

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

**Sub: Minutes of the Second 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. Second Meeting of the Technical Expert Committee on "Evaluation of proposal for utilization of the hazardous wastes as a supplementary resource or for energy recovery, or after processing" was held at CPCB, Delhi on 03.11.2011. List of the participants is enclosed at **Annexure I**.
2. Shri B. Vinod Babu, Senior Environmental Engineer & I/c HWMD, welcomed the members and invitees of the Committee and informed that the following five applications (new cases) have been received for approval for utilization of HW under Rule 11 of the HWM Rules 2008:
  - (i) M/s MVR Chemicals & Oils, Bangalore;
  - (ii) M/s Indian metals & Ferro Alloys Ltd., Bhubneshwar, Orissa;
  - (iii) M/s Sterlite Industries (I) Ltd, Tamil Naidu;
  - (iv) M/s Indian Steel Corporation Ltd, Gujarat; and
  - (v) M/s Simba Alloys Private Limited, Ahmedabad

M/s Indian Steel Corporation Ltd, Gujarat, made technical presentation before the committee. The committee reviewed some of the old cases alongwith the aforesaid new proposals. The details of the proposals alongwith the recommendations of the committee are given at **Annexure – II- A & B** respectively.

3. It was observed that concurrent permission from SPCBs for conducting trial runs takes considerable time and therefore delays the process of conducting trial run. The committee, therefore, recommended that henceforth concurrent permission of the SPCB/PCC may not be insisted being just a trial run. However, procurement/transportation of hazardous wastes intended for trial utilization be carried out after obtaining necessary authorization/permission from concerned SPCB/PCC.
4. The matter related to grant of fresh permission for utilization of hazardous waste subsequent to the trial runs/ inspections by CPCB/SPCB to the following units was also discussed :
  - i. **M/s Chemsale Organisation, Hapur, U.P** – As per the recommendation of the First Meeting of the Technical Expert Committee held on 23.09.2011, the unit was asked to provide following information/confirmation vide CPCB letter dated 25.10.2011:
    - (i) Analysis report indicating Chromate & Dichromate of potassium/ammonium and degree of impurities in the product and where the same is used.
    - (ii) The spent mother liquor shall be separately force evaporated or precipitated. The residue shall be disposed in TSDF.

Accordingly, the unit vide its letter dated 02.11.2011 replied that separate forced evaporation facility with hood, scrubber & blower for concentrating the liquor has been provided which will be utilized intermittently, the process being a batch

operation and the residue so obtained shall be disposed off to TSDF, for which the unit already has taken membership.

Accordingly, it was recommended to grant approval under Rule 11 of the HWM Rules, 2008 for utilization of spent chromic acid (schedule-1, SI. No12.1) @ 10KL/month initially for one year with the following conditions:

- (i) The process sludge/residue shall not be sold/handed over to any user unless the user possesses approval from CPCB for utilizing the same under Rule 11 of the HWM Rules 2008.
  - (ii) The unit shall explore the possibility of recovery of chromium & iron from the process sludge/residue which are destined for disposal in TSDF.
  - (iii) To ensure zero discharge of process effluent by adopting forced evaporation within the existing facility.
- ii. **M/s Fertichem Industrial Corporation, Punjab** - The inspection report received from Zonal Office Lucknow was discussed. It was recommended that the unit may be asked to take following actions :
- (a) Obtain TSDF membership.
  - (b) Provide acid proof lining in the storage area to avoid any possibility of soil and ground water contamination during loading and unloading of waste pickling acid from the containers
  - (c) Spillage collection pit shall be provided for the storage area and the same shall be reused in process.

Upon compliance of above and submission of relevant documents & photographs, approval under Rule 11 of the HWM Rules, 2008 for utilization of waste pickling liquid (schedule-1, SI No12.1)@ 6.5 KLD for manufacturing of Ferrous Sulphate for a period of one year may be granted initially.

- iii. **M/s Continental Carbon, U.P** – The trial run report submitted was discussed by the committee and it was observed that PCDD/PCDF values (corrected at 11% O<sub>2</sub>) in the stack emission of off-gas boiler was reported as 0.012 ng TEQ/ Nm<sup>3</sup> (prior to co-processing) and the same increased to 0.102 ng TEQ/Nm<sup>3</sup> during co-processing, this value is nearly at permissible level. Accordingly, it was recommended that a temporary permission for utilization of carbon slurry (Schedule-I, SI No. 18.2) generated from NFL, Panipat may be given for a period of 3 months, during which all the emission parameters (which were monitored during the trial run) shall be monitored by the unit at varying percentage of utilization below 5 % of carbon slurry to product. The results of the same shall be submitted to CPCB at the earliest for further consideration for grant of approval under Rule-11.

