A		CHWTSDF
12	Chemical residue / residue pesticides	29.1	243.5	MT/A		CHWTSDF
13	HTP-213 Waste Residue	29.1	25	MT/A		CHWTSDF
14	CDIM Residue	29.1	120	MT/A		CHWTSDF
15	CITD Residue	29.1	900	MT/A		CHWTSDF
16	Organic waste	29.1	780	MT/A		CHWTSDF
17	Biological sludge	29.2	27	MT/A		CHWTSDF
18	Product liners	33.3	App. 500	Nos./A		Sale to approved party after Decontamination
19	Filter & filter cloth	35.1	50	MT/A		CHWTSDF
20	Boiler soot	----	10	MT/A		CHWTSDF

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. This consent is issued in accordance with MoEF, Govt of India circular dated December 14, 2006 and compliance of the same.
11. This consent is granted on the basis of ICT certificate of no increase in pollution load dated 24.11.2014.
12. Industry, the by- product generator, should ensure that all the vehicles used to transport by-product to the vendor industry to be fitted with web based GPS system to record the origin to destination position and shall self monitor the compliance and submit monthly report to the Board.
13. Industry shall obtain affidavit from vendors stating that the by-product purchased from PP is used as raw material in their respective industries.



14. Industry shall submit BG of Rs. 2 lakh towards compliance point no.12 & 13 above.

For and on behalf of the
Maharashtra Pollution Control Board


(Dr. P. Anbalagan, IAS)
Member Secretary

Received Consent fee of -

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	431084	528865	12.05.2014	Dena Bank
2	25000	528866	12.05.2014	Dena Bank
3	30000	543026	12.05.2014	Dena Bank
4	100	543027	12.05.2014	Dena Bank
5	431084	529010	29.09.2015	Dena Bank
6	431084	529011	29.09.2015	Dena Bank

The balance fees of Rs 179616/-shall be considered at the time of next renewal of consent.

Copy to:

1. Regional Officer -Navi Mumbai and Sub-Regional Officer-Taloja, 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 1000 CMD.

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 prescribed by Board (If any)
		Limiting Concentration in mg/l, except for pH
01	pH	6.5-8.5
02	Oil & Grease	10 mg/l.
03	BOD (3 days 27°C)	100 mg/l.
04	Bioassay Test	90% survival of fish after first 96 hrs in 90% effluent & 10% dilution water.
05	Mercury	0.01 mg/l.
06	Arsenic	0.2 mg/l.
07	Cyanide	0.2 mg/l.
08	Phenolics (C ₆ H ₅ OH)	1.0 mg/l.
09	Phosphate(as P)	5.0 mg/l.
10	Suspended Solids	100 mg/l.
11	COD	250 mg/l.
12	Pesticides	Shall be Nil

C) The treated effluent shall be discharge to the CETP.

2) A] As per your consent application, the domestic effluent after going through septic tanks shall be further treated in ETP at secondary stage.

B] In case the treatment system is combined for trade effluent and sewage then the standards and disposal path prescribed at sr. no.1 B & C of schedule I shall be applicable.

3) 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 and extension or addition thereto.

4) 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.

5) 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	244
2.	Domestic purpose	35
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	793.47
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	Nil
5.	Gardening	30

