Central Pollution Control Board HWM Division, Delhi

- <u>Sub</u>: Minutes of the Twelfth Meeting of the Technical Expert Committee for "Evaluation of proposal for utilization of the hazardous wastes under Rule 11 of the Hazardous Waste (Management, Handling & Transboundary) Rules, 2008".
- The Twelfth Meeting of the Technical Expert Committee on "Evaluation of proposals for utilization of the hazardous wastes as a supplementary resource or for energy recovery, or after processing" was held at CPCB, Delhi on 17/07/2014. List of the participants is enclosed at <u>Annexure I</u>.
- Shri B. Vinod Babu, I/c HWMD, welcomed the members and invitees of the Committee
 and informed that 12 applications (new cases) have been received for approval for
 utilization of HW under Rule 11 of the HWM Rules, 2008. The list of applicants
 considered for placing before the TEC is given at Annexure-II
- 3. The recommendations of the committee on the new proposals discussed in the meeting are given at **Annexure III A & B**.
- 4. The recommendations of the committee based on the findings of the trial runs/ joint inspections carried out by CPCB and SPCB are given at **Annexure IV.**
- 5. The recommendations of the committee regarding grant of renewal permission for utilization of hazardous waste subsequent to the inspection by CPCB are given at **Annexure V.**
- The meeting ended with vote of thanks to the Chair.

Marie Marie

Annexure I

CENTRAL POLLUTION CONTROL BOARD DELHI- 110 032

Date: July 17, 2014

Venue: 2nd Floor, Conference room, Parivesh Bhawan, CPCB, Delhi- 110 032

Twelfth Meeting of the Technical Expert Committee for Evaluation of proposal for utilization of the hazardous wastes as a supplementary resource or for energy recovery, or after processing

List of Participants

S. No Name		Designation	Member of the Committee /
1.	Shri R.K. Garg	Former Managing Director, Indian Rare Earths Ltd.	Chairperson
2.	Shri. K.P. Nyati	-	Member
3.	Dr. Tapan Chakraborty	Ex-Director, National Environmental Engineering Research Institute (NEERI), Nagpur	Member
3.	Dr. I. Haq	Ex- Additional Director, Central Pollution Control Board	Member
4.	Shri R. K. Vashist	Sr. Advisor, PDIL, Noida	Representing Member of the committee on behalf of PDIL
5.	Sh. B. Vinod Babu	Senior Environmental Engineer & I/c HWMD, CPCB, Delhi	Member Convener
6.	Sh. Bharat K Sharma	Senior Environmental Engineer, HWMD, CPCB, Delhi	Invitee
7.	Sh. G. Rambabu	Assistant Environmental Engineer (HWMD), CPCB, Delhi	Invitee
8. Ms. Deepti Kapil		Assistant Environmental Engineer (HWMD), CPCB, Delhi	Invitee

The list of applications considered for discussion in the 10th meeting of TEC

I. List of new cases (all called for technical presentation)

S. No.	Name of the Industry					
1.	M/s I. R. Chemicals, Karaidanga, Post-Bhojerhat, 24. Parhana(S), West Bengal					
2.	M/s Sterlite Copper, SPICOT Industrial Complex, Madurai Bypass Road, Tuticorin- 628002					
3.	Jaipur – 755026, Odisha					
4.	M/s Shree Metal Industries, Plot No. 8/2038 & 8/2687, Brahmani Tarang, Vedvyas, Sundargarh Rourkela-769041, Odisha					
5.	M/s Sterling Biotech Limited, Jambusar state highway, village Masar, Tal. Padra, Dist. Vadodara, Gujarat-391421					
6.	M/s Novel Spent Acid Management, Plot No. G-1, Phase-1, GIDC Vatva, Ahmedabad - 382445					
7.	M/s Adhunik Metaliks Limited, Vill Chadrihariharpur, Post - Kuarmunda, Dist-Sundargarh, Odisha – 770039					
8.	M/s Arth Metallurgicals Pvt. Ltd., Plot No. 95/2 KH No. 226/1, Lalpur, Dharshiva, Raipur, Chhattisgarh					
9.	M/s Satguru Metals & Power Pvt. Ltd., Plot No. 401/577, Gariamal, Bargaon, Sundargarh-770016 (Odisha)					
10.	M/s Teesta Agro Industries Ltd. Vill Mazabari, P.O Rajganj, Dist Jalpaiguri, West Bengal					
11.	M/s Triveni Enterprises, E-27, Udyog Kunj Industrial Area, Distt- Ghaziabad (U.P)					
12.	M/s Jarad Chemicals, Plot No. C1B/416, GIDC, Ankleshwar – 393002, Bharuch, Gujarat					

