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16 DEC 2014

KARNATAKA STATE POLLUTION CONTROL BOARD

PROCEEDINGS OF THE 378th MEETING OF THE TECHNICAL ADVISORY COMMITTEE OF KSPCB HELD ON 02.12.2014 IN THE BOARD MEETING HALL, 3rd FLOOR, "PARISARA BHAVANA", CHURCH STREET, BANGALORE - 560 001.

Members Present:

1.	Dr. Jai Prakash Alva, Board Member, KSPCB, No.2, 5 th Cross, 4 th Main, Pampa Extension, Kempapura, Bangalore – 560 024.	Chairman
2.	Sri. J.G.Kaveriappa, Board Member, KSPCB, No.40, Sri Krishna, 4 th 'A' Cross, I Stage, Anandanagar, R.T. Nagar Post, Bangalore – 560032.	Member
3.	Sri. Mohankumar Kondaji, Board Member, KSPCB, No.218, 15 th 'C' Cross, Mahalakshimpuram, Bangalore – 560 086.	Member
4.	Dr. H.N.Chanakya, Scientist, Centre for Sustainable Technology, Indian Institute of Science (IISc), Bangalore – 560 012.	Member
5.	Sri. H.Srinivasaiyah, Retd. Director of Factories, # 15/4, A-2, Cartlemaine Apartment, Jayamahall Main Road, Bengaluru – 570 016.	Member
6.	Dr. Sandeep Mudliar, Principal Scientist, E-II, Central Food Technological Research Institute (CFTRI), Mysore – 570 020.	Member
7.	Dr. B.S.Jai Prakash, Vice President, Academy of Certified Hazardous Material Managers – India Chapter, Bangalore Institute of Technology, K.R. Road, Bangalore.	Member (Invitee)
8.	Dr. Jayateerth R.Mudakavi, Principal Research Scientist, Department of Chemical Engineering, Indian Institute of Science (IISc), Bangalore.	Member (Invitee)
9.	Sri. B.P.Arun, Deputy Drugs Controller, The Drugs Controller of Karnataka, Palace Road, Bangalore.	Member (Invitee)
10.	Sri. S.Nanda Kumar, Chief Environmental Officer-1, Karnataka State Pollution Control Board, Bangalore.	Member Convener

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The Member convener welcomed the members of the reconstituted TAC and thanked them for accepting the membership inspite of their pre-occupation in their regular profession. He introduced all the members of the Committee and briefed them about the role of the TAC in helping the Board to meet the objectives.

The Chairman, TAC requested all the Members to actively take part in the meetings and to provide valuable advice based on their field of expertise and experience.

The TAC before taking up the subjects placed on record the valuable services rendered by the past committee Chairman Prof. Gopal Mugeraya and Members viz., Dr.R.Siddaramappa, Prof.S.K.Gali, Dr.R.Gopalakrishna, Sri. Dinesh Kumar Alva, Dr.S.Manjappa and Sri.Kedarnath Mudda during their tenure in the committee.


Member Convener

ITEM NO: 378:01

Read and confirm the **Proceedings of the 377th Technical Advisory Committee** meeting of Karnataka State Pollution Control Board held on 28.6.2014

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The proceedings of the 377th TAC meeting was read and confirmed. Action taken on the proceedings was brought to the notice of the committee for information.

ITEM NO: 378:02

Follow up actions on the proceedings of 377th Technical Advisory Committee meeting held on 28.06.2014.

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Action taken on the proceedings of 377th Technical Advisory Committee meeting was reviewed. The committee observed that, actions have been taken by the Board on the recommendations.

ITEM NO: 378:03

Establishment/installation of common incinerator plant of capacity 1.50 MT/hr at Sy.No.75 to 85 of Pammenahalli and Sy.No.7 & 9 of Thimmanayakanahalli, Dabaspet, Nelamangala Taluk of M/s. **Ramky Enviro Engineers Ltd.**, (M/s. Karnataka Waste Management Project) for thermal destruction of incinerating the incinerable hazardous waste generated from the other industries.

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The proposal is for the installation of common incinerator plant of capacity 1.50 MT/hr for thermal destruction of incinerating the incinerable hazardous waste generated from industries. The Karnataka Waste Management Project representatives made technical presentation on the proposed incinerator, its technical specifications, its working principle and the proposed pollution control measures, monitoring schedule of emissions, disposal of scrubbed liquid and disposal of final residues.

It is explained by the project proponent that they will be homogenizing the waste, analyzed for its suitability for incineration and then only it will be taken for incineration. The size of each batch varies from 80 to 100 kg. In the incinerator the temperature in the primary and the secondary chambers will be maintained as per the specification stipulated by CPCB for incinerator. It is proposed to have interlocking system in order to ensure temperature levels.


Member Convener

The committee felt that, the project proponent should have placed on record the operating problems, remedial measures, monitoring data of similar facilities it has installed and working in other places. The proponent informed that, the facilities at Mumbai and Hyderabad are working satisfactorily and meeting the stipulated norms. The committee took a decision to get the data from the project proponent.

