

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

**Sub: Minutes of the Ninth 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 Ninth 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 05.12.2013. 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 19 applications (new cases) have been received for approval for utilization of HW under Rule 11 of the HWM Rules, 2008 and all the applicants as referred below have been asked to make technical presentation before this committee;

- (i) M/s Gajanan Ferro Pvt. Ltd, Jharkhand
- (ii) M/s Deepak Petrochem Ltd., Vadodara, Gujarat
- (iii) M/s Zalpa Enterprises, Surat, Gujarat
- (iv) M/s Neha Enterprises, Solan, Himachal Pradesh
- (v) M/s Balaji Trading Company, Solan, Himachal Pradesh
- (vi) M/s Shivalik Solid Waste Management Ltd., Solan, Himachal Pradesh
- (vii) M/s A.K. Enterprises, Solan, Himachal Pradesh
- (viii) M/s SAR Chanda Environ Solutions Pvt. Ltd., Kakinada
- (ix) M/s Dirba Paper Products P. Ltd., Punjab
- (x) M/s Menon Board Mill, Punjab
- (xi) M/s Sant Mix Boards, Punjab
- (xii) M/s Jeedimetla Effluent Treatment Ltd., Hyderabad
- (xiii) M/s Surya Roshni Ltd., Uttarakhand
- (xiv) M/s M. Rauf Enterprises, Himachal Pradesh
- (xv) M/s Kamal Enterprises, Village Kotla, Himachal Pradesh
- (xvi) M/s Kamal Enterprises, Village Malpur, Himachal Pradesh
- (xvii) M/s Alximix Waste Management Pvt. Ltd., Delhi
- (xviii) M/s Triupati Chemicals, Udaipur, Rajasthan
- (xix) M/s Vimal Chemicals, Udaipur, Rajasthan

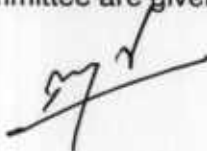
In addition to above units, as decided in earlier meeting the following 08 applicants (old cases) were also requested to make presentation:

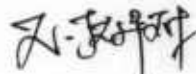
- (xx) M/s Pooja Environment, Gujarat
- (xxi) M/s Shanark Industries Pvt. Ltd, Nagpur
- (xxii) M/s Royal Black Powder, Gujarat
- (xxiii) M/s Wecycle Inc. Rajasthan
- (xxiv) M/s Easy Chemicals, Rajasthan
- (xxv) M/s Vinayak Chemicals, Gujarat
- (xxvi) M/s Unique Chemicals, Rajasthan
- (xxvii) M/s Shree Lakshmi Products, Rajasthan

3. The applicants listed at (i) to (xvii) and (xx) to (xxii) made technical presentations before the committee. The committee also reviewed some of the old cases along with the aforesaid new proposals. The details of the proposals considered along with the recommendations of the committee are given at **Annexure - II A & B** respectively.







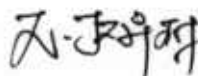


4. The recommendations of the committee regarding grant of approval for utilization of hazardous waste subsequent to the trial runs/ joint inspection by CPCB and SPCB are given at **Annexure - III.**
5. The recommendations of the committee regarding grant of renewal permission for utilization of hazardous waste subsequent to the inspection by CPCB are given at **Annexure - IV.**
6. It was recommended that while issuing approval under Rule 11 of the HWM Rules, 2008, CPCB may put a condition that transportation of hazardous waste, including inter-state, shall be carried out in compliance with the provisions stipulated under the said Rules.
7. The Meeting ended with vote of thanks to the Chair.









