CONSENT ORDER FOR ESTABLISHMENT

Order No. 460 /APPCB/CFE/RO-VJA/HO/2019 31/08/2019


Ref:
1. Industry's CFE application received through AP Single Desk Portal on 01.08.2019.
2. R.O: Vijayawada inspection report dt. 08.08.2019.
3. CFE Committee meeting held on 27.08.2019.
4. Industry's mail dt. 28.08.2019.

1. In the reference 1st cited, an application was submitted to the Board seeking Consent for Establishment (CFE) to produce the following products with installed capacities as mentioned below, with a project cost of Rs. 287 Crores.

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Name of the Products</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Night vision products</td>
<td>1500 Nos./month</td>
</tr>
</tbody>
</table>

2. As per the application, the above activity is to be located at Sy.Nos. 67/1B, 67/2, 68/2, 69/1, 69/2A, 69/2B, 71,75/1 & 75/2, Nimmaluru (V), Pamarru (M), Krishna District in an area of 33 acres.

3. The above site was inspected by the Environmental Engineer, Regional Office, Vijayawada, A.P Pollution Control Board on 05.08.2019 and observed that the site is surrounded by

- **North**: Nimmaluru Gram Panchayat at a distance of about 1.0 km with a population of 3000 people
- **South**: Irrigation Canal at a distance of about 25 m
- **North-East**: Malaipanpeta abutting the compound wall followed by NH-65
- **West**: Nimmaku village at a distance of about 600 m with a population of 500 people
4. The Board, after careful scrutiny of the application, verification report of Regional Officer and recommendations of the CFE Committee, hereby issues **CONSENT FOR ESTABLISHMENT** to the project under Section 25 of Water (Prevention & Control of Pollution) Act 1974 and Section 21 of Air (Prevention & Control of Pollution) Act, 1981 and the rules made there under. **This order is issued to manufacture the products as mentioned at para (1) only.**

5. This Consent order issued is subject to the conditions mentioned in the Annexure.

6. This order is issued from pollution control point of view only. Zoning and other regulations are not considered.

7. **This order is valid for period of 7 years from the date of issue.**

   Encl: Annexure

---

**ANNEXURE**

1. The proponent shall obtain Consent for Operation (CFO) from APPCB, as required Under Sec.25/26 of the Water (P&C of P) Act, 1974 and under sec. 21/22 of the Air (P&C of P) Act, 1981, before commencement of the trail runs.

2. The applicant shall provide separate energy meters for Effluent Treatment Plant (ETP) and Air pollution Control equipments to record energy consumed. An alternative electric power source sufficient to operate all pollution control systems shall be provided.

3. The industry shall construct separate storm water drains and provide rain water harvesting structures. No effluents shall be discharged in to the storm water drains.

**Water:**

4. The source of water is Ground water and the maximum permitted water consumption is as following:
<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Purpose</th>
<th>Quantity (KLD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Process</td>
<td>20.0</td>
</tr>
<tr>
<td>2.</td>
<td>HVAC</td>
<td>15.0</td>
</tr>
<tr>
<td>3.</td>
<td>Domestic</td>
<td>40.0</td>
</tr>
<tr>
<td>4.</td>
<td>Greenbelt</td>
<td>17.0</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>92.0</td>
</tr>
</tbody>
</table>

*Fresh water : 75 KLD and Recycled water : 17 KLD.*

Separate meters with necessary pipe-line shall be provided for assessing the quantity of water used for each of the purposes mentioned above.

