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05 JAN 2016

KARNATAKA STATE POLLUTION CONTROL BOARD

PROCEEDINGS OF THE 381ST MEETING OF THE TECHNICAL ADVISORY COMMITTEE OF KSPCB HELD ON 18.12.2015 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, Mahalakshmpuram, Bangalore – 560 086. | Member |
| 4. | Dr. H.N.Chanakya, Scientist, Centre for Sustainable Technology, Indian Institute of Science (IISc), Bangalore – 560 012. | Member (Invitee) |
| 5. | Dr. Sandeep Mudliar, Principal Scientist, E-II, Central Food Technological Research Institute (CFTRI), Mysore – 570 020. | Member (Invitee) |
| 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 (Invitee) |
| 7. | Sri.S.Venkatesh, Deputy Drugs Controller, The Drugs Controller of Karnataka, Palace Road, Bangalore. | Member (Invitee) |
| 8. | Sri.S.Nanda Kumar, Chief Environmental Officer, Karnataka State Pollution Control Board, Bangalore. | Convener |

ITEM NO: 381:01

Read and confirm the Proceedings of the 380th Technical Advisory Committee meeting of Karnataka State Pollution Control Board held on 05.03.2015

The proceedings of the 380th TAC meeting was read and confirmed.



Convener

ITEM NO:381:02

Proposal for change in product mix ie., proposal for to delete one approved product and add six additional products at Plot No.94(P), 103 & 104, Pharmaceutical SEZ, KIADB Indl Area, Hassan by **Kumar Organics Products Limited**.

Project proponent has obtained EC from State Level Environment Impact Assessment Authority, Karnataka State vide letter dt: 18/03/2011 for manufacture of the following products and the Board is also according consents under the Water Act and the Air Act;

| Sl. No. | Specialty chemicals | Production capacity (T/Yr) |
|---------|---------------------|----------------------------|
| 1 | Zinc Pyrithione | 1200 |
| 2 | Copper Pyrithione | 300 |
| 3 | Carageenan | 1000 |
| 4 | Synovia HR | 24 |
| 5 | Sytenol A (Chiba) | 12 |
| 6 | Ascorbyl Palmitate | 40 |
| 7 | Triclosan | 90 |
| 8 | Kopirox | 36 |
| | Total | 2702 |

The subject was discussed in the 378thTAC meeting held on 5.5.2014, 2.12.2014. Industry made a presentation on the proposed additions to the list of products viz. Kopuron, Kopcotrizone, Kopulan, Koptrizone, Kopcerine and Zincitrate and to delete the old product Carageenan. It was opined that the issue required a detailed reevaluation by a sub-committee of TAC. The TAC sub-committee examined the proposal on 12.12.2014 and 2.3.2015. The sub-committee after evaluating the proposal has opined that, the products Kopuron and Kopulan are biotech products and attracts EIA Notification dated 14.9.2006.

Regarding the biotech product issue, the industry, in its letter dated 7.4.2015 furnishing details, have opined that, the two biotech products do not attract EIA Notification. The issue was again deliberated by the sub-committee on 5.8.2015. The committee opined that, the industry should approach the relevant authority under the Manufacture, Use, Import, Export and Storage of Hazardous Micro Organisms, Genetically Engineered Organisms or Cells Rule, 1989. The industry, instead of approaching the Department of Biotechnology for necessary bio-safety clearance, in a letter dated 28.8.2015 has made a representation to the Board for issue of CFE.


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Once again, the industry made a presentation before the TAC sub-committee on 18.12.2015. After re-examining, the industry was advised to approach Department of Bio Technology for bio-safety clearance as well as to seek EC for the change in product mix for all the proposed new products as well.

ITEM NO:381: 03

Proposal for manufacture of Kopcerin (Ethylhexyl glycerin) by M/s. Kumar Organics Products Ltd, at Plot No.83, Jigani Industrial Area, Anekal Taluk, Bangalore.

