CONSENT ORDER FOR ESTABLISHMENT

Order No. CTR-1564/PCB/ZOK/CFE/2018  Date: 05.09.2019


Ref: 1. CFE application received through APOCMMS on 12.08.2019
3. CFE Committee meeting held at ZO, Kurnool on 04.09.2019.

1) In the reference 1st cited, an application was submitted to the Board seeking Consent for Establishment (CFE) order to set up a plant to produce the following products with installed capacities as mentioned below, with a project cost of Rs. 30.0 Lakhs

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Name of the Products</th>
<th>Proposed capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Pyrolysis Oil</td>
<td>0.8 TPD</td>
</tr>
<tr>
<td>2</td>
<td>Carbon Black</td>
<td>0.8 TPD</td>
</tr>
</tbody>
</table>

2) As per the application, the above activity is to be carried out at Sy.No.296/1, Plot Nos.C-7 & C-8, Industrial park, Srikalahasti, Chittoor District, Andhra Pradesh.

3) The above site was inspected by Environmental Engineer, Regional Office, Tirupati on 27.08.2019 and found that it is surrounded by the following:
   - North: Road
   - South: Sock Unit
   - East: M/s Lakshmi Priyanka Surgical
   - West: Road

4) The Board, after careful scrutiny of the application and verification report of Regional Office, hereby issues CONSENT FOR ESTABLISHMENT(CFE) to your INDUSTRY under section 25 of Water (Prevention & Control of Pollution) Act, 1974 and under Section 21 of Air (Prevention & Control of Pollution) Act, 1981 and the rules made there under. This order is issued to manufacture the products 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 consent order is valid for a period of 7 years from the date of issue


K Venkateswara Rao  Digitally signed by K Venkateswara Rao
Date: 2019.09.05 18:27:47 +05:30

To
M/s. Bhuvana Pyro Industries
D.No.30-265/21/337/F-101,
RKH Colony,
Dr.A.S.Rao Nagar, Hyderabad – 500 062.
deevakchajerla18@gmail.com

Copy to the Environmental Engineer, Regional Office, APPCB, Tirupati for information.
Annexure

SCHEDULE – A

1. The proponent shall obtain Consent for Operation (CFO) from APPCB, as required Under Section 25/26 of 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 proponent shall install or 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 proponent shall construct separate storm water drains and provide rain water harvesting structures. No effluent shall be discharged in to the storm water drains.

SCHEDULE – B

Water:

1. The source of water is Bore well and the maximum permitted water consumption is following:

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Purpose</th>
<th>Quantity in KLD</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Cooling tower make-up</td>
<td>0.2</td>
</tr>
<tr>
<td>2</td>
<td>Domestic (Plant)</td>
<td>0.3</td>
</tr>
<tr>
<td>3</td>
<td>Scrubber</td>
<td>0.1</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>0.6</strong></td>
</tr>
</tbody>
</table>

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

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

<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Purpose</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Cooling tower bleed off</td>
<td>0.05 (Recycle)</td>
</tr>
<tr>
<td>2</td>
<td>Domestic (Plant)</td>
<td>0.2</td>
</tr>
<tr>
<td>3</td>
<td>Scrubber</td>
<td>0.05</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>0.3 KLD</strong></td>
</tr>
</tbody>
</table>

Treatment & Disposal:

<table>
<thead>
<tr>
<th>Source of Effluent</th>
<th>Treatment proposed</th>
<th>Mode of final disposal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cooling tower bleed of</td>
<td>Recycled</td>
<td>Onland for irrigation</td>
</tr>
<tr>
<td>Domestic</td>
<td>Septic tank followed by Soak pit</td>
<td></td>
</tr>
</tbody>
</table>

4. The Effluent Treatment Plant (ETP) shall be constructed and commissioned along with the commissioning of the activity. All the units of the ETP shall be made impervious to prevent ground water pollution. The ETP units shall be constructed above the ground level.

5. There shall not be any washings of plastics within the premises.

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

Air:

7. The proponent shall comply with the following for controlling air pollution.

<table>
<thead>
<tr>
<th>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>Reactor</td>
<td>D.G.Set</td>
</tr>
<tr>
<td>b)</td>
<td>Capacity</td>
<td>1 x 1 T Pyrolysis reactor</td>
<td>125 KVA</td>
</tr>
<tr>
<td>c)</td>
<td>Name of the Fuel :</td>
<td>Initially briquette &amp; Gas generated from the process</td>
<td>HSD</td>
</tr>
<tr>
<td>d)</td>
<td>Stack height above ground (m.)</td>
<td>stack of 30 m</td>
<td>6 m</td>
</tr>
<tr>
<td>e)</td>
<td>Air Pollution Control Equipment:</td>
<td>Scrubber</td>
<td>Acoustic enclosure</td>
</tr>
</tbody>
</table>


9. The proponent should comply with the National ambient air quality standards as per MoEF, GOI notification dated. 18.11.2009 outside the mine lease area at the boundary of the mine, as prescribed below.