II. List of old cases (to be discussed as decided in earlier TEC meeting)

(i)	M/s Triupati Chemicals, Udaipur, Rajasthan
(ii)	M/s Vimal Chemicals, Udaipur, Rajasthan
(iii)	M/s Roshan Enterprises, Udaipur, Rajasthan
(iv)	M/s Shreenath Enterprises, Udaipur, Rajasthan
(v)	M/s Purva Enterprises, Udaipur, Rajasthan
(vi)	M/s Nahar Minerals & Chemicals, Udaipur, Rajasthan
(vii)	M/s Mahalaxmi Chemicals, Udaipur, Rajasthan
(viii)	M/s Vidsa India Limited, Udaipur, Rajasthan
(ix)	M/s Friends Enterprises, Udaipur, Rajasthan
(x)	M/s Peacock Chemicals, Udaipur, Rajasthan
(xi)	M/s Dirba Paper Products Pvt. Ltd., Punjab
(xii)	M/s Menon Board Mill, Punjab
(xiii)	M/s Sant Mix Boards, Puniab

- III. The list of cases pertaining to renewal;
 - i. M/s Ravindra Heraeus Pvt. Ltd. A-196, (A), "F" Road, M.I.A, Madri, Udaipur-313003
 - ii. M/s Indian Steel Corporation Ltd., Survey No.370, Village Bhimasar, Tal. Anjar, Dist. Kachchh-370240, Gujarat
- IV. The list of cases pertaining to grant of approval for a period of one year;

. No	Name of the Industry		
1.	M/s Shikhar Ferro Private Limited, Khasra No. 868/2, Village- Kotri, Tehsil & District- Bhilwara (Rajasthan)		
2.	M/s Philips Electronics India Limited, Industrial Focal Point, Phase-IX, S. A. S. Nagar, Mohali, Punjab-160062		
3.	M/s Zalpa ENTERPRISES, Plot No. 324, Nr. Himson Char Rasta, G.I.D.C., Pandesara, Surat-394 221.		
4.	M/s JSW Steel Limited, Salem Works, Pottaneri Kalipatti Village, Mecheri, Mettur taluk, Salem-636453, Tamil Naidu		



Annexure III-A

Recommendation of the Committee for New proposals for approval under Rule 11 of the Hazardous Waste (Management, Handling & Transboundary) Rules, 2008.

S.	Name of the Industry	HW as Raw	Process	Recommendations
No	•	Material & Product	1.10000	Neconinendations
1.	M/s I. R. Chemicals, Karaidanga, Post-Bhojerhat, 24. Parhana(S), West Bengal	Spent solvent to be utilized for manufacturing Industrial Thinner and Synthetic adhesive	Distillation of Spent solvent followed by condensation of vapours to produce Distilled/Recovered Solvents.	The committee has observed that the proponent has not connected chilled water circuit to condenser as a result there would be significant losses or emission of VOCs. It is recommended that the unit shall take following measures followed by verification of the same by CPCB team; Connect the condensers with chilled water/brine water circuit; Conduct fire safety audit; and Provide venting systems for receivers, storage tanks also which will be passed through the condenser. Upon compliance of the same, CPCB may permit trial utilization for a period of 10 days.
2.	M/s Sterlite Copper (A unit of Sesa Sterlite) Ltd SPICOT Industrial Complex, Madurai Bypass Road, Tuticorin- 628002	Scrubber Cake to be utilized by mixing it with phosphogyps um for further use in cement industries.	The Scrubber Cake from Primary & Secondary Copper Smelter plant is oxidized in separate oxidation tank wherein sulphites are oxidized to sulphates by purging with air and further mixed with phosphogypsum of phosphoric acid plant for further use in cement industries.	The committee has observed the proponent had earlier sought permission for utilisation of TGS cake from SAP. Now, the unit intends to utilize cake from scrubber installed for other furnaces and operations. The committee recommends utilization of the same by mixing with phosphogypsum in order to dilute metal concentrations and utilize the same in cement plants. However, it is required to ensure proper mixing of scrubber cake with phosphogypsum. The committee therefore recommends inspection by CPCB/SPCB for verification of mixing facilities and issue the permission for one year upon satisfactory
3.	M/s Jindal Stainless Limited, Kalinga Nagar Industrial Complex (KNIC), Danagadi, Jajpur Road, Jaipur – 755026, Odisha	ETP Sludge to be utilised for manufacturing briquettes for further used in captive furnace	Filter cakes of Cold Rolling Mill is screened followed by drying and mixing of lime and molasses to produce briquettes for further use in its own Ferro alloy furnaces.	mixing. The committee observed that the ETP sludge cake will be co-processed in house for steel making in submerged arc furnace. Therefore recommends utilization after conducting trial run for a period of 1 month during which CPCB/SPCB team may monitor the flue gas emissions and compare with without utilization values. Parameters viz. NOx, SO ₂ , HCl and PM may be monitored.

