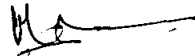
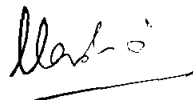


Central Pollution Control Board
HWM Division, Delhi

Sub: Minutes of the Thirteenth 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 Thirteenth 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 27/08/2014. 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 24 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.**
6. The meeting ended with vote of thanks to the Chair.









Annexure I

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

Date: August 27, 2014

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

Thirteenth 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 / Invitee
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	Environmental Engineer (HWMD), CPCB, Delhi	Invitee
8.	Ms. Deepti Kapil	Environmental Engineer (HWMD), CPCB, Delhi	Invitee

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The list of applications considered for discussion in the 13th meeting of TEC

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

S. No.	Name & address
1.	M/s. J.S Enterprises, Plot No 12,45, 1314-A & 14-B, Jal Road, Atodara-394130, Tal: Olpad, Distt: Surat, Gujarat
2.	M/s Fertile India Agrotech Ltd., K-2, Textile Colony, Industrial Area A, Ludhiana, Punjab - 141003
3.	M/s The Fertilizers & Chemicals Travancore Ltd., Cochin Division, Ambalamedu- 682303
4.	M/s Bijaya Aluminiums, S-3/34, Macheshwar Industrial Estate, Bhubaneswar
5.	M/s. A.K Enterprises , 105, Sector-A, Zone-B, Macheshwar Industrial Estate, Bhubaneswar
6.	M/s. Spiro Intermediates Pvt. Ltd., C-6, PIPDIC Industrial Estate, Kirumampakkam, Puducherry
7.	M/s. Rishab Intermediates Pvt. Ltd., A-70, PIPDIC Industrial Estate, Sedaraper, Pondicherry
8.	M/s. Premier Chemical Industries, S.F. No. 123/8B, 9A, Thuthipet Village & Post, Villianur Commune, Puducherry
9.	M/s. Swastik Tungsten Pvt. Ltd., Plot No. C-4/15, MIDC, Shrirampur, Distt-Ahmednagar- 413709
10.	M/s. Sai Metallik, At- Jamunalia, PO- Badaposhi, Via-narnapur, Distt- Keonjhar, Odisha - 758014
11.	M/s. Shubham Sales Co., 5.3 Km Milestone, Rohtak Bhiwadi Road, Haryana
12.	M/s Vandana Chemicals, Plot No. 7409, GIDC, Ankleshwar, Gujarat - 393002
13.	M/s. Dhoriyani Glass & Ceramics, S. No. 767/2 & 3, Lakhdhirpur Road, Taluka - Morbi, Dist-Rajkot, Gujarat
14.	M/s. Swastik Industries, Plot No- 177/1, Dhuva, Tehsil - Wankaner, Distt Rajkot, Gujarat
15.	M/s. Pearl Industries, Plot No Survey No. 123/1, Village- Rangapur, Nr Roland Ceramic, Jetpar Road, Rangpar, Tal, Morbi, Dist - Rajkot, Gujarat- 363642
16.	M/s. Nobel Cesa Coat, Plot No - 8-A, National Highway, Juna Jambudiya, Tal - Morbi, Dist - Rajkot, Gujarat - 363641
17.	M/s. Balaji Ceramics, Plot no 231, GIDC Rafleshwar Estate, Vill Morbi, Tehsil-Morbi, Distt-Rajkot, Gujarat - 363642
18.	M/s. Unique Cera Coat Industries, Plot No. S.No 8, Lilapur Road, At Lilapur, Taluka - Morbi, Distt- Rajkot, Gujarat 363641
19.	M/s. Galaxy Glass Industries, S. No. 153, 8A National Highway, At Lalpur, Taluka- Morbi, Distt-Rajkot Gujarat - 363641
20.	M/s. Matrix Cera Enamel Co., Plot No. 226, GIDC Rafleshwar, N. H. 8A, Rafleshwar Tal - Morbi, Distt-Rajkot, Gujarat - 363642
21.	M/s. Pooja Ceramic Pvt. Ltd., Plot No. 6, 8-A, National Highway, At Trajpar, Taluka- Morbi, Distt-Rajkot, Gujarat- 363642
22.	M/s. Glass Tech, 116/P-2, 8 A, National Highway, At. Sartanpar, Tal. Wankaner, Dist-Rajkot, Gujarat- 363622
23.	M/s Arth Metallurgicals Pvt. Ltd., Plot No. 95/2 KH No. 226/1, Lalpur, Dharshiva, Raipur, Chhattisgarh
24.	M/s Shiv Shakti Enterprises, Mauja Chakjangi, Khasra No. 42, Village Chakjangi, Baddi, Tehsil Nalagarh, Distt-Solan (H.P)

