CFO Committee Meeting Dt.16.09.2019

CFO Agenda Item No. : 2

1. Name and Address of the industry : M/s. BDJ Oxides Private Limited (Expansion), Plot No:10, APIIC Industrial Park, Attivaram (V), Ozili (M), SPSR Nellore District

2. Line of Activity : Mfg. of Zinc Oxide

3. Category of the industry : Red-Haz

4. Status of Application (Fresh / Renewal) : Expansion

5. Date of commissioning : 07.09.2019

6. Earlier CFO validity : 31.01.2022

7. Project cost : Rs.7.77 Crores

8. Water Fee Rs. + Air Fee Rs. : Rs.1,16,550/-

9. Fee paid upto : 31.08.2024

10. Date of Receipt at RO : 28.08.2019

11. Date of receipt of Application at ZO : 09.09.2019

12. Single desk last date : 30.09.2019

13. Environmental Clearance order no. and date : ----- 

14. Inspection conducted by : AEE, RO, Nellore

15. Date of RO inspection : 03.09.2019

16. Area details : Total area : 24286 Sq.mtrs.
                   Built up area : About 4 Acres
                   Greenery : About 0.3 Acres

17. Surroundings : North : APIIC Road
                   South : Industrial plot
                   East : Industrial plot
                   West : Village Road

18. Raw materials used:

<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Name of the Raw materials and chemicals</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Zinc metals / Zinc Alloys</td>
<td>7.5 TPD</td>
</tr>
<tr>
<td>2</td>
<td>Zinc Dross</td>
<td>21 TPD</td>
</tr>
<tr>
<td>3</td>
<td>Zinc scrap</td>
<td>21 TPD</td>
</tr>
</tbody>
</table>

19. Products and By-Products manufactured / produced.

<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Name of the Products</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1)</td>
<td>Zinc Oxide (Under expansion)</td>
<td>49.50 TPD</td>
</tr>
</tbody>
</table>

20. Water Pollution details

   i) Water Consumption :

<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Purpose</th>
<th>Quantity (KLD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Domestic</td>
<td>3.0</td>
</tr>
</tbody>
</table>
ii) **Wastewater generation:**

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Source</th>
<th>Quantity (KLD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1)</td>
<td>Domestic</td>
<td>1.0</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>1.0</strong></td>
</tr>
</tbody>
</table>

21. **ETP details:**

<table>
<thead>
<tr>
<th>Source of Effluent</th>
<th>Treatment provided</th>
</tr>
</thead>
<tbody>
<tr>
<td>Domestic</td>
<td>Septic tank followed by soak pits were provided</td>
</tr>
</tbody>
</table>

22. **Mode of Disposal of treated waste water:**

**Domestic** - Septic tank followed by soak pits were provided

23. **Air pollution Details**

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Details of Stack</th>
<th>Stack–1</th>
<th>Stack–2</th>
<th>Stack–3</th>
</tr>
</thead>
<tbody>
<tr>
<td>a)</td>
<td>Attached to:</td>
<td>D.G.SET (Expansion)</td>
<td>OIL BURNER FURANCES - 7 NOS (Expansion)</td>
<td>OIL BURNER FURANCES - 2 NOS (Expansion)</td>
</tr>
<tr>
<td>b)</td>
<td>Capacity</td>
<td>320 KVA</td>
<td>7x4.5 TPD</td>
<td>2x9 TPD</td>
</tr>
<tr>
<td>c)</td>
<td>Fuel</td>
<td>----</td>
<td>----</td>
<td>----</td>
</tr>
<tr>
<td>d)</td>
<td>Stack height Above the ground</td>
<td>----</td>
<td>----</td>
<td>----</td>
</tr>
<tr>
<td>e)</td>
<td>Diameter / Size in Mts.</td>
<td>----</td>
<td>----</td>
<td>----</td>
</tr>
<tr>
<td>f)</td>
<td>Details of Air Pollution Control Equipment</td>
<td>Acoustic enclosures</td>
<td>Bag filters</td>
<td>Bag filters</td>
</tr>
<tr>
<td>g)</td>
<td>Emission standard</td>
<td>----</td>
<td>----</td>
<td>----</td>
</tr>
</tbody>
</table>