Mar

S. No	Name of the Industry	HW as Raw Material & Product	Process	Recommendations
4.	M/s Shree Metal Industries, Plot No. 8/2038 & 8/2687, Brahmani Tarang, Vedvyas, Sundargarh, Rourkela- 769041, Odisha	Aluminium dross utilised for manufacturing of Aluminium ingots	The aluminium dross is Pulverized, screened and melted in coke fired small oven to produce Ingots	During presentation, the proponent could not explain about the composition of the dross, the melting system and the pollution control systems for flue gas as well as emissions from the process operations. In the absence of this information, the
				committee does not recommend the proposal.
5.	M/s Sterling Biotech Limited, Jambusar state highway, village Masar, Tal. Padra, Dist. Vadodara, Gujarat- 391421	Biomass sludge to be utilized for manufacturing briquettes for further use as fuel in captive boiler	The biomass sludge generated from its plant is converted into briquettes for further use as fuel in captive boiler	The committee observed that the material is mostly bio-mass with minimal traces of metals and residues, which will be used as fuel after drying and compacting. The committee, therefore, recommends trial utilization of dried biomass in boiler for one month during which emissions shall be monitored in presence of SPCB/CPCB team. If HCI emissions are within the limit of common HW incinerator standard, the permission may be given for one year.
6.	M/s Novel Spent Acid Management, Plot No. G-1, Phase-1, GIDC Vatva, Ahmedabad – 382445	Spent Sulphuric acid to be utilized for manufacturing Chemical gypsum for further use in Cement industries	Spent Sulphuric acid is neutralized with lime stone powder and hydrated lime to produce chemical gypsum	The committee recommends use of gypsum produced from utilization of spent sulphuric acid in cement plants. However, the committee observed that during the process effluent is generated which has got chloride content of the order of 10,000 mg/l. The committee also observed that there is no norm for chloride for inlet into the CETP. This may be brought to the notice of GPCB.
7.	M/s Teesta Agro Industries Ltd. Vill Mazabari, P.O Rajganj, Dist Jalpaiguri, West Bengal	Sulphur Sludge and SSP/SAP Cleaning & Scrubbing residue to be utilized for manufacturing Single Super Phosphate	The Sulphur Sludge and residue of SSP/SAP Cleaning & Scrubbing generated from its own plant to be mixed with the product (i.e. SSP) itself as filler.	The proponent did not attend the meeting. The committee therefore decided to invite proponent in next meeting to explain process details alongwith details of unit processes adopted and the pollution control systems w.r.t air, water & solid waste and safety system etc. to enable the committee to evaluate the same.
8.	M/s Adhunik Metaliks Limited, Vill Chadrihariharpur, Post - Kuarmunda, Dist- Sundargarh, Odisha – 770039	LD Sludge to be utilized for manufacturing Sinter	GCP sludge of LD Furnace is mixed with iron ore fines, coke fines, lime stone, dolomite and fed into sintering plant to prepare sinter. The sintered material is further used in blast furnace as raw material.	The committee recommended for utilization of GCP sludge for a period of one month. During trial run, inspection may be carried out to see the handling and storage of GCP sludge. Compliance to the emission norms to be verified by SPCB. Upon satisfactory compliance, CPCB may issue permission for one year for utilization of GCP sludge.