The Project proponent had earlier obtained CFE to carryout R & D developed products to scale up to pilot scale for (1) Steary Heptanate (KOPT ANOATE), (2) Lauryl Lactyl Lactate (KOPT ANOATE),(3) PCMX (KOP ANOATE) and other specialty chemicals.

Now, the industry has proposed to shift its R & D activity to the nearby area and to manufacture Kopcerin (Ethylhexyl glycerin) of capacity 28 MT/Month and also to establish a spray drier to handle Phenolic effluent generated from their production activity at Plot No.60, 62 & 65, Jigani Industrial Area, Anekal Taluk, Bangalore.

The industry made a presentation on the proposed activities. The sub-committee after deliberation, opined as under;

- (a) Methanol loss of 50 Kg per batch as vapour loss in the process needs to be looked into as the number of batches per month is proposed to be 23.11.
- (b) Tetra-n-butylammonium bromide (TBAB) is proposed as catalyst needs to be looked into.
- (c) With regard to Phenolic effluent, it is informed that, 20 KLD of phenolic effluent will be combusted at 500°C and the residue will be subjected to spray drying. Industry has to submit the characteristics of the phenolic wastewater along with concept and complete design of combustion and spray drier.

The proposed product Ethylhexyl Glycerin is a synthetic organic chemical which requires EC.



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ITEM NO:381: 04

Review of due diligence report submitted for remediation of soil within the factory premises of **M/s Vani Organics (P) Ltd**, Plot No.4-B & D, Kolhar Industrial Area, Bidar.

The Board had issued closure direction to the industry under the Water Act on 16.4.2015 as the industry has not provided with proper scheme for effluent treatment system. Industry has not established multiple effect evaporator. As the industry had solar evaporation ponds in the present location and as it is now disbanded with, the Industry was advised by the Board to conduct due diligence of the site to know the extent of contamination of the site.

The industry has conducted the study and submitted the report.

The consultant for the industry made a presentation before the Board. The study is conducted for possible contamination of water and soil in an area covering about 1.8 acres of land which is affected by high concentration of TDS & sulphates. The observations are

- ❖ Sulphates, as SO₄ mg/L in the Bore well in the Factory premises is within the Permissible limits [244. 8/ 400mg/lit].
 - ❖ But in respect of Bandappa Land-Bore well, sulphate is just in the border line of permissible limits of 403 mg/ lit/ [400 mg/lit]. This may be due to use of Chemical Fertilizer by farmers
 - ❖ Sulphate parameter range from 01-101 mg/lit in GW in Bidar District.
 - ❖ TDS is within Permissible limits 998 as against 2000 mg/lit
 - ❖ Calcium, as Ca, mg/L, permissible limit [121 as against 200 mg/lit].
 - ❖ Total Hardness with Permissible limits [404/600 mg/lit]
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- ✓ As Soil remediation measure it is proposed to mix *Gypsum* with topsoil and grow plant species which are resistant to High level of Electrical Conductivity [EC], in consultation with Forest Department.
 - ✓ The primary goal of remediation is to reduce the amount of soil dispersion caused by the Na⁺ ion. This is accomplished by adding calcium ions.
 - ✓ Gypsum is a good source of Ca⁺⁺ ions in the form of calcium sulfate (CaSO₄). It is important to add gypsum before rainfall occurs on the site.
 - ✓ Generally requires 3-4 years to complete remediation of a 30,000 uS/cm EC soil.


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TAC was of the opinion that such due diligence report needs to be prepared from consultants with sector expertise (viz. soil chemistry). The proposal of gypsum application can be considered after carrying out thorough study on the type of contamination and mapping the soil at different depths in a grid. Also, replacement of Na ions with Ca ions by addition of Gypsum is not feasible and in this regard some lab scale analysis should have been conducted and the leachate needs to be controlled or else the extent of damage may spread beyond the study area of 1.8 acres.

In view of the above, proponent was advised to carry out such studies and present the data before TAC for validation of the due diligence report.

ITEM NO:381: 05

Proposal for change in product mix ie., proposal for deleting certain approved product and addition and increase of certain products by M/s Nectar Crop Sciences Ltd. (Former Hyderabad Chemical Products Ltd), Plot No. 50, 82, 83 & 84, KIADB, Humnabad, Bidar District, Karnataka.