24. **Solid / Hazardous waste generation:**

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Name of the Solid / Hazardous Waste</th>
<th>Stream Number as per HWM Rules</th>
<th>Quantity of Solid / Hazardous waste</th>
<th>Disposal Option</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Zinc Ash/ residue</td>
<td>6.2 of Sch-I</td>
<td>2.06 TPD</td>
<td>Proposed to sold out to authorized recyclers</td>
</tr>
<tr>
<td>2.</td>
<td>Zinc Scraps</td>
<td>6.2 of Sch-I</td>
<td>21 TPD</td>
<td>Shall be used as a raw material under HAZ rules</td>
</tr>
<tr>
<td>3.</td>
<td>Zinc Dross</td>
<td>6.2 of Sch-I</td>
<td>21 TPD</td>
<td></td>
</tr>
</tbody>
</table>

25. **Compliance with earlier CFE/CFO conditions:**

<table>
<thead>
<tr>
<th>Type</th>
<th>Conditions</th>
<th>Compliance status</th>
</tr>
</thead>
<tbody>
<tr>
<td>CFE</td>
<td>The industry shall continuously operate the existing air pollution control equipment (APCE) i.e. Bag filters attached to the Oil Burner Furnaces – 4 x 4 TPD, so as to meet the Board’s emission standard of SPM-115 mg/Nm³.</td>
<td>Complying</td>
</tr>
<tr>
<td>CFE</td>
<td>The source of water is bore well / APIIC and the maximum permitted water consumption is 5 KLD</td>
<td>Water is utilizing for domestic purpose only and there is no water utilization in the process</td>
</tr>
<tr>
<td>CFE</td>
<td>The maximum Waste Water Generation (KLD) shall not exceed the 3.5 KLD</td>
<td>Complied</td>
</tr>
</tbody>
</table>

Septic tank were provided for domestic effluents
| CFE | 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. | Complied. One DG set of 500KVA provided with acoustic enclosures under expansion |
| CFE | The Air Pollution control equipment shall be installed along with the commissioning of the activity | Complied |
| CFE | The industry shall comply with the Solid waste CFE Expansion order | Agreed to comply. |
| CFE | The following rules and regulations notified by the MOE&F, GOI shall be implemented. a) Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016. b) Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989. c) Rules for manufacture, use, import, export and storage of Hazardous micro-organisms / genetically engineered organisms or cells, 1989. | Directed to comply the rules |
| CFE | The industry shall provide digital flow meter with totaliser facility for measuring the water used and maintain log registers | To be complied |
| CFE | The industry shall continuously operate the existing air pollution control equipment (APCE) i.e. Pulsejet bag filter system attached to the suction and collection of Zinc oxide, so as to avoid processing emissions and fugitive emissions to maintain ambient air quality standards | Operating the air pollution control equipment |
| CFE | The industry shall develop green belt in all the vacant places. In future, excess green belt over and above 33% of total area can be utilized for industrial activity as per requirement of industry. In any case, the minimum greenbelt shall be 33% of the total area. | Greenbelt to be improved |
| CFE | The industry shall not exceed the following Ambient Air Quality standards measured outside the factory premises at periphery of industry- SO2 – 80 g/m3, NOx – 80 g/m3, PM2.5 – 60 g/m3, PM10 – 100 g/m3, Noise levels : Day time (6 AM to 10 PM) - 75 dB Night time (10 PM to 6 AM) - 70 dB(A). | Directed to comply the standards |
| CFE | The Committee observed that the industry supposed to send 1.5 tons / day of zinc ash / residue and oil sludge to the authorized reprocessors. Whereas, the industry is lifted only 0.809 tons / day of zinc ash / residue and oil sludge to the authorized reprocessors. The industry shall explain the disposal of total zinc ash / residue – 1.3 tons / day and oil sludge – 200 kgs / day generated, the names of the authorized reprocessors to whom the residue / oil sludge was sent including quantities from Form IV submitted by the industry regarding disposal of the Hazard waste is here with enclosed | |
| CFE | The industry shall not generate any waste water from the process & wash and shall not discharge any waste water outside the industry premises under any circumstances. | Complying |
| CFE | The industry shall continuously operate the existing air pollution control equipment (APCE) i.e. Bag filters attached to the Oil Burner Furnaces – 2 x 4 TPD and Oil Burner Furnaces – 2 x 4 TPD, so as to meet the Board's emission standard of SPM-115 mg/Nm³. | Complying |
| CFE | The industry shall provide dedicated energy meters to the individual bag filters attached to the oil burner furnaces and maintain log registers. | Bag filters not provided to the oil fired furnaces. The representative of the industry informed that they are using Furnace oil as fuel to the furnaces hence it will not generate dust emissions. |
| CFE | The industry shall properly collect zinc ash & residue | Directed to comply |
and oil sludge and store in an elevated concrete platform in a closed system with dyke wall and dispose zinc ash & residue to authorized reprocessors, in compliance with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.

