

**Central Pollution Control Board**  
**HWM Division, Delhi**

**Sub:** Minutes of the Tenth 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".

1. The Tenth 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 07.05.2014. List of the participants is enclosed at **Annexure I**.
2. Shri B. Vinod Babu, I/c HWMD, welcomed the members and invitees of the Committee and informed that 32 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 committee due to time constraint could not discuss some of the new and old cases regarding grant of approval/renewal of permission for utilization of hazardous waste. *Therefore, it was recommended that another meeting be conducted at the earliest preferably in last week of May 2014.*
6. The meeting ended with vote of thanks to the Chair.

*Rubans*  
*A. Bhattacharya*

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**Annexure I**

**CENTRAL POLLUTION CONTROL BOARD  
DELHI- 110 032**

**Date:** May 07, 2014

**Venue:** 2<sup>nd</sup> Floor, Conference room, Parivesh Bhawan, CPCB, Delhi- 110 032

**Tenth 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**

<b>S. No</b>	<b>Name</b>	<b>Designation</b>	<b>Member of the Committee / Invitee</b>
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. Pratik D. Bharne	Environmental Engineer	Invitee
8.	Sh. G. Rambabu	Assistant Environmental Engineer (HWMD), CPCB, Delhi	Invitee
9.	Ms. Deepti Kapil	Assistant Environmental Engineer (HWMD), CPCB, Delhi	Invitee

**The list of applications considered for discussion in the 10<sup>th</sup> meeting of TEC****I. List of new cases (all called for technical presentation)**

S.No	Name of the Industry
1.	M/s Rohit Ferro Tech Ltd. At-Kalinga Nagar Industrial Complex, Duburi-755026
2.	M/s Eco Friend Industries, A-205, TTC Industrial Area, MIDC Parwane Village, Thane Belapur Road, Navi Mumbai-400710
3.	M/s Ecosol Industries Pvt.Ltd. SP-3-2, MIA Ext. Alwar (Rajasthan)
4.	M/s Gaurav Aluminium, At Post. Hirma, Jharsuguda-768202
5.	M/s TES-AMM (India) Pvt. Ltd, A-18 Sipcot Industrial Growth Center Panrutti 'A' Village Oragadam, Sriperumbudur Taluk Kancheepuram (Tamil Naidu)-631604
6.	M/s J.K Lakshmi Cement Ltd., P.O jaykaypuram, Distt- Sirohi , Rajasthan-307019
7.	M/s Shree Cement Ltd. Village – Ras, Tehsil- Jaitaran, Distt- Pali (Rajasthan)
8.	M/s Roshan Enterprises, F-5, Road No.4, MIA, Madri, Girwa, Udaipur, Rajasthan
9.	M/s Friends Enterprises, A-192, Road No.5, Madri Industrial Area, Madri, Girwa, Udaipur, Rajasthan
10.	M/s Peacock Chemicals. E-77 Road No1 Mewar Industrial Area Madri Udaipur 313003
11.	M/s Shreenath Enterprises, B-173 (A), Road No.3, Madri Industrial Area, Udaipur, Rajasthan
12.	M/s Purva Enterprises, B-173 (A), Road No.3, Madri Industrial Area, Udaipur, Rajasthan
13.	M/s Nahar Minerals & Chemicals, F-7, Road No.4, Madri Industrial Area, Udaipur, Rajasthan
14.	M/s Mahalaxmi Chemicals. E-45, MIA, Madri, Udaipur Raj.
15.	M/s Vidsa India Ltd. E-172-173, Mewar Industrial Area, Riico, Madri, Udaipur-313 003 (Rajasthan)
16.	M/s Lucky Enterprises, Village Jhiriwala, P.O. Reru, Tehsil Nalagarh, District Solan H.P. 174101
17.	M/s S.K. Trading Co, Village Barotiwala, Tehsil Baddi, District Solan H.P.-173205.
18.	M/S Two Star Trading Co., Village Thana (Narangpur), Tehsil Baddi, District Solan , H.P.-173205
19.	M/s SHARMA AND COMPANY, Village, Nandpur, Mauza Shahpur Thsil Baddi, Distt. Solan H.P.
20.	M/s K.K Enterprises, Village Sitalpur Baddi, Tehsil Baddi, Distt- Solan, H.P – 173205
21.	M/s Him Trading Company, Village Sheetalpur, Mauza Baddi, Tehsil Baddi, Distt-Solan H.P
22.	M/s Gulshan Trading Company, Village Kuruana, P.O Baddi, Tehsil Baddi, Distt-Solan, H.P -
23.	M/s Super Trading Company, Village Gullerwala, P.O Baddi, Tehsil Baddi, Distt-Solan, H.P
24.	M/s Enviro Enterprises. 18C, Industrial Area Lodhimajra, the. Baddi, Distt. Solan. H.P.
25.	M/s Howrah Drum , Chandmari Road, P.O- Danesh Sheikh Lane, Howrah-711109 (W.B)
26.	M/s Green Energy Resources, Shanti Nagar Road, Near-Furniture Point, Budharaja, Sambalpur, Odisha-768004
27.	M/s Cairn India Ltd., Mangala Processing Terminal (MPT), village Ngana, Tehsil Barmer, District Barmer, Rajasthan
28.	M/s ECO Management and Protection Services, F-33, RIA, Kaharani, Distt- Alwar, (Rajasthan)
29.	M/s Arth Metallurgicals Pvt. Ltd., P.H.No.-95/12.Kh No.-226/1 , Village Lalpur, Teh & Dist Raipur (C.G)
30.	M/s Manglam Ceramic Pvt. Ltd. Survey No. 120, Village Jakhhar, Teh : Jamnagar, Gujarat
31.	M/s Metakani Resources, Jhunjhunwala House, Nandpara, Sambalpur, Odisha-768001
32.	M/s Hindalco Ind. Ltd, At/Po- Lapanga, Near SH-10, Distt-Sambalpur (Odisha)