S. No	Name of the Industry	HW as Raw Material & Product	Process	Recommendations
9.	M/s Arth Metallurgicals Pvt. Ltd., Plot No. 95/2 KH No. 226/1, Lalpur, Dharshiva, Raipur, Chhattisgarh	Spent Catalyst Containing Molybdenum to be utilized for manufacturing Calcium Molybdate	Spent Catalyst is roasted in furnace at 600°C and grinded in ball mill. These grinded particles are palletized and then soda roasting is done at temperature of 500°C. The roasted material is gain grinded in ball mill and material is further leached with water, caustic soda and HCI. This is further passed through filter and liquid is precipitated to get Calcium Molybdate.	The committee observed that details on mass balance and expected characteristics of wastewater and mode of disposal of wastewater are not provided. Moreover, the proponent has no clarity on disposal or utilisation of solid waste. The committee therefore defers the case.
10.	M/s Triveni Enterprises E-27, Udyog Kunj Industrial Area, Distt- Ghaziabad (U.P)	Spent Solvent to be utilized for manufacturing Thinner	-	The proponent did not attend the meeting. The committee therefore decided to invite proponent in next meeting to explain process details alongwith information sought vide CPCB to enable the committee to evaluate the same.
11.	M/s Satguru Metals & Power Pvt. Ltd. Plot No. 401/577, Gariamal, Bargaon, Sundargarh- 770016 (Odisha)	LD Sludge to utilised for manufacturing Ferro Silicon	GCP Sludge from LDF/EAF is screened and mixed with coal, coke and quartz. The agglomerated material is briquetted to form final product i.e. Ferro Silicon.	The committee recommended for utilization of GCP sludge from LD Furnace/EAF for co-processing in ferrosilicon furnace (submerged arc furnace) for a period of one month. During trial run, inspection may be carried out to see the handling and storage of GCP sludge. Compliance to the emission norms to be verified by SPCB. Upon satisfactory compliance, CPCB may issue permission for one year for
12.	M/s Jarad Chemicals, Plot No. C1B/416, GIDC, Ankleshwar - 393002Bharuch, Gujarat	Spent Solvents to be utilised for manufacturing Solvents	Distillation of Spent solvent followed by condensation of vapours to produce Distilled/Recovered Solvents.	utilization of GCP sludge. The proponent did not attend the meeting. The committee therefore decided to invite proponent in next meeting to explain process details alongwith details of unit processes adopted and the pollution control systems w.r.t air, water & solid waste and safety system etc. to enable the committee to evaluate the same.



Recommendation of the Technical Expert Committee on Old Cases for approval under Rule 11 of the Hazardous Waste (Management, Handling & Transboundary) Rules, 2008

S. No	Name of the Industry	HW utilized & Product manufactured	Background	Recommendations
1.	M/s Vimal Chemicals F-122, Mewar Industrial Area, Madri, UDAIPUR- 313003 (Rajasthan)	Hydro Fluoro Silicic acid to be utilized for manufacturing Sodium Silico Fluoride	As per the recommendation of the 10 th TEC meetings the units have submitted the requisite information. The same was placed before the Committee for discussion.	The committee observed that after mixing the treated effluent having 6.7 % TDS with 50 MLD of city sewage prior to treatment in STP, the
2.	M/s Tirupati Chemicals, Factory:-B-169b, Mewar Industrial Area, Road No- 5 Madri, Udaipur 31001	Hydro Fluo Silicic acid to be utilized for manufacturing Sodium Silico Fluoride		TDS in the inlet to STP is expected to increase from 1100 ppm to 1367 ppm. Further, the Rajasthan SPCB has requested the proposals of these units may be considered.
3.	M/s Roshan Enterprises F-5, Road No.4, MIA, Madri, Tehsil - Girwa, Udaipur, Rajasthan 313001	Hydro Fluo Silicic acid to be utilized for manufacturing Sodium Silico Fluoride		In view, of above, the committee recommends that utilization of Hydro Fluoro Silicic acid provided SPCB has no objection for discharge
4.	M/s Shreenath Enterprises B-173 (A), Road No.3, MIA, Madri, Tehsil - Girwa, Udaipur, Rajasthan 313003	Hydro Fluo Silicic acid to be utilized for manufacturing Sodium Silico Fluoride		of treated wastewater with city sewage. However, these units shall be inspected individually to verify the adequacy of the facilities prior to issue of permissions for a period of one year.
5.	M/s Purva Enterprises, B-173 (A), Road No.3, MIA, Madri, Tehsil – Girwa, Udaipur, Rajasthan 313003	Hydro Fluo Silicic acid to be utilized for manufacturing Sodium Silico Fluoride		one year.
6.	M/s Nahar Minerals & Chemicals, F-7, Road No.4, MIA, Madri, Tehsil - Girwa, Udaipur, Rajasthan 313001	Hydro Fluo Silicic acid to be utilized for manufacturing Sodium Silico Fluoride		
7.	M/s Mahalaxmi Chemicals, E-45, MIA, Madri, Tehsil – Girwa, Udaipur, Rajasthan 313001	Hydro Fluo Silicic acid to be utilized for manufacturing Sodium Silico Fluoride		
8.	M/s Vidsa India Limited, E-172-173, Mewar Industrial Area, Riico, Madri, Udaipur, Rajasthan 313003	Hydro Fluo Silicic acid to be utilized for manufacturing Sodium Silico Fluoride		
9.	M/s Friends Enterprises A-192, Road No.5, MIA, Madri, Tehsil - Girwa, Udaipur, Rajasthan 313001	Hydro Fluo Silicic acid to be utilized for manufacturing Sodium Silico Fluoride		



