

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: -Format 1.0/BO/AS(T)/NK-16800-14/CC Cell/E/CC- 8471
Date-12/09/2014

To,
M/s Spectrum Ethers Ltd,
Gut No.367, Rasegaon Village,
Nashik-Peth Road, Tal-Dindori, Dist-Nashik.

Subject: Consent to Establish/RED/LSI category...

Ref. : 1. Earlier Consent granted vide no. Format 1.0/BO/NK-16137-14/CC Cell/R/
CC-4899 dtd. 23/05/2014 valid upto 30/11/2016

Your application Dated: 06/03/2014

For: Grant of Consent to Establish (140303FT0425)
under Section 25 of the Water (Prevention & Control of Pollution) Act, 1974 & under
Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and
Authorization /renewal 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 upto commissioning or upto 5 years (upto 30/06/2019) whichever is earlier.
2. The capital investment for proposed expansion of the industry is Rs. 48.0 Cr (Existing C.I. is Rs. 26.31 Cr. as per C.A. Certificate submitted by industry).
3. The Consent is valid for the manufacture of -

Sr. No.	Product / By-Product Name	Maximum Quantity	UOM
1	Oxyflorofen technical	25	MT/Y
2	Azoxystrobin	30	MT/Y
3	Terbufos Technical	200	MT/Y
4	Metribuzin	500	MT/Y
5	PMIDA	25	MT/Y
6	TCAC	25	MT/Y
7	Tebuconazole technical	100	MT/Y
8	Triazophos	1000	MT/Y
9	Bifenthrin	100	MT/Y
10	Buprofezin	100	MT/Y
11	Ethyl Acetate	50	MT/Y
12	Thiodicarb	100	MT/Y
13	Fipronil technical	75	MT/Y
14	Difenconazole	50	MT/Y
15	Acephate Technical (including DMPAT)	250	MT/Y
16	m Phenoxybenzaldehyde	50	MT/Y
17	Hexaconazole Technical	100	MT/Y
18	Chlorpyrifos (including Na-TCP)	100	MT/Y
19	Profenophos Technical (including DETCL and BCP)	1700	MT/Y

20	Cypermethrin	50	MT/Y
21	Triclopyr Technical	50	MT/Y
22	Metalaxyl Technical	25	MT/Y
23	Thiocloprid technical	50	MT/Y
24	Tricyclozole	75	MT/Y
25	Glyphosate Technical	50	MT/Y
26	Propiconazole Technical (including DICAP/1,2,4 Triazole/1,2,pentanediol)	400	MT/Y
27	Pretilachlor	50	MT/Y
28	Attrazine (Weedicides)	400	MT/Y
29	Mancozeb	100	MT/Y
30	Deltamethrin	50	MT/Y
31	Indoxycarb technical	50	MT/Y
32	DDVP (including CMAC)	50	MT/Y
33	Pendamethalin technical	500	MT/Y
34	Anilophos	20	MT/Y
35	Phenthoate	25	MT/Y
By Products			
1	Sodium Hydrogen Sulphide (100% basis)	106.87	MT/Y
2	Sodium/Potassium Bromide Solution (100% basis)	397.22	MT/Y
3	Hydrogen Bromide Solution (100% basis)	798.50	MT/Y
4	Hydrochloric acid (30% solution)	12.75	MT/Y
5	30% NH ₃ Solution	152.50	MT/Y
6	20% Na ₂ SO ₃ Solution	1,622.50	MT/Y
7	NH ₄ Cl Solution	965.00	MT/Y
8	NaOCl Solution	1,457.50	MT/Y
9	TMA Bromide (50% solution)	415.85	MT/Y

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	151.0	As per Schedule -I	Recycle/ reuse 100% of treated effluent
2.	Domestic effluent	18.1	As per Schedule -I	Used for gardening/ irrigation purpose

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	Multi fuel Boiler	1	As per Schedule -II
2	DG set 500 KVA	1	As per Schedule -II
3	Process Vents	6	As per Schedule -II

6. Conditions about Non Hazardous Wastes:

Sr. no.	Type Of Waste	Quantity & UoM	Treatment	Disposal
1	Boiler ash	7.5 MT/D	--	Sale to brick manufacture
2	Sodium Chloride salt	150 MT/year		CHWTSDF as per area allocations