<table>
<thead>
<tr>
<th>CFE</th>
<th>The industry shall not dispose any solid waste outside the factory premises.</th>
<th>Complying</th>
</tr>
</thead>
<tbody>
<tr>
<td>CFE</td>
<td>The industry shall not cause any water pollution / air pollution / noise pollution to the surrounding environment under any circumstances.</td>
<td>Directed to comply</td>
</tr>
<tr>
<td>CFE</td>
<td>The industry shall not exceed the capacity of the product specified in this Order.</td>
<td>Agreed to comply</td>
</tr>
<tr>
<td>CFE</td>
<td>The industry shall ensure that there shall not be any change in the process technology, source &amp; composition of raw materials and scope of working without prior approval from the Board</td>
<td>Agreed to comply.</td>
</tr>
<tr>
<td>CFE</td>
<td>The industry shall comply with all the directions issued by the Board from time to time.</td>
<td>---</td>
</tr>
<tr>
<td>CFE</td>
<td>The industry shall not operate the unit without obtaining CFO Expansion Order from the Board.</td>
<td>---</td>
</tr>
<tr>
<td>CFE</td>
<td>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 attract action under the provisions of relevant pollution control Acts.</td>
<td>----</td>
</tr>
<tr>
<td>CFE</td>
<td>The Order is issued without prejudice to the rights and contentions of this Board in any court of law.</td>
<td>---</td>
</tr>
<tr>
<td>CFE</td>
<td>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.</td>
<td>---</td>
</tr>
<tr>
<td>CFE</td>
<td>The industry shall comply with the following for controlling air pollution as per CFE Expansion order</td>
<td>Existing :: The industry has provided 8nos of oil-fired furnaces of 4TPD capacity each and provided TWO Common chimneys and One bag filter provided for control dust emissions generate during feeding of material to the 8no of furnaces. The industry also provided 3 no of bag filters for collection of Zinc Oxide which is product. Expansion :: Under expansion the industry has provided 9 nos of oil fired furnaces and provided Three chimneys and 5nos of bag filter provided</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The industry has provided total 7 nos of bag filters for product collection and 2 no.s for collection dust emissions at the furnaces with hood system at each furnace</td>
</tr>
<tr>
<td>CFE</td>
<td>The industry shall provide air pollution control equipment (APCE) i.e. Pulsejet bag filter system attached to the suction and collection of Zinc oxide, so as to avoid processing emissions and fugitive emissions to maintain ambient air quality standards.</td>
<td>Existing :: The industry has provided 8nos of oil fired furnaces of 4TPD capacity each and provided TWO Common chimneