AGENDA ITEM NO : Dt: 10.2019

M/s. Government General Hospital, Raja Ramohan Roy Road, Kakinada, East Godavari District - CFO (Fresh) & BMW Authorization (Renewal) - Reg.

M/s. Government General Hospital, East Godavari District - Applications for Water and Air Consents & HW Authorization for CFO (Fresh) & BMW Authorization (Renewal).

The details of the Health Care Facility (HCF) as reported by the RO, Kakinada is as follows:

1. **Line of Activity:**
   This is a Health Care Facility with a project cost of Rs. 103.664 Crores under Red-Haz category.

2. **EC Status:** ----

3. **CFE Status:** ----

4. **CFO, HWA & BMWA Status:**
   Authorization No.APCPB/BMWA/44028/HYD/2006, Dt.31.07.2006 valid upto 31.07.2007 for 1065 beds. Now, the HCF applied CFO & HWA (First time) and BMWA (Renewal).

5. **Details of Present CFO application:**
   The industry has applied for Water and Air Consents & HW Authorization for a period upto 31.01.2021.

   **Date of receipt of CFO application at RO:** 20.09.2019
   **Date of receipt of additional information at RO:** --
   **Date of RO inspection:** 25.09.2019
   **Date of forwarding of consent verification reports at Head Office:** 28.09.2019
   **Date of commissioning of HCF:** 1895

   **Project Cost:** Rs.103.664 Crores

   **Fee details:**
   1. Total amount: Rs.1,50,012/- vide DD No.543087, Dt.20.09.2019for current year i.e. upto 2019 to 2020.
   2. The HCF has to pay the back log fee i.e. from 2010 to 2019 for an amount of Rs.13,50,000/- is due to the Board.
   4. Balance fee (CFE): The HCF has to pay the balance CFE (Rs.3,00,000/-)
   5. Due to be paid is Rs.16,50,000/-

   **S.No**  | **Capital investment in Cr of Rs.** | **Category of the HCF** | **Fee to be paid under one Act** | **Total fee payable under Air & Water Acts** | **Amount paid** | **Remark**
   --- | --- | --- | --- | --- | --- | ---

   **CFE Backlog Fee:**
   1. **One Time Payment for CFO on 103.664 Crores**
      Red | Rs.1,50,000/- | Rs.3,00,000/- | ----

   **CFO Fee:**
   1. **2010-19 (Rs.103.664 Cr.)**
      Back log fee
      Red | Rs.75,000/- | Rs.1,50,000 x 9 = Rs.13,50,000/- | ----
   2. **2019-20 (Rs.103.664 Cr.)**
      Current year
      Red | Rs.75,000/- | Rs.1,50,000/- | Rs.1,50,000/-
      i.e. upto 31.07.2020 | ----

   **BMW Fee**
   1. **2019-20 (1065 beds)**
      ----
      1065 x 50 = Rs.53250 | 1065 beds @ Rs.50 per bed x 1 yr. = Rs.53,250/- | Rs.53,250/-
6. Raw materials:
This is a Health Care Facility with 1065 Bedded Capacity

7. Products & By Products:
Hospital with 1065 Number of Beds.

8. Water consumption.

<table>
<thead>
<tr>
<th>S.No</th>
<th>Purpose</th>
<th>Consented quantity as per CFE dated</th>
<th>Consented quantity as per CFO dated</th>
<th>Applied as per application</th>
<th>Actual consumption</th>
</tr>
</thead>
<tbody>
<tr>
<td>1)</td>
<td>Lab &amp; Washing</td>
<td>--</td>
<td>---</td>
<td>40.0 KLD</td>
<td>----</td>
</tr>
<tr>
<td>2)</td>
<td>Domestic</td>
<td>--</td>
<td>----</td>
<td>680.0 KLD</td>
<td>----</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>--</td>
<td>----</td>
<td>720.0 KLD</td>
<td>----</td>
</tr>
</tbody>
</table>

