MINUTES OF THE CFO COMMITTEE MEETING HELD ON 06.09.2018

at APPCB, Head Office, Pushpa Hotel Centre, Behind Sunrise Hospitals, Kasturibaipet, VIJAYAWADA

The following were present:

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<tr>
<th>S. No</th>
<th>Name of the Member</th>
<th>Member</th>
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<tbody>
<tr>
<td>1.</td>
<td>Sri. B.S.S. Prasad, IFS, Chairmain, A.P. Pollution Control Board, Vijayawada.</td>
<td>Chairman</td>
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<td>2.</td>
<td>Sri. Vivek Yadav, IAS, Member Secretary, A.P. Pollution Control Board, Vijayawada.</td>
<td>Member Secretary</td>
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<td>3.</td>
<td>Prof. K.V.Ramana Murthy, College of Pharmaceutical Sciences, Andhra University</td>
<td>Member</td>
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<tr>
<td>4.</td>
<td>Dr. A.V.V.S. Swamy, Department of Environmental Science, Acharya Nagarjuna University, Guntur.</td>
<td>Member</td>
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The Member Secretary welcomed the members of the CFO Committee and after introductory remarks on the items placed before the CFO Committee, the Committee took up items agenda-wise. The decisions of the CFO Committee on each case are recorded below.
**MINUTES OF THE CFO COMMITTEE MEETING HELD ON 06.09.2018**

**VISAKHAPATNAM ZONE:**

1. **M/s. Emmennar Pharma Pvt. Ltd., Unit – II (Formerly M/S. Emmennar Bio-Tech Private Limited (Unit - II), Plot No. 15, Jn Pharmacy (P), Parawada (M), Visakhapatnam district - CFO & HWA for expansion- Reg.**

   M/s. Emmennar Pharma Pvt. Ltd., Unit – II is involved in manufacturing of Bulk drugs.

   The industry obtained CFO & HWA vide order dt.10.05.2017 which is valid upto 31.03.2022. The industry obtained CFE (Expansion) vide order dt. 14.06.2018 to manufacture 15 products in 5 Groups (Group – A, B, C, D & E) with max production capacity of 23,010 Kgs/day (Group – E) on campaign basis i.e., any one group of products at a given time and captive power generation of 4.8 MW by using 30 TPH coal fired Boiler. Now the industry applied for CFO&HWA for expansion for a period upto 31.03.2022.

   The representative of the industry attended the meeting and informed the committee that they will provide digital pH meters with data logger facility by end of Sep-2018; achieving 95% to 97% recovery of solvents; provided storm water tank of capacity 10 KL to collect the first wash of rain water; treating the cyanide bearing effluents generated from Levetiracetam separately with 10 % Sodium Hypochlorite and achieving Cyanide concentration < 1.3 to 1.5 ppm in the pre-treated effluent and sending to CETP, Parawada; mixing organic waste with spent carbon and sending to cement plants under spent carbon hence the quantity of spent carbon generation is exceeding the permitted quantity;

   The Member Secretary instructed Board officials to write a letter to MoEF & CC for imposing penalty of Rs.4.0 Lakhs for improper disposal of hazardous waste as discussed in the Task Force review meeting.

   **Recommendations:**

   After detailed discussions, the committee recommended to issue CFO&HWA to the industry for a period upto 31.03.2022 the following condition along with other relevant conditions.

   1. The industry shall convert the 4 No of single stage scrubbers which are provided to control process emissions at production blocks into double stage scrubbers and shall be provided pH meters with data logger facility to scrubbers within one month.

2. **M/s. Sri Jayalakshmi Ferro Alloys Private Limited Pedabuntupalli (V), Gurla (M), Vizianagaram District - Change of Product Mix – Reg.**

   M/s. Sri Jayalakshmi Ferro Alloys Private Limited is a Ferro Alloy manufacturing unit. The industry has obtained CFO vide order dt: 12/05/2017 for production of Ferro Manganese: 4000 TPA; Silico Manganese: 2660 TPA and Ferro silicon: 1000 TPA by using 9 MVA furnace - I. The CFO is valid upto 30/04/2019.

   The industry also obtained CFO vide order dt: 22/09/2017 for production of Ferro Chrome: 23660 TPA for 9 MVA furnace-II. The CFO is valid upto 30/04/2019.

   The industry obtained CFE of the Board for change of product mix vide Order dt: 07/08/2018 for production of Ferro Manganese: 31,320 TPA (Or) Silico Manganese: 31320 TPA (Or) Ferro Manganese + Silico Manganese: 31, 320 TPA.

