CFO Agenda No.02: 5 MLD with Sepatage Management in Rajamahendravaram Municipal Corporation Under AMRUT Project for 2016 – 2020, Dowlaiswaram Village, Rajahmundry Rural, East Godavari District


2. Line of Activity: Sewage Treatment Plant (STP)

3. Category of the proposed industry: Red Haz

4. Project cost: Rs.10.29 Crores

5. Fee paid: The industry paid CFE fee is Rs.19,900/- Receipt No: 346779507, dated:30.04.2019 under Red Hazardous category.

<table>
<thead>
<tr>
<th>Category of the Industry</th>
<th>Capital Investment in Cr of Rs.</th>
<th>% Fee &amp; Fee to be paid under one Act</th>
<th>Fee to be paid under one Act</th>
<th>Total Fee Payable under Air &amp; Water Acts</th>
<th>Amount paid</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>CFO</td>
<td>Rs.10.29 Cr.</td>
<td>0.05% Rs.60,000/-</td>
<td>Rs.60,000/-</td>
<td>Rs.1,20,000/-</td>
<td>Rs.19,900/-</td>
<td>The proponent has directed to pay the balance CFE fee of Rs.1,00,100/-</td>
</tr>
</tbody>
</table>

6. Date of receipt of Application at RO: 30.04.2019

7. Date of receipt of Application at ZO: 06.05.2019

8. Single desk last date: 29.05.2019

9. Inspection conducted by: Sri A.Ramarao Naidu, EE & Sri N.Asok Kumar AEE

10. Date of inspection: 03.05.2019

11. Area details: Total area of the land: 3.59 Acres

12. Surroundings:
   - North: Quarry Canal carrying part of the sewage generated from Rajamahendravaram Municipal area and Dowlaiswaram Village into Samalkot canal
   - South: Approach Road followed by Agricultural lands & ZP High School Ground.
   - East: Agricultural lands
   - West: Dowlaiswaram to Vemagiri road followed by Samalkot Canal

13. Road details: Dowlaiswaram to Vemagiri road is at a distance of about 160mtrs.

14. Nearest Human Habitation: Cotton Peta of Dowlaiswaram Village is at a distance of about 20 mtrs, from the proposed facility.

15. Nearest water body: Samalkot Canal on the other side of the Vemagiri to Dowlaiswaram Road towards Western boundary of the site.
River Godavari is at a distance of about 190 mtrs.,
Dowlaiswaram Barriage is at a distance of about 400 mtrs.,

16. Environmental Clearance Order:

17. Products proposed to be manufactured / produced:

<table>
<thead>
<tr>
<th>SNo.</th>
<th>Name of the Products and By-Products</th>
<th>Applied as per CFE application</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Sewage Treatment Plant</td>
<td>5 MLD</td>
</tr>
</tbody>
</table>

18. Raw materials:

<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Name of the Raw material</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Sewage Water</td>
<td>5 MLD</td>
</tr>
</tbody>
</table>

19. Water Consumption Anticipated:

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Source</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Domestic</td>
<td>10.0 KLD</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>10.0 KLD</td>
</tr>
</tbody>
</table>

20. Wastewater expected to be generated:

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Source</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Domestic</td>
<td>9.0 KLD</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>9.0 KLD</td>
</tr>
</tbody>
</table>

21. Treatment Systems Proposed:

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Purpose</th>
<th>Treatment</th>
<th>Mode of disposal</th>
</tr>
</thead>
<tbody>
<tr>
<td>a)</td>
<td>Domestic</td>
<td>In the proposed STP</td>
<td>Proposed to be disposed of the treated water into River Godavari in the downstream of Dowlaiswaram Barriage.</td>
</tr>
</tbody>
</table>

22. Air pollution sources & Control equipment: NIL

23. Solid / Hazardous waste generation: Nil

24. Remarks of the Inspection Officer:

1. M/s. Rajamahendravaram Municipal Corporation has proposed to establish Sewage Treatment Plant (STP) of 5 MLD capacity under AMRUT Scheme and the same work was entrusted to Public Health Department, Rajamahendravaram Division. The Public Health Department in-turn construction of STP and O & M work entrusted to M/s. Aqua Tech Solutions Pvt., Limited, Pune. The total project cost is Rs.17.95 Crores including O & M for 10 years and the component for construction of STP is Rs.10.29 Crores.