Further, the proponent was committed to furnish the standard operating procedure for the incinerator, protocol for segregation of waste, sampling procedure and its frequency and other details. It was suggested that industry should have high temperature GCMS for finger print analysis of dioxin and furans.

After detailed deliberations, the committee felt that a team can visit one of the operating facility to verify its functioning, efficiency and the monitoring systems.

ITEM NO: 378:04

Proposal for change in product mix i.e., proposal for to delete one approved product and add three additional products at Plot No.94(P), 103 & 104, Pharmaceutical SEZ, KIADB Industrial Area, Hassan by **M/s. Kumar Organics Limited.**

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The project proponents made the presentation. The committee was not convinced with the presentation made by the project proponent as it was not properly structured. They have not included the compliance to the existing CFE and CFO conditions, complete details of manufacturing process, synthesis, material balance, substantiation for claim on no increase in pollution load and comprehensive EMP. Hence, it was resolved that, the industry be called for a presentation before the sub-committee of TAC comprising of Dr.B.S.Jayprakash, Dr.H.N.Chankya and Dr. Jayateerth R.Mudakavi at an early date.

The project proponent was informed to come back with the above details.

ITEM NO: 378:05

Change in product mix at Plot No.82/A, KIADB Industrial Area, Jigani, Anekal Taluk, Bangalore Urban District – 560 106 by **M/s. Hikal Limited.**

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The project proponent has requested for postponement of the meeting and therefore the subject was deferred.


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ITEM NO: 378:06

Proposal to manufacture Polymer Resin products (14MTPA), Synthetic Chemical products (6MTPA) & Amino Alcohol/Chiral Amines products (2MTPA) at No. 21, 44/21, Annapoorneshwari Industrial Area, Doddkallasandra Village, Kanakapura Road by **M/s. Bharavi Laboratories Private Limited**

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The Project Proponents made presentation. They are a Product development company in Laboratory Scale, their products are used in laboratories worldwide in both pharmaceutical and biochemical research to speed up new drug development. The lab is coming up in a leased premises of 1500 square feet land in a private industrial area with 3 floors. The committee felt that the area proposed for carrying out this type of activity may not be suitable. The project proponent informed that they are carrying out a similar activity in the neighboring premises with prior consent from the Board.

After deliberations, committee resolved that, Dr.B.S.Jai Prakash may visit the area along with a chemical engineer of the Board and to give opinion on the matter.

ITEM NO: 378:07

Change of product mix to increase the production capacity of existing one product i.e., Curcumin c3 complex – from 100TPA to 750TPA by reducing the production capacity of other product Coleus Forskohli – from 360TPA to 45TPA at No. 4B & 4C, KIADB Industrial Area, Dobaspet, Bangalore Rural District by **M/s Sami Labs Limited**.

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The proposal is to increase the production capacity of the existing product Curcumin c3 complex from 100 TPA to 750 TPA, to reduce the production of product Coleus Forskohli from 350 TPA to 45 TPA and to manufacture additional 10 new products namely

1. Gymnema.
2. Bacopa
3. Ashwagudha
4. Boo Saara (Ptorocarpus)
5. Tulsi
6. Sage
7. Garcina
8. Fenugreek

The project proponents made the presentation and informed that by expansion the total production of all the products will be 1220 MTPA. They propose to have continuous solvent extraction which is more efficient and convenient compared to conventional batch type extraction. They claimed that by continous process the solvent loss is minimal. This is more


Member Convener

suitable for large volume extraction with low solvent consumption. Waste water generation from the process is estimated around 10KLD maximum (present consented is 4.5KLD). Presently, the industry is treating the process waste water in existing 10KLD capacity ETP consisting of collection cum equalization tank, pH correction system, filter press, SBR tank, pressure sand filter, activated carbon filter and SDB.

The industry has come up with two options viz., 1) to hand over the process effluent to CETP and to utilize the existing ETP for treatment of sewage and low TDS effluent

OR

2) Sewage is continued to be treated in ST & SP. Process waste water to be treated in existing 10 KLD ETP by upgrading the ETP by adding clari-flocculation system as pre-treatment before SBR and also Fenton oxidation as polishing treatment and reuse the effluent for gardening and cooling purpose.

Committee after deliberations recommended to consider the proposal with the following conditions.

1. To provide anaerobic digester before the existing treatment system.
2. To provide pre-aeration system after anaerobic digester.
3. To create facility to monitor VOCs both indoor and outdoor.
4. To provide a close chamber for solid retrieved from the filter press.
5. At the end of treatment to provide activated carbon filter followed by ozonator
6. The industry should furnish the existing work level VOCs within a week's time.
7. To analyze the solid bio-mass for ash composition and presence of any heavy metals.

The industry may be advised to utilize the existing ETP with modifications.

DR. JAI PRAKASH ALVA
CHAIRMAN
TECHNICAL ADVISORY COMMITTEE
KARNATKA STATE POLLUTION CONTROL BOARD

S.NANDA KUMAR
CHIEF ENVIRONMENTAL OFFICER-1
MEMBER CONVENER, TAC.
KARNATKA STATE POLLUTION CONTROL BOARD


Member Convener