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

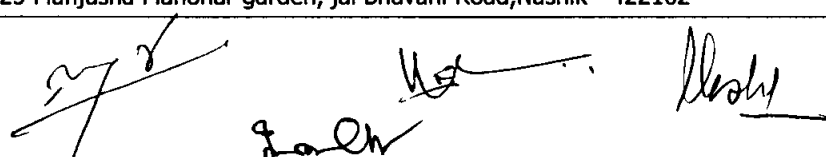
S. No.	Name of the Industry
1.	M/s Teesta Agro Industries Ltd. Vill.- Mazabari, P.O.- Rajganj, Dist.- Jalpaiguri, West Bengal
2.	M/s Triveni Enterprises, E-27, Udyog Kunj Industrial Area, Distt- Ghaziabad (U.P)
3.	M/s Jarad Chemicals, Plot No. C1B/416, GIDC, Ankleshwar - 393002, Bharuch, Gujarat
4.	M/s Philips Electronics India Limited, Industrial Focal Point, Phase-IX, S. A. S. Nagar, Mohali, Punjab
5.	M/s JSW Steel Limited, Salem Works, Pottaneri Kalipatti Village, Mecheri, Mettur taluk, Salem (Tamil Naidu)

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

S. No	Name of the Industry
1.	M/s Ambica Industries, C1/B 457, G.I.D.C. Estate, Sachin, Surat - 394230, Gujarat

IV. The list of cases pertaining to renewal;

S. No	Name of the Industry
1.	M/s Dielectric Corporation, F/92, Industrial Area, Govindpura, Bhopal- 462 030
2.	M/s Sumak Pigments, A-25 Manjusha Manohar garden, jai Bhavani Road, Nashik - 422102