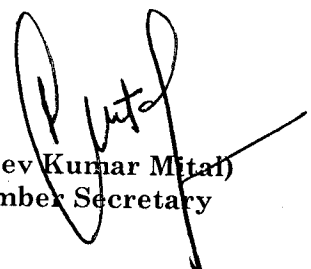
7. Conditions under Hazardous Waste (M,H & TM) Rules, 2008 for treatment and disposal of hazardous waste:

i) The Industry shall handle hazardous wastes as specified below:

Sr. No.	Type Of Waste	Category	Quantity	UOM	Treatment	Disposal
1	Waste residue containing pesticides	29.1	853.95	MT/Y	--	CHWTSDF as per area allocations
2	Residue from dryer	29.2	2257.15	MT/Y	--	CHWTSDF as per area allocations
3	Expiry/off specific pesticides	29.3	14.00	MT/Y	--	CHWTSDF as per area allocations
4	Chemical residue from decontamination	33.1	188.60	MT/Y	--	CHWTSDF as per area allocations
5	ETP sludge	33.2	102.40	MT/Y	--	CHWTSDF as per area allocations
6	Discarded containers and Liners	33.3	214.00	MT/Y	--	CHWTSDF as per area allocations
7	Distillation residue	36.4	44.80	MT/Y	--	CHWTSDF as per area allocations
8	Used Oil	5.1	2.25	MT/Y	--	Sale to CPCB registered recycler/reprocessor

- ii) The industry shall immediately dispose of odoriferous hazardous waste and ensure further treatment/disposal of the same at CHWTSDF within 48 hrs. from the receipt at the CHWTSDF site.
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. The applicant shall not take any effective step prior to obtaining Environmental Clearance. As per Para 2 of EIA Notification dtd. 14/09/2006, the effective steps include starting of any construction work or preparation of land by the project management. However, as clarified by the MoEF vide Office Memorandum No. J-1103/41/2006-IA.(I) dtd. 19/08/2010, fencing of the site to protect it from getting encroached & construction of temporary shed(s) for the guard(s) & acquisition of land shall not be treated as an effective steps.
 11. This Consent is issued without prejudice to the decision of Additional Session Judge-1, Court of Adhoc, Nashik in the Criminal Revision Case No. 577/2008 filed by the Board against the industry.
 12. This Consent is issued pursuant to the decision of the Consent Committee meeting held on 05/09/2014.

For and on behalf of the
Maharashtra Pollution Control Board

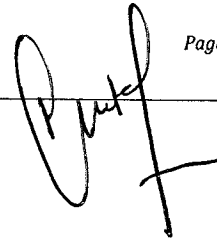

(Rajeev Kumar Mital)
Member Secretary

Received Consent fee of -

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	Rs. 75,000/-	788138	18/02/2014	SBI

Copy to:

1. Regional Officer -M.P.C. B., Nashik and Sub-Regional Officer- M.P.C. B. Nashik
- 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] i) As per your application, you have proposed to upgrade the existing the Effluent Treatment Plant (ETP) to enhance the design capacity of 195 CMD.
- ii) Trade effluent Treatment: The applicant shall provide comprehensive treatment system consisting of primary / secondary and or tertiary treatment followed by Multiple Effect Evaporators having total capacity of 195 m³/day (3 Nos. of 40 Kl, 75 Kl & 80Kl capacity each) as is warranted with reference to influent quality and operate and maintain the same continuously so as achieve the quality of the treated effluent to the following standards:

Sr. No.	Parameters	Standards prescribed by Board
	I. Compulsory Parameters	Limiting Concentration in mg/l, except for pH
01	pH	5.5 -9
02	Oil & Grease	10 mg/l
03	BOD (3 days 27°C)	30 mg/l
04	Total Dissolved Solids	2100 mg/l
	II Additional Parameters	
05	Suspended Solids mg/lit	100 mg/l
06	COD mg/lit	250 mg/l
07	Chloride mg/lit	600 mg/l
08	Sulphate mg/lit	1000 mg/l
09	% Sodium	60%
10	Phenolic Compound	1.0 mg/l

- iii) Trade effluent disposal: The condensate from the effluent bearing streams, Multiple effective evaporators and cooling tower blowdown after Biological treatment shall be 100% recycled and reused.

