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31 JUL 2013

KARNATAKA STATE POLLUTION CONTROL BOARD

PROCEEDINGS OF THE 373RD MEETING OF THE TECHNICAL ADVISORY COMMITTEE OF KSPCB HELD ON 24.07.2013 IN THE BOARD MEETING HALL, 3RD FLOOR, "PARISARA BHAVANA", CHURCH STREET, BANGALORE - 560 001.

Members Present:

1.	Prof. Gopal Mugeraya, Professor, Department of Chemical Engineering, National Institute of Technology Karnataka (NITK), Suratkal, Srinivasa Nagar – 575 025.	Chairman
2.	Prof. S.S.Gadag, Sangam, No.612, 15 th Main Road, 1 st Block, 3 rd Stage, UVCE Layout, Basaveshwaranagar, Bangalore – 560 079.	Member
3.	Dr.H.N.Chanakya, Scientist, Centre for Sustainable Technology, Indian Institute of Science (IISc), Bangalore – 560 012.	Member
4.	Dr.B.S.Jai Prakash, Vice President, Academy of Certified Hazardous Material Managers – India Chapter, Bangalore Institute of Technology, K.R. Road, Bangalore.	Member
5.	Dr.R.Siddaramappa, M.Sc. (Agri), Ph.D, Retd. Professor of University of Agricultural Sciences (UAS), #25, "Gangothri", UAS Layout, Nagashettyhalli, RMV 2 nd Stage, Bangalore – 560 094.	Member
6.	Sri Kedarnath Mudda, B.Tech (Chemical), No.17, 18 th Cross, 8 th Main, Upper Palace Orchard, Sadashivanagar, Bangalore – 560 080.	Member
7.	Sri H.Srinivasaiah, Retd. Director of Factories, Department of Factories, Boilers, Industrial Safety & Health and presently Director, Karnataka German Technical Training Institute, COE Building, ITI Complex, Bannerghatta Road, Dairy Circle, Bangalore – 560 029.	Member
8.	Prof. S.K.Gali, Professor & HOD, Environmental Science, University of Agricultural Sciences (UAS), Dharwad – 580 005.	Member
9.	Dr. Sandeep Mudliar, Principal Scientist, E-II, Central Food Technological Research Institute (CFTRI), Mysore – 570 020.	Member
10.	Dr.R.Gopalakrishna, Associate Professor, Department of Physics, Maharani's Science College for Women, Palace Road, Bangalore – 560001.	Member
11.	Dr.S.Manjappa, Special Officer, Research & Development, Visveswaraya Technological University (VTU), UBDT College of Engineering, Davangere – 577004	Member
12.	Sri S.Nanda Kumar, Chief Environmental Officer-I, Karnataka State Pollution Control Board, Bangalore.	Member Convener

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The Member convener, TAC, welcomed the members of the reconstituted TAC and thanked them for accepting the membership inspite of their preoccupation in their regular profession. He introduced all the members of the committee.


Member Convener

The Chairman, KSPCB briefed them about the role of the TAC in helping the Board to meet its objectives. He also requested for active participation by each member and to provide valuable advice based on their field of expertise and experience. He emphasized that the TAC while evaluating the projects shall ensure that the total waste generation is minimized in the process itself which will ensure unnecessary wastage of resource. The Chairman stressed the need for documenting good environmental practices. He also suggested to bring out a repository of best cases which were discussed in the TAC as it will be a useful reference document.

The Chairman TAC assured that the new team will strive at its best to meet the expectations of the Board and will help in improving the image of the Board further. He requested all the members to actively take part in the meeting.

The TAC before taking up the subjects placed on record the valuable services rendered by the past committee members viz., Dr.S.C.Nagendra Swamy, Sri.A.R.Vijayendra, Joint Director of Factories, Department of Factories, Boilers, Industrial Safety & Health, Dr.D.R.Swamy, Prof. Dr. Md. Basha Mohideen, Dr.S.C.Basappa, Dr.B.S.Nagendra Prakash and Sri. M.D.N.Simha, Ex- Chief Environmental Officer and Ex-Member Convener, during their tenure in the committee.

The committee also placed on record the co-operation extended by Sri H.P.Prakash, IFS, Ex-Member Secretary during his tenure at Board.

ITEM NO: 373:01

Read and confirm the **Proceedings of the 372nd Technical Advisory Committee** meeting of Karnataka State Pollution Control Board held on 08.05.2013.

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The proceedings of the 372nd TAC meeting was read and confirmed. Action taken on the proceedings was brought to the notice of the committee for information.

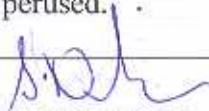
ITEM NO: 373:02

Review of Environmental Management System and conditions imposed in CFE issued for co-generation plant of M/s Coromandel Sugars Ltd., (Formerly ICL Sugars Ltd.), Makavalli village, KR Pet Taluk, Mandya District.

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The Member Convener of the Committee explained the present status of operating and pollution control measures at Coromandel Sugars Limited. He also explained about the apprehensions expressed by the farmers around the industry, the agitation by farmers opposing the expansion proposals of the factory and the status of the legal case filed by farmers in the National Green Tribunal, Chennai.

The conditions stipulated by the Ministry of Environment and Forest in the EC issued to the industry in letter dated 31.12.2012 and the CFE issued by the Board for co-generation plant expansion from 12 MW to 30 MW was perused.


Member Convener

The factory representatives made technical presentation on the proposed expansion of co-generation plant and the proposed pollution control measures for control of water pollution and air pollution.