9. Waste Water Generation:

<table>
<thead>
<tr>
<th>S. No</th>
<th>Source</th>
<th>Consented quantity as per CFE</th>
<th>Consented quantity as per CFO</th>
<th>Applied as per application</th>
<th>Actual generation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1)</td>
<td>Laboratory (Washings)</td>
<td>---</td>
<td>---</td>
<td>36.0 KLD</td>
<td>----</td>
</tr>
<tr>
<td>2)</td>
<td>Domestic</td>
<td>---</td>
<td>---</td>
<td>580.0 KLD</td>
<td>---</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>----</td>
<td>----</td>
<td>616.0 KLD</td>
<td>----</td>
</tr>
</tbody>
</table>

a) Out let - as per CFE order dated :Nil
b) ETP Details & Mode of Disposal:

I. Outlet No. 1
a. Stream Details: Lab & Washings
b. Treatment unit's details with dimensions and capacity
   The HCF has proposed to construct of 2 Nos. of STP of capacity 1 x 650 KLD & 1 x 150 KLD.
   The HCF submitted EMP report, the proposed 650 KLD STP consisting of Equalization tank, MBBR Tank-1 & 2, Settling tank, Filter Feed Tank, Anoxic Tank, Sludge Holding tank, Pump Room & Treated Water Tank.
   150 KLD STP consisting of Equalization tank, MBBR Tank-1 & 2, Settling tank, Filter Feed Tank, Anoxic Tank, Sludge Holding tank, Pump Room & Treated Water Tank.
c. Point of disposal
   Lab & Washings presently discharging in to drain after disinfection.

II. Outlet No. 2
a. Stream Details: Domestic
b. Treatment unit's details dimensions and treatment capacity
   ---
c. Point of disposal
   Septic tank followed by soak pit & Discharging in to outside municipal drain.

10. Air pollution:

<table>
<thead>
<tr>
<th>S. No</th>
<th>Source of Pollution Note: Capacity should be mentioned for each unit</th>
<th>Control equipment provided</th>
<th>Flow rate in m3/hr.</th>
<th>Stack height in Mts - above GL</th>
<th>Limiting Standard prescribed by Board</th>
<th>Board Monitoring Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2 x 125 KVA, 1 x 75 KVA, 1 x 50 KVA, 1 x 40 KVA &amp; 1 x 10 KVA DG Sets</td>
<td>Acoustic enclosure</td>
<td>----</td>
<td>03 mtr. Each</td>
<td>---</td>
<td>---</td>
</tr>
</tbody>
</table>
a) Emissions from chimneys:

<table>
<thead>
<tr>
<th>Chimney No.</th>
<th>Description of Chimney</th>
<th>Quantity of Emissions at peak flow</th>
<th>Limiting Standard</th>
<th>Board Monitoring Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Attached to 2 x 125 KVA, 1 x 75 KVA, 1 x 50 KVA, 1 x 40 KVA &amp; 1 x 10 KVA DG Sets</td>
<td>----</td>
<td>SPM - 115 mg/Nm$^3$</td>
<td>---</td>
</tr>
</tbody>
</table>

11. Hazardous Waste details:

S. No. | Name of the Hazardous Waste | Stream Number as per HWM Rules | Quantity of Hazardous waste (kg/day) | Disposal Option |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Used Oil from DG Sets</td>
<td>5.1of Schedule - I</td>
<td>150 LPA</td>
<td>Authorized waste oil Re-processors/ Re-cycling units.</td>
</tr>
</tbody>
</table>

Non-Hazardous Waste details : - Nil-

<table>
<thead>
<tr>
<th>Name of the waste</th>
<th>Source of generation</th>
<th>Quantity of waste (kg/day)</th>
<th>Disposal Option</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bio Medical waste</td>
<td>Hospital</td>
<td>140 to 160 Kgs/day</td>
<td>Disposed to Authorized CBMWTF</td>
</tr>
</tbody>
</table>

