CONSENT ORDER FOR ESTABLISHMENT

Order No. 293 /APPCB/CFE/RO-TPT/ HO/2019                                      Dt: 28.06.2019


Ref: 1) EC order dt. 01.09.2017.
2) Industry’s CFE application received through AP Single Desk Portal on 29.05.2019.
3) R.O’s inspection report dt. 04.06.2019.
4) CFE Committee meeting held on 11.06.2019.
5) Industry’s mail dt. 19.06.2019.

1. In the reference 2nd cited, an application was submitted to the Board seeking Consent for Establishment (CFE) to manufacture the following with installed capacities as mentioned below, with a project cost of Rs. 165.30 Crores.

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Products</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Lithium Batteries</td>
<td>2,00,000 Nos./Day</td>
</tr>
</tbody>
</table>

2. As per the application, the above activity is to be located at Part of Sy.No. 19, 20, 345, 346, 347, 348, 350, 351, 353, 359, 360, 361, 362, 363 & 364, Electronics Manufacturing Cluster-II, Vikruthamala (V), Yerpedu (M), Chittoor District in an area of 1,21,531 Sq. m.

3. The above site was inspected by the Environmental Engineer and Asst. Environmental Engineer, Regional Office, Tirupati, A.P Pollution Control Board on 04.06.2019 and observed that the site is surrounded by

North : Vacant land.
South : EMC 2 Road.
East  : Road.
West  : Vacant land.

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

To

M/s. Munoth Industries Limited.
Munoth Centre, 3rd Floor,
No. 343, Triplicane High Road,
Triplicane, Chennai – 600005.
christopher@munothindustries.com

Copy to: 1. The JCEE, Z.O: Kurnool for information and necessary action.
2. The EE, R.O: Tirupati for information and necessary action.
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 trial runs.

2. The applicant shall provide separate energy meters for Decentralized waste water treatment plant (DEWAT) 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 into the storm water drains.

Water:

4. The source of water is Bore well - 2 Nos located in ARGC 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>a)</td>
<td>Process</td>
<td>1.5</td>
</tr>
<tr>
<td>b)</td>
<td>Greenbelt</td>
<td>2.0</td>
</tr>
<tr>
<td>c)</td>
<td>Domestic</td>
<td>10.0</td>
</tr>
<tr>
<td>Total *</td>
<td>(fresh + recycled)</td>
<td>15.0</td>
</tr>
</tbody>
</table>

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</th>
<th>Mode of final disposal</th>
</tr>
</thead>
<tbody>
<tr>
<td>a)</td>
<td>Trade effluents</td>
<td>150 lt/day</td>
<td>To decentralized waste water treatment (DEWAT).</td>
</tr>
<tr>
<td>b)</td>
<td>Domestic</td>
<td>8.0 KLD</td>
<td>Disposed in to septic tank followed by sock pit.</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>8.0</td>
<td></td>
</tr>
</tbody>
</table>

6. Decentralized waste water treatment plant (DEWAT) shall be constructed and commissioned along with the commissioning of the activity. All the units of the DEWAT shall be impervious to prevent ground water pollution. The DEWAT units shall be constructed above the ground level.

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

7. 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.
8. In the cleaning process, the cell is cleaned by sprinkling DI water and brushing it. The waste water (150 lt/day) is sent to decentralized waste water treatment (DEWAT). The proponent shall submit design details of DEWAT before applying for Consent for Operation (CFO).

**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>
</tr>
</thead>
<tbody>
<tr>
<td>a)</td>
<td>Attached to</td>
<td>Oven</td>
<td>DG set</td>
</tr>
<tr>
<td>b)</td>
<td>Capacity</td>
<td>--</td>
<td>1 x 1000 KVA</td>
</tr>
<tr>
<td>c)</td>
<td>Name of the Fuel</td>
<td>Electricity</td>
<td>HSD</td>
</tr>
<tr>
<td>d)</td>
<td>Stack height above ground (m.)</td>
<td>10 m</td>
<td>6.4 m above roof level</td>
</tr>
<tr>
<td>e)</td>
<td>Air Pollution Control Equipment</td>
<td>zeolite wheel / scrubber</td>
<td>Silencer with Acoustic enclosure</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 implement adequate measures to control all fugitive emissions from the plant.

12. The proponent shall ensure compliance of the National Ambient Air quality standards notified by MoEF, GoI 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 day time and 70 dB(A) during night time.

13. Emissions containing N-Methyl-2-Pyrrolidone (NMP) shall be absorbed using a zeolite wheel / scrubber. The water used in scrubber is sent to Decentralized waste water treatment plant (DEWAT) for further treatment.

14. The solvents used in the “Mixing” process are water and N-Methyl-2- Pyrrolidone (NMP) for anode and cathode respectively. The whole process shall takes place in temperature in humidity control room. The storage of NMP shall not exceed 1200 litres in the premises.

15. Aluminum and Copper are used in the automatic coating process for cathode and anode respectively. During drying process the wet coated electrodes are dried in heating chamber where the temperature is maintained from 60° to 120° while drying cathode, 95% of N-Methyl-2-Pyrrrolidone (NMP) is recovered. Remaining 5% will be absorbed using a zeolite wheel / scrubber and the water used in scrubber is sent to Decentralized waste water treatment plant (DEWAT).
16. **Maximum storage of Carbon black shall not exceed 40 kg at any point of time.**

**Solid Waste:**

17. The industry shall comply with the following for disposal of Solid waste:

<table>
<thead>
<tr>
<th>S. No</th>
<th>Type of waste</th>
<th>Quantity</th>
<th>Mode of final disposal</th>
</tr>
</thead>
<tbody>
<tr>
<td>a)</td>
<td>Used Oil / Waste Lubrication Oil</td>
<td>100 LPA</td>
<td>To authorized Re-processors / Recyclers / to the Cement industries for co-processing in the kiln.</td>
</tr>
<tr>
<td>b)</td>
<td>Plastic Scrap</td>
<td>0.5 TPD</td>
<td>To Authorized recyclers</td>
</tr>
</tbody>
</table>

18. 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.

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

   d) Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989
   f) Batteries (Management & Handling) Rules, 2010.

**Other Conditions:**

20. **The proponent vide lr. dt. 19.06.2019 informed that the proposed industry is first of its kind in India. Similar type of industry is not available in India.**

    After commissioning the industry, the characteristics of emissions, effluents, solid waste are analyzed and category of the industry will be decided by the Board in future depending upon Rules / Circulars issued from time to time. The industry has to pay difference fee if any.

21. Green belt shall be developed all along the boundary & vacant spaces with tall growing trees with good canopy. Greenery by the park and greenery by the individual unit put together shall not be less than 33% of the total area.
22. 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.

23. 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.

24. 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 (hereinafter 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.

To

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Bandla Siva
Sankar Prasad

CHAIRMAN