The committee perused the earlier decision of the TAC on the subject related to "Use of coal as an auxiliary fuel in biomass fired boiler" which recommends use of 15% coal as auxiliary fuel along with biomass.

After detailed deliberations, the committee felt that the project proponent shall furnish the following informations:

- 1) Industry to categorically inform whether they are proposing to install the distillery in the present premises.
- 2) The quality of the coal industry propose to use. It's sulphur content, ash-content and the rejects that are expected from the supply and mechanism for its disposal.
- 3) Estimated ash characteristic at different ratio viz. Bio-mass : Coal at 100% : 0%, 90% : 10%, 85% : 15%, 75% : 25%.
- 4) Disposal proposal for the combined ash.
- 5) To explore possibilities of using alternate auxiliary fuel instead of coal.
- 6) Water balance of sugar plant after expansion and also the co-generation plant. Industry shall take into account impact of distillery if they are proposing distillery even at the later day.
- 7) Energy balance of the entire process
- 8) Irrigation management Plan for the treated effluent.
- 9) To workout the ground level concentration of SPM and RSPM using appropriate mathematical model for the worst case scenario namely, 100% use of biomass and using auxiliary fuel coal at 15%.
- 10) To submit comprehensive EMP in accordance with ISO 14001.

ITEM NO: 373:03

Proposal for establishment for setting up of new Bulk Drug unit by **M/s. GPR Life Sciences Private Limited**, Plot No.66E & 66F, KIADB Industrial Area, Humnabad, Bidar District.

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The project proponent made technical presentation. The proposal is to manufacture bulk drug. APIs mainly in antipyretic and analgesic, Diabetic, Anti-histamine, Anti-Cancer, anti-Asthma and other therapeutic category drugs and its intermediates.

The committee noted that the process adopted uses many hazardous chemicals. The proponents could not justify whether the process route chosen is a cleaner process from environment point of view. The project proponent did not submit the quantities of solvents used. The recovery of Hexane to the extent estimated by the proponent is not justifiable.


Member Convener

The committee apart from advising the proponent to replace the raw material Sodium Boride with more environmentally friendly alternative has suggested to submit the following details.

- 1) Revised process kinetics with mass balance.
- 2) Details of the solvents used, recovery from the process and fugitive emission control details.
- 3) Characteristics of the emissions, effluents and condensate from the MEE.
- 4) In case of failed batches reprocessing, the details of management and disposal of solid waste generation.
- 5) Hazard identification study along with MSDS.
- 6) Explore the possibility of providing one more solvent stripper before the biological treatment.
- 7) In biological treatment instead of defused aeration, surface aeration may be examined to avoid solvent evaporation/smell nuisance.

ITEM NO: 373:04

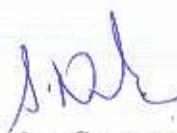
M/s. Theramyt Biologics Private Limited, Prasad Enclave, No.118/119, Yeshwanthpura Industrial Suburb, 2nd Stage, 5th Main, Bangalore – 560 022.

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The project proponent made a presentation on the type of activities proposed at the premises. The committee noted that the project is coming up in 2nd Floor of Software building in Industrial Area. The suitability of the site is to be verified for which the committee suggested a three member team could visit the site. Further, the proponent is asked to furnish the following;

- 1) To specify the list of chemicals used, its specification and quantity along with MSDS.
- 2) The solid waste should be reclassified into inert, biomedical, bioethical, etc. and to give its quantity and management.
- 3) Industry has to obtain DBT and Bio Safety clearances.
- 4) To make provision to collect the liquid waste separately and to dispose scientifically to CETP instead of draining it into sewers.

Based on the sub-committee report, the committee will deliberate in the next meeting of TAC.


Member Convener

ITEM NO: 373:05

M/s. Affigenix Biosolutions Private Limited, #265/1F, KSSIDC Industrial Area, Bommasandra Village, Attibele Hobli, Bangalore – 560 099.

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The project proponent made a presentation on the type of activities proposed at the premises. There was no clarity in the activities proposed. They have mixed up their main activity along with their proposed consultancy services. The Committee opined that proponent has to rework their proposal only to the extent of proposed R & D activity in bio assay development based on bio chemical approach. The Board after examining the same, can consider the proposal for clearance.

ITEM NO: 373:06

Applied for CFE-Expansion for reprocessing of copper etchant from 600 KL/A to additional capacity of 900 KL/A for the recovery/production of copper powder by **M/s. Global Rasayan, Plot No.176, Hebbal Industrial Area, Mysore– 570 017.**

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The project proponents did not appear for the meeting and therefore the subject was deferred. However, the proponent could be advised to furnish the characteristics of copper etchant and its source, the reject management and disposal, the possibilities of impurities in the product and its details.

ITEM NO: 373:07

Applied for CFE-Expansion for reprocessing of 600 TPA ETP sludge of containing 10% Copper for the production of copper sulphate of capacity 120 TPA and by product of lime paste of capacity 142.5 TPA by **M/s. Global Green Agrotech, No.290/F, 5th Cross, Arvindnagar, Mysore – 570 023.**

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The project proponents made the presentation. The proponent is advised to furnish the characteristics of sludge (raw material) and its source, the reject management and disposal, the possibilities of impurities in the product and its details. On receipt of the above, the project could be evaluated.

(Draft approved electronically by the
Chairman of the committee)

Sd/-

**PROF. GOPAL MUGERAYA
CHAIRMAN**

**TECHNICAL ADVISORY COMMITTEE
KARNATKA STATE POLLUTION CONTROL BOARD**



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