**II. List of old cases (called up for presentation as decided in earlier TEC meeting)**

- (i) M/s Triupati Chemicals, Udaipur, Rajasthan
- (ii) M/s Vimal Chemicals, Udaipur, Rajasthan
- (iii) M/s Wecycle Inc. Rajasthan
- (iv) M/s Vinayak Chemicals, Gujarat

**III. The list of cases pertaining to renewal;**

- i. M/s Metacast International, Bohidarnuapali, P.O. Sankarma, Sambalpur - 768006
- ii. M/s Weston Electro Carbon & Graphite Products, Korba, Chhattisgarh-495677
- iii. M/s Continental Carbon India Limited, Ghaziabad -201001 (U.P)

IV. The list of cases pertaining to grant of approval for a period of one year;

S. No	Name of the Industry
1.	M/s Shree Tiles Plot no. 44/P, 8-A National Highway, Trajpar-363642, Taluka- Morbi, Distt- Rajkot (Gujarat)
2.	M/s Patidar Products Behind Bandhunagar, N.H.8/A Near Samsun Ceramics, Makansar-363642, Tal:-Morbi, Distt:- Rajkot (Gujarat)
3..	M/s Brighto Chem S. no. – 128, 8-a National Highway, Village=Jambudiya, Taluka:-Morbi,Dist:- Rajkot (Gujarat)
4.	M/s Sunrise Chemicals 8-A, National Highway, Lakaddhar Road, Wakaner, Dist:- Rajkot (Gujarat)
5.	M/s Alpha Products S. no. – 301/ P, Lilapur, Near Canal, Morbi-363642, Taluka:- Morbi, Distt- Rajkot (Gujarat)
6.	M/s Bond Products Pvt Ltd S.no. – 74/p2,plot no.-1,2, Bhadiyad Road,Bhadiya MORBI-363642, Distt- Rajkot (Gujarat)
7.	M/s Dhoriyani Silicate Industries, S. No. 767/2&3,Lakhdhirpur Road,Morbi-363642 Taluka:-Morbi,Dist:- Rajkot (Gujarat)
8.	M/s Shiv Chemical S. no. – 820/1/2-P, Village-Ghuntu,Morbi-363642, Taluka:- Morbi, Distt- Rajkot (Gujarat)
9..	M/s Neha Enterprises Village Kaimbawala, P.O. Mandhala Tehsil Baddi, District Solan H.P.-173205.
10.	M/s Balaji Trading Company Village Sarrajmagra Gujran Baddi, Tehsil Baddi, District Solan H.P-173205
11.	M/s A.K. Enterprises Village Malku Majra, P.O. Bhud, Tehsil Baddi, Distt Solan (H.P) 173205
12.	M/s M. Rauf Enterprises, Kasara No. 1747-49-53, Near Alpala, More Pen Road, Village, Thane P.O. Baddi, Tehsil Baddi, District Solan, HP - 173205
13.	M/s Shivalik Solid Waste Management Ltd. Vill. Majra, P.D. Dabhota, The. Nalagarh, Distt.Solan (H.P)
14.	M/s Kamal Enterprises Village Kotla, P.O. Barotiwala, Tehsil Baddi, Distt- Solan (H.P)-173205
15.	M/s Kamal Enterprises Village Malpur, P.O. Baddi Tehsil Baddi, Distt- Solan (H.P)-173205
16.	M/s Parara Udyog F- 195-196, Masoori-Gulawathi Road Industrial Area, Panchsheel Nagar, Uttar Pradesh
17.	M/s Hindustan Platinum C – 122 TTC Industrial Area, Pawane, navi Mumbai – 400763
18.	M/s Howrah Chemicals & Solvent Domjur Amta Road, Dakhinbary, P.O. Dakhin Jhparah, Howrah - 5
19.	M/s Chemtreat Industries G-1, 346, Rico Industrial Area, Chopanki, Bhiwadi- 301019 Distt. Alwar Rajasthan
20.	M/s Bansal Paper Board Mills Abohar Road, Village Mahabahdar, Distt. & Tech. Muktsar, Punjab