S. No	Name of the Industry	HW utilized & Product manufactured	Background	Recommendations						
10.	M/s Peacock Chemicals, E-77, Road No. 1, Mewar Industrial Area, Madri, Udaipur, Rajasthan 313003	Hydro Fluo Silicic acid to be utilized for manufacturing Sodium Silico Fluoride								
11.	M/s Dirba Paper Products Pvt. Ltd., Kadial Road, Dirba, Mandi, 148035, Sangrur	ETP Sludge to be utilized for manufacturing Mill Board	Letters have been received from the units requesting for keeping the proposal in abeyance till the decision of	Since the proponents have approached MoEF to consider ETP sludge generated from paper industries as non-						
12.	M/s Menon Board Mill, Sangrur Road, Sunam, District Sangrur	Боаго							authorities on decategorization of the ETP sludge comes.	hazardous and the projects have accordingly requested CPCB to keep their
13.	M/s Sant Mix Boards, Pharwahi Road, Bhikhi, District Mansa			applications in abeyance. The committee therefore recommends that if they do not come back in next three months, their applications may be treated as withdrawn.						



Recommendation of the Technical Expert Committee on Grant of approval after trial run under the provision of Rule 11 of the Hazardous Waste (Management, Handling & Transboundary) Rules, 2008

-	S. HW as Paw Background Recommenda				
S. No	Name of the Industry	HW as Raw Material& Product	Dackground	Recommendations	
1.	M/s Shikhar Ferro Private Limited, Khasra No. 868/2, Village- Kotri, Tehsil & District- Bhilwara (Rajasthan)	Oil based sludge and Water based sludge (HW Category Sc-I, 5.2) generated from grinding mill section of Ball & Roller Bearings manufacturing units to be utilized for manufacturing of Ferrous Sulphate	In compliance with earlier recommendations of the committee, the unit was jointly visited by the officials of CPCB and Rajasthan SPCB. The inspection report received from CPCB Zonal Office may be discussed for grant of approval for an initial period of one year.	The committee recommended to grant permission for utilization of Oil Based sludge (Category 5.2 of Schedule I of the HWM Rules, 2008) for producing Ferrous Sulphate @ 6600 MTA for a period of one year. However, the unit shall label the product i.e. Ferrous Sulphate as "not be utilized for drinking water purification and to be use for industrial purposes only". Further, sulphuric acid mist shall not exceed 35mg/Nm³ in the stack.	
2.	M/s Philips Electronics India Limited Phase- 9, Industrial Area, Sas Nagar, Mohali -160 062, Punjab	Spent Acid containing Molybdenum compound, (which is in-house generated) to be utilized for production of Molybdenum Trioxide.	In compliance with earlier recommendations of the committee, the unit was jointly visited by the officials of CPCB and Punjab PCB. The inspection report received from CPCB Zonal Office may be discussed for grant of approval for an initial period of one year.	The committee observed that the chemistry involved in crystallization of molybdenum trioxide is not clear. Further, mode of disposal of residual sulphuric acid and effluent from the scrubber is not indicated. The committee therefore recommends the technical representative of the project proponent may be invited in the next meeting for clarification on the same.	
3.	M/s Zalpa ENTERPRISES Plot No. 324, Nr. Himson Char Rasta, G.I.D.C., Pandesara, Surat-394 221.	Grinding iron dust and Spent acid to be utilized for manufacturing Ferrous Sulphate	In compliance with earlier recommendations of the committee, the unit was jointly visited by the officials of CPCB and Gujarat PCB. The inspection report received from CPCB Zonal Office may be discussed for grant of approval for an initial period of one year.	The committee reviewed the trial run report received from the Zonal Office and made the following recommendations: (i) Install hood over the reaction vessels and connect the same to scrubber with the stack of suitable height; (ii) Provide acid proof tiles in the working area. (iii) Provide proper arrangement for storage of iron dust demarcated away from reaction vessels. Similarly provision for proper storage of filter cake shall also be ensured. (iv) GPCB may be	