Project proponents expressed that environmental clearances were obtained for 4 products (pesticide technical and formulation) vide MoEF letter dt: 20/07/2012. The industry proposes to add additional products as shown below;

| S. No. | Product Name | Proposed Capacity | MoEF cleared products | CFO issued products |
|--------|--------------------------------|-------------------|-----------------------|---------------------|
| | | TPA | TPA | TPA |
| 1. | Profenofos | 150.00 | Nil | 150 |
| 2. | Imidachloprid | 50.0 | Nil | 50 |
| 3. | Acetamiprid | 30.0 | Nil | 30 |
| 4. | Buprofugin | 50.00 | Nil | 50 |
| 5. | Fipronil | 25.00 | Nil | 25 |
| 6. | Chloropyrofos | 100.00 | Nil | 100 |
| 7. | Dichlorvos | 100.00 | Nil | 100 |
| 8. | Tricyclazole | 50.00 | Nil | 50 |
| 9. | Clodinofop | 25.0 | Nil | 25 |
| 10. | Cartap Hydrochloride Technical | 800.00 | 1000 | 800 |
| 11. | Indoxacarb Technical | 50.0 | 50 | 50 |


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|--------------|-------------------------|----------------|-----|-----|
| 12. | Acephate Technical | 220.00 | 250 | 220 |
| 13. | Monocrotophos Technical | 40.00 | 600 | 250 |
| 14. | Quizalofop | 30.00 | Nil | Nil |
| 15. | Bispyribac Sodium | 30.00 | Nil | Nil |
| 16. | DHPA | 30.00 | Nil | Nil |
| 17. | Diafenthiuron | 30.00 | Nil | Nil |
| 18. | Bifenthrin | 30.00 | Nil | Nil |
| 19. | DHPPA | 30.00 | Nil | Nil |
| 20. | Isoprophthiolane | 30.00 | Nil | Nil |
| Total | | 1900.00 | | |

Project proponent expressed that as per EIA Notification para 2 (iii) (iii) which states that "Any change in product - mix in an existing manufacturing unit included in Schedule beyond the specified range" requires EC since these products are within the specified range, the proponent claims that EC requirement does not arise.

Members of TAC expressed that any change in product mix requires EC as per Notification and in this case, the project proponent need to approach SEIAA for seeking EC. Issue of CFE may be considered after receipt of EC from the concerned authority.

ITEM NO:381: 06

Proposal for manufacture of furnace oil from waste plastic at Sy.No.103 & 105, Plot No.11 & 12, Hootagalli Industrial Area, Mysore by M/s Green Fuel.

Project proponent expressed that waste plastic from municipal solid waste and from other industries is collected, shredded and heated in presence of catalyst and the cracked condensate is collected. In this regard a shed is procured on rent basis with built up area of 10,000 Sq. ft.

TAC is of the opinion that the area of the plant appears to be inadequate for storage of raw material viz. waste-mixed plastic and storage of oil the same need to be looked into from safety point of view. The project proponent was advised to consult Indian Institute of Petroleum, Dehradun on the technical viability of the project and other clearances required.


Convener

ITEM NO:381: 07

Proposal for change in product mix ie., proposal for deleting certain approved product and addition and increase of certain products by **M/s.Acebright (India) Pharma Ltd**, Unit-2, Plot No.116/117, KIADB Industrial Area, Jigani Hobli, Anekal Taluk, Bangalore urban District - 562 106.

Project proponents expressed that their technical person is out of station and is unable to attend the TAC.

On verifying the details of the project, TAC opined that the project proponent need to approach SEIAA as the said project attracts EC as per EIA Notification 2006.


DR. JAI PRAKASH ALVA

Chairman

**Technical Advisory Committee
Karnataka State Pollution Control Board**



S.NANDA KUMAR

Chief Environmental Officer

**Convener, Technical Advisory Committee
Karnataka State Pollution Control Board**