   Now, the industry applied for CFO & HWA for change of product mix for production of Ferro Manganese: 31320 TPA (Or) Silico Manganese: 31320 TPA (Or) Production of Ferro Manganese + Silico Manganese: 31320 TPA for a period upto 30.04.2019.

   The representative of the industry attended the meeting and explained the committee that they have connected online stack emission monitoring system to the APPCB website; installed 3 no. of flow meters for water consumption; the slag stored in the premises is Ferro Manganese slag and the same is being used as raw material in manufacturing of Silico Manganese; engaged 3rd party to carryout AAQM monitoring and submitting the analysis reports to RO, Vizianagaram; recently they have taken over the industry from the old management and requested the committee to waive off Bank Guarantee of Rs.8 Lakhs; developed greenbelt more than 33% in the plant premises;
**Recommendations:**
After detailed discussions, the committee recommended to issue CFO&HWA for change of product mix for a period upto 30.04.2019 with relevant conditions.


M/s. K.R.S. Pharmaceuticals Pvt. Ltd., Unit – II is a Bulk drug manufacturing unit. The industry has obtained CFO&HWA vide order dt.24.03.2017 to manufacture any 4 products out of 27 products permitted at any given time with a maximum production capacity of 722.23 Kgs/day. The CFO is valid up to 28.02.2022.

The industry has obtained CFE (Exp) vide order dated 14.08.2018 to manufacture any 4 products at any given time with a maximum production capacity of 2333.33 Kg/day. Now the industry has applied for CFO expansion for a period upto 28.02.2022.

The representative of the industry attended the meeting and explained the committee that they will maintain the data pertaining to spent solvent generation and its recovery; will provide storm water drains and collection tank to collect the first wash of rain water within 3 months; provided tank in tank system for collection of effluent at production block.

**Recommendations:**
After detailed discussions, the committee recommended to issue CFO&HWA for Expansion to the industry for a period upto 28.02.2022 with the following conditions along with other relevant conditions.

1. The industry shall maintain records of each solvent separately i.e., the quantity of each solvent used, recovered, reused the residues generated, mixed solvents generated and its disposal details. The information shall be submitted to the RO, Visakhapatnam on monthly basis.

2. The industry shall evaluate the performance of solvent recovery system for each streamwise and shall furnish plan of action to maintain the efficiency of solvent recovery more than 95% for each stream wise.

3. The industry shall isolate storm water drains from the process area completely and ensure that contaminated water from the process area is not mixed with storm water and the industry shall construct rainwater runoff tank for collection and storage of first flush storm water within 3 months.

4. The industry shall provide tank in tank system for collection of HTDS and LTDS effluents at production blocks immediately.

4. **M/s. United Port Services Private Limited, R.Sy.No.312, Kakinada Deep Water Port, ADB Road, Kakinada, East Godavari District - CFO & HWA for expansion- Reg.**

M/s. United Port Services Private Limited is a storage Terminal and involved in storage and handling of the chemicals and petroleum products.

The facility is having valid CFO&HWA for storage and handling of different chemicals and petroleum products vide order dt.04.12.2014. The consent is valid up to 31.05.2017. Subsequently, the consent was renewed on 06.05.2017 upto 31.05.2022 through auto renewal system.

The facility obtained EC vide Order Dt.17.05.2018 for Expansion of storage facility by installing 05 Nos of storage tanks of total storage capacity 25050 KL. The facility also obtained CFE of the Board vide order dt.22.06.2018.

Now, the facility applied for CFO (Expansion) for 5 Nos of storage tanks to handle Class – C products i.e., High Speed Oil, Furnace Oil, Marine Fuel Oil, HFHS, Marine Gas Oil, Base Oil, Brine, Sulphuric Acid, Bio-diesel for a period upto 31.05.2022.
MINUTES OF THE CFO COMMITTEE MEETING HELD ON 06.09.2018

The representative of the terminal attended the meeting and explained the committee that they have prepared Oil Spill Disaster Contingency Plan (OSDCP) for Kakinada Terminal; monitoring the VOCs and Hydro Carbons in the premises regularly; and also informed that there is a proposal for providing hooter system for the proposed and existing tanks.

**Recommendations:**
After detailed discussions, the committee recommended to issue CFO&HWA for expansion to the terminal for a period upto 31.05.2022 with relevant conditions.

5. **M/s. Verdant Life Sciences Pvt. Ltd., Plot No. 55, Jawaharlal Nehru Pharma City, Parawada, Visakhapatnam District- CFO & HWA for expansion- Reg.**

The industry is a Bulk drug manufacturing unit. The industry obtained CFO & HWA of the Board vide Order dt.19.01.2017 valid up to 31.10.2021 to manufacture any 7 products (from Group A or Group B) at any given point of time with a maximum production capacity of 5506.66 kg/day.

