MINUTES OF THE CFO COMMITTEE MEETING HELD ON 04.09.2019

At APPCB, Head Office, Pushpa Hotel Centre, Behind Sunrise Hospitals,
Kasturibapet, VIJAYAWADA

The following were present:

<table>
<thead>
<tr>
<th>S. No</th>
<th>Name of the Member</th>
<th>Member</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Sri. B.S.S. Prasad, IFS, Chairman, A.P. Pollution Control Board, Vijayawada.</td>
<td>Chairman</td>
</tr>
<tr>
<td>2.</td>
<td>Sri. Vivek Yadav, IAS, Member Secretary, A.P. Pollution Control Board, Vijayawada.</td>
<td>Member Secretary</td>
</tr>
<tr>
<td>3.</td>
<td>Prof. R. Padmasree, Department of Chemical Engineering, AU College of Engineering (A), Andhra University, Visakhapatnam.</td>
<td>Member</td>
</tr>
</tbody>
</table>

The Chairman 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 04.09.2019

1. M/s. Atchutapuram Effluent Treatment Ltd (M/s. AETL), APSEZ - 1.5 MLD CETP (Phase - 1), Atchutapuram, Visakhapatnam District - CFO & HWA (first time) – Reg.

The Board vide order dated 03.03.2012 issued CFE for establishing multi product SEZ with basic infrastructure, environmental infrastructure and common infrastructure like roads, power supply, water treatment and supply, CETP, solid waste collection, storage and disposal facilities and marine outfall etc., to cater the needs of different types of industries with a valid period of 5 years i.e., upto 02.03.2017 and extension of CFE is given upto 02.03.2019 and further extended upto 02.03.2020.


Now the industry applied for CFO & HWA for first time of the Board by paying five years of CFO i.e., up to 31/07/2024. The Committee noted that the following non compliances were observed:

1. Not completed commissioning of CETP and not completed marine discharge pipeline. The total marine disposal pipe line is of length 3.5 KM (off shore) and 2.3 KM (on shore). APIIC has completed off shore line of 3.5 KM and only 0.829 KM of on shore length is completed. The APIIC has to complete the balance on shore length 1.471 KM.

2. Not provided pipelines from the member units to the CETP.

3. Not installed Continuous on-line effluent monitoring system before discharging into the sea through the marine outfall. It should be connected to the website of APPCB and CPCB as per the directions of CPCB.

4. Not installed bag filter to 14 TPH coal fired boiler; coal storage shed; and flow meters at inlet & outlet of CETP.


6. The facility provided an MEE of 22.5 KL/hr capacity to treat HTDS effluent. Thus the facility can handle only 450 KLD of HTDS effluent based on the operation of 20 hr/day. But the facility applied CFO for 1125 KLD of HTDS effluents.

7. The facility provided ETP to treat 375 KLD of LTDS effluents. If 450 KLD HTDS effluent is given as feed to the MEE, almost equal quantity of condensate will be generated. Accordingly, condensate generation will be 450 KLD. But the facility has provided biological ETP of only 375 KLD. Thus the CETP could not accept any LTDS effluent from the member units.

8. Not submitted the design parameters of the CETP so as to stipulate the inlet standards. The developer of APSEZ shall stipulate the allowable maximum quantity of waste water by the member units. But it was not done by the developer.


10. Not provided primary treatment units (such as bas screen, grit trap, oil & grease trap, equalization tank, flash mixing tank, sludge dewatering system), stripper and spray drier for treatment of HTDS effluent. The facility provided only MEE.

11. The CETP is located in an area of 11.36 Ac. The facility shall develop greenery in an area of 3.75 Ac to achieve 33% greenery. But they have developed greenery in an area of 1.5 Ac only.

The representative of the industry attended the meeting and informed the following:

1. Discharge pipeline is the responsibility of APIIC. Marine Discharge pipeline work is in progress and will be completed within 30 days i.e., end of November, 2019. After

MEMBER SECRETARY

CHAIRMAN
completion of marine discharge pipeline they will start operations.