5. The maximum waste water generation shall not exceed the following:

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Source</th>
<th>Quantity (KLD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>a)</td>
<td>Process</td>
<td>15 to 20</td>
</tr>
<tr>
<td>b)</td>
<td>Domestic</td>
<td>32</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>52</td>
</tr>
</tbody>
</table>

**Treatment & disposal:**

<table>
<thead>
<tr>
<th>Source of effluent</th>
<th>Treatment</th>
<th>Mode of final disposal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process</td>
<td>Collection tank (12 KL, reaction tank, clarifier, sand beds, recycle plant. Collection tank (8 KL, reaction tank, clarifier, sand beds, recycle plant.</td>
<td>Shall be reused in electroplating process.</td>
</tr>
<tr>
<td>a. Acid / Alkali effluent</td>
<td></td>
<td></td>
</tr>
<tr>
<td>b. Chromium effluent</td>
<td>STP of capacity 35 KLD based on Moving Bed Bio Reactor (MBBR) consists of Bar screen chamber; Oil and grease strap; Diffused aeration; Fluidized Aerobic Bed reactors; Settling tank; Dual filter and Activated Carbon filter; Sludge holding tank; Centrifuge for sludge de-watering purpose.</td>
<td>Treated waste water shall be used for development of green belt and flushing.</td>
</tr>
</tbody>
</table>

6. Effluents shall not be discharged into any water bodies or aquifers under any circumstances.

7. The industry shall provide magnetic flow meters with totalizers at the inlet and outlet of the ETP.
8. Floor washing shall be admitted into the effluent collection system only and shall not be allowed to find their way in storm drains or open areas. All pipe valves, sewers, drains shall be leak proof.

**Air:**

9. The Air pollution Control equipment shall be installed along with the commissioning of the activity and shall comply with the following for controlling air pollution:

<table>
<thead>
<tr>
<th>Sl. No</th>
<th>Details of Stack</th>
<th>Stack 1</th>
<th>Stack 2</th>
<th>Stack 3</th>
<th>Stack 4</th>
<th>Stack 5</th>
<th>Stack 6</th>
</tr>
</thead>
<tbody>
<tr>
<td>a)</td>
<td>Attached to</td>
<td>Auto coat spray booth</td>
<td>Integra powder coating plant</td>
<td>Anodising stack</td>
<td>Magnesium line stack</td>
<td>Non ferrous line stack</td>
<td>DG Set</td>
</tr>
<tr>
<td>b)</td>
<td>Capacity</td>
<td>10 KW</td>
<td>10 KW</td>
<td>15 HP</td>
<td>15 HP</td>
<td>10 HP</td>
<td>1250 KVA</td>
</tr>
<tr>
<td>c)</td>
<td>Fuel</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>Diesel</td>
</tr>
<tr>
<td>d)</td>
<td>Stack height above ground (m.)</td>
<td>8 m</td>
<td>7 m</td>
<td>7 m</td>
<td>7 m</td>
<td>7 m</td>
<td>7 m</td>
</tr>
<tr>
<td>e)</td>
<td>Air Pollution Control Equipment</td>
<td>Water wash spray booth</td>
<td>Cyclone separator</td>
<td>Multi stage Scrubbers</td>
<td>Multi stage Scrubbers</td>
<td>Multi stage Scrubbers</td>
<td>Acoustic enclosure with silencer</td>
</tr>
</tbody>
</table>

10. A sampling port with removable dummy of not less than 15 cm diameter shall be provided in the stack at a distance of 8 times the diameter of the stack from the nearest constraint such as bends etc. A platform with suitable ladder shall be provided below 1 meter of sampling port to accommodate three persons with instruments. A 15 AMP 250 V plug point shall be provided on the platform.

11. The industry shall provide the monitoring system to all the stacks / vents in the plant. Regular monitoring shall be carried out and report shall be submitted to the Regional officer.

12. The industry shall provide multi-stage scrubbers to the process vents to control the process emissions. The industry shall provide online pH measuring facility with auto recording system to the scrubbers provided to treat the process emissions.

13. The industry shall implement adequate measures to control all fugitive emissions from the plant.

14. The proponent shall ensure compliance of the National Ambient Air quality standards notified by MoEF, vide notification No. GSR. 826 (E), dated. 16.11.2009 during construction and regular operational phase of the project at the periphery.

The generator shall be installed in a closed area with a silencer and suitable noise absorption systems. The ambient noise level shall not exceed 75 dB(A) during daytime and 70 dB(A) during night time.

15. The proponent shall not use or generate odour causing substances or Mercaptans and cause odour nuisance in the surroundings.
16. The industry shall send the used / spent solvents to the recyclers (or) process them at their own solvent recovery facility within the premises.