The industry has obtained CFE (Expansion) vide order dated 07.08.2018 to manufacture 27 products including validation products with maximum production quantity of 5500.0 Kg/Day (165.0 TPM).

Now, the industry applied for CFO for expansion capacities for a period upto 31.10.2021.

The representative of the industry attended the meeting and explained the committee that they have procured MIs from M/s. Mylan Laboratories Ltd., to use as raw material in the process; having operational constraints to cover the LTDS & HTDS effluent storage tanks during loading and unloading.

**Recommendations:**
After detailed discussions, the committee recommended to issue CFO&HWA for expansion to the industry for a period upto 31.10.2021 with relevant conditions.

**VIJAYAWADA ZONE:**

6. **M/s. Dinakara Life Sciences Private Limited, Plot No. 80 to 85, Industrial Park, Jaggaiahpet(M), Krishna District – CFO for expansion – Reg.**

M/s. Dinakara Life Sciences Private Limited involved in manufacturing of Bulk drug & intermediates. The industry obtained CFO & HWA to produce 5 drug intermediates vide order dt.28.01.2018 valid upto 31.01.2019. The industry obtained CFE for expansion to manufacture 17 nos. of products (worst combination of any 4 products with production capacity of 20 TPM at any given point of time) with a production capacity of 20TPM (240TPA).

Now, the industry applied for CFO&HWA for expansion to manufacture the products as permitted in CFE Order dt. 21.06.2018 for a period upto 31.07.2023.

The representative of the industry attended the meeting and explained the committee that the equipment pertaining to MEE & magnetic flow meters are arrived at site and civil works are under progress and the same will be completed by December 2018; issued purchase order for VOC analyser with recording facility and pH meter with recording facility; constructed shed for storage of chemical drums; planted 200 No. of saplings in the premises and proposed to takeup further plantation in the premises.

**Recommendations:**
After detailed discussions, the committee recommended to issue CFO&HWA for expansion to the industry for a period upto 31.07.2023 with the following conditions along with other relevant conditions.

1. The industry shall commission ZLD system consisting of stripper, MEE, ATFD system with condenser and Biological ETP, RO plant for treatment and disposal of effluents by by the end of Dec,2018 as committed during the meeting.

2. The industry shall provide magnetic flow meters with totalisers at the inlet and outlet of Stripper, MEE, RO Plant and ETP after installation.

![Signature of Member Secretory]

![Signature of Chairman]
3. The industry has to provide detoxification facility for detoxification of container &
  container liners at the specified covered platform with dyke walls within one month.
4. The industry shall provide recording facility to the VOC analyzer within one month.
5. The industry shall provide auto recording facility to the online pH meter to the two
  stage scrubber within one month.
6. The industry shall develop and maintain greenbelt atleast in an area of 33% of the total
  area.

7. M/s. Andhra Medi Pharma India (P) Ltd, S.No.263/1, 2A, 2C, 3A, 3C, 4, 5, 6A, 6C, 7A, 7C,
   8, Veeravalli (V), Bapulapadu (M), Krishna District – CFO for Expansion – Reg.
   The industry is a Bulk Drug manufacturing unit. The industry obtained CFO&HWA of the
   Board vide order dt. 04.12.2015 valid upto 30.09.2018 to manufacture certain bulk drugs
   (2 products in Phase-I & 6 Products in Phase-II) with maximum production capacity of 1450
   kg/day.
   The industry obtained CFE of the Board for change of product mix vide order dt. 21.06.2018
   to manufacture certain bulk drugs in two groups (A&B) with maximum production capacity
   of 1740 kg/day. As per CFE order, the industry is permitted to manufacture only one
   group of products either Group –A or Group- B at any point of time.
   Now the industry applied for CFO& HWA for change of product mix as permitted in CFE
   Order dt. 21.06.2018 for a period of 5 years i.e. upto 31.07.2023
   The representative of the industry attended the meeting and informed the committee that
   at present they are manufacturing only one product i.e., Glucosamine HCl; no effluents are
   generated from during the production of Glucosamine HCl; only boiler blow down and
   cooling blow down and washing effluents are evaporated in post evaporated system;
   further the representative informed that they will inform the Board as and when they
   manufacture Group-B products; developed greenbelt more than 33% of the total area.
   **Recommendations:**
   After detailed discussions, the committee recommended to issue CFO&HWA for change of
   product mix to the industry for a period upto 31.07.2023 with relevant conditions.