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. J.S Enterprises, Plot No 12,45, 1314-A & 14-B, Jal Road, Atodara-394130, Tal: Olpad, Distt: Surat, Gujarat	Contaminated / Discarded containers /barrel / used drums & Bags/Liners for re-use	Cleaning of Contaminated drums with detergent/caustic solution and water for reuse	The committee recommended cleaning of contaminated drums received from industries, as per guidelines attached herewith (Annexure- VI) after inspection by CPCB and GPCB. Further, the cleaning of drums with solvent is not permitted. So far as solvent recovery is concerned, the matter will be considered only after CTE/CTO is obtained from the concerned SPCB. The committee did not agreed for cleaning of bag/liners for reuse.
2.	M/s Fertile India Agrotech Ltd., K-2, Textile Colony, Industrial Area A, Ludhiana, Punjab - 141003	Spent sulphuric acid generated from pickling operation to be utilized for manufacturing Ferrous Sulphate	Reaction of iron dust and spend sulphuric acid in a reaction vessel followed by filter pressing and crystallization	The committee has earlier recommended utilization of Spent sulphuric acid for manufacturing Ferrous Sulphate for treatment of wastewater. In this case also, the unit is proposing to use of soent acid generated from pickling operation for Ferrous Sulphate production. The committee therefore recommends utilization of spent sulphuric acid generated from pickling operation in the producing Ferrous Sulphate with same provisions after verification of the facility by CPCB and SPCB.
3.	M/s The Fertilizers & Chemicals Travancore Ltd., Cochin Division, Ambalamedu- 682303	Sulphur muck to be utilized for manufacturing Complex Fertilizer	Sulphur muck generated from its own plant will be grinded to 1-4 mm size. 0.1 % of this powered sulphur muck is then mixed with complex fertilizer.	The committee recommends utilization of the sulphur-muck subject to verification of grinding and mixing facilities by CPCB/SPCB officials.
4.	M/s Bijaya Aluminiums, S-3/34, Macheshwar Industrial Estate, Bhubaneswar - 10	Aluminium dross utilised for manufacturing of Aluminium Utensil	The aluminium dross is Pulverized, screened and melted in coke fired small oven to produce Aluminium utensil	The proponent did not attend the meeting. The committee therefore decided to invite proponent in next meeting to explain process details alongwith information as sought by CPCB to enable the committee to evaluate the same.
5.	M/s. A.K Enterprises 105, Sector-A, Zone-B, Macheshwar Industrial Estate, Bhubaneswar	Aluminium dross utilised for manufacturing of Aluminium Utensil		During presentation it was stated that the process involved is pulverising and screening to remove metal and the gangue material. The metal part is then melted to recover about 80-85 % as Aluminium metal. Overall recovery from the dross is reported between 15-25 %. The residual material 75-85 % will be sent to TSDF. The committee therefore recommend for conducting trial run for a period of 10 days during which CPCB will conduct sampling and analysis.

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S. No	Name of the Industry	HW as Raw Material & Product	Process	Recommendations
6.	M/s. Sai Metallik At- Jamunalia, PO- Badaposhi, Distt- Keonjhar, Odisha – 758014	Aluminium dross utilised for manufacturing of Aluminium Ingots	The aluminium dross is Pulverized, screened and melted in coke fired small oven to produce Ingots	The unit vide email dated 25/08/2014 requested to consider their proposal in next meeting since the plant and machinery are yet to be installed. The committee recommended to give another opportunity to appear in the next meeting of this committee along with details on the plant & machinery installed.
7.	M/s. Spiro Intermediates Pvt. Ltd., C-6, PIPDIC Industrial Estate, Kirumampakkam, Puducherry - 607402	Waste Dichromate solution to be utilized for manufacturing Basic Chromium Sulphate	Waste Dichromate solution is mixed with sodium dichromate/calcite and reducing agent sodium sulphate and caustic soda/soda ash to produce Basic Chromium Sulphate solution which is further dried	After the presentation, committee asked for the following additional information: 1. Complete analysis of the waste sodium dichromate solution w.r.t Cr ⁺³ , Cr ⁺⁶ , TOC and any other inorganic salts. 2. Analysis of gypsum in respect of chromium content (Cr ⁺³ , Cr ⁺⁶) 3. Chromium balance in the process.
8.	M/s. Rishab Intermediates Pvt. Ltd., A-70, PIPDIC Industrial Estate, Sedaraper, Pondicherry – 605111	Chromium Sulphate	soda/soda ash to produce Basic Chromium Sulphate solution which is further dried	The committee also suggested for conducting trial run in presence of CPCB and PPCC in order to assess the environmental issues, if any.
9.	M/s. Premier Chemical Industries , S.F. No. 123/8B, 9A, Thuthipet Village & Post, Villianur Commune, Puducherry – 605502			
10.	M/s. Swastik Tungsten Pvt. Ltd., Plot No. C-4/15, MIDC, Shrirampur, Distt- Ahmednagar- 413709	Cobalt sludge to be utilized for manufacturing cobalt	The wet cobalt sludge generated from its own plant will be dried in electric heated furnace to produce dry cobalt.	During presentation it was found that the unit is proposing to utilize tungsten carbide scrap obtained from various user industries. The committee observed that this item is not covered in Schedule 1 of HWM Rules, 2008. Since tungsten appears in category B of Schedule-II as tungsten compound, the committee recommended that TCLP test may be conducted as per the method prescribed under the said Rules. In case tungsten < 5000 mg/kg, the permission under Rule 11 will not be applicable and the unit may be informed accordingly.
11.	M/s. Shubham Sales Co., 5.3 Km Milestone, Rohtak Bhiwadi Road, Haryana	Used Oil and Carbon slurry to be utilized for manufacturing carbon pellets	Mixing of used oil and carbon slurry to produce carbon pallets.	During presentation the committee was informed that the unit is proposing to take carbon slurry from NFL, Panipat, to prepare carbon black granules for use in rubber industry. The committee had earlier recommended use of similar carbon slurry by carbon black manufacturer. The committee recommended the utilization of carbon slurry provided used oil is not used in the process and the unit inspected by CPCB and SPCB to look into any environmental issues.