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

S. No	Name of the Industry	HW as Raw Material & Product	Process	Recommendations
1.	M/s Rohit Ferro Tech Ltd. At-Kallnga Nagar Industrial Complex, Duburi-755026	GCP Sludge generated from Ferro-manganese furnace to be utilised for manufacturing of Ferro Manganese and Silico Manganese	Mixing of sludge in mixture with cement and water. The paste is dried and cutted into pieces and fed into furnace where Mn ore, coke, coal and flux is added to produce silico manganese	The committee observed that the applicant is already handling Mn bearing material for producing Ferro-Mn and Silico-Mn, therefore it is recommended that the applicant may be permitted to procure GCP sludge for co-processing with Mn ore initially for a period of 3 months.  However, they have to obtain authorization from SPCB. Further during the use of this material, an inspection may be carried out to ensure that adequate dust and emission control measures have been taken. Based on the inspection report, approval may be given by CPCB without referring to this committee.
2.	M/s Eco Friend Industries A-205, TTC Industrial Area, MIDC Parwane Village, Thane Belapur Road, Navi Mumbai-400710	X-ray films utilized to recover Silver metal	The X-ray film is mixed with hydrometallurgical leaching agent and further reducing agent is added and this solution is neutralized. This is further heated in furnace to get the final product i.e Silver metal.	The committee is of the view that used X-Ray films are not included in Schedule-I nor qualify to be included as per Schedule-II of the HWM Rules, 2008. Therefore CPCB permission under Rule-11 is not required and the SPCB may process the case.
3.	M/s Ecosol Industries Pvt.Ltd. SP-3-2, MIA Ext. Alwar (Rajasthan)	Spent solvent Mixture of EA and 2 Ethyl Hexanoic Acid utilized for recovery of Purified EA and 2EHA	Distillation of spent solvent to recover solvent	The committee observed that the required information like source of spent solvent, process details, readiness of the plant, use of recovered product etc. is not available, so the applicant has been asked to provide this information for re-consideration of the proposal.
4.	M/s Gaurav Aluminium At Post. Hirma, Jharsuguda- 768202	Aluminium dross utilised for manufacturing of Aluminium ingots	The aluminium dross is crushed, sieved and melted in coke fired small oven to produce Ingots	The committee observed that the process of recovery of Aluminium metal (10-20%) from the dross is purely physico-mechanical, and no significant environmental issues are involved. However, the residues after Aluminium removal have to be sent to TSDFs for final disposal.  Committee therefore recommends permission for utilization after inspection of the facilities.
5.	M/s TES-AMM (India) Pvt. Ltd A-18 Sipcot Industrial Growth Center Panrutti 'A' Village Dragadam Sriperumbudur Taluk Kancheepuram (Tamil Naidu)- 631604	Spent Catalyst utilised for manufacturing of Precious Metal	Spent catalyst is leached in a reactor to generate metal compounds adopting suitable hydro-metallurgical process.	The committee recommends for conducting trial utilization of spent catalyst containing Pt/Rh/Pd/Ag for a quantity not exceeding 2MT.  After receipt of trial utilization report, the matter may be placed before this committee.
6.	M/s J.K Lakshmi Cement Ltd. P.D jaykaypuram, Distt- Sirohi Rajasthan-307019	Chemical gypsum to be utilized for manufacturing Cement	Replacement of mineral gypsum with Chemical gypsum in cement manufacturing process at Cement mill	The committee has observed that the said chemical gypsum is sourced from the unit utilizing spent acid which is also hazardous waste as such the chemical gypsum generator needs permission of CPCB under Rule-11. Therefore, the gypsum generating unit has been advised to apply under Rule-11.
7.	M/s Shree Cement Ltd. Village – Ras, Tehsil- Jaitaran Distt- Pali (Rajasthan)			