8. M/s. Paraskati Cement Industries Ltd., Jettipalem (V), Rentachintala (M), Guntur
   District - CFO for operation of Power plant from Waste Heat Recovery- Reg
   The industry is a Cement manufacturing unit and obtained CFO & HWA vide order dt
   22.08.2015 to manufacture Cement (OPC & CPC) of 1.26 Mil Million TPA (3818 TPD), which
   is valid upto 31.10.2020. The industry obtained CFE vide order dt 22.11.2017 for
   establishment of Power plant of 6.85 MW capacity from Waste Heat from Kiln pre-heater &
   Cooler gases of the cement plant.
   Now, the industry applied for CFO for operation of the Waste heat recovery based power
   plant for a period upto 31.10.2020.
   The representative of the industry attended the meeting and informed the committee that
   they developed 39% greenbelt in the premises; provided permanent water sprinklers along
   the roads, coal storage yard ; provided closure sheds for storage of coal; upgraded APCE to
   meet the revise emission norms; constructed concrete walls around the clinker, bauxite and
   iron ore storage sheds; and additional coal shed will be completed by October, 2018.
   **Recommendations:**
   After detailed discussions, the committee recommended to issue CFO for operation of the
   Waste heat recovery based power plant for a period upto 31.10.2020 with relevant
   conditions.
The industry involved in manufacture of Cellulose based products and APIs. The industry vide order dt. 15.02.2016 obtained 1st CFO & HWA in the year 2016 to manufacture cellulose based products and APIs with validity upto 31.12.2016. In the CFO order, the Board insisted the industry to dispose the effluent through ZLD system consisting of MEE, ATFD, RO, biological ETP etc. Further the industry has obtained CFO & HWA order dt: 17.01.2017 of the Board to manufacture only cellulose based products i.e Phase- I products with validity upto 31.12.2021. In the CFO the same effluent treatment and disposal option was mentioned. i.e ZLD system consisting of MEE, ATFD, RO, biological ETP etc.

But the industry has not provided RO plant followed by MEE & ATFD to meet ZLD & also not provided any system to segregate the HTDS & LTDS effluents. Instead the industry provided ETP consisting of Neutralisation Tank, Aeration tanks (3 Nos), Tube settler followed by DAAF, sand filter and Carbon filter, Spray Electrical Dehydrator to treat the effluents. The industry is operating the de-hydrator with MVR technology (Mechanical Vapor Recompression) at a vacuum of 490 mm Hg, which facilitates evaporation of water at lower temperature. The industry is using the de-hydrator condensate ~ 40 KL/day for greenbelt within the premises and The concentrate from the Dehydrator has to be disposed either through ATFD.

Now, the industry vide lr. dt. 05.09.2018 stated the following:

- The industry will manufacture Phase – I products only. The wastewater generated from the process does not contain organics and condensate generated from dehydrator, ATFD does not also contain organics. Hence, stripper and Biological ETP and RO are not required.

- Ethanol is being used for the production of CCS for removal of process impurities and the same will recovered with distillation column and reused.

- Installed primary treatment for neutralization and equalization, dehydrator in place of MEE because of better efficiency, Agitated Thin Film Drier (ATFD) to meet Zero Liquid Discharge (ZLD) system. The condensate generated from dehydrator and ATFD will be used in utilities.

The industry requested to issue amendment to CFO for modification in treatment and disposal for HTDS and LTDS as “dehydrator, ATFD and condensate reuse” and also in schedule B condition no. 3 and 4.

The representative of the industry attended the meeting and informed that they are manufacturing only cellulose based products i.e Phase – I products and not manufactured APIs since inception; ATFD will be provided to dispose the concentrate generated from dehydrator; stripper is not required as there will not be any organics in the process effluents generated from the cellulose products; requested the Board to modify the treatment and disposal option of effluent and to delete the conditions nos. 3 & 4 stipulated in schedule B.

**Recommendations:**
After detailed discussions, the committee recommended to issue an amendment to the existing CFO & HWA order dt. 17.01.2017 for the treatment and disposal option of effluent and for the conditions nos. 3 & 4 stipulated in schedule B as follows.