12. Compliance status of conditions stipulated in Fresh order dated Nil

13. Compliance status of directions stipulated in Task Force, Visakhapatnam vide order No. ----- 

14. Compliance status of directions stipulated in ZO, VSP vide order No. ---

15. Hazardous Waste Authorisation details: Applicable

i) Particulars of Authorisation obtained under HW(M&E) Rules, 2003 (No. & Validity date) | Fresh. |

ii) Authorization issued for (Transportation, reception, storage, treatment and disposal) *remarks shall be furnished if the industry is receiving Haz.Waste at the site and using as a raw material. | Collection, Storage and disposal |

iii) Process in which the industry is covered (Please give Sl. No of process as per HW Rules) | 5.1 of Schedule - I |

iv) Description of Hazardous waste with quantities and Stream No. as per HWM Rules, 2003 | Used Oil - 150 LPA Agencies authorised by APPCB |

v) Particulars of on-site Secured Storage (Capacity with dimensions) and mention period for which secured storage is sufficient. | MS Drums. |

vi) Quantity of Haz Waste stored on-site presently. *Furnish specific remarks on the storage of Haz.waste for more than 90 days. | NIL |

vii) Quantity of Hazardous waste disposed for last six months as per the following break-up: Common TSDF - Common HW Incinerator - For recycle / reused - | -- |

viii) Whether industry has submitted annual returns, date of latest submission. | No |

ix) Whether industry has installed incinerator or sending to common HW Incinerator | No |

x) Particular of own incinerator (if applicable) | NA |

xi) Whether log books are maintained for incinerator.(if applicable) | NA |

xii) Whether industry has taken adequate steps to prevent | Yes. Waste Oil is |
<table>
<thead>
<tr>
<th>Steps taken by industry towards waste minimization and cleaner production.</th>
<th>Nil</th>
</tr>
</thead>
<tbody>
<tr>
<td>Future plan for waste minimization.</td>
<td>Nil</td>
</tr>
<tr>
<td>Facilities available with, industry for waste characterization.</td>
<td>Nil</td>
</tr>
<tr>
<td>Overall House Keeping within the factory premises.</td>
<td>Satisfactory</td>
</tr>
<tr>
<td>Details of disposal of lead acid batteries along with nos and agencies to whom they are disposed.</td>
<td>---</td>
</tr>
</tbody>
</table>

16. Compliance of the industry on previous Hazardous Waste Authorization conditions:

Fresh.

17. Inspecting / Regional Officer’s Remarks:

<table>
<thead>
<tr>
<th>Status of functioning of flow meters of water and effluent</th>
<th>Not provided.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Status of energy meters in ETP and Air Pollution Control Equipment (APC)</td>
<td>Not provided.</td>
</tr>
<tr>
<td>Remarks on ETP performance and Analysis results</td>
<td>Construction of STPs – 2 Nos. is under progress.</td>
</tr>
<tr>
<td>Remarks on APC equipment performance and Analysis results</td>
<td>---</td>
</tr>
<tr>
<td>Details of specific and serious non-compliance</td>
<td>Nil</td>
</tr>
<tr>
<td>Details of Court cases &amp; Status</td>
<td>---</td>
</tr>
<tr>
<td>Details of complaints</td>
<td>---</td>
</tr>
<tr>
<td>Amendments required in the existing CFO/CFE order</td>
<td>---</td>
</tr>
<tr>
<td>Irrelevant Conditions that need deletion in view of present compliance / non-compliance</td>
<td>---</td>
</tr>
<tr>
<td>Additional conditions to be imposed</td>
<td>---</td>
</tr>
<tr>
<td>Specific comments on quantities of Hazardous Wastes as per application, existing CFO Order and actual generation</td>
<td>---</td>
</tr>
<tr>
<td>Details of non-hazardous solid waste generation and disposal details separately</td>
<td>---</td>
</tr>
<tr>
<td>Compliance of the industry with reference to Notifications under E(P) Act &amp; Rules</td>
<td>Fresh.</td>
</tr>
<tr>
<td>a) Environmental Statement in Form - V</td>
<td></td>
</tr>
</tbody>
</table>