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S. No	Name of the Industry	HW as Raw Material & Product	Process	Recommendations			
				So far as use of chemical gypsum in cement plant is concerned, since no adverse environmental impact is anticipated, committee recommends use of chemical gypsum in cement plants.			
8.	M/s Roshan Enterprises F-5, Road No.4, MIA, Madri, Girwa, Udaipur, Rajasthan	Hydro fluoro Slicic acid to be utilized for manufacturing Sodium Silico Fluoride	Hydro Fluoro Silicic Acid and Sodium Sulphate solution mix in a reactor. The solution is further centrifuged followed by drying to produce the final product.	The committee observed that high TDS effluent (> 6%) is generated in this process. The committee was informed that this effluent is mixed with city sewerage and sent for treatment at STP, which is reportedly used as raw water for industrial process.  The committee therefore suggested that the impact of this TDS effluent on the quality of the treated water needs to be assessed.  After obtaining this information, the matter will be discussed in the next meeting.			
9.	M/s Friends Enterprises, A-192, Road No.5, Madri Industrial Area, Madri, Girwa, Udaipur, Rajasthan						
10.	M/s Peacock Chemicals E-77 Road No1 Mewar Industrial Area Madri Udaipur 313003						
11.	M/s Shreenath Enterprises, B-173 (A), Road No.3, Madri Industrial Area, Udaipur, Rajasthan						
12.	M/s Purva Enterprises, B-173 (A), Road No.3, Madri Industrial Area, Udaipur, Rajasthan						
13.	M/s Nahar Minerals & Chemicals, F-7, Road No.4, Madri Industrial Area, Udaipur, Rajasthan						
14.	M/s Mahalaxmi Chemicals. E-45, MIA, Madri, Udaipur Raj.						
15.	M/s Vidsa India Ltd. E-172-173, Mewar Industrial Area, Rlico, Madri, Udaipur- 313 003 (Rajasthan)						
16.	M/s Lucky Enterprises, Village Jhiriwala, P.O. Reru, Tehsil Nalagarh, District Solan H.P. 174101				Cleaning /washing of Contaminated/ Discarded containers /barrel / used drums	Cleaning of Contaminated drums with water and reuse	All the units located in Baddi area were visited by the officials of CPCB and HP SPCB wherein trial runs monitoring were also conducted in 04 units. Based on the trial run study the committee recommended a uniform protocol for the units involved in cleaning of contaminated containers. The said protocol is given at Annexure V.  Upon verification of compliance of the said protocol by SPCB, the individual unit may be permitted for utilization of contaminated drums on case to case basis.
17.	M/s S.K. Trading Co, Village Barotiwala, Tehsil Baddi, District Solan H.P. - 173205.						
18.	M/S Two Star Trading Co., Village Thana (Narangpur) Tehsil Baddi, District Solan H.P.-173205						
19.	M/s SHARMA AND COMPANY Village, Nandpur, Mauza Shahpur Thsil Baddi, Distt. Solan H.P.						
20.	M/s K.K Enterprises Village Sitalpur Baddi, Tehsil Baddi Distt- Solan, H.P - 173205						
21.	M/s Him Trading Company Village Sheetalpur, Mauza Baddi Tehsil Baddi, Distt-Solan H.P - 173205						
22.	M/s Gulshan Trading Company Village Kuruana, P.O Baddi Tehsil Baddi, Distt-Solan H.P -173205						

