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ಕರ್ನಾಟಕ ರಾಜ್ಯ ಮಾಲಿನ್ಯ ನಿಯಂತ್ರಣ ಮಂಡಳಿ
Karnataka State Pollution Control Board

“ಪರಿಸರ ಭವನ”, 1 ರಿಂದ 5ನೇ ಮಹಡಿಗಳು, ನಂ. 49, ಚರ್ಚ್ ಸ್ಟ್ರೀಟ್, ಬೆಂಗಳೂರು - 560 001, ಕರ್ನಾಟಕ, ಭಾರತ
“Parisara Bhavana”, 1st to 5th Floor, # 49, Church Street, Bengaluru - 560 001, Karnataka, INDIA

No: KSPCB/NEIA/CEO-2/TAC-387/2016-17/ 5616

Dated:

29 DEC 2016

KARNATAKA STATE POLLUTION CONTROL BOARD

PROCEEDINGS OF THE 387TH TECHNICAL ADVISORY COMMITTEE MEETING HELD ON 19.12.2016 IN THE BOARD MEETING HALL, 3RD FLOOR, “PARISARA BHAVANA”, CHURCH STREET, BANGALORE - 560001.

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, Mahalakshampuram, Bangalore – 560 086.	Member
4.	Dr. H.N. Chanakya, Chief Scientist, Centre for Sustainable Technologies, Indian Institute of Science (IISc), Bangalore – 560 012.	Member
5.	Dr. Sandeep Mudliar, Principal Scientist, E-II, Central Food Technological Research Institute (CFTRI), Mysore – 570 020.	Member
6.	Dr. B.S. Jai Prakash, Vice President, Academy of Certified Hazardous Material Managers – India Chapter, Bangalore Institute of Technology, K.R. Road, Bangalore.	Member
7.	Sri.B.G. Mohankrishna, Chief Environmental Officer-2, Karnataka State Pollution Control Board, Bangalore.	Convener

Officers of the Board present

1.	Dr. A. Ramesh, Senior Environmental Officer, Board Office.
2.	Sri. Sadiq Ahamed, Senior Environmental Officer, Board Office.
3.	Sri. Yoganand, Environmental Officer, Board Office.
4.	Smt. R. Shantha Kumari, Environmental Officer, Board Office.
5.	Dr. D. R. Ravi, Deputy Environmental Officer, Board Office.
6.	Sri. Narayan Swamy, Deputy Environmental Officer, Board Office.

Industry Representatives		
Sl.No	Name & Address of the Industry	Name & designation of the industry representatives
1.	Up-gradation of existing 0.5MLD Sewage Treatment Plant and 5MLD Common Effluent Treatment Plant at Apparel Park, Doddaballapura.	Dr. Prathab Bhaskar, CEO-Chennai. V Ravichandran, GM- Chennai. M. Ramu, DO & EE- KIADB. K.L. Chandra Kumar, TA- KIADB.
2.	M/s. Pallavi Creations, Bellary.	Not Attended
3.	Issue of CFO to industry for manufacture and sale of intermediates of final products for which industry has obtained Environmental Clearance issued either by MoEF and CC/SEIAA in respect of M/s. Trimax Bio Sciences Private Limited, Raichur.	--
4.	Issue of CFO to industry for manufacture and sale of intermediates of final products for which industry has obtained Environmental Clearance issued either by MoEF and CC/SEIAA in respect of M/s. Jayanth Pharmaceuticals Pvt. Ltd., Raichur.	N. Ravi, Manager.
5.	Issue of CFO to industry for manufacture and sale of intermediates of final products for which industry has obtained Environmental Clearance issued either by MoEF and CC/SEIAA in respect of M/s. SRC Laboratories Ltd., Raichur.	P. Murali, R & D.
6.	Application of Nano Chemicals for Powder Coating Activity/Surface Treatment- M/s. MPP Technologies, Dabaspeta, Sompura Industrial Area, Nelamangala.	M. Devarajaiah, Director. Dr. Mudakavi, Director. S. S. Shinde, GM-Technical.

ITEM NO: 387:01

The proceedings of 386th meeting was read and discussed. The committee confirms the proceedings without any changes.

ITEM NO: 387:02

Up-gradation of existing 0.5MLD Sewage Treatment Plant and 5MLD Common Effluent Treatment Plant at Apparel Park, Doddaballapura.