5. The committee observed that as there are number of cases involving hydrocarbon based processes for utilization of spent solvents/organic residues. Accordingly, it would be helpful if Dr. G. S. Dang, Former Sc. F, Indian Institute of Petroleum, Dehradun, be invited to the meeting as and when necessary.
6. The Meeting ended with vote of thanks to the chair.

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

Date: November 03, 2011

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

**Second 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	CEO, SMI, Federation of Indian Mineral Industries	Member
3.	Shri. A.K Gupta	Group General Manager (Noida), PDIL	Representing Member of the committee on behalf of PDIL
4.	Shri. R.K Vashist	Additional. GM (Process Engg), PDIL	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

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

S. No	Name of the Industry	HW as Raw Material	Product	Process	Status of Consent	Committee Recommendation
1	M/s MVR Chemicals & Oils No. 801, 9 <sup>th</sup> Main, 3 <sup>rd</sup> Block, Koramangala, Bangalore -560034	Spent Solvent	Solvent	Spent solvent from the storage tank is transferred to re-boiler tank fitted with heating coils in which thermic fluid is circulated to heat the raw material upto the boiling points, the vapors of solvents generated are passed through columns. The condensed vapors are collected as liquid which is passed through another condenser called product cooler and collected into receivers to transfer the same to finished good storage tank.	Consent to operate under Air/Water Act valid upto 30.06.2013	<p>It was recommended that the proponent shall submit the following information/ documents :</p> <ol style="list-style-type: none"> <li>1. Details of the industries from where spent solvent is collected for recovery.</li> <li>2. Details of the industries to whom the recovered solvent will be sold.</li> </ol> <p>Upon receipt of information listed above, ZO Bangalore may inspect the unit to assess the existing infrastructure and capability of the unit for handling, storage and utilization of hazardous waste w.r.t to the details of medium of cooling, temperature, absorption column or any other system for control of VOC emissions, management of residue generated, facility for analyses of VOC, etc.</p> <p>The unit may also be informed that, they should approach Ministry of Environment &amp; Forest (MoEF) for import of Spent Solvent.</p>
2	M/s Indian Metals & Ferro Alloys Ltd.. IMFA Building, Bhubneshwar, Orissa-754071	Spent resin generated from DM plant	As a supplementary resource in boiler			<p>The committee recommended that to evaluate the utilization process, the information as per the format shall be submitted by the unit alongwith the concentration of Sulphur, Nitrogen and Chloride in its spent resin.</p> <p>Upon receipt of above and if found satisfactory, permission for conducting trial run in presence of CPCB/SPCB officials can be given.</p>

3.	M/s Sterlite Industries (I) Ltd SPICOT Industrial Complex, Madurai Bypass Road, T.V Puram, P.O Thoothukudi- Tamil Naidu- 628002	The Tail Gas Scrubber cake of Sulphuric acid plant	As a Saleable product	The tail gas scrubber cake is oxidized to more stable form of calcium sulphate and mixed with phosphogypsum as a saleable product		<p>The proponent requested to accord approval for TGS cake as "non- hazardous" and further intends to oxidize this waste into more stable form of calcium sulphate and mixed with phosphogypsum as a saleable product.</p> <p>The committee recommended that the proponent should approach the Technical Review Committee of MoEF in case he desires to identify the waste as non-hazardous.</p> <p>However, in case the proponent desires to utilize the Tail Gas Scrubber cake (hazardous waste as per Schedule-I Sl.34.1), he shall submit the information as per format prescribed by CPCB seeking approval for utilization of the same.</p>
4.	M/s Indian Steel Corporation Ltd., Survey No.370, Village Bhimasar, Tal. Anjar, Dist. Kachchh-370240(Gujarat)	Spent HCL Acid from pickling	1. Hydrochloric Acid (HCL) 2. Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> Powder)	The waste acid liquor is collected in a storage tank and pumped into pre-concentrator assembly after passing through filtration unit. The pre- concentrated acid is pumped in a controlled flow through the spray nozzles in the reactor which is directly heated by means of a burner. The solid ferrioxide particles produced in the roaster is discharged from the bottom of the roaster via a lump breaker & a rotary valve and transported by a pneumatic conveying system & bag filter unit to the Oxide bin. For absorption of the hydrogen chloride gas, water is fed to the column through nozzle In counter flow and the hydrogen chloride content of the gases is absorbed thus forming <b>"REGENERATED ACID"</b> and further collected to storage tank	Consent to operate under Air/Water Act valid upto 08.06.2015.	<p>It was informed that this plant is operating and it is based on their own spent liquor so it becomes part of their own process &amp; it is a good way of recycling HCl which they use in their own process &amp; also iron oxide as a by-product.</p> <p>Therefore, the committee recommends to allow continuous operation of plant. However, a visit by ZO, CPCB may be made to ensure environmentally sound operation of the plant, house-keeping &amp; compliance to stack emission so that any additional measures if required may be stipulated accordingly.</p>

5.	M/s Simba Alloys Private Ltd 208, Aditya Building, Nr. Khadayata Colony, Mithakhali Six Roads, Ellisbridge, Ahmedabad- 380006	Spent catalyst ( containing Molybdenum)	<ol style="list-style-type: none"> <li>1. Molybdenum Oxide</li> <li>2. Ferro Molybdenum</li> </ol>	<p>Spent catalyst alongwith sodium carbonate, fuel-coke is roasted in furnace. This roasted material is mixed in equal proportion with water and filtered, the filter cake is disposed to TSDF and the filtrate is mixed with kerosene in equal proportion. pH is reduced to 4 by adding H<sub>2</sub>SO<sub>4</sub> and again increased to 7 by adding ammonia liquor. The two layers is separated i.e. mother liquor containing molybdenum is collected in drums and evaporated to get crystals of molybdenum oxide whereas kerosene is reused for next batch.</p> <p>Some proportion of molybdenum oxide is mixed with reducing agent Ferro Silicon and Aluminum and poured in pit lined with quartz sand and fired externally. After cooling Ferro molybdenum is separated out with solid slag, for disposal to TSDF.</p>	Consolidated Consent and Authorization is valid upto 11.06.2010	The committee recommends inviting proponent to explain the details of the process alongwith the details of the protection system, management of waste w.r.t air, water & solid waste and safety system etc. to take further decision for conducting trial run.
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Recommendation of the Technical Expert Committee on the decisions taken by in-house committee in the meetings prior to the constitution of Technical Expert Committee

S. No	Name of the Industry	HW as Raw Material	Product	Brief Process	Status of Consents / Authorizations from SPCB if any	Committee Recommendation
1.	M/s Multi Chem 227, Shastri Nagar, Chittorgarh (Raj.) 312 001	Anode mud	Manganese Dioxide	Anode mud is mixed with natural MnO <sub>2</sub> in equal proportion in Pulverizer grinding chamber and grinded as required size. Further for the production of final product, the same will be mix with other composite material like composite material, Kaolin, Lime, dolomite and low grade MnO <sub>2</sub>	The unit possess consent to establish	The committee rejected the proposal since no process is involved to remove the hazardous constituents mainly lead which is present in anode as it is proposed to mix the anode mud & natural MnO <sub>2</sub> whose end use may not be safe for environment & heath.
2.	M/s Jay Agro Industries Plot No 5805, GIDC, Ankeshwar , Distt -Bharuch, Gujarat-393002	Anode mud	Manganese Sulphate.	MnO <sub>2</sub> is heated in MS vessel for conversion of MnO <sub>2</sub> to MnO. later this content is transferred to reaction vessel where H <sub>2</sub> SO <sub>4</sub> and water is added to form MnSO <sub>4</sub> solution. This content is then passed through the filter press and the filtrate is sent to vacuum evaporator. The concentrate liquid is crystallized to MnSO <sub>4</sub> and separated in centrifuge  The filter mud is washed with water and again passed through second stage filter press. The filtrate carrying recoverable.	Consent to operate under Air Act and Water Act valid up to 31.01.2012.  The authorization under HWM Rules is valid for 5.07.2012.	Trail run permission was granted to the unit vide letter dated 03.06.2011 whereby the unit was asked to obtain concurrent permission from Gujarat Pollution Control Board and to carry out the said trial run only after obtaining such permission.  It was recommended that the concerned ZO of CPCB be present during the trial run waiving off the earlier requirement of concurrent permission from the SPCB.  However, procurement/transportation of hazardous wastes intended for trial run shall be carried out after obtaining necessary authorization/ permission from concerned SPCB/PCC.

3.	M/s Aparant Iron & Steel Pvt. Ltd. Dempo House. Campal Panaji, Goa-403001	Used oil and oil soaked cotton waste	Mudgun lubrication and furnace top firing process.	The oil & cotton waste used during the manufacturing process of pig iron generates used oil & oil soaked cotton process. The applicant proposes to utilize the said waste for mudgun lubrication and supplementary resource in furnace	Consent to operate under Air/Water Act not submitted by the unit  Authorization under HWM Rules (Valid till 14.4.2015)	The committee observed that the unit has not responded to CPCB's letter dated 29.06.2011 asking unit to respond in 30 days. Further, the unit shall provide characteristics of used oil as per Schedule V (Part A) and halogens.  The proponent may also be called for making presentation before the Technical Expert Committee.
4.	M.P Power generating Company Ltd. Block No. 6, 1 st Floor, Shakti Bhawan, Rampur, Jabalpur (M.P)					The following three thermal power plant viz. 4i. Satpura Thermal Power Station, 4ii) Sanjay Gandhi Thermal Power Station and 4iii) Amarkantak Thermal Power Station are belonging to M.P Power generating Company Ltd
i)	Satpura Thermal Power Station M.P Power Generating Co.Ltd, Sarni, Jabalpur, Distt- Betul (M.P)	Exhausted Waste Resin	As a supplementary fuel in furnace	Exhausted ion exchange resin is mixed with the coal and further used for heat recovery in the furnace to produce electricity	Consent to Operate under Air and Water Act is valid up to 31.5.2009  Authorization for collection, reception, transportation, treatment, storage of hazardous waste valid up to 30.04.2014	
ii)	Sanjay Gandhi Thermal Power Station M.P Power Generating Co.Ltd, Birsinghpur Distt- Umaria (M.P)	Resin Sludge	Electricity	Resin Sludge is mixed with the coal and incinerated in the furnace to produce electricity	Consent to Operate under Air Act is valid up to 31.1.2011  Consent to Operate under Water Act is valid up to 31.1.2011  Authorization for collection, reception, transportation, treatment, storage of hazardous waste valid up to 11.11.2009	The committee recommended that these units may be permitted to mix waste DM Plant resin with a quantity not more than 0.5% of the conventional fuel.
iii)	Amarkantak Thermal Power Station.Chachai Distt Anuppur (M P)	Used resin	Electricity	Resin Sludge is mixed with the coal and incinerated in the furnace to produce electricity	Consent to Operate under Air and Water Act is valid up to 31.6.2010  Authorization under HWM Rules is valid up to 31 5.2010	



5.	M/s Auro Dyeing Ltd Sai Road, Baddi Tehsil- Nalagarh, Distt- Solan (H.P) -173205	Spent/ pickling acid	As a coagulant aid in Effluent Treatment Plant	To be used as coagulant aid in ETP	Consent to Operate under Air and Water Act is valid up to 31.03.2012  Authorization under HWM Rules (Valid for five years from 31.3.2013)	The committee agreed to the earlier trial run permission granted to the unit vide letter dated 23.08.2011 and recommended that ZO shall expedite submission of trial run report as per the time target stipulated in the procedure for grant of approval.
6.	M/s Century Pulp & Paper Ltd., Ghanshyamdham, P.P. Lalkua, Distt- Nainital (Uttarakhand) -262402	ETP Sludge	Grey black packaging board	ETP Sludge conveyed from storage area to waste paper feed conveyor. This mixture of ETP Sludge and waste paper further put up in hydra pulper and centri cleaning system. Cleaned pulp will be stored in dump tower. From dump tower it will be pass to wire part, press part, dryers and finally on winder to make board reels.	Consent to Operate under Air and Water Act is valid up to 31.03.2012  Authorization for collection, storage and disposal of hazardous waste valid up to 31.03.2012	It was recommended that the proponent shall submit TCLP test result w.r.t organic halides of the ETP Sludge and product i.e grey black packaging board manufactured from ETP Sludge.
7.	The Rajasthan Rajya Vidyut Utpadan Nigam Ltd. Office of the Chief Engineer (STPS), Suratgarh Super Thermal Power Station Suratgarh	Spent Oil	Co-processing in furnace			A reminder letter was issued vide dated 14.07.11 to the proponent to submit the information as per the format to CPCB within 30 days. No response has been received from the proponent so far.  Accordingly, it was recommended that this application may be withdrawn and the unit may be informed accordingly.
8.	M/s Winsome Textile Industries. SCO# 191-192, Sector 34-A Chandigarh	Spent/ pickling acid	As a coagulant aid in Effluent Treatment Plant	To be used as coagulant aid in ETP	Consent to Operate under Air and Water Act is valid up to 31.03.2012  Authorization under HWM Rules (Valid for five years from 31.3.2013)	Trail run permission was granted to the unit vide letter dated 03.06.2011 whereby the unit was asked to obtain concurrent permission from Himachal Pradesh Pollution Control Board and to carry out the said trial run only after obtaining such permission.  It was recommended that the trial run will be conducted in presence of ZO of CPCB waiving off the earlier requirement of concurrent permission from the SPCB.  However, procurement/transportation of hazardous wastes intended for trial run shall be carried out after obtaining necessary authorization/ permission from concerned SPCB/PCC.