2. Transportation of wastewater to CETP from industries is by tankers fitted with GPS and uniform color tankers within the Atchutapuram SEZ and de-notified area.

3. Online effluent, emission and web camera will install as per the CPCB protocol before starting operations.

4. The industry also informed that they have constructed 50 meter height of chimney to 14 TPH coal fired boiler and installed Bag Filter to control flue gas emissions. Coal Yard is completed.

5. The total sludge / salt generation is about 90 MT/day and the same will be disposed to TSDF (Ramky).

6. In the 1st phase, MEE is installed for 450 KLD. The remaining 675 KLD will be installed in 2nd phase.

7. The facility is designed for 1.5 MLD out of which HTDS Condensate is 1.125 MLD and LTDS from industries is 0.375 MLD. LTDS wastewater treatment for 1.5 MLD is completed.

8. Design parameters are as follows:

<table>
<thead>
<tr>
<th>HTDS</th>
<th>pH</th>
<th>5.5 - 9.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSS</td>
<td></td>
<td>&lt; 600 mg/l</td>
</tr>
<tr>
<td>TDIs</td>
<td></td>
<td>&gt; 12,000 mg/l</td>
</tr>
<tr>
<td>Temperature 'C</td>
<td></td>
<td>&lt; 45°</td>
</tr>
<tr>
<td>Oil &amp; Grease</td>
<td></td>
<td>&lt; 50</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LTDS</th>
<th>pH</th>
<th>5.5 - 9.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSS</td>
<td></td>
<td>&lt; 400 mg/l</td>
</tr>
<tr>
<td>TDIs</td>
<td></td>
<td>&lt; 12,000 mg/l</td>
</tr>
<tr>
<td>Temperature 'C</td>
<td></td>
<td>&lt; 45°</td>
</tr>
<tr>
<td>Oil &amp; Grease</td>
<td></td>
<td>&lt; 20</td>
</tr>
<tr>
<td>COD</td>
<td></td>
<td>&lt; 8000 mg/l</td>
</tr>
<tr>
<td>Ammonical Nitrogen as N</td>
<td></td>
<td>&lt; 50 mg/l</td>
</tr>
</tbody>
</table>


10. Installed primary treatment units i.e., collection sump, screen chamber, equalization tank, flash mixer, clari-floculator, aeration tank, secondary clarifier, guard pond for treatment of low TDS effluents

11. Will develop the Green belt 33% within 3 months i.e., December, 2019.

**Recommendations:**

After detailed discussions on verification report of the EE, RO: Visakhapatnam, agenda and submissions of the representatives of the industry, the committee recommended to issue CFO & HWA (fresh) order to the industry by stipulating the following conditions

1. The industry shall start collection of effluent from member units only after completion of marine outfall pipeline.

2. The facility shall install online emission, effluent and web camera as per CPCB guidelines.

3. The industry shall maintain necessary arrangements to carry out Bio assay test continuously for treated effluent before the marine discharge immediately.


The Board vide order dated 01.12.2011 issued CFE to manufacture Ferro Manganese – 2,38,802 TPA (or) Silico Manganese – 3,35,399 TPA and Manganese Ore Sinter – 3,00,000 TPA with plant configuration Ferro Manganese (or) Silico Manganese – 16 x 22.5 MVA and Manganese Ore Sinter – 0.3 MTPA. The Board issued CFO to manufacture Ferro Manganese (or) Silico Manganese – 2,38,802 TPA(either or both shall not exceed 2,38,802
TPA) and Manganese Ore Sinter - 3,00,000 TPA is valid upto 31.12.2022. Now, the industry applied for CFO expansion for Ferro Manganese (or) Silico Manganese - 2,38,802 TPA to Ferro Manganese - 2,38,802 TPA (or) Silico Manganese - 2,92,000 TPA (after expansion).