- B] i) As per your application, you have proposed to provide the sewage treatment plant (STP) with the design capacity of 25 CMD.

- ii) Sewage Effluent Treatment: The applicant shall provide sewage treatment plant 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 27oC.	Not to exceed	100 mg/l.

- iii) Sewage Effluent Disposal: The treated sewage shall be applied on land for gardening/irrigation purpose only within premise.

C] Other conditions:

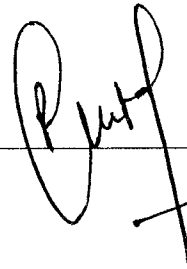
1. Industry should monitor effluent quality regularly.

- 2) The Applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Cess Act, 1977 and as amended, (to be referred as Cess Act) amendment Rules,2003 there under.

Sr. No.	Purpose for water consumed	Water consumption quantity (CMD)
1.	Domestic	19.0
2.	Industrial Processing	117.2
3.	Industrial cooling	200.0
4.	Boiler feed	71.0
5.	Agriculture/Gardening	25.0

The applicant shall regularly submit to the board the returns of water consumption in the following prescribed form and pay the Cess as specified under Section 3 of the said Act.

- 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 and/ or 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 provide Specific Water Pollution control system as per the conditions of EP Act, 1986 and rule made there under from time to time.

A handwritten signature in black ink, appearing to be 'R. K. P.', is written over the page number. The signature is stylized and somewhat cursive.

Schedule-II

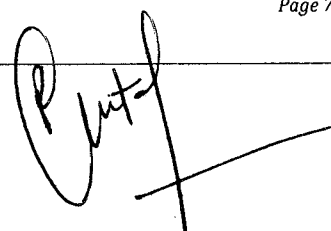
Terms & conditions for compliance of Air Pollution Control:

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

Sr. No	Stack Attached To	APC System	Height in Mtr	Type of Fuel	Quantity & UoM	S %	SO ₂ Kg/Day
1	Multi fuel Boiler	MDC	36	Coal, or	Coal-45.0 MT/Day,	225	450.
				Baggase	Baggase-118.0 MT/Day	236	472
2	DG Set (500 KVA)	--	4.0 mtrs above roof	Diesel	60 Ltrs/hr	12.4	25.2
3	TCAC, CMAC Reactors	Alkali Scrubber (SO ₂)	20	-	-	-	-
4	Chlorpyrifos, Thiocloprid, Pendamethalin, Anilphos, Metalaxyl, Tricyclazole, Azoxy Storbis, Pretilachlor, TCAC, DICAP, CMAC, Na-TCP Reactors	Alkali Scrubber (HCl)	20	-	-	-	-
5	Phenthoate, m-Phenoxy Benzaldehyde Reactors	Water followed by Alkali Scrubber (HBr)	20	-	-	-	-
6	TCAC Reactors	Alkali Scrubber (Cl ₂)	20	-	-	-	-
7	Acephate, Tricyclazole, 1,2,4 Triazole Reactors	Water followed by Acid Scrubber (NH ₃)	20	-	-	-	-
8	Phorate, Ethion, Terbufos, Phenthoate Reactors	Alkali Scrubber (H ₂ S)	20	-	-	-	-

2. The applicant shall operate and maintain air pollution control system, so as to achieve the level of pollutants to the following standards:

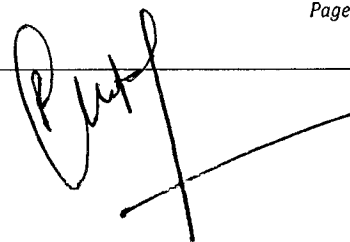
SPM/TPM	Not to exceed	150.0 mg/Nm ³
SO ₂ (Boiler)	Not to exceed	472.0 Kg/Day
H ₂ S	Not to exceed	5.0 mg/Nm ³
Cl ₂	Not to exceed	5.0 mg/Nm ³
P ₂ O ₅ (as a H ₃ PO ₃)	Not to exceed	10.0 mg/Nm ³
NH ₃	Not to exceed	30.0 mg/Nm ³
Particulate matter with pesticide compounds	Not to exceed	20.0 mg/Nm ³
CH ₃ Cl	Not to exceed	20.0 mg/Nm ³
HBr	Not to exceed	5.0 mg/Nm ³
SO ₂ (process)	Not to exceed	50.0 ppm
HCl	Not to exceed	20.0 mg/Nm ³
VOC viz. MA, PA, Phenol	Not to exceed	20 mg/Nm ³