6) 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 the 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	Emergency D.G. Set 625 KVA	Stack	6	HSD	10 MT/M	1	6
2	Ventilation blower plant - I (BLW - 201)	Stack	27	----	----	----	----
3	Acid scrubber (C - 502)	Stack	25	----	----	----	----
4	Vent sorb blower plant - II (BLW - 501)	Stack	25	----	----	----	----
5	Ventilation blower plant - III (BLW - 605)	Stack	13	----	----	----	----
6	Ventilation blower MCA (BLW - 101)	Stack	13	----	----	----	----
7	Emergency chlorine blower (BLW - 870/1)	Stack	17	----	----	----	----
8	Steam boilers (B - 920 A/B) stand-by)	Stack	40	FO	943 MT/M	4.5	2828
9	Briquette boiler	Dust Collector followed by Bag Filter		Briquette	1000 MT/M	0.06	39
10	Baby boiler (MR - 14812)	Stack	30	Natural gas	5 MT/M	---	---
11	Ammonia scrubber (C - 1203)	Scrubber	20	----	----	----	----
12	Bag filter blower (BLW - 601)	Stack	22	----	----	----	----
13	Bag filter blower (BLW - 602)	Stack	22	----	----	----	----
14	Bag filter blower (BLW - 603)	Stack	22	----	----	----	----
15	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.)	Stack	30	----	----	----	----
16	Scrubber for HTP - 213	Scrubber	30	----	----	----	----

		r					
17	General common scrubber HTP - 213	Scrubber	30	----	----	----	----

The 2 nos of FO fired boilers shall remain stand-by when briquette fired boiler is in operation.

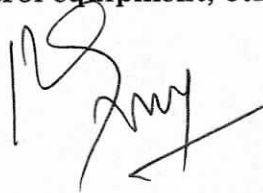
- The Applicant shall provide Specific Air Pollution control equipments as per the conditions of EP Act, 1986 and rule made there under from time to time / Environmental Clearance / CREP guidelines.
- The applicant shall operate and maintain above mentioned air pollution control system, so as to achieve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

Particulate matter	Not to exceed	150 mg/Nm ³ .
SO ₂ Process	Not to exceed	50 ppm
HCL	Not to exceed	20 mg/Nm ³
Cl ₂	Not to exceed	5 mg/Nm ³
H ₂ S	Not to exceed	5 mg/Nm ³
NH ₃	Not to exceed	30 mg/Nm ³

1. Standards for Emissions of VOC Pollutants:

Sr.No	Compounds	Maximum emission limit (mg/Nm ³), dry basis
1	Phenol	20
2	Toulene, Xylene,	100

- The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement/alteration well before its life come to an end or erection of new pollution control equipment.
- 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 lakh *	Submitted	O & M of PCS	30.07.2017	30.11.2017
2	C to R	2 lakh	Within 15 days from the date of issue of consent	Industry, the by-product generator, should ensure that all the vehicles used to transport by-product to the vendor industry to be fitted with web based GPS system to record the origin to destination position and shall self monitor the compliance and submit monthly report to the Board. Industry shall obtain affidavit from vendors stating that the by-product purchased from PP is used as raw material in their respective industries.	30.07.2017	30.11.2017

*The BG of Rs 5 lakh towards O & M of PCS shall be extended for a period upto 30.11.2017.



Schedule-IV

General Conditions:

- 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) If the MIDC pipeline is broken/ overflowing chamber, in such cases industry shall not discharge their treated effluent into MIDC drain, it shall be sent to CETP by tanker.
- 3) Industry should monitor effluent quality, stack emissions and ambient air quality monthly.
- 4) 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.
- 5) 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.
- 6) 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.
- 7) 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.
- 8) 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.
- 9) 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.
- 10) An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- 11) 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).
- 12) 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).
- 13) 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.
- 14) 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.

- 15) Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
- 16) 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.
- 17) Conditions for D.G. Set
- Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
 - 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.
 - 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.
 - Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
 - 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
 - D.G. Set shall be operated only in case of power failure.
 - The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.
 - The applicant shall comply with the notification of MoEF dated 17.05.2002 regarding noise limit for generator sets run with diesel
- 18) The industry should not cause any nuisance in surrounding area.
- 19) 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.
- 20) The applicant shall maintain good housekeeping.
- 21) The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a statement on available open plot area, number of trees surviving as on 31st March of the year and number of trees planted by September end, with the Environment Statement.
- 22) 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.
- 23) 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.
- 24) 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.
- 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 dtd. 16.11.2009 as amended.

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