2. The proposed 5 MLD capacity STP has the following units:

**Raw Sewage Pumping Station:**
1. Receiving chamber – 2.0m x 1.5m x 1.5m
2. Trash rock screen channel – 1.5m x 0.9m x 0.35m
3. Coarse Screen Channel – 5.8m x 0.6m x 0.5m
4. Manual Grit Chamber – 5.4m x 1.5m x 1.1m
5. Raw Sewage Sump – 8.5m dia x 1.85m

**Sewage Treatment Plant:**
1. Inlet Chamber – 2.5m x 1.2m x 3.0m
2. Screen Channel – Manual Fine Screen – 2.8m x 0.5m x 0.5m
3. Screen Channel – Mechanical Fine Screen – 2.8m x 0.45m x 0.6m
4. Detritor – 3.65m x 3.65m x 1.0
5. Porsholl flume – 3.75m Long x (0.39m-0.32m width) x 0.6m
6. Dividing Chamber – 4.85m x 0.6m x 0.5m
7. 2Nos. of SBR Basin – 25.4m x 13.0m x 5.5m
8. Chlorine Contact tank – 11.0m x 6.0m x 2.4m
9. Sludge Sump – 4.0m x 2.85m x 4.0m
10. Sludge Thickener – 8.0m dia x 3.5m SWD
11. Septage Sump – 5.2m dia x 3.0m
12. Centrifuge

3) As per the orders of Hon’ble NGT in O.A. No.673 of 2018 an time targeted action plan has been proposed to ensure the water quality of River Godavari to meet the designated best used for bathing purpose.

4) An old age home is existing in the proposed site of 3.59 Acres and the EE, Public Health Department informed that the Municipal Corporation, Rajamahendravaram is in the process of allotting an alternative site to old age home.

5) Present status of Rajamahendravaram Municipal Corporation with regard to Sewage Management:
   a) Rajamahendravaram town, East Godavari District, which has a status of Municipal Corporation, is generating about 60 MLD of sewage/sullage, out of which the municipal corporation is treating about 30 MLD of sewage in the existing STP located at Hukumpeta, Rajahmundry and discharging treated effluent into River Godavari at Dowlaismaram i.e. upstream of Barrage. The remaining untreated sewage of about 30 MLD is discharged either through Ava drain (or) Nallah Channel in to River Godavari.
   b) APPCB issued notices to the municipal corporation to develop infrastructure for sewage treatment.
   c) The Hon’ble Supreme Court of India in its judgment dt.22.02.2017 in W.P.(C) No.375 of 2012 directed that the sewage treatment plants shall be set up and made functional within three years time. Accordingly, Rajamahendravaram Municipal Corporation has to set up STP for the remaining 30 MLD domestic sewage by February, 2020 in compliance to the Hon’ble Supreme Court directions.
   d) The Municipal Administration & Urban Development Department has issued G.O. Ms.No.82, Dated 03.03.2017 and accorded administration sanction of Rs.888.66 Crores for 46 no. of projects under AMRUT scheme. Of the 46, 23 projects are related to construction STPs.
   e) During financial year 2016-17, APPCB has sanctioned & released an amount of Rs.18.93 crores towards funding for construction of STPs by 5 urban local bodies, i.e., Kurnool, Rajahmundry, Bheemavaram, Tanuku and Srinakulam which are engaged in discharge of untreated sewage into rivers and water bodies.
   f) A common advertisement published in news papers to all municipalities and corporations in the state of Andhra Pradesh for effective operations of the existing STPs and for setting up new STPs within stipulated time limits. Apart from the common advertisement, notices were issued to municipal corporation for effective operations of the existing STPs and for setting up of new STPs within time stipulated.
   g) APPCB addressed a letter to the Principal Secretary to Government, Municipal Administration and Urban Development Department, GoAP communicating the order passed by Hon’ble Supreme Court with regard to establishment and maintenance of STPs particularly with regard to norms for generating funds for setting up and operations of STPs.

The issuance of CFE for construction of 5MLD STP may be considered duly stipulating necessary conditions and submission of balance CFE fee of Rs.1,00,100/-.

25. Court cases / complaints, if any: ---

1. The Hon’ble NGT in O.A. No.673 of 2018 Dated 20.09.2018 issued certain directions to all states and union territories directed to prepare action plans for bringing all the polluted river stretches to be fit atleast for bathing purupose (BOD
<3mg/l & FC <500MPN/100ml). Accordingly, an time targeted action plan communicated to Municipal Corporation, Rajamahendravaram for taking immediate necessary action.

2. WP.No.(PIL) No. 290 of 2018 in Hon’ble High Court of A.P was filed by Sri Kavala Vinod Kumar, R/o.Vemagirigattu, Kadiyam Mandal, East Godavari District against construction of 5MLD capacity STP by Rajahmundry Municipal Corporation. This office vide letter dated 06.10.2018 submitted a report to Legal Section of APPCB. The case is pending in the Hon’ble High Court of AP.

