

**KARNATAKA STATE POLLUTION CONTROL BOARD**

**PROCEEDINGS OF THE 379<sup>th</sup> MEETING OF THE TECHNICAL ADVISORY COMMITTEE OF KSPCB HELD ON 23.12.2014 IN THE BOARD MEETING HALL, 3<sup>rd</sup> FLOOR, "PARISARA BHAVANA", CHURCH STREET, BANGALORE - 560 001.**

**Members Present:**

1.	Dr. Jai Prakash Alva, Board Member, KSPCB, No.2, 5 <sup>th</sup> Cross, 4 <sup>th</sup> Main, Pampa Extension, Kempapura, Bangalore – 560 024.	Chairman
2.	Sri. J.G.Kaveriappa, Board Member, KSPCB, No.40, Sri Krishna, 4 <sup>th</sup> 'A' Cross, I Stage, Anandanagar, R.T. Nagar Post, Bangalore – 560032.	Member
3.	Sri. Mohankumar Kondaji, Board Member, KSPCB, No.218, 15 <sup>th</sup> 'C' Cross, Mahalakshampuram, 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.Srinivasaiah, Retd. Director of Factories, # 15/4, A-2, Cartlemaine Apartment, Jayamahal Main Road, Bangalore – 570016.	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 – 560 012.	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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**ITEM NO: 379:01**

Read and confirmed the Proceedings of the 378<sup>th</sup> Technical Advisory Committee meeting of Karnataka State Pollution Control Board held on 28.6.2014.

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The proceedings of the 378<sup>th</sup> TAC meeting was read and confirmed.  
The committee suggested in Item No 378:07, the following condition to be incorporated after Sl. No.7.

8) Explore the possibility of super critical fluid extraction system instead of conventional solvent extraction system.


**Member Convener**

**ITEM NO: 379:02**

Follow up actions on the proceedings of 378<sup>th</sup> Technical Advisory Committee Meetings held on 28.6.2014.

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Action taken on the proceedings of 378<sup>th</sup> Technical Advisory Committee meeting was reviewed. The committee observed that, actions have been taken by the Board on the recommendations. Committee Chairman suggested that the units to be organized at the earliest and completed.

**ITEM NO: 379:03**

CFE-Expansion for manufacture of additional products in existing premises at Plot No.254, 255, 256, Belur Industrial Area, Dharwad by M/s. **Nandu Chemicals Industries Limited.**

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The project proponent requested for postponement as they have received intimation late and the subject was deferred.

**ITEM NO: 379:04**

CFE-expansion for manufacture of additional products in existing premises at Plot No.8C and 9A, KIADB industrial Area, Doddaballapura, Bangalore rural District by **M/s. Resonance Laboratories Pvt. Limited.**

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- The project proponent made a presentation on the proposed change in product mix and new products.
- The proponent has worked out stoichiometric material balance instead of the actual material balance arrived based on laboratory studies.
- The proponent has to qualify and quantify the emission/discharge residues and the yield of the product properly.
- Industry should workout and submit optimized reaction conditions such as mole ratio, temperature, pressure, catalyst (if any) to get maximum yield.
- For each product there should be a practical data sheet with proper representative flow chart.
- To explore the use of safer and regenerative hydrogenation instead of Sodium Boro Hydride metal hydrides and Raney nickel
- The committee recommends that the industry shall furnish the above details and also they shall workout the pollution load during the worst case scenario considering maximum products taken up for production at a given time.

  
**Member Convener**

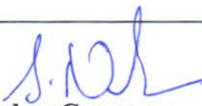


**ITEM NO: 379:05**

Change in product mix at Plot No.82/A, KIADB Industrial Area, Jigani, Anekal Taluk, Bangalore Urban District-560106 by **M/s. Hikal Limited.**

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- The project proponent made a presentation on the proposed change in product mix.
- Industry proposed to add 7 new additional products to the existing product mix.
- They have categorized the proposed manufacturing products into 3 groups:
  - i) Group A-Existing products
  - ii) Group B-Campaign 2 new products
  - iii) Group C-Campaign 14 new products
- The above classification is made depending on the manufacturing facility existing at the site.
- They propose to manufacture 12 products from Group A and any two products under Group B or Group C at a time.
- It is observed that there is a significant loss of solvents in the process which is mentioned as fugitive emissions. The same is required to be checked and the losses are to be minimized.
- Explore the possibility of replacing use of Chloroform and Dichloromethane in the process.
- Wherever Lithium used as catalyst, proponent has to explore the possibility of recovering it instead of disposal as waste.
- During the process, generation of solid by products (inorganic) are to be identified and possibility of their recovery and uses are to be explored.
- The operating temperature and pressure under optimized reaction conditions should be furnished for each of the products.
- Details of the solvent recovery system viz designed capacity, operating capacity, separation efficiency etc should be furnished.
- In the preparation of Tri-Fluro-Methyl-Cinnamic acid, the composition of the contents in the distillate residue and their downstream hydration chemistry should be furnished.

  
**Member Convener**