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S. No	Name of the Industry	HW as Raw Material & Product	Process	Recommendations
23.	M/s Super Trading Company Village Gullerwala, P.O Baddi Tehsil Baddi, Distt-Solan H.P -173205			
24.	M/s Enviro Enterprises. 18C, Industrial Area Lodhimajra, the. Baddi, Distt. Solan. H.P.	Cleaning /washing of Contaminated/ Discarded containers /barrel / used drums to manufacture plastic granuales	Cleaning of Contaminated drums with water followed by shredding to produce plastic granules	
25.	M/s Howrah Drum Chandmari Road P.O- Danesh Sheikh Lane Howrah-711109 (W.B)	Cleaning / washing of Contaminated/ Discarded containers /barrel / used drums	Cleaning of contaminated drum with water and saw dust to soak oils & chemicals for re-use.	It was recommended that the unit also shall comply with the protocol given at Annexure V).  Upon receipt of the above information /photographs, officials of CPCB and SPCB shall jointly visit the plant to verify the utilization process suggesting any additional measures, if required.
26.	M/s Green Energy Resources Shanti Nagar Road, Near-Furniture Point, Budharaja, Sambalpur, Odisha-768004	Spent Pot Lining to be utilized for manufacturing of Industrial Carbon Fuel	SPL is broken mechanically into small pieces (100 to 300) and processed in crushing section to reduce the size to 15 mm and transferred to rotary furnace kiin (400°C). After this the SPL is fed to hydro reactor cooler. The hydro reactor is decanted for further treatment with lime to form finished product.	The applicant made a technical presentation before the committee, however due to time constraint the matter could not be discussed and hence recommendations on the same may be made in the next meeting.
27.	M/s Cairn India Ltd. Mangala Processing Terminal (MPT), village Ngana, Tehsil Barmer, District Barmer, Rajasthan	Drill cutting oil & Water Based Mud to be utilized as Sub- grade material for roads, hydrocarbon well pads, etc. Soil Stabilization of green belt development	-	Since this case could not be discussed due to time constraint, the same may be placed in the next meeting of the committee. Also the applicant may also be invited to make technical presentation in the said meeting.
28.	M/s ECO Management and Protection Services F-33, RIA, Kaharani, Distt- Alwar (Rajasthan)	Grinding Sludge Paint Sludge ETP Sludge to be utilized for manufacturing Briquette  Cotton Waste (Used hand gloves, Oily rages etc.) to be utilized as Reusable Hand gloves, rags etc	-	

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S. No	Name of the Industry	HW as Raw Material & Product	Process	Recommendations
		Discarded Containers to be utilized as Re-usable containers		
29.	M/s Arth Metallurgicals Pvt. Ltd., P.H.No. -95/12.Kh No.-226/1 Village Lalpur, Teh & Dist Raipur (C.G)	Spent Pot Lining to be utilized for manufacturing Casting powder	SPL is crushed into small pieces followed by treatment with caustic soda and water which is further filtered. The liquid containing fluoride is further treated with calcium and further filtered to get CaF <sub>2</sub> . The filtered which is in wet form is dried using dryer to get final product i.e. Casting powder	
30.	M/s Manglam Ceramic Pvt. Ltd. Survey No. 120 Village Jakhar, Teh : Jamnagar Gujarat	Spent catalyst to be utilized for manufacturing TiO <sub>2</sub> powder	Spent catalyst is dried under natural sun light followed by calcinations. The Calcined material undergoes micronising in micronising unit to produce the final product .	
31.	M/s Metakani Resources Jhunjhunwala House, Nandpara, Sambalpur, Odisha-768001	Used Anode Butt to be utilized for manufacturing Carburiser	The unit has already been granted permission for utilization of Used Anode Butt for manufacturing Electrode Carbon Paste.  However, the unit proposes to manufacture carburizer by utilizing used anode butt in the same plant by mixing cleaned anode butt with calcined petroleum coke in a ratio of 1:1.	
32.	M/s Hindalco Ind. Ltd At/Po- Lapanga, Near SH-10, Distt-Sambalpur (Odisha)	Cleaned Anode Butts to be utilized for manufacturing Green Anodes	The cleaned anode butt from other smelter unit will be utilised for manufacturing green anode	