26. **Recommendations of the Regional Officer:**

27. **ZO Remarks:**

A. The CFE application of the facility and inspection report of the EE, RO, Kakinada were placed before the CFE committee meeting held on 14.05.2019. The committee observed that i) M/s. Rajamahendravaram Municipal Corporation has proposed to establish Sewage Treatment Plant (STP) of 5 MLD capacity under Amrut Scheme at Dowlaismwaram Village, Rajahmundry Rural, East Godavari District, ii) an old age home is existing in the proposed site of 3.59 acres, iii) Cotton Peta of Dowlaismwaram village is at a distance of about 20 m from the proposed site, iv) Vemagiri to Dowlaismwaram village road followed by Samalkota canal is existing towards western side of the proposed site, v) the Municipal Corporation is required to pay balance consent fee of Rs.1,00,100/-, vi) the Hon’ble High Court disposed W.P. (PIL) No.290/2018 filed by Sri Kavala Vinod Kumar s/o Satyanarayana and passed the orders.

B. The representative of the Public Health Engineering Department, Rajahmendravaram Municipal Corporation attended the meeting informed that the Municipal Corporation is in the process of rehabilitation of old age home to some other place but could not show any progress. He also informed that the Municipal Corporation has also proposed to establish the fecal sludge treatment plant in this premises along with STP. He could not explain about the payment of balance fee Rs.1,00,100/-. The committee opined that due to the establishment of Sewage Treatment Plant odour nuisance problems would occur to the surrounding habitation and the Municipal Corporation has not submitted concrete proposal for rehabilitation of old age home. The committee also opined that the proposed site is not suitable for establishment of STP for the reasons i.e., i) the proposal is just abutting the habitation i.e., Cotton Peta of Dowlaismwaram village ii) sensitive establishments like old age home, school for deaf & dumb are existing in the site itself and iii) fresh water bodies i.e., samalkot canal & river Godavari are existing in close proximity to the site, iv) the orders of the Hon’ble High Court in W.P.(PIL) No.290/2018 and W.P.No.31524 of 2018 made certain observations with respect to old age home and other relevant issues. After discussion, the committee recommended to reject CFE application for the following reasons:

1. The proposed site for establishment of sewage treatment plant is just abutting the habitation i.e., Cotton Peta of Dowlaismwaram village, East Godavari District.

2. Sensitive establishments like old age home, school for deaf and dumb are existing and operating in the site.

3. Fresh water bodies i.e., samalkot canal & river Godavari are existing in close proximity to the site.
4. The orders of the Hon'ble High Court in W.P.(PIL) No.290/2018 and W.P.No.31524 of 2018 made certain observations with respect to old age home and other relevant issues.

C. Accordingly, the CFE application filed M/s. Rajamahendravaram Municipal Corporation is rejected on 21.05.2019.

D. In response to the rejection letter dated: 21.05.2019, Sri D. Muralidhar Reddy, I.A.S, Collector and District Magistrate, East Godavari District, Kakinada has submitted representation for reconsideration of the CFE application with the following details:

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Objections</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>The proposed site for the establishment of sewage treatment plant is just abutting the habitation i.e., cotton peta of Dowleswaram village, East Godavari District</td>
<td>The sewage/sullage from AWA channel near Sai Baba temple, Dowleswaram is flowing through the existing quarry canal and it is being disposed into Godavari the eastern canal</td>
</tr>
<tr>
<td>2</td>
<td>Sensitive Establishments like old age home, school for deaf and dumb are existing and operating in the site</td>
<td>The deaf and dumb school which was in a shed has been shifted to an alternate pucca building provided by the municipal authorities in Vaddera colony. The old age home in the proposed site was also in occupied land and Municipal authorities have already shown alternate pucca buildings for providing rehabilitation to the old age home people.</td>
</tr>
<tr>
<td>3</td>
<td>Fresh Water bodies i.e Samalkot canal and river Godavari are existing in close proximity to the site</td>
<td>As per natural topography conditions, since centuries to till date the drainage from surrounding open fields along with untreated sewage water is directly joining the Godavari eastern canal. Now under this project it is proposed to treat the waste water as per CPCB norms by establishing the STP which is advantageous by avoiding pollution. Hence the treated effluent from Proposed STP will be discharged into the canal, which is allowed as per CPCB norms</td>
</tr>
<tr>
<td>4</td>
<td>The orders of Hon'ble High court in WP 290/2018 and WP No.31524/2018 made certain observations with respect to old age home and other relevant issues.</td>
<td>The WP No.290/2018 was already disposed off. The Municipal Corporation, Rajamahendravaram is taking necessary action in submitting necessary information to the hon'ble High court to vacate the WP 31524/2018.</td>
</tr>
</tbody>
</table>

E. At present the untreated sewage/sullage is directly joining the eastern canal via quarry canal by gravity at Dowlesswaram. By establishing an STP, the pollutants will be treated to the Central Pollution Control Board standards and then only let into the Eastern canal.

F. Further requested to re-examine the decision taken for rejection of CFE in the meeting held on 14.05.2019 and also keeping in view the importance of STP as Rajamahendravaram Municipal Corporation is assuring treatment of sewage/sullage as per the NGT (National Green Tribunal) Guide lines and directions before letting into the eastern canal.

The matter is placed before the CFE committee for review and to take a decision