The Committee noted the following non compliances:

1. Storing the raw material in open yard.
2. 4 no of sprinklers at Raw material yard, 4 nos at Raw material ground hoppers.
3. The average production of Silico Manganese (19978.574 TPM) is exceeding the permitted quantity (19,900.2 TPM)
4. About 52,495 Tons of slag was stored in the premises and Bag filter dust was stored in the premises openly.
5. Housekeeping to be improved on the roads, at the Raw material yard, Bag filter dust storage area.
6. Not completed total internal roads.

The representative of the industry attended the meeting and informed the following:

1. Constructed 2 no of sheds for storage of Raw material and storing raw materials in closed sheds.
2. Installed 9 No of sprinklers at Raw material yard,
3. Annual average production is less than permitted quantity.
4. Out of 52,495 Tons of slag, 5425 MT stored within the premises and remaining shifted to KHIZAN POWER LTD site and GCP Dust will be used in the Sinter plant to make sinter. Presently cover with tarpaulins.
5. Will improve the House Keeping.
6. Will complete the internal roads within 3 months i.e., end of December.

Recommendations:

After detailed discussions on verification report of the EE, RO: Visakhapatnam, agenda and submissions of the representatives of the industry, the committee recommended to issue CFO & HWA expansion order to the industry by stipulating the following conditions:

1. The industry shall store raw materials in the closed shed only.
2. The industry shall complete internal roads within 3 months i.e., end of December.
3. The industry shall maintain good housekeeping.

3. M/s. Kanoria Chemicals & Industries Limited, Plot Nos. 50 & 51, Block-C, APIIC, Naidupeta Industrial Park - Naidupet, Menakur Village, Naidupet Mandal, SPSR Nellore District - 1st CFO &HWA.

The Board issued CFE to M/s. Kanoria Chemicals & Industries Limited, Plot Nos. 50 & 51, Block -C, APIIC, Naidupeta Industrial Park- Naidupet, Menakur Village, Naidupet Mandal, SPSR Nellore District on 14.08.2018. Now, the industry applied for 1st CFO & HW Authorization and paid CFO fee for 5 years.

The industry applied for CFO for manufacturing Formaldehyde to the tune of 11160 MTPA and to Produce Electric Power of 800 KWH from Waste Heat Recovery Boiler and informed that production of Phenolic Formaldehyde/ Urea Formaldehyde/Melamine Formaldehyde/ Melamine Urea Formaldehyde Resins in Phase - II.

The industry provided ETP of 150 KLD capacity and ZLD plant with RO (7.5 m³/hr), MEE (16 m³/hr) & ATFD (29 Kg/hr) for treatment of trade effluents generated from the
blow downs and from regeneration of softeners and DM plants. Treated trade effluents are reused. The total water consumption is 900 KLD for both the phase I & II, out of which 700 KLD is fresh water requirement and 200 KLD is met from treated trade effluents. For Phase-I, the total waste consumption is 570 KLD, out of which 427 KLD is fresh water and 143 KLD is recycled water. The industry is generating 156 KLD of from Phase-I unit.

The industry has installed 3 reactors provided with 3 Nos. of Platinum Bed Catalytic Converters as Air pollution control equipment followed by 25mts stack.

The issue of 1st CFO & HW Authorization to the industry was placed before the committee as agenda along with the ROs inspection report. The representative of the industry has attended the meeting on the said date and informed to the committee that they will provide Scrubbing to Reactor vents and will provide cooling water circulation in place of Chilled brine circulation to the vents of Solvent recovery unit.

The committee reviewed the non-compliance of CFE conditions with the representatives of the industry. The committee to submit action plan with timeline for complying with non-compliance CFE conditions in 3 days.

Recommendations:

After the detailed discussion, the committee recommended to issue 1st CFO&HW Authorization to M/s. Kanoria Chemicals & Industries Limited, SPS Nellore District for a period of 5 years i.e. upto 31.08.2024 with certain conditions.


The industry is consuming 78.2 KLD of water and generating 21.51 KLD of HTDS effluents and 16.26 KLD of LTDS effluents, in total generating 37.77 KLD of trade effluents. The industry is disposing the same to CETP of M/s. KEPL, Kondapalli.