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S. No	Name of the Industry	HW as Raw Material & Product	Process	Recommendations
12.	M/s Vandana Chemicals Plot No. 7409, GIDC, Ankleshwar, Gujarat - 393002	Spent bromide solution to be utilized for manufacturing Bromine	Reaction of Spent bromide solution, sulphuric acid and chlorine gas in a reaction vessel followed by condensation	The unit has not responded to CPCB's letters dated 16.07.2014 and 22.08.2014 for submission of the requisite information/ documents and making technical presentation before the Technical Expert Committee (TEC). It was recommended that the unit may be given a final opportunity to respond within 30 days failing which the proposal shall be deemed to be withdrawn by the applicant. Upon submission of the relevant information/document proponent may be invited for making technical presentation in the next meeting.
13.	M/s. Dhoriyani Glass & Ceramics, S. No. 767/2 & 3, Lakhdirpur Road, Taluka - Morbi, Dist-Rajkot, Gujarat-363642	Tarry Residue to be utilized as a supplementar y fuel in furnace to manufacture Calcium glaze frit	Tarry residue generated from coal gasifier units and steel and power plants is used directly as fuel alongwith quartz, feldspar, calcite, soda ash in furnace to produce Ceramic glaze frit.	The committee observed that trial run had already been carried out for utilization of similar hazardous waste in case of the Eight units located in Morbi area of Gujarat. However, scrubber was installed in all those units whereas no such APCDs have been installed in these 10 units. In view of above, the committee recommended to carry out trial run in presence of CPCB & GPCB officials in any two units, one out of which with scrubber and the other without scrubber for performance evaluation with and without scrubber. In case, the above trial run report demonstrate compliance with stipulated standards (other than NOx, if applicable) in unit without scrubber, installation of scrubber may not be required. However, if it complies only in unit having scrubber, all the other units shall be asked to install scrubber. Permission may accordingly be given for utilization of tarry residue in furnace for a period of one year with the following conditions;
14.	M/s. Swastik Industries, Plot No- 177/1, Dhuva, Tehsil - Wankaner, Distt Rajkot, Gujarat - 363642			
15.	M/s. Pearl Industries, Plot No Survey No. 123/1, Village- Rangapur, Nr Roland Ceramic, Jetpar Road, Rangpar, Tal, Morbi, Dist - Rajkot, Gujarat- 363642			
16.	M/s. Nobel Cesa Coat, Plot No - 8-A, National Highway, Juna Jambudiya, Tal - Morbi, Dist - Rajkot, Gujarat - 363641			
17.	M/s. Balaji Ceramics, Plot no 231, GIDC Rafleshwar Estate, Vill Morbi, Tehsil-Morbi, Distt-Rajkot, Gujarat - 363642			i. GPCB may review NOx standard for this kind of material. ii. Tarry residue to be injected into furnace only after the furnace achieves more than 1400°C by using conventional fuels (FO/ LDO/ PNG/ CNG etc.) iii. Only electrical heaters should be used for heating the tar for liquefaction. iv. Fumes if any released during heating should be channelized as combustion air to furnace.
18.	M/s. Unique Cera Coat Industries, Plot No. S.No 8, Lilapur Road, At Lilapur, Taluka - Morbi, Distt- Rajkot, Gujarat 363641			
19.	M/s. Galaxy Glass Industries, S. No. 153, 8A National Highway, At Lalpur, Taluka- Morbi, Distt-Rajkot Gujarat - 363641			In case, the trial run demonstrates non- compliance in both the units, the report shall be discussed in the next committee meeting.

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S. No	Name of the Industry	HW as Raw Material & Product	Process	Recommendations
20.	M/s. Matrix Cera Enamel Co., Plot No. 226, GIDC Rafleshwar, N. H. 8A, Rafleshwar Tal - Morbi, Distt- Rajkot, Gujarat - 363642			
21.	M/s. Pooja Ceramic Pvt. Ltd., Plot No. 6, 8-A, National Highway, At Trajpar, Taluka- Morbi, Distt- Rajkot, Gujarat- 363642			
22.	M/s. Glass Tech, 116/P-2, 8 A, National Highway, At Sartanpar, Tal. Wankaner, Dist-Rajkot, Gujarat-363622			
23.	M/s Arth Metallurgicals Pvt. Ltd., Plot No. 95/2 KH No. 226/1, Lalpur, Dharshiva, Raipur, Chhattisgarh	Vanadium sludge to be utilized for manufacturing Vanadium metal	Leaching of vanadium sludge with ammonium chloride followed by neutralization, filtration, centrifuging, drying to produce vanadium metal	The committee recommended for trial run for a period of 10 days during which inspection and monitoring will be carried by CPCB and SPCB officials. In particular emission of ammonia and disposal of wastewater containing sodium chloride, ammonium chloride, vanadium and other heavy metals have to be verified.
24.	M/s Shiv Shakti Enterprises, Mauja Chakjangi, Khasra No. 42, Village Chakjangi, Baddi, Tehsil Nalagarh, Distt-Solan (H.P)	Contaminated / Discarded containers /barrel / used drums for re- use	Cleaning of Contaminated drums with detergent/caustic solution and water for reuse	The unit has already been visited in line with the uniform protocol (recommended in the earlier TEC meeting) by the officials of RO HP SPCB. The report on the same as received from HP SPCB was discussed and it was recommended to grant approval for utilization of Contaminated/ Discarded containers /barrel / used drums for re-use for initial period of one year with the conditions based on the report submitted by HP SPCB.

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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 Triveni Enterprises E-27, Udyog Kunj Industrial Area, Distt- Ghaziabad (U.P)	Spent Solvent to be utilized for manufacturing Thinner	In compliance with the recommendation of the earlier meeting, the applicants are invited to explain process details alongwith information sought by CPCB to enable the committee to evaluate the proposals.	The committee observed that the applicant neither submitted the information as sought by CPCB nor attended the meeting despite of several reminders. In view of above, the committee recommended that the unit may be given a final opportunity to respond within 30 days failing which the proposal shall be deemed to be withdrawn by the applicant. Upon submission of the relevant information/document proponent may be invited for making technical presentation in the next meeting.
2.	M/s Jarad Chemicals, Plot No. C1B/416, GIDC, Ankleshwar - 393002Bharuch, Gujarat	Spent Solvents to be utilised for manufacturing Solvents		
3.	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		

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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 Philips Electronics India Ltd, 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 representative of the unit was invited seeking clarification on chemistry involved in crystallization of molybdenum trioxide, mode of disposal of residual sulphuric acid and effluent from the scrubber.	<p>Base on the presentation and discussion, it emerged that after recycling, the nitric acid and sulphuric acid going in the effluent stream would be about 8 kgs of nitric acid and 43 kgs of sulphuric acid in a batch of 12 kg Molybdenum.</p> <p>Therefore, the committee recommends that nitric acid to be scrubbed as ammonium nitrate which can be used as fertilizer. The spent sulphuric acid could be send to ETP for neutralization with lime, so that gypsum so generated can be dispose to TSDF or explore the option for utilizing the same in cement plant.</p> <p>Upon installation of aforesaid additional facilities and verification of same by CPCB, permission for utilization may be given for a period of one year.</p>
2.	M/s JSW Steel Limited, Salem Works, Pottaneri Kalipatti Village, Mecheri, Mettur taluk, Salem-636453 Tamil Naidu	Iron Oxide (Process waste) from Ilmenite chemical beneficiation plant	In compliance with earlier recommendations of the committee, the representative of the unit was invited for understanding the remedial step w.r.t exceedance of HCl, Acid mist and PM in the emissions.	<p>The applicant intimated their inability to attend the meeting and requested to consider their case in the next meeting.</p> <p>The committee therefore recommended that the unit may be given another opportunity to appear in the next meeting of this committee.</p>
3.	M/s Ambica Industries, C1/B 457, G.I.D.C. Estate, Sachin, Surat – 394230, Gujarat	Spent 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	Based on the report it is observed that there are number of deficiency in the existing system particularly in respect of emission of VOCs to environment. Adequate steps have to be taken like provision of secondary chilled water

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S. No	Name of the Industry	HW as Raw Material & Product	Background	Recommendations
				<p>cooled condenser both for the process vent as well as the storage tank.</p> <p>Upon receipt of confirmation of installation of the additional system as above and verification of the same, permission for utilization of Spent Solvent @ 210 MT/month for a period of one year may be given.</p>

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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 Dielectric Corporation, F/92, Industrial Area, Govindpura, Bhopal- 462 030	Resin waste to be utilized for manufacturing of HT/LT insulators	The unit was 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.	The committee recommended renewal of permission with validity period of 5 years for utilization of resin waste @ 2 MT/annum.
2.	M/s Sumak Pigments A-25 Manjusha Manohar garden, jai Bhavani Road, Nashik - 422102	Spent acid containing Molybdenum compound for manufacturing Ammonium and Sodium Molybdate	As per the earlier recommended that renewal permission for utilization of Spent Acid (containing Molybdenum compound) was initially granted for 6 months. Later the unit applied for renewal of permission informing about installation of ETP. Zonal Office, CPCB was requested to send report in this regard. Inspection report from Zonal Office, CPCB, has been received and placed before the committee for discussion.	Based on the inspection report the committee observed that ETP has been installed. The committee therefore recommends renewal of permission for a period of 5 year. The treated effluent shall be dispose as per the condition as may be stipulated by Maharashtra SPCB.

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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 unit shall provide details on type of industries from where contaminated drums/ container shall be procured alongwith the details on the content of the material stored.

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

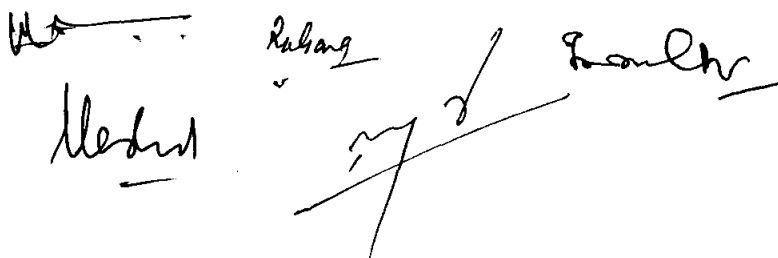
1. All the drums should be cleaned with hot caustic solution up to 2% concentration or detergent.
2. There should be two stage cleaning i.e. caustic /surfactants (detergent) cleaning followed by fresh water cleaning.
3. Provide parapet wall along the container storage and washing area.
4. The number 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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