Central Pollution Control Board
WM - II Division, Delhi

Sub: Minutes of the Eighth Meeting of the Technical Expert Committee for "Evaluation of proposal for utilization of the hazardous and other wastes under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016".

1. Eighth meeting of the Technical Expert Committee on "Evaluation of proposal for utilization of the hazardous and other wastes under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016" was held at CPCB, Delhi on 29.08.2017. List of the participants is enclosed at ***Annexure I***.

2. Shri Bharat K Sharma, Additional Director & Divisional Head, WM-II, welcomed the members and invitees of the Committee. The following 05 draft Standard Operating Procedures (SoPs) & Check list of Minimal Requisite facilities for utilization of hazardous waste, prepared by WM-II Div., CPCB, based on trial study conducted in accordance with the trial run monitoring protocol, were reviewed by TEC. Recommendations of the TEC are as below:

S.No	Agenda	TEC Recommendations
1.	Standard Operating Procedure (SoP) for utilization of Spent Phosphoric Acid (generated during manufacturing of Quinacridone Pigment) for production of Dibasic Calcium Phosphate.	SoP & Checklist of Minimal Requisite Facilities for the said utilization of Spent Phosphoric Acid, as recommended by TEC after incorporating suggestions, is given at ***Annexure – II.***
2.	Standard Operating Procedure (SoP) for utilization of Spent Sulphuric Acid (generated during manufacturing of Vinyl Sulphone) for production of H-acid.	SoP & Checklist of Minimal Requisite Facilities for the said utilization of Spent Sulphuric Acid, as recommended by TEC after incorporating suggestions, is given at ***Annexure – III.***
3.	Standard Operating Procedure (SoP) for utilization of silica sludge as a filler in production of complex fertilizer (Single Super Phosphate)	The committee observed that the applicant has submitted analysis results of treated silica sludge, after converting the fluoride into non-leachable form by treatment with lime. The said results reveal that leachable concentration of fluoride in treated silica sludge is 55mg/l. Since the treated silica sludge is proposed to be utilized in single super phosphate which will be used as fertilizer by applying directly to the soil, the said leachable fluoride may have impact on plant, soil and water bodies. Further, the standard for fluoride is not stipulated for Single Super Phosphate (SSP). The committee, therefore, recommended that utilization of silica sludge as filler in SSP can be permitted only if the standard for leachable fluoride is stipulated/ recommended by Department of Fertilizer, Ministry of Chemical & Fertilizer. Accordingly, applicant may approach the Department of Fertilizer, Ministry of Chemical & Fertilizer, for stipulating/recommending safe limit of leachable fluoride in SSP. The said proposed utilization and preparation of SoP thereof may be considered by CPCB upon receipt of the said standard. Till such time, the application may be treated as rejected.

R. K. Singh

4.	Standard Operating Procedure (SoP) for utilization of utilization of Spent Sodium Bromide generated during production of Lactum and Spent Potassium Bromide generated during manufacturing of 3 Ethoxy-4-n-Decyloxynitrobenzene for production of Bromine	The committee observed concentration of sodium bromide in Spent Sodium Bromide in the trial run report has been reported as 266mg/l which is even lesser than the concentration found in untreated effluent (generated during its utilization) i.e. 702 mg/l (as per the RD analysis report) and 8.26mg/l (as per the third party lab report). Further, the report reveals that analysis of un-treated effluent could not be carried out as the treated effluent was not generated during the trial batch. The un-treated effluent contains high COD which may require appropriate treatment so as to meet inlet limits to CETP. In view of above, the committee recommends additional monitoring and analysis, as below: i. Characteristics of spent sodium bromide and potassium bromide w.r.t. bromide, sodium/potassium bromide, water content, chloride, TOC and COD. ii. Analysis of treated waste water generated during the utilization process w.r.t. parameters specified for inlet to CETP. iii. Chloride interference in COD analysis shall be reported in the report. iv. Safety aspects for handling and packing of the liquid bromine. The above sampling/analysis may be carried out by Gujarat PCB. Gujarat PCB may engage third party NABL/EPA accredited laboratory (other than M/s Kadam Environmental Consultants) for parameters for which facility is not available with Gujarat PCB. Report in this regard shall be submitted to CPCB. The matter shall be discussed in the next TEC meeting upon receipt of the said report.
5.	Standard Operating Procedure (SoP) for utilization of Spent Sulphuric Acid and Spent Sodium Thiosulpahte (generated during manufacturing of 3, 5-Dichloro Aniline/m-Chloro Aniline) for the manufacturing of Nitrosyl Sulphuric Acid, Sulphur and Sodium Sulphate.	SoP & Checklist of Minimal Requisite Facilities for the said utilization of Spent Sulphuric Acid and Spent Sodium Thiosulpahte, as recommended by TEC after incorporating suggestions, is given at ***Annexure – IV.***

3. The following applicants were asked to make technical presentation before this committee:

(i) M/s D. V 'S. Industries, Plot No. 6012/2, GIDC Estate, Ankleshwar-39002
(ii) M/s Sorath Agro, S.No. 24/1P6, Vill-Jamwadi, 8-B National Highway, Jetpur Road, Ta-Gondal Dist-Rajkot-360311

Technical presentations were made by respective representatives. The details of the proposals along with the recommendations of the committee are given at Annexure V.

4. The committee also discussed details of utilization proposal submitted by M/s Aarti Industries Limited. (Organic Division) Plot no. 801/23, Phase III, GIDC, Vapi-396195 for utilization of Spent

R. K. Singh

Sulphuric Acid for manufacturing of Single Super Phosphate. Recommendations made by the committee in this regard are also given at Annexure V.

5. The meeting ended with vote of thanks to the Chair.

*****

R. K. Singh