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

**Date:** December 05, 2013

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

**Ninth 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.	Shri R. K. Vashist	Sr. Advisor, PDIL, Noida	Representing Member of the committee on behalf of PDIL
4.	Sh. J. Varadarajan	Addl. Chief Engineer, 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.	Ms. Deepti Kapil	Assistant Environmental Engineer (HWMD), CPCB, Delhi	Invitee

*Handwritten signature*

*Handwritten signature*

*Handwritten signature*

**Annexure II-A**

**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	9 <sup>th</sup> TEC Recommendations
1.	M/s Gajanan Ferro Pvt. Ltd Office:- 17, Tulsi bhawana (Basement), Bistpur, Jamshedpur, Jharkhand-831001 Works: Village-Kadambeda. P.S-Dhalbhumgarh,	GCP Sludge (HW Category Sh.-I, 34.1) Generated from Ferro-manganese furnace, to be utilized for manufacturing Silico Manganese	The GCP sludge is mixed with bentonite clay and water to prepare briquettes which replaces consumption of manganese ore. Manganese ore, Quartz, Briquette, Dolomite etc in the required proportion is charged into the submerged arc furnace where MnO and SiO <sub>2</sub> react at a temperature of 1600°C with reducing agents to produce silico-manganese and iron metals.	It was recommended that the unit shall; (i) Cover the conveyer belt and transfer points. (ii) Make arrangement for mechanized handling of the material in loading and feeding so as to reduce fugitive emission; (iii) The residue generated during the utilization process shall be stored under covered shed and the same shall be re-used for making briquettes.  Upon completion of the above and submission of relevant supporting documents/photographs as a proof of the same, permission for conducting trial run for a period of one month may be permitted by procuring GCP sludge (in wet form only) from Ferro-manganese furnace in presence of CPCB and SPCB officials.
2.	M/s Deepak Petrochem Ltd. Plot/Survey no. 56/2, Rameshara Road, Near Baska, Village Vasenti, Ta: Halol, Distt Panchmahal Vadodara-390005 Gujarat	Coal Tar (Tarry Residue) to be utilized for manufacturing a) Coal Tar Pitch b) Creosote oil c) Crude Naphthalene d) Anthracene oil	The Coal Tar (Tarry Residue) from gasifier plant distillation to produce Creosote oil, Crude Naphthalene and Anthracene oil. The bottom residue forms coal tar pitch as product.	It was recommended that a trial run in presence of CPCB and SPCB officials may be permitted by procuring Tarry Residue of quantity equivalent to 15 days capacity subject to a condition that the unit shall submit the copy of the amended Consent to Establish/Operate (related to proposed Hazardous Waste utilization and products) as obtained from Gujarat SPCB. During the trial run VOC shall be monitored in the vent and COD in effluent.
3.	M/s Zaipa 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	Reaction of iron dust and spend sulphuric acid in a reaction vessel followed by filter pressing and crystallization.	It was recommended that the unit shall submit : (i) Sources of procurement of Iron and Spent Acid; (ii) Characteristics of Spent Acid from each of the above sources in terms of impurities present. (iii) Copy of the TSDF membership. (iv) Name of the industries to whom FeSO <sub>4</sub> will be sold.  Upon receipt of the above information, permission for conducting trial run for a period of 15 days may be given in presence of CPCB and SPCB officials by procuring Spent Acid.
4.	M/s Neha Enterprises Village Kaimbawala, P.O. Mandhala Tehsil Baddi, District Solan H.P.-173205.	Cleaning/ washing of discarded containers /barrel and used drums	The discarded/used drums & container are washed with chemical/ detergent/ water for further selling.	The committee recommended that the unit shall submit the details of process area (i.e. flooring and shed details).  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.
5.	M/s Balaji Trading Company Village Sarrajmajra Gujran Baddi, Tehsil Baddi, District Solan H.P.-173205	Cleaning/ washing of discarded containers /barrel and used drums	The discarded/used drums & container are washed with chemical/ detergent/ water for further selling.	
6.	M/s A.K. Enterprises Village Maiku Majra, P.O. Bhud, Tehsil Baddi, Distt Solan (H.P) 173205	Cleaning/ washing of discarded containers /barrel and used drums	The discarded/used drums & container are washed with chemical/ detergent/ water for further selling.	

*Handwritten signature*

*Handwritten signature*

*Handwritten signature with checkmark*

*Handwritten signature with number 4*

S. No	Name of the Industry	HW as Raw Material & Product	Process	9 <sup>th</sup> TEC Recommendations
7.	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	Cleaning/ washing of discarded containers /barrel and used drums	The discarded/used drums & container are washed with chemical/ detergent/ water for further selling.	
8.	M/s Kamal Enterprises Village Malpur, P.O. Baddi Tehsil Baddi, Distt- Solan (H.P)-173205	Cleaning/ washing of discarded containers /barrel and used drums	The discarded/used drums & container are washed with chemical/water for further selling.	
9.	M/s Shivalik Solid Waste Management Ltd. Vill. Majra, P.O. Dabhota, The. Nalagarh, Distt.Solan (H.P)	Cleaning/ washing of discarded containers /barrel and used drums	The discarded/used drums & container are washed with alkaline solution/water for further selling.	The committee recommended that the unit shall submit the copy of Consent to Establish/Operate as obtained from Himachal Pradesh PCB. Further, such Consent to Establish/Operate shall be related to Cleaning/ washing of discarded containers /barrel and used drums  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.
10.	M/s Kamal Enterprises Village Kotla, P.O. Barotiwala Tehsil Baddi, Distt- Solan (H.P)-173205	Cleaning/ washing of discarded containers /barrel and used drums	The discarded/used drums & container are washed with chemical/water for further selling.	The committee recommended that the unit shall submit the following information/documents:  (i) Process details for Cleaning/ washing of discarded containers/barrel and used drums. (ii) Details of storage and process area (i.e. flooring and shed details).  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.
11.	M/s SAR Chanda Environ Solutions Pvt. Ltd. Plo No. 4B/1, APIIC Industrial Park, Vakalapudi, Kakinada East Godavari-533005	Drill cutting/ Residual synthetic oil based mud/drilling waste disposed in landfill is intended for utilization in road making.	The treated Drill cutting/ Residual synthetic oil based mud/drilling waste already disposed in landfill is blended with additives for further use as sub base for road making.	The committee in principle did not agree with the proposal for utilizing the disposed Drill cutting/ Residual synthetic oil based mud/drilling waste in view of high soluble salts.  However, it was suggested that the proponent may use the treated mud being generated now and submit the proposal for same wherein TCLP test report of drilling cutting mud as per Schedule II of HWM Rules shall also be submitted to CPCB.
12.	M/s Dirba Paper Products Pvt. Ltd., Kadial Road, Dirba, Mandi, 148035, Sangrur	ETP Sludge to be utilized for manufacturing Mill Board	ETP Sludge from Paper Mill is mixed with jute scrap followed by beating and is put in pulper & mixed with water to form pulp. This pulp is further stored in chest under agitation and further fed into mould machine where wet board is moulded. The wet board is sun dried followed by pressing, cutting and packaging.	The committee observed that the information sought by CPCB from the applicant vide letter dated 28.11.2013 has not been received.  The committee, therefore, recommended that the unit shall submit the information as sought vide CPCB letter dated 28.11.2013.  Upon submission of the relevant documents/photographs, officials of CPCB and SPCB shall jointly visit the plant.
13.	M/s Menon Board Mill, Sangrur Road, Sunam, District Sangrur			Upon submission of the relevant documents/photographs, officials of CPCB and SPCB shall jointly visit the plant.
14.	M/s Sant Mix Boards, Pharwahi Road, Bhikhi, District Mansa			In case the installed facilities are found to be satisfactory, permission may be granted for utilization of ETP Sludge for a initial period of one year.



S. No	Name of the Industry	HW as Raw Material & Product	Process	9 <sup>th</sup> TEC Recommendations
15.	M/s Jeedimetla Effluent Treatment Ltd., Plot No. 267, Phase-I, IDA, Jeedimetla, Hyderabad - 500055	CETP Biological Secondary sludge for manufacturing briquettes for use as fuel in boiler	Secondary Biological sludge and saw dust are mixed in a mixer and further dried. This air dried material is briquette in briquetting machine.	<p>It was recommended that the unit shall submit :</p> <ul style="list-style-type: none"> <li>(i) Total and TCLP test results of both i.e. Secondary biological sludge (on dry basis) and ash.</li> <li>(ii) Details on disposal of residue generated during the utilization process</li> </ul> <p>Upon receipt of above, permission for trial utilization may be given during which emission monitoring shall be conducted jointly in presence of CPCB and SPCB officials with respect to Particulate Matter, HCl, and heavy metals..</p>
16.	M/s Surya Roshni Limited (Uttarakhand Plant), Padma Tower-1, Rajendra Place, New Delhi -110008	Non activated glass cullet (HW Category Sc-III, Part B: B2020) to be utilized for manufacturing Lead Glass Flairs and Exhaust tubing.	-----	<p>It was recommended that since non activated glass cullet waste is listed under Schedule III (Part B) which relates to Import/Export of such waste, the requirement of CPCB's approval under Rule 11 may not be applicable to the unit as the same is applicable for utilization of only hazardous wastes.</p> <p>Further, for import of non activated glass cullet, the unit shall obtain permission from the concerned SPCB and/or MoEF, as applicable under the HWM Rules.</p>
17.	M/s Alximix Waste Management Pvt. Ltd. Khasra No-93/2 & 83/22, Mundka Industrial Area, Delhi	CETP & ETP sludge to be stabilized for use in cement plants		<p>It was recommended that the unit shall submit the following information/documents:</p> <ul style="list-style-type: none"> <li>(i) Name of industries from where CETP &amp; ETP sludge will be procured and its quantity.</li> <li>(ii) Characteristics report of each of the hazardous waste proposed for utilization</li> <li>(iii) Name of the industries to whom the product is intended to be sold.</li> <li>(iv) Details of storage and process area (i.e. flooring &amp; shed details and their size) supported with photographs.</li> </ul> <p>Upon receipt of the above information, the matter shall be discussed in the next meeting of TEC.</p>
18.	M/s Tirupati Chemicals, Factory:-B-169b, Mewar Industrial Area, Road No-5 Madri, Udaipur 31001	Hydro Fluoro Silicic acid (HW Sch.-II, Class-E) to be utilized for manufacturing Sodium Silico Fluoride	Hydro fluo silicic acid and sodium chloride solution mixed in the reactor and passed through centrifuge unit followed by drying to produce the final product.	<p>The committee decided to invite proponent in next meeting to explain process details and associated infrastructures alongwith pollution control systems w.r.t air, water &amp; solid waste and safety system etc. to enable the committee to evaluate the same.</p> <p>Further, the applicant shall also provide the following information/documents:</p> <ul style="list-style-type: none"> <li>a) Name of the industries to whom the Sodium Silico Fluoride will be sold.</li> <li>b) Details of storage and process area (i.e. flooring &amp; shed details and their size) supported with photographs.</li> <li>c) Characteristics of Hydro fluoro silicic acid proposed for utilization.</li> <li>d) Concentration of TDS and Fluoride in wastewater including feasibility of zero discharge.</li> <li>e) Details of mode of disposal of the sludge generated.</li> <li>f) Material balance for utilization of Hydro fluoro silicic acid.</li> </ul>
19.	M/s Vimal Chemicals F-122, Mewar Industrial Area, Madri, UDAIPUR-313003	Hydro Fluoro Silicic acid (HW Sch.-II, Class-E)	Hydro fluo silicic acid and sodium chloride solution mixed in the reactor and	The applicant intimated their inability to attend the meeting and requested to consider their case in the next meeting.

*Handwritten signature*

*Handwritten signature*

*Handwritten signature*

*Handwritten signature*

S. No	Name of the Industry	HW as Raw Material & Product	Process	9 <sup>th</sup> TEC Recommendations
	(Rajasthan)	to be utilized for manufacturing Sodium Silico Fluoride	passed through centrifuge unit followed by drying to produce the final product.	<p>Accordingly, the committee decided to invite proponent in next meeting to explain process details and associated infrastructures alongwith pollution control systems w.r.t air, water &amp; solid waste and safety system etc. to enable the committee to evaluate the same.</p> <p>Further, the applicant shall also provide the following information/documents:</p> <ol style="list-style-type: none"> <li>Name of the industries to whom the Sodium Silico Fluoride will be sold.</li> <li>Details of storage and process area (i.e. flooring &amp; shed details and their size) supported with photographs.</li> <li>Characteristics of Hydro fluoro silicic acid proposed for utilization.</li> <li>Concentration of TDS and Fluoride in wastewater including feasibility of zero discharge.</li> <li>Details of mode of disposal of the sludge generated.</li> <li>Material balance for utilization of Hydro fluoro silicic acid.</li> </ol>

*Handwritten signature*

*Handwritten signature with arrow pointing right*

*Handwritten signature with a large checkmark*

*Handwritten signature*

**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 and Product	Background	9 <sup>th</sup> TEC Recommendations
1.	M/s Pooja Environment H- 50, India Textile Market, Ring road, Surat – 395 002	Spent acid to be utilized for manufacturing Ferrous Sulphate  <b>Process</b> Iron scrap and spent sulphuric acid are taken in the reaction vessel followed by filtration, crystallization and centrifuging.	The committee in its earlier meeting recommended to carry out characterization of the raw material, the expected process residues, no of cycles of recycling mother liquor, methods of disposal of various waste streams etc. and make technical presentation on the same in next meeting of the committee.	The committee observed that the unit has not submitted the information w.r.t characterization of the raw materials i.e. Spent Acid & Iron, process residues and the product. Accordingly, it was recommended that the unit shall provide following information: (i) Sources of procurement of iron and Spent Acid; (ii) Characteristics of Spent Acid and Iron from each of the above sources in terms of impurities present; (iii) Details of raw material storage and hazardous waste storage facilities alongwith their capacities; (iv) Details of air pollution control devices attached to reaction vessel and ETP; (v) Copy of the TSDF membership. (vi) Name of the industries to whom FeSO <sub>4</sub> will be sold. Upon receipt of the above information alongwith relevant photographs, permission for conducting trial run may be given.
2.	M/s Shanark Industries Pvt. Ltd. A-26/6, MIDC Butibore, Nagpur – 441122	Spent Alumina to be utilized for manufacturing High Alumina Refractory Cement  <b>Process</b> Spent Alumina is directly fed into the Rotary kiln for calcinations at 1300 <sup>o</sup> C. The calcinated material is grounded and mixed with hydrated lime in ball mills. This raw mix is again fed in Rotary kiln for further calcinations at 1550 <sup>o</sup> C to form cement clinker which is further grinded to desired mesh to form final product.	The committee in its earlier meeting recommended to submit proper application alongwith following information and also to make technical presentation before the committee: a. Name & process description of the industries from where Spent Alumina is collected for utilization b. Detailed characteristics of the Spent Alumina c. Details of provision made for storage of Spent Alumina, hazardous waste generated during utilization process, etc and their mode of disposal d. Material Balance for utilization of Spent Alumina e. Details of Pollution Control Devices installed; and f. Treatment/utilization/disposal details of waste water generated during the process  The unit submitted the requisite information/documents.	The committee recommended that trial utilization of Spent Alumina may be permitted for a period of 10 days during which monitoring shall be conducted jointly by CPCB and SPCB.



S. No	Name of the Industry	HW utilized & Product manufactured and Product	Background	9 <sup>th</sup> TEC Recommendations
3.	M/s Wecycle Inc E -72, Riico Growth Center, Dholpur, Rajasthan-	Spent Pot Line (SPL) to be utilized for manufacturing Carbon Additives Flux  <b>Process</b> Crushing & sizing of the Spent Pot Line by adding detoxifying compound followed by thermal treatment above 500 °C.	The committee in its earlier meeting suggested to bring representative of user industry (who is prospective utilizer of proposed product made from Spent Pot Line) for technical discussion in the next meeting.  The applicant intimated their inability to attend the meeting and requested to consider their case in the next meeting.	The committee recommended that the unit may be given 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).
4.	M/s Easy Chemicals E -71B, Mewar Industrial Area, Udaipur-313001, Rajasthan	Hydro Fluo Silicic acid (HW Sch.-II, Class-E) to be utilized for manufacturing Sodium Silico Fluoride  <b>Process</b> Hydro fluo silicic acid and sodium chloride solution mixed in the reactor and passed through centrifuge unit followed by drying to produce the final product.	The unit has not responded to CPCB's letters dated 11.06,2013 and 13.06.2013 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.
5.	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  <b>Process</b> Iron scrap and spent sulphuric acid is taken in the reaction vessel followed by filtration, crystallization and centrifuging.	The committee in its earlier meeting recommended to carry out characterization of the raw material, the expected process residues, no of cycles of recycling mother liquor, methods of disposal of various waste streams etc. and make technical presentation on the same in next meeting of the committee.  The applicant intimated their inability to attend the meeting and requested to consider their case in the next meeting.	The committee recommended that the unit may be given another opportunity to appear in the next meeting of this committee along with details sought vide CPCB letter dated 29.11.2013.
6.	M/s Unique Chemicals B-172-173, M.I.A, Road no. 3, Madri, Udaipur, Rajasthan-313003	Hydro Fluoro Silicic acid (HW Sch.-II, Class-E) to be utilized for manufacturing Sodium Silico Fluoride	The committee in its earlier meeting had decided to give final opportunity to appear in the next meeting of the committee along with details sought failing which the proposal shall be deemed to be withdrawn by the applicant.	The committee recommended that the matter may be closed and the unit be informed accordingly.

Mash

MA

ing

श. प्र. प्र.

S. No	Name of the Industry	HW utilized & Product manufactured and Product	Background	9 <sup>th</sup> TEC Recommendations
		<p><b>Process</b> Hydro fluo silicic acid and sodium chloride solution mixed in the reactor and passed through centrifuge unit followed by drying to produce the final product.</p>	However, no response has been received from the applicants despite of several reminders.	
7.	M/s Shree Lakshmi Products E-71, MIA, Madri, Udaipur, Rajasthan-313003	<p>Hydro Fluoro Silicic acid (HW Sch.-II, Class-E) to be utilized for manufacturing Sodium Silico Fluoride</p> <p><b>Process</b> Hydro fluo silicic acid and sodium chloride solution mixed in the reactor and passed through centrifuge unit followed by drying to produce the final product.</p>	<p>The committee in its earlier meeting had decided to give final opportunity to appear in the next meeting of the committee along with details sought failing which the proposal shall be deemed to be withdrawn by the applicant.</p> <p>However, no response has been received from the applicants despite of several reminders.</p>	The committee recommended that the matter may be closed and the unit be informed accordingly.
8.	M/s Royal black Powder Plot No. 7, GIDC Palej, Tal. & Distt. Bharuch, Gujarat	<p>Carbon Soot &amp; Spent Carbon from GNFC, Bharuch (Gujarat) to be utilized for manufacturing Black powder</p> <p><b>Process</b> Black powder is produced by mere separation of finer and coarser Carbon Soot &amp; Spent Carbon of Gujarat Narmada valley Fertilizers &amp; Chemicals Limited, Bharuch.</p>	The committee in its earlier meeting recommended that the unit may be called in next meeting of the committee to explain about utilization of black powder having high Chromium and nickel as observed in the analysis report.	<p>The applicant informed that the coarser black powder would be sold to fertilizer manufacturers to use as manure and finer black powder to the manufacturers of rubber products like floor mat, belts, chappals etc.</p> <p>The committee suggested that in case of use as rubber products the chances of leachability are negligible since the material is getting fixed in the product. Also, the concentration of chromium and nickel as observed high in the report is within the limits as prescribed under Schedule II of HWM Rules.</p> <p>Accordingly, the committee recommends grant of approval initially for one year for utilization of Carbon Soot &amp; Spent Carbon @ 240 MT/month for manufacturing Black powder with the following conditions:</p> <p>(i) The product (i.e. black powder) shall only be sold to rubber manufacturing units.</p> <p>(ii) The unit shall maintain the records w.r.t name of units utilizing such black powder and its intended use.</p>

*Handwritten signature*

*Handwritten signature*

*Handwritten signature*

**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	9 <sup>th</sup> TEC meeting recommendations
1.	M/s Indian Metals & Ferro Alloys Ltd., IMFA Building, Bhubneshwar, Orissa-754071	Spent resin generated from DM plant to be utilized as a supplementary resource in boiler	The inspection report received from Zonal Office Vadodara was discussed by the committee.	The committee recommended grant of approval under Rule 11 of the HWM Rules, 2008, initially for a period of one year by mixing Spent resin with coal in steam generating boiler in quantity not more than 0.05% of the coal.
2.	M/s Omm Cee Business Power House Road, Rourkela-769001	Used anode butt to be utilized for manufacturing Carbon Pellet and High Energy (HE) Coke for usage in Steel plants/Steel Foundries.	The inspection report on trial run received from CPCB Zonal Office, Kolkata, was discussed by the committee.	It was recommended to grant approval under Rule 11 of the HWM Rules, 2008 for utilization of Used anode butt @ 275 tons/month to manufacture Carbon Pellet and High Energy (HE) Coke for usage in Steel plants/Steel Foundries for a period of one year with the following conditions:  (i) Minimum 25 mm of outer layer of waste anode butt shall be removed during shot blasting. (ii) The percentage mix of cleaned Waste anode butt in the product shall not exceed 50%. (iii) The unit shall monitor fluoride in the exhaust gases and work zone of furnace of Steel plants/Steel Foundries in presence of CPCB and SPCB officials with and without utilization of the product manufactured from cleaned anode butt i.e. Carbon Pellet and High Energy (HE) Coke. The report of the same shall be submitted to CPCB within three months of the date of start of production. (iv) Only Carbon Pellet and High Energy (HE) Coke shall be produced from the cleaned waste anode butts for utilization in Steel plants/Steel Foundries and the records of the same shall be maintained by the unit w.r.t name of Carbon Pellet and High Energy (HE) Coke utilizing such products and respective quantity. (v) Proper ventilation shall be maintained in the work zone of loading/unloading of Used Anode Butt and shot blasting machine. Further, all personnel in such work zone shall wear proper personal protective equipments such as masks, safety gloves, goggles, safety shoes etc.
3.	M/s Green Living 103, S.L. Towers, Nowroji Road, Maharanipeta, Visakhapatnam	Used anode butt to be utilized for manufacturing Carbon blended coke for usage in Steel plants and Copper smelting plants.	The inspection report on trial run received from CPCB Zonal Office, Bengaluru, was discussed by the committee.	It was recommended to grant approval under Rule 11 of the HWM Rules, 2008 for utilization of Used anode butt @ 15 tons/day to manufacture Carbon blended coke for usage in Steel plants and Copper smelting plants for a period of three months with the following conditions:  (i) Only broken Used Anode Butt (size not more than 400mm x 400mm x 400 mm) shall be procured from Aluminium Smelters. No cutting/breaking of Used anode butt shall be carried out by the unit prior to shot blasting. (ii) Minimum 25 mm of outer layer of waste anode butt shall be removed during shot blasting.

*Handwritten signature*

*Handwritten signature*

*Handwritten signature*

*Handwritten signature*

S. No	Name of the Industry	HW as Raw Material & Product	Background	9 <sup>th</sup> TEC meeting recommendations
				<p>(iii) The percentage mix of cleaned Waste anode butt in the product shall not exceed 50%.</p> <p>(iv) The unit shall monitor fluoride in the exhaust gases and work zone in a Steel Plant and a Copper Smelting plant in presence of CPCB and SPCB officials with and without utilization of the product manufactured from cleaned anode butt i.e. Carbon blended Coke. The report of the same shall be submitted to CPCB within three months of the date of start of production.</p> <p>(v) Only Carbon blended Coke shall be produced from the cleaned waste anode butts for utilization in Steel Plant and Copper Smelting plant and the records of the same shall be maintained by the unit w.r.t name of Steel Plant and Copper Smelting plant utilizing such products and respective quantity.</p> <p>(vi) Proper ventilation shall be maintained in the work zone of loading/unloading of Used Anode Butt and shot blasting machine. Further, all personnel in such work zone shall wear proper personal protective equipments such as masks, safety gloves, goggles, safety shoes etc.</p> <p>The aforesaid permission of utilization of Used anode butt may further be extended for one year upon installation of shot blasting machine having chamber of adequate size and verification of the same by CPCB AND SPCB.</p>
4.	M/s Jay Minerals , P.No 1, S.No 5, Dhichada, bedi Port Road, City Dhichada, Distt Jamnager (Gujarat)	Used anode butt to be utilized for manufacturing Electrode Carbon Paste/Carbon coke for usage in Ferro alloy/Steel plants.	The inspection report on trial run received from CPCB Zonal Office, Vadodara, was discussed by the committee.	<p>It was recommended to grant approval under Rule 11 of the HWM Rules, 2008 for utilization of Used anode butt @ 1500 tons/month to manufacture Electrode Carbon Paste/Carbon coke for usage in Ferro alloy/Steel plants for a period of one year with the following conditions:</p> <p>(i) Minimum 25 mm of outer layer of waste anode butt shall be removed during shot blasting.</p> <p>(ii) The percentage mix of cleaned Waste anode butt in the product shall not exceed 50%.</p> <p>(iii) The unit shall monitor fluoride in the exhaust gases and work zone of furnace of Ferro alloy/Steel plants in presence of CPCB and SPCB officials with and without utilization of the product manufactured from cleaned anode butt i.e. Electrode Carbon Paste/Carbon coke. The report of the same shall be submitted to CPCB within three months of the date of start of production.</p> <p>(iv) Only Electrode Carbon Paste/Carbon coke shall be produced from the cleaned waste anode butts for utilization in Ferro alloy/Steel Plants and the records of the same shall be maintained by the unit w.r.t name of Electrode Carbon Paste/Carbon coke utilizing such products and respective quantity.</p> <p>(v) Proper ventilation shall be maintained in the work zone of loading/unloading of Used</p>

*Handwritten signature*

*Handwritten signature*

*Handwritten signature*

*Handwritten signature*

S. No	Name of the Industry	HW as Raw Material & Product	Background	9 <sup>th</sup> TEC meeting recommendations
				Anode Butt and shot blasting machine. Further, all personnel in such work zone shall wear proper personal protective equipments such as masks, safety gloves, goggles, safety shoes etc.

*Handwritten signature*

*Handwritten signature*

*Handwritten signature*

*Handwritten signature*

**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	9 <sup>th</sup> TEC meeting recommendations
1.	M/s Uflex Ltd., Polyester Chips Plant L-1, Ghirongi, Malanpur Ind. Area, Bhind -477 117 (M.P)	Ethylene Glycol Residue as a supplementary resource in captive industrial boiler	<p>The unit was earlier granted permission for co-processing of Ethylene Glycol Residue (generated in their own industrial process) in captive industrial boiler for one year. Later the unit applied for renewal of permission and requested to waive off the condition of submission of quarterly stack emission monitoring report. CPCB, ZO, Bhopal was requested to send report in this regard.</p> <p>The inspection report from CPCB Zonal Office has been received and the same may be discussed for grant of renewal permission.</p>	<p>The committee reviewed the inspection report of Zonal Office, CPCB.</p> <p>Considering the fact that the trial run and subsequent monitoring results have demonstrated compliance, the committee recommended to waive off the condition of conducting quarterly stack emission monitoring.</p> <p>Accordingly, renewal permission of 5 years validity may be granted for utilization of Ethylene Glycol residue @ not exceeding 15 % of the heat value of the fuel being used.</p>

*Handwritten signature*

*Handwritten signature*

*Handwritten signature*

*Handwritten signature*