<table>
<thead>
<tr>
<th>S.No</th>
<th>Parameters</th>
<th>Standards in µg/m3</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>PM10</td>
<td>100</td>
</tr>
<tr>
<td>2</td>
<td>PM2.5</td>
<td>60</td>
</tr>
<tr>
<td>3</td>
<td>SO2</td>
<td>80</td>
</tr>
<tr>
<td>4</td>
<td>NOx</td>
<td>80</td>
</tr>
</tbody>
</table>

Noise Levels: Day time (6 AM to 10 PM) - 75 dB (A)  Night time (10 PM to 6 AM) - 70 dB (A).

8. The air pollution control equipment shall be designed such that the emission of suspended particulate matter (SPM) from the Pyrolysis Reactor stack shall be 115 mg/Nm³.

9. The proponent shall provide a sampling port with removable dummy of not less than 15 cm diameter in the stack at a distance of 8 times the diameter of the stack from the nearest constraint such as bends etc. The industry shall provide a platform with suitable ladder below 1 meter of sampling port to accommodate three persons with instruments. The industry shall also provide a 5 AMP 250V plug point on the platform.
10. The proponent shall install automatic flare up systems i.e. Burners to flare up excess non condensable gases with safety arrangements.

11. The proponent shall take all necessary measures to avoid dust nuisance & Odour nuisance to the surrounding areas.

**Hazardous / Solid Waste:**

12. The proponent shall comply with the following:

<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Waste Description</th>
<th>Quantity</th>
<th>Method of Disposal</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Used Oil / Waste Lubrication Oil</td>
<td>10 Lts/Annum</td>
<td>Shall be used as lubricant within the premises/to authorized Re-processors/Recyclers/to the Cement industries to use as alternate fuel in the kiln.</td>
</tr>
</tbody>
</table>

13. Proper handling and storage and disposal of all the solid waste/hazardous waste should be ensured.

14. The proponent shall provide mechanical handling system for collection of carbon char.

15. The following rules and regulations notified by the MoE&F, GoI shall be implemented.
   b. Batteries (Management & Handling) Amendment Rules, 2010

**Other conditions:**

16. The proponent shall store the raw material in a closed shed and shall carry out entire manufacturing activity under the closed shed to avoid nuisance to the surroundings.

17. The proponent shall install the air pollution control equipment to control the flue gas emissions generated during the heating of the Pyrolysis reactor before going for trial production.

18. The proponent shall not carry out further distillation of oil.

19. The by-products, carbon ash shall be collected properly and stored in closed shed without causing any spillages before selling to outside parties.

20. The proponent shall take the following measures to prevent formation of dioxins, furans in the process:
   a) The plastic scrap shall be pre-dried before feeding into the reactor so that no oxygen is formed during the process.
   b) Nitrogen gas shall be purged in the reactor to maintain inert atmosphere inside the reactor.
   c) Shall use catalyst in the process, which prevents benzene ring formation there by prevents formation of dioxins, furans.
   d) Shall pre heat non condensable gases to a temperature of about 1000° C where most of the toxic gases are burnt etc., and there shall not be any formation of dioxins and furans in the process under any circumstances.
   e) The industry shall monitor the concentration of dioxins, furans during the trial runs.

21. The proponent shall install digital pressure and temperature gauges out side the reactor and also a sensor for CO gas shall be installed in the main working area to ensure that the concentration of CO shall not exceed prescribed limits for occupational health and safety. Also, the sensor shall be coupled with warning/alarm system for taking adequate steps to rectify the situation.

22. The Board reserves its right to modify above conditions or stipulate any additional conditions including revocation of this order in the interest of environment protection.

23. The order is issued without prejudice to the rights and contentions of this Board in any court of law.

24. 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 total area.

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

26. Notwithstanding anything contained in this conditional letter or consent, the Board hereby reserved to it the right and power under section 27 (2) of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21 (4) of the Air (Prevention & Control of Pollution) Act, 1981 to review any or all the conditions imposed herein above and to make such alternation as deemed fit and stipulate any additional conditions or revoke the order in the interest of environment protection.

27. Any person aggrieved with this order 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 the Appellate Authority constituted under Section 28 of the Water (Prevention and Control of Pollution) Act, 1974 and Section 31 of the Air (Prevention and Control of Pollution) Act, 1981.

K Venkateswara Rao
Rao
Date: 2019/09/05 18:28:16 +05:30

**JOINT CHIEF ENVIRONMENTAL ENGINEER**

**ZONAL OFFICE, KURNOOL**

To

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RKH Colony,
Dr.A.S.Rao Nagar, Hyderabad – 500 062.
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