17. The evaporation losses in solvents shall be controlled by taking the following measures:
   
i. Chilled brine circulation shall be carried out to effectively reduce the solvent losses into the atmosphere.
   
ii. Transfer of solvents shall be done by using pumps instead of manual handling.
   
iii. Closed centrifuges shall be used to reduce solvent losses.
   
iv. All the solvent storage tanks shall be connected with vent condensers to prevent solvent vapours.
   
v. The reactor vents shall be connected with primary & secondary condensers to prevent escaping of solvent vapour emissions into atmosphere.

**Solid Waste:**

18. The industry shall comply with the following for disposal of Solid wastes:

<table>
<thead>
<tr>
<th>S.No</th>
<th>Name of the waste</th>
<th>Quantity</th>
<th>Mode of final disposal</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Waste oil</td>
<td>350 LPA</td>
<td>To authorized Re-processors / Recyclers / to the Cement industries for co-processing in the kiln.</td>
</tr>
<tr>
<td>2</td>
<td>Acid / Alkali chemical generation</td>
<td>10 MT per Annum</td>
<td>Authorised agency</td>
</tr>
<tr>
<td>3</td>
<td>Spent solvent</td>
<td>250 Kg/Annum</td>
<td>To authorized agency for recovery.</td>
</tr>
<tr>
<td>4</td>
<td>Paint Sludge</td>
<td>400 Kg/Annum</td>
<td>To TSDF for incineration / cement plants for co-processing.</td>
</tr>
<tr>
<td>5</td>
<td>Scrubber Sludge</td>
<td>200 Kg/Annum</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Effluent Treatment Plant Sludge</td>
<td>200 Kg/Annum</td>
<td>To TSDF for secured land fill.</td>
</tr>
</tbody>
</table>

19. The proponent shall place the chemical drums and / or any drums in a shed provided with concrete platform only. The Platform shall be provided with sufficient dyke wall and effluent collection system. The industry shall provide containers detoxification facility. Container & Container liners shall be detoxified at the specified covered platform with dyke walls and the wash wastewater shall be routed to low TDS collection tank.

20. The following rules and regulations notified by the MoEF&CC, Govt shall be implemented.

   
   
d) Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989

f) Batteries (Management & Handling) Rules, 2010.

Other Conditions:

21. Green belt shall be developed all along the boundary & vacant spaces with tall growing trees with good canopy and it shall not be less than 33% of the total area.

22. The industry shall submit the information regarding usage of Ozone Depleting Substance once in six months to the Regional Office and Zonal Office of the Board.

23. Concealing the factual data or submission of false information / fabricated data and failure to comply with any of the conditions mentioned in this order attracts action under the provisions of relevant pollution control Acts.

24. Notwithstanding anything contained in this conditional letter or consent, the Board hereby reserves its right and power Under Sec. 27(2) of Water (Prevention and Control of Pollution) Act, 1974 and Under Sec.21(4) of Air (Prevention and Control of Pollution) Act, 1981 to revoke the order, to review any or all the conditions imposed herein and to make such modifications as deemed fit and stipulate any additional conditions.

25. Any person aggrieved by an order made by the State Board under Section 25, Section 26, Section 27 of Water Act, 1974 or Section 21 of Air Act, 1981 may within thirty days from the date on which the order is communicated to him, prefer an appeal as per Andhra Pradesh Water Rules, 1976 and Air Rules, 1982, to such authority (herein after referred to as the Appellate Authority) constituted under Section 28 of Water (Prevention and Control of Pollution) Act, 1974 and Section 31 of the Air (Prevention and Control of Pollution) Act, 1981.

VIVEK YADAV IAS, MS(VY), O/o MEMBER SECRETARY-APPCB
MEMBER SECRETARY

To

M/s. Bharath Electronics Limited,
Post Box No:26,
Ravindranath Tagore Road,
Machilipatnam, Krishna District
belmc@bel.co.in

Signature: Not Available

Digitally signed by VIVEK YADAV
Date: 2019.08.31 18:37:36 IST
Reason: Approved