Mitigation Measures (Where significant adverse effects are identified, description of the remedial measures to be taken to avoid, reduce those effects). | --- |
7. Water is using for, Laboratory, washing and domestic purposes. Domestic waste water generated from the HCF is about 616 KLD and same is discharging into drain after disinfection from theatre washings and domestic waste water is discharging into outside municipal drain. Water samples were collected before discharging into Municipal Sewer. Analysis report awaited.

8. This office issued notice to the HCF for discharging untreated sewage into Municipal Sewer.

9. At the time of inspection, the Board Officials observed that the civil works of STPs is under progress. The representative of the HCF informed that they are constructing 2 Nos. of STPs with 650 KLD & 150 KLD. And they informed the STPs will be commissioned by February, 2020.

10. The HCF is complying color coding and Needle destroyer is provided.

11. The HCF has Provided Bins for collection of Bio Medical Waste at wards, Laboratory & Operation theatre and following color coding.

12. The HCF has provided separate Bio-Medical waste storage room with demarked area with Bio-Hazard Symbol.

13. The HCF tied up with Common Bio Medical Waste Treatment Facility (CBMWTF) i.e. M/s.EVB Technologies, Pallakadiyam, Kanavaram Village, Rajanagaram Mandal, East Godavari District.

14. The HCF may be directed not to dispose the used saline bottles to plastic vendors.

15. The HCF may be directed not to mix the domestic waste with Bio medical waste and provided separate storage area for domestic waste.

The issue of Combined Consent, Hazardous Waste Authorization, Bio Medical Waste Authorization may be considered for period up to 31.07.2020 for 1067 beds with subject to submission of balance CFE & CFO fee of Rs.16,50,000/-. 

18. Head Office Remarks:

1. M/s. Government General Hospital, Raja Ramohan Roy Road, Kakinada, East Godavari District is operating Health Care Facility with 1065 beds. The HCF applied for CFO for the first time.

2. RO, Kakinada issued several notices to the Health Care Facility to obtain CFO from Board.


4. At present, the HCF has paid CFO & BMWA fee for the current year 2019-20. The HCF has to pay the balance fee of Rs. 16,50,000/- (CFE fee, CFO fee for the period 2010-19).

5. As per the RO Verification report the following are observed:
   i. 2 No.s of STPs of 650 KLD & 150 KLD capacity works are under progress and will be commissioned by February, 2020. At present, 616 KLD waste water generated is disposed into municipal sewer.
   ii. The HCF is disposing the used saline bottles to plastic vendors.
   iii. No flow meters were provided to assess the water consumption and at the effluent generation.
   iv. The HCF has not submitted six months compliance report.
   v. The HCF has not submitted the Annual report for the calendar year.
   vi. The HCF not provided pre-treatment for the liquid chemical waste.

6. Photographs: The RO submitted photographic evidences of the color coded bins for collection of Bio-medical waste at different locations within the HCF and Bio-medical waste storage rooms as per color codes.

7. The HCF shall provide an operating on-site facility for pre-treatment of laboratory waste, micro-biological waste, blood samples, blood bags etc.
8. The HCF shall comply with Environmentally Sound management of Mercury waste generated from the Health Care Facilities.

9. As per BMWM Rules, 2019, the HCF shall maintain and update on day to day basis the bio-medical waste management register and display the monthly record on its website according to the bio-medical waste generated in terms of category and colour coding and make available the annual report on its web-site within a period of two years from the date of publication of the Bio-Medical Waste Management (Amendment) Rules, 2018.

The issue is placed before the CFO Committee for review and recommendations.