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Ruhman  
Mishra



**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 Fluo Silicic acid to be utilized for manufacturing Sodium Silico Fluoride	in case of both these units, the committee in its earlier meeting had decided to invite proponents in the next meeting to explain process details and associated infrastructures along with pollution control systems w.r.t air, water & solid waste and safety system etc. to enable the committee to evaluate the same.	The committee observed that high TDS effluent (> 6%) is generated in their process. The committee was informed that the effluent is mixed with city sewerage and sent for treatment at STP, which is reportedly used as raw water for industrial process.
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	Further, the applicant were also asked to provide the following information/documents:  a) Name and type of industries to whom the Sodium Silico Fluoride will be sold. b) Details of storage and process area (i.e. flooring & shed details and their size) supported with photographs. c) Characteristics of Hydro fluoro silicic acid proposed for utilization. d) Concentration of TDS and Fluoride in wastewater including feasibility of zero discharge e) Details of mode of disposal of the sludge generated; and f) Material balance for utilization of Hydro Fluoro Silicic acid.	The committee has suggested that the impact this TDS on the quality of the treated water needs to be assessed.  After obtaining this information, the matter will be discussed in the next meeting.
3.	M/s Wecycle Inc E -72, Riico Growth Center, Dholpur, Rajasthan-	Spent Pot Line (SPL) to be utilized for manufacturing Carbon Additives Flux	The committee in its earlier meeting suggested to give another opportunity to appear in the next meeting of this committee along with representative of user industry (who is prospective utilizer of proposed product made from Spent Pot Line).	Since these cases could not be discussed due to time constraint, the same may be placed in the next meeting of the committee.
4.	M/s Vinayak Chemicals Plot No. 330/A, Road No. 33, GIDC, Sachin - 394230, Dist - Surat (Gujarat)	Iron sludge/grinding sludge to be utilized for manufacturing Ferrous Sulphate	The committee recommended to give another opportunity to appear in the next meeting of this committee along with details sought vide CPCB letter dated 29.11.2013..	

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Rajesh Kumar

**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. No	Name of the Industry	HW as Raw Material & Product	Background	Recommendations
1.	M/s Shree Tiles Plot no. 44/P, 8-A National Highway, Trajpar-363642, Taluka- Morbi, Distt- Rajkot (Gujarat)	Tarry Residue to be utilized as a supplementary fuel in furnace to manufacture sodium silicate	In compliance with previous recommendations of the committee, joint inspection report has been received from CPCB Zonal Office and the matter may be discussed to consider grant of approval for an initial period of one year.	The committee observed that trial run shows that the flue gas from tar burning meets the standards w.r.t. PM and SO <sub>2</sub> , however, exceeds the norm for NO <sub>x</sub> stipulated in consent to operate given by GSPCB for furnace oil.  However, in respect of NO <sub>x</sub> , standard in HW incinerator is 400mg/Nm <sup>3</sup> , which is much lenient than the standard stipulated by GSPCB (i.e 50 ppm).  Based on the trial run reports, the committee recommends the following:  i. Grant of permission under Rule-11 for utilization of tarry residue in furnace.  ii. GPCB may review NO <sub>x</sub> standard for this kind of material.  iii. Tarry residue to be injected into furnace only after the furnace achieves more than 1100°C by using conventional fuels (FD/ LDD/ PNG/ CNG etc.)  iv. Only electrical heaters should be used for heating the tar for liquefaction.  v. Fumes if any released during heating should be channelized as combustion air to furnace.
2.	M/s Patidar Products Behind Bandhunagar, N.H.8/A Near Samsun Ceramics Makansar-363642, Tal:-Morbi, Distt:- Rajkot (Gujarat)			
3.	M/s Brighto Chem S. no. - 128, 8-a National Highway, Village=Jambudiya, Taluka:-Morbi,Dist:- Rajkot (Gujarat)			
4.	M/s Sunrise Chemicals 8-A, National Highway, Lakaddhar Road, Wakaner, Dist:- Rajkot (Gujarat)			
5.	M/s Alpha Products S. no. - 301/ P, Lilapur, Near Canal, Morbi-363642, Taluka:- Morbi, Distt- Rajkot (Gujarat)			
6.	M/s Bond Products Pvt Ltd S.no. - 74/p2,plot no.-1,2, Bhadiyad Road,Bhadiya MDRBI-363642, Distt- Rajkot (Gujarat)			
7.	M/s Dhoriyani Silicate Industries, S. No. 767/2&3,Lakhdhirpur Road,Morbi-363642 Taluka:-Morbi,Dist:- Rajkot (Gujarat)			
8.	M/s Shiv Chemical S. no. - 820/1/2-P, Village-Ghuntu,Morbi-363642, Taluka:- Morbi, Distt- Rajkot (Gujarat)			
9.	M/s Neha Enterprises Village Kaimbawala, P.O. Mandhala Tehsil Baddi, District Solan H.P.-173205.	Cleaning of contaminated containers/used drums/barrels for re-use	In compliance with previous recommendations of the committee, all the units located in Baddi area were jointly visited by the officials of CPCB and HP SPCB wherein trial run monitoring were also conducted in 04 units. The report on the	All the units located in Baddi area were visited by the officials of CPCB and HP SPCB wherein trial runs monitoring were also conducted in 04 units. Based on the trial run study the committee
10.	M/s Balaji Trading Company Village Sarrajmaira Gujran Baddi, Tehsil Baddi, District Solan H.P.-173205			