**Existing:**
(i) Out lets for discharge of effluents:
MINUTES OF THE CFO COMMITTEE MEETING HELD ON 06.09.2018

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<th>S No.</th>
<th>Effluent Description</th>
<th>Quantity</th>
<th>Disposal</th>
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</table>
| 1     | HTDS - Process, washings & Scrubber effluent etc. | 30.9 KLD | • Shall be stripped off for organics recovery.  
• Stripper condensate to distillate for separation of organic compounds followed by disposal to cement plants for co-processing & distilled effluents shall be routed to ETP.  
• Stripped effluents for forced evaporation in MEE followed by ATFD.  
• ATFD salts to TSDF. |
| 2     | LTDS - Boiler Blow down, Cooling Tower blow down | 9.0 KLD | • Treated effluents from ETP shall be filtered in the RO-1 & II.  
• RO permeate to reuse and RO reject to MEE & ATFD for forced evaporation. |
| 3     | Domestic effluent    | 3.7 KLD  | Septic tank followed by soak pit. |

Amendment:

(i) Out lets for discharge of effluents:

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<tr>
<th>S No.</th>
<th>Effluent Description</th>
<th>Quantity</th>
<th>Treatment and mode of disposal</th>
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</table>
| 1     | HTDS - Process, washings & Scrubber effluent etc. | 30.9 KLD | • Shall be treated in ETP.  
• The treated water shall be evaporated in Dehydrator.  
• The condensate from Dehydrator shall be re-used for utilities.  
• The concentrate from Dehydrator shall be evaporated in ATFD  
• Condensate from ATFD shall be treated in ETP.  
• ATFD salts to TSDF and shall achieve ZLD |
| 2     | LTDS - Boiler Blow down, Cooling Tower blow down | 9.0 KLD  | Septic tank followed by soak pit. |
| 3     | Domestic effluent    | 3.7 KLD  | Septic tank followed by soak pit. |

Condition No.3:

Existing:

"3. The industry shall provide MEE followed by ATFD to meet ZLD, as the industry is generating liquid concentrate from the Spray Electrical Dehydrator and not meeting the ZLD within two months and report compliance to RO: Nellore."

Amendment:

"3. The industry shall use condensate from Dehydrator for utilities only and shall not use for on land for irrigation under any circumstances. The industry shall provide ATFD immediately for evaporating the concentrate generating from Dehydrator to meet ZLD"

Condition No.4:

Existing:

"4. The industry shall install and operate RO systems in two months"

Amendment:

"condition is deleted"
MINUTES OF THE CFO COMMITTEE MEETING HELD ON 06.09.2018

The committee also recommended to direct the industry to stop the production till they provide ATFD. The committee further recommended to direct the EE RO Nellore to analyze effluent sample for ascertaining the requirement of stripper and to take performance of modified ZLD system and submit the compliance.

RATIFICATION CASES


The industry is involved in production of Sponge Iron. The industry has applied for renewal of CFO & HWA for a period of five years i.e., upto 31.12.2022. The industry has not complied the following non-compliances of conditions stipulated in the CFO & HWA order dt.27.05.2016 and Task Force directions dt.17.03.2017:

1. The industry has not provided water meters for assessing the consumption for cooling tower makeup, boiler feed, ash handling and dust suppression, gardening and domestic purposes.
2. The industry has not provided water meters for assessing waste water generated from cooling tower makeup, boiler blow down and DM plant.
3. The industry has not provided continuous online stack monitoring systems to the stacks attached to the Kilns.
4. The industry shall provide 04 Nos., of AAQMs stations in the core zone as well as buffer zone for RSPM, SPM, SO2, NOX monitoring in consultation with the RO, Kurnool within 2 months.
5. The industry has not provided interlocking system within 02 months in such way that feeding to the kiln shall be stopped in case of opening of emergency cap provided at after burner chamber.
6. The industry has not provided activation recorder for emergency cap opening within one month.
7. The industry has not provided individual energy meter to all the air pollution control equipments within one month and not maintaining records.
8. The industry has not provided closed storage facilities for storage of raw material and product, char and dolochar within 3 months.
9. The industry has dumped Iron ore fines, Char & dust collector from APCE in the open area within the premises causing fugitive dust emissions during wind blows.
10. The industry not provided cladding at roof of the product house within 15 days.
11. The industry not provided permanent water sprinklers all along the internal roads, raw material storage yards, dolochar storage yards within one month.
12. Fugitive dust emissions were observed from the cooler discharge, intermediate bin, transfer points, etc.,. The entire plant around the raw material handling, Kiln, product separation and storage areas, internal roads were covered with fine dust of 2 – 4 inches causing fugitive dust emission during wind blows.
13. During inspection of Board officials it was observed that, the Electrodes of the ESP provided to the DRI kiln of capacity 100 TPD are got damaged and the industry is letting out the emission through ABC cap causing air pollution in the surrounding area.
14. The industry has not provided concrete or asphalt the internal roads and work area within 02 months.
15. Not developed green belt in 33% of the total area of the plant in the premises.

Recommendations:

The Committee noted and ratified the rejection of CFO to the industry.

MEMBER SECRETARY

CHAIRMAN