S. No	Name of the Industry	HW as Raw Material& Product	Background	Recommendations
				requested to ensure to separate activities/functioning of two units presently operating on adjacent plots without any boundary/demarcatio n.
				Upon completion of the above and submission of relevant supporting documents, photographs as a proof of the same, permission may be granted for utilization of iron residues containing oil @ 134 MT/month and Spent acid @ 483 MT/Month for manufacturing Ferrous Sulphate for a period of one year. However, the unit shall ensure that Ferrous Sulphate so produced shall not be utilized for drinking water purification and the same shall be used for industrial purposes only. Further, sulphuric acid mist shall not exceed 35mg/Nm³ in the stack.
4.	M/s JSW Steel Limited, Salem Works, Pottaneri Kalipatti Village, Mecheri, Mettur taluk, Salem-636453 Tamil Naidu	Iron Oxide (Process waste) from Illmenite chemical beneficiation plant	In compliance with earlier recommendations of the committee, the unit was jointly visited by the officials of CPCB and Tamil Naidu PCB. The inspection report received from CPCB Zonal Office may be discussed for grant of approval for an initial period of one year.	The committee observed exceedance of HCI, Acid mist and PM emissions. Inspection report was also found not very favorable. Committee therefore recommends that a technical representative of the company may be invited to the next meeting for understanding the remedial steps.



Recommendation of the Technical Expert Committee on Renewal Permission of Grant under the provision of Rule 11 of the Hazardous Waste (Management, Handling & Transboundary) Rules, 2008

S.		LIW on Daw Material		
No	Name of the Industry	HW as Raw Material & Product	Background	Recommendations
1.	M/s Ravindra Heraeus Pvt. Ltd. A-196, (A), "F" Road, M.I.A, Madri, Udaipur-313003	Spent catalyst (carbon/alumina based) containing silver/ platinum ETP Sludge containing platinum to be utilized for manufacturing precious metals	These units were initially granted one year permission for utilization of respective hazardous waste. The applications for renewal of permission were forwarded to CPCB Zonal Office for inspection/verification and submit report along with recommendations. The report on the same has been received and the matter is placed	The committee recommended renewal of permission with validity period of 5 years for utilization of Spent catalyst and molecular sieves (HW Category ShI, 1.7), Spent catalyst (HW Category ShI, 4.2, 17.2, 18.1, 35.2), Spent carbon/Spent catalyst (HW Category ShI, 18.2 and 28.2) and Chemical sludge (HW Category ShI, 34.3) @ 260 MTA containing precious metals i.e. platinum, Iridium, Osmium, Palladium, Rhodium, Ruthium, Rhenium, Gold & Silver for manufacturing of respective precious metals.
2.	M/s Indian Steel Corporation Ltd., Survey No.370, Village Bhimasar, Tal. Anjar, Dist. Kachchh-370240, Gujarat	Spent HCL Acid from pickling unit to be utilized for manufacturing Hydrochloric Acid (HCL) and Iron Oxide (Fe ₂ O ₃ Powder)	matter is placed before the committee to discuss grant of renewal permission.	The committee recommended renewal of permission with validity period of 5 years for utilization of Spent HCL Acid @ 5000 MT/Annum for manufacturing of Hydrochloric acid & Iron Oxide Powder.

During the presentation the committee was informed that some units were already in operation without requisite permission under Rule-11 of HWM Rules, 2008. The committee therefore suggests that letter may be issued to all SPCBs/PCCs that such units should not be allowed to operate till such time they obtain permission under Rule-11.