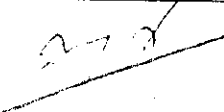
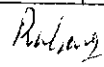

S. No	Name of the Industry	HW as Raw Material & Product	Background	Recommendations
11.	M/s A.K. Enterprises Village Malku Majra, P.O. Bhud. Tehsil Baddi, Distt Solan (H.P) 173205		same is placed before this committee. The matter may be discussed for grant of approval for an initial period of one year.	recommended a uniform protocol for the units involved in cleaning of contaminated containers. The said protocol is given at Annexure VI  Upon verification of compliance of the said protocol by SPCB, the individual unit may be permitted for utilization of contaminated drums on case to case basis.
12.	M/s M. Rauf Enterprises, Kasara No. 1747-49-53, Near Alpala, More Pen Road, Village, Thane P.O. Baddi, Tehsil Baddi, District Solan, HP - 173205			
13.	M/s Shivalik Solid Waste Management Ltd. Vill. Majra, P.O. Dabhota, The. Nalagarh, Distt.Solan (H.P)			
14.	M/s Kamal Enterprises Village Kotla, P.O. Barotiwala Tehsil Baddi. Distt- Solan (H.P)-173205			
15.	M/s Kamal Enterprises Village Malpur, P.O. Baddi Tehsil Baddi, Distt- Solan (H.P)-173205	Cleaning of contaminated containers/used drums/barrels for re- use	During the joint visit of CPCB and SPCB, it was informed by HP SPB and the unit that they don't want to operate the unit and accordingly with draw the application. Thus, the unit was not inspected.	The committee recommended to close the matter and inform the unit accordingly.
16.	M/s Parara Udyog F- 195-196, Masoori-Gulawathi Road Industrial Area, Panchsheel Nagar, Uttar Pradesh	Cleaning of contaminated containers/used drums/barrels for re- use	In compliance with earlier recommendations of the committee, the unit was jointly visited by the officials of CPCB and UP SPCB wherein monitoring was also conducted. The inspection report received received from CPCB Zonal may be discussed to consider grant of approval for an initial period of one year.	This unit should comply with the protocol given at Annexure VI -  Upon verification of compliance by SPCB, the unit may be permitted for utilization of contaminated drums.
17.	M/s Hindustan Platinum C - 122 TTC Industrial Area, Pawane, navi Mumbai - 400763	Spent Precious Metal Catalyst to be utilized for manufacturing Precious Metal	In compliance with earlier recommendations of the committee, the unit was jointly visited by the officials of CPCB and Maharashtra SPCB. The inspection report received received from CPCB Zonal may be discussed to consider grant of approval for an initial period of one year.	The committee recommended to grant permission for utilization of Spent Catalyst containing Platinum/ Palladium/ Rhodium/ Ruthenium/ Silver (Sl. No. 1.7; 4.2 and 28.2 of the Schedule I of the HWM Rules 2008) @5000 metric tons/annum for one year for producing items manufactured from Platinum/ Palladium/ Rhodium/ Ruthenium/ Silver.
18.	M/s Howrah Chemicals & Solvent Domjur Amta Road, Dakhinbary, P.O. Dakhin Jhparah, Howrah - 5	Waste solvent to be utilized for manufacturing of Distilled mixed solvents	In compliance with earlier recommendations of the committee, the unit was jointly visited by the officials of CPCB and West Bengal SPCB. The inspection report received from CPCB Zonal Office may be discussed for grant of approval for an initial period of one year.	Since these cases could not be discussed due to time constraint, the same may be placed in the next meeting of the committee.
19.	M/s Chemtreat Industries G-1, 346, Rico Industrial Area, Chopanki, Bhiwadi- 301019	Recovery of Solvent from Spent Organic Solvent	In compliance with earlier recommendations of the committee, the unit was jointly	