The industry is storing the Trade effluents in unused FE tanks and other 10KL & 20KL tanks, out of which 10KL is underground tank.

Now the industry applied for CFO&HWA (CPM) of the Board.

The industry representative attended the meeting and requested the committee to incorporate by-products as per CFE amendment order dated 17.07.2019. The committee noted that the industry is using handy equipments for VOC analysis and using underground tank of 10KL capacity for collection of HTDS effluents.

Recommendations:

After the detailed discussion, the committee recommended to issue 1st CFO&HW Authorization to M/s. Inchem Laboratories Pvt. Ltd., Krishna District for a period upto 28.02.2023 in line with CFE amendment order dated 17.07.2019 with certain conditions.

5. M/s. Sree Rayalaseema Hi-Strength Hypo Limited (M/s. SRHHIL) (Unit-I), Sy. No. 16, 17, 23, 67 & 68, Gondiparla (V), Kurnool (M), Kurnool District - Requested for extension of time for dismantling the existing lagoons - Reg.

M/s. Rayalaseema Hi-Strength Hypo Limited (Unit-I), Kurnool District is engaged in manufacture of Sulphuric Acid and its downstream products such as Chloro Sulphuric Acid, Oleum, Calcium Hypochlorite and Stable Bleaching Powder etc.

The Board directed to dismantle the lagoons after commissioning product recovery
system by 03.09.2017 vide CFO&HWA order dated 03.09.2015.

However, the industry has not complied with the above mentioned CFO condition and the Board directed the industry to empty the existing lagoons and dismantle the same by 05.08.2019 vide Task Force directions dated 24.09.2018.

Again the industry has not complied the task Force direction dated 24.09.2018 and now requesting to extend the permission to retain the existing lagoons for a period of 05.08.2020, stating that commissioning of alternative technologies to recover chemicals from HTDS effluents may take 8-10 months time.

But the industry has not submitted time bound program to commission the said implementation of alternative technology to recover chemicals from HTDS effluents.

The representative of the industry has not attended the meeting inspite of communicating them to attend.

The industry vide mail dated 03.09.2019 submitted that “based on proposal submitted by M/s. National Chemical Laboratory, Pune and detailed engineering carried out by M/s. Chem Process Systems Pvt. Ltd., Ahmedabad, they commit that they have ordered all the plant and machinery equipments required for recovery of calcium chloride, sodium chloride and calcium sulphate from high TDS effluent and we will commission the plant before 30th April, 2020”.

The committee noted that the industry has not complied with the board directions vide CFO&HWA order dated 03.09.2015 and Task Force order dated 24.09.2018.

Recommendations:

After detailed discussions on the agenda and report of EE, RO: Kurnool, the committee recommended to accord permission to the industry with a direction that “the industry shall expeditiously empty the lagoons and shall dismantle the same by 05.08.2020” and the industry shall commission the plant for recovery of calcium chloride, sodium chloride and calcium sulphate from high TDS effluent by 30th April, 2020 as committed vide email dated 03.09.2019.


M/s. Bharathi Cement Corporation Pvt Ltd (Cement Plant), YSR Kadapa District is a Cement Manufacturing Unit.

The Board issued CFO&HWA to the industry on 22.08.2015 for production of Cement (OPC, PPC & PSC) - 5.0 MMTPA with validity upto 30.09.2020.

The Board issued CFE (Expansion) to the industry on 05.02.2019 for Waste Heat Recovery Power Plant (WHRPP) of 9.5 MW.

Now, the industry applied for CFO to set up Waste Heat Recovery Based Power Plant of capacity 9.5 MW for a period upto 30.09.2020.

The representative of the industry has not attended the meeting inspite of communicating them to attend.

The committee noted that the industry proposed to use about 315 KLD of additional water consumption for the WHRP Plant and there is no waste water generation from the proposed activity.

Recommendations:

After detailed discussions on the agenda and report of EE, RO: Kadapa, the committee recommended to issue CFO to the industry for a period upto 30.09.2020 with certain conditions.