The SEO, (WMC) has informed that, the Karnataka Industrial Area Development Board (KIADB) has developed Apparel Park at Doddaballapura. As a part of Infrastructure, they have installed Common Effluent Treatment Plant (CETP) to treat the trade effluent. Since, there was an operational issue with the CETP, the Board has issued directions under Sec.33 (A) of the Water (Prevention & Control of Pollution) Act, 1974. In response to the Board office direction, KIADB has submitted proposal for up-gradation of CETP obtained from the Consultants viz M/s. Janani Engineering Services and Solutions and M/s. Envirocare, New Delhi. The proposal was earlier placed before TAC meetings held on 21.03.2016, 28.04.2016 & 18.06.2016 & the decision was communicated to KIADB authorities for taking necessary action. There is no communication from the KIADB on the action taken by them about the communication of the Board.

Now, the KIADB has come up with another proposal for up-gradation of CETP submitted by M/s. Envirocare India Pvt. Ltd., which was placed before the TAC for detailed deliberation.

On behalf of KIADB, M/s. Envirocare India Pvt. Ltd., have made a presentation on the treatment scheme proposed by them along with the existing infrastructure. They have informed that they are going to use Electro Catalytic Oxidation Technology for improving the treatment efficiency, which basically works on the principle of oxidation of organic matter by the ferrate ions liberated through the interaction of oxygen radical at the anode. An anode is prepared by impregnating poly-oxo-metallate (Mild Steel metal impregnated with vanadium, molybdenum, copper and other metals). The Catalytic surface is polarised/ activated to produce oxygen radical by interacting with the trade effluent. The radical thus produced will diffuse back into inner core of metallic layer. The interaction of radical with metal matrix will result in synthesis of ferrate ions, which is released into water and carried over into aeration tank. They have also stated that they are going to establish ZLD based on electro catalytic oxidation and Membrane Filter Technology (MFT) in conjunction with mechanical evaporation technology. They have explained the treatment process along with the scheme introducing polymer A and polymer B after electro cascade reactor. After 3 stage of treatment, they have informed that they treated water will have the characteristics of TSS: < 1.0, TDS: 300-400, BOD: < 15. The industry shall also ensure the treatment of trade effluent from the textile industries and the CETP in respect of colour as 150pcu (platinum-cobalt unit) as per MoEF notification prescribed for effluent from textile industries.

After detailed deliberations, The TAC has made the following observation and the KIADB was asked to submit the following details:

1. The Efficiency of electro- cascade system for treatment of textile effluent.
2. The pollutant parameter considered for electro-catalytic oxidation and efficiency of COD and colour removal through this method.
3. The nature of electrode, quantity of metal-oxide dissolved from the sacrificial anode, amount of metal sludge anticipated & its disposal method, extent of dissolved heavy metals in effluent at various stages..
4. The amount of effluent that can be treated by single electrode at any given point of time, amount of energy consumed/m³ of effluent treated as well as for kg COD removed.
5. The methodology adopted for prevention of liberation of H₂ gas at the cathode and its

ultimate disposal /handling scheme.

6. Amount of coagulant i.e., polymer-A and polymer-B used per kg of COD removal.
7. The Chemical constituents of polymer-A and Polymer-B with its dissociation in the process of electro-catalytic oxidation.
8. The effluent characteristics in terms of BOD, COD & the colour at the inlet of electro cascade reactor shall be submitted with treatment efficiency achieved in the process.
9. The Performance study of effluent from Scott Garments shall be submitted. The Regional officer-Doddaballapura was instructed to co-ordinate with the consultant and the sample has to be collected for analysis at the Board laboratory.
10. The efficiency study and the performance evaluation of ETP established by the consultant at M/s. J J Mills, Erode shall be submitted.
11. The newly proposed treatment units for the existing scheme shall be submitted along with preventive measures taken for membrane fouling.
12. The total reduction in TDS due to the polymer addition i.e., the outlet of clarifier shall be submitted.
13. The extent of percent recovery achieved in the process like Reverse Osmosis (I & II stage), electro-cascade system etc., shall be submitted.
14. Sludge Volume Index and the overall sludge generation/m³ of trade effluent treatment before and after the addition of polymer shall be submitted.
15. The details of ferrite and poly-ferrite kinematics in the treatment process shall be submitted.
16. The details of quality of effluent taken to MEE followed by ATFT with effluent characteristics shall be submitted.

The TAC has opined that after submission of observation details, the subject may be placed before TAC for deliberation and to take suitable decision.

ITEM NO: 387:03

M/s. Pallavi Creations, Bellary

The Project proponents have not attended the meeting. They have also not submitted the details as sought in the 386th TAC meeting. Hence, the TAC felt not to discuss the subject.

ITEM NO: 387:04:

Issue of CFO to industry for manufacture and sale of intermediates of final products for which industry has obtained Environmental Clearance issued either by MoEF and CC/SEIAA in respect of M/s. Trimax Bio Sciences Private Limited, Raichur.

ITEM NO: 387:05:

CONVENER