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S. No	Name of the Industry	HW as Raw Material & Product	Background	Recommendations
	Distt. Alwar Rajasthan	(Spent Acetone, Spent Ethylene Acetate, Spent IPA, Spent Toluene, Spent Mixture Solvents/Chemicals, Spent organic composite solvents)	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.	
20.	M/s Bansal Paper Board Mills Abohar Road, Village Mahabahdar, Distt. & Tech. Muktsar, Punjab	ETP Sludge to be utilized for manufacturing card board	The unit was granted permission for utilization of ETP Sludge vide our letter dated 31.12.2012 having validity till 30.12.2013 and further requested to extend the aforesaid permission stating that no utilization of ETP Sludge was carried out during the aforesaid permitted period. Accordingly, the matter may be discussed for extension of the aforesaid permission.	

**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. No	Name of the Industry	HW as Raw Material & Product	Background	Recommendations
1.	M/s Metacast International Bohidarnuapali, P.O. Sankarma, Sambalpur - 768006	Used Anode Butt to be utilized for manufacturing Electrode Carbon Paste	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 before the committee to discuss grant of renewal permission.	Since these cases could not be discussed due to time constraint, the same may be placed in the next meeting of the committee.
2.	M/s Weston Electro Carbon & Graphite Products Unit II, Plot No.32-63, Rajgamar Road, Industrial area, Korba Chhattisgarh-495677	Used anode Butt to be utilized for manufacturing Carbon Electrode Paste, Tamping paste & Carbon block and Carbon coke for usage in Ferro alloy furnaces.		
3.	M/s Continental Carbon India Limited. A-14, Industrial Area No. 1, (Off NH-24), South Side of G.T. Road, Ghaziabad -201001 (U.P)	Carbon slurry to be utilized for manufacturing carbon black		

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**Protocol for cleaning of contaminated drums/containers/ barrels for re-use and manufacturing of plastic granules:**

The drums containing solid material may be taken into cleaning process and in case of liquids, only selected list of chemicals containing drums may only be permitted. Such list to be prepared by CPCB in consultation with generating industry and SPCB.

The units involved in cleaning of contaminated drums/containers/barrels should have the following minimum requirements;

**A. Handling and Storage**

1. Separate covered storage area for both contaminated containers and cleaned containers. There should be proper slope and spillage collection pit.
2. The manifest system and logbook should be maintained. Labeling should be done on all contaminated drums indicating source and date of receipt and type of drum
3. Prior to cleaning, the left-over or residual material in the drums should be transferred into a separate container for safe storage and disposal at TSDF.

**B. Cleaning Procedure**

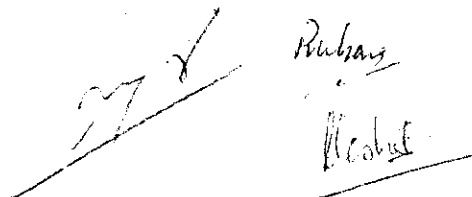
1. All the drums should be cleaned with hot caustic solution up to 2% concentration or detergent.
2. There should be two stage cleaning i.e. caustic /surfactants (detergent) cleaning followed by fresh water cleaning.
3. Provide parapet wall along the container storage and washing area.
4. The number of nozzles in 1 HP pump shall not exceed 3.
5. The nozzles should be modified with multiple jets to ensure that water jets hit whole inner surface of the containers.
6. There should be separate area with provision of hose pipe with spray nozzle for washing outer surface of the containers.

**C. Effluent Treatment**

1. Flow through evaporator should be regulated based on heating capacity of the evaporator. Water flow meter should be installed at the inlet to evaporator and at the inlet to ETP.
2. The vent of vacuum pump should be elevated at least up to 2 mtr above the roof level
3. The units should ensure zero discharge by evaporation of the effluent.
4. In case of availability of CETP, the units shall become members of the same and send their effluent for final treatment and disposal

**D. Labeling of Cleaned drums for re-use**

1. The labels on the washed containers for re-use should be removed (preferable with a paint) and the cleaned containers should be labeled with prominent indelible text  
"Drum Cleaned by : M/s \_\_\_\_\_; Date: \_\_\_\_\_"  
"For industrial use only  
NOT for storing any food material"
2. The above is not applicable in case the cleaned drums are shredded and re-cycled.



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