9.	M/s Goodwill Inorganics Ltd. E-159-A, Opp.Police Chowki, Mewar Industrial Area, Madri, Udaipur (Rajasthan) -313003	Hydro Fluoro Silicic acid	Sodium Silico Fluoride	Hydro fluo silicic acid and sodium chloride solution alongwith soda ash/ caustic soda is mixed into reactor for 4hrs. The material is taken manually and centrifuged from where the mother liquor is used for making sodium chloride solution. Upon stauration of recycling the waste water will be taken to ETP. The centrifuged material is further passed through spin flash drier to produce crystalline product.	Consent to operate Air/Water (valid upto 31.5.2012)  Authorization under HWM Rules (Valid till 31.05.2010)	The committee agreed to the earlier trial run permission granted to the unit vide letter dated 03.06.2011 and recommended that ZO shall expedite submission of trial run report as per the time target stipulated in the procedure for grant of approval
10.	M/s Reliance Barrel Supply Company Plot No. 200/34, B/H Kashiram Textile Mill, Narol, Ahmedabad Gujarat- 382405	-	Decontamination /Reconditioning of Empty Barrels	-	-	A reminder letter was issued vide dated 14.07.11 to the proponent to submit the information as per the format to CPCB within 30 days. No response has been received from the proponent so far.  Accordingly, it was recommended that this application may be withdrawn and the unit may be informed accordingly.
11.	M/s Super Industry Village Asmanpur , Nurpur Bedi, Distt- Ropar	ETP Sludge	Mix Straw 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.	1. The unit does not have Consent to Operate under Air Act.  2. Consent to Operate under Water Act valid upto 31.03.2016.  3. Authorization under HWM Rules is valid upto 06.09.2011.	Zonal Office Lucknow was requested vide letter dated 07.09.2011 to visit the facility and submit the report. The same is still awaited. Accordingly, it was recommended that ZO shall expedite submission of report as per the time target stipulated in the procedure for grant of approval. Meanwhile, the unit shall submit TCLP test result w.r.t organic halides of the ETP Sludge and product i.e board manufactured from ETP Sludge.
12.	M/s Shakti Paper & Borad Mills, Village Reehla Tehsil Farshankar, Distt- Hoshiarpur	ETP Sludge	Mill Board	ETP Sludge and jute is put in pulper & mixed with water to form pulp. This pulp is stored in chest under agitation and brought to mould machine where wet board is moulded. After drying in sunlight it is calendered in the machine and used for various purposes.	Consent to Operate under Water Act valid upto 31.12.2012	Zonal Office Lucknow was requested vide letter dated 07.09.2011 to visit the facility and submit the report. The same is still awaited. Accordingly, it was recommended that ZO shall expedite submission of report as per the time target stipulated in the procedure for grant of approval. Meanwhile, the unit shall submit TCLP test

13.	M/s Krasoma Biochem Pvt.Ltd Plot No-254 Sector-III, Pithampur, Distt: Dhar, M.P	Waste Pickling Liquid	Ferric Chloride	Spent acid contains hydrochloric acid to the tune of 4-6 % along with 15 % of iron is used. Spent acid is treated with excess iron turnings/fillings at a constant temperature. There is a rigorous reaction in which hydrochloric acid is completely reacted. The resultant solution is checked as Ferrous Chloride. This ferrous chloride is then chlorinated by sparging chlorine gas through it. This is filtered and stored in tank for final packing.	The unit does not have Valid copy of Consent to Operate under Air / Water Act	<p>result w.r.t organic halides of the ETP Sludge and product i.e Board manufactured from ETP Sludge</p> <p>The committee recommended that the unit shall submit copy of consent to establish from Madhya Pradesh Pollution Control Board.</p> <p>Upon receipt of the same, permission for conducting trial run in presence of CPCB/SPCB officials may be given.</p>
14.	M/s Jai Ambay Agro Industry, VPO Bhapoo, Tehsil Indora, Distt- Kangra	Waste Pickling Liquid	Ferrous Sulphate	Waste Pickling Liquid is neutralise using soda ash and passed to evaporation tank followed by crystallization and harvesting. This harvested ferrous sulphate is sun dried and dispatched.	The unit does not have valid copy of Consent to Operate under Air and Water Act.	<p>A letter was issued vide dated 30.6.11 to the proponent to submit the information as per the format to CPCB. No response has been received from the proponent so far.</p> <p>Accordingly, it was recommended that the unit may be given a final opportunity to submit the same within a month failing which the proposal shall be deemed to be withdrawn by the applicants</p>
15.	M/s Jagdambe paper & Board Mills, Village Gajjar, Tehsil Garhshankar Distt- Hoshiarpur	ETP Sludge	Mill Board	ETP Sludge and jute is put in pulper & mixed with water to form pulp. This pulp is further stored in chest under agitation and further brought in mould machine where wet board is moulded. After drying in sunlight it is calendered in the machine and further used for various purposes.	<p>1. Consent to Operate under Air Act valid upto 19.12.2017</p> <p>2. Consent to Operate under Water Act valid upto 31.03.2014</p>	<p>A letter was issued vide dated 30.06.11 to the proponent to submit the requisite information to CPCB. No response has been received from the proponent so far.</p> <p>Accordingly, it was recommended that the unit may be given a final opportunity to submit the same within a month failing which the proposal shall be deemed to be withdrawn by the applicants</p>
16.	M/s MM Minerals & Alloys Ichunda Rairangpur Mayurbhanj Orissa	Sludge from gas cleaning plant	Manganese Oxide	Sludge from the gas cleaning plant (ferro manganese producer industry) is mixed with the roasted manganese. This mixed material is grinded in a closed circuit unit and further packed and dispatched.	Consent to Operate under Water and Air Act valid upto 31.3.2014	<p>It was recommended that the proponent shall submit the following information/ documents :</p> <ol style="list-style-type: none"> <li>1 Details of the grade of the Manganese Oxide manufactured.</li> <li>2 Details of the buyer to whom the Manganese Oxide will be sold and its end use</li> <li>3 Concentration of Mn in Manganese ore.</li> </ol>

17.	M/s Hindalco, Renukoot	Used Oil (from rolling mills) generated in-house	Distilled oil for rolling mill & waste residual oil as fuel in Boiler	The used oil is passed through the Oil Rectification Unit. The hydraulic contaminants being heavier and having higher boiling point gets separated out in distillation column on heating. The Waste residual oil collected at the bottom of the column is used as fuel in Boiler. And the distilled oil will be further used in Cold Rolling Mill.	Consent to operate under Air and Water Act is valid upto 31.12.2011	<p>Upon receipt of the same, permission for conducting trial run in presence of CPCB/SPCB officials may be given.</p> <p>Trail run permission was granted to the unit vide letter dated 16.08.2011 whereby the unit was asked to obtain concurrent permission from Uttar Pradesh Pollution Control Board and to carry out the said trial run only after obtaining such permission.</p> <p>It was recommended that the trial run will be conducted in presence of ZO of CPCB waiving off the earlier requirement of concurrent permission from the SPCB.</p> <p>Further, the committee recommended to carry out the analysis of residual oil as per the Schedule V (Part B) of the HWM Rules, 2008.</p>
18.	M/s Naini Paper Limited, 7th K.M.Stone , Moradabad Road, Kashipur-244713 (Uttaranchal)	ETP Sludge	Egg trays/Board	ETP Sludge and white process sludge is put in pulper & mixed with water to form pulp. This pulp is further stored in chest under agitation and further brought in mould machine where wet board is moulded. After drying in sunlight it is calendered in the machine and further used for various purposes.	Consent to Operate under Air and Water Act is valid up to 31.03.2011	<p>It was recommended that the proponent shall submit TCLP test result w.r.t organic halides of the ETP Sludge and product i.e board manufactured from ETP Sludge alongwith the details of storage &amp; process area.</p>
19.	M/s Naini Tissue Limited, 7th K.M.Stone , Moradabad Road, Kashipur-244713 (Uttaranchal)					