VOC viz. Ethyl Benzene(EB), Styrene, Toluene, Xylene, Aromatics, EG, PG	Not to exceed	100 mg/Nm ³
VOC viz. Non-methane HC (Paraffin), Acetone, Olefins	Not to exceed	150 mg/Nm ³

3. Guidelines for Fugitive Emissions Control:

- i) Fugitive Emissions over reactors formulations areas, centrifuges, chemical loading, transfer areas etc. are to be collected through hoods and ducts by induced drafts and controlled by providing scrubber/dust collector.
 - ii) Scrubber needs to be installed for canalized emissions so as to control fugitive emissions and are operated continuously. In addition, organic gaseous emissions (odour and toxic) be routed through activated carbon beds (adsorption) or to thermal oxidizer and for dust.
 - iii) Emphasis shall be given to solvents management /solvent loss prevention.
 - iv) Enclosures to chemicals storage area, collection of emissions from loading of raw materials, in particular solvents through hoods and ducts by induced draft, and control by scrubber/dust collector are to be ensured.
 - v) Vapour balancing, Nitrogen blanketing ISO tanks etc. to be adopted, besides special care needs to be taken for control in respect of odorous chemicals.
 - vi) All process vents shall be routed through vent condensers to the localized ventury scrubbers, finally connected to a multi stage scrubbing system for keeping the odour nuisance in and around the plant under control.
 - vii) Chilled water & chilled brine shall be used in condenser & breather to control process emission and solvent losses.
 - viii) Reactor's vent lines shall be connected to condenser system, with chilled water/ brine, for condensing the volatiles and controlling VOC emissions.
 - ix) Closed loop filling systems shall be provided to avoid spillages.
 - x) Closed feed systems shall be adopted through B-Tanks, for all the reactors and, no open handling shall be permitted.
 - xi) SCADA operating system will be installed.
 - xii) Release of odoriferous compounds viz. Ethyl Mercaptan shall be eliminated by change in process route to manufacture Profenophos Tech.
4. 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.
 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).
 6. 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.



Schedule-III

Details of Bank Guarantees

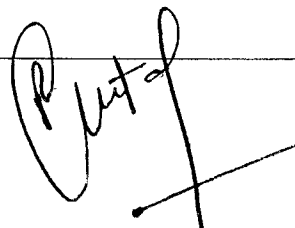
Sr. No.	Consent (C to E/O/R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1	C to E	Rs. 5.0 Lakh	Within 15 days	Not to take any effective step towards expansion of the existing mfg. capacity unless Environmental Clearance is obtained	Upto commissioning	31/10/2019
2	C to E	Rs. 5.0 Lakh	Within 15 days	Compliance of Consent conditions	Upto commissioning	31/10/2019

The applicant shall furnish an irrevocable bank guarantees of Rs. 10 Lakh (Rs. 5.0 Lakh each) as mentioned above at Regional Office, Nashik within 15 days with the validity upto 31/10/2019.

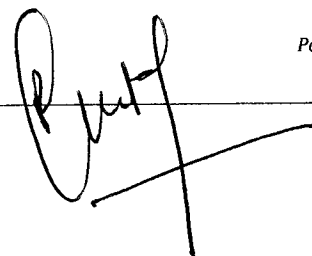
Schedule-IV

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/quarterly.
- 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 obtain Consent to Operate from Maharashtra Pollution Control Board before actual commencement of proposed expansion of the plant.**
 - 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
 - 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
 - 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 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.
- 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 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).
- 26) The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
- 27) The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification dt. 16.11.2009 as amended.
- 28) The unit has to display and maintain the data online outside the factory main gate in Marathi & English both on a 6'*4' 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.
- 29) **The industry shall recycle/reprocess/reuse/recover hazardous waste as per the provision contained in the HW(M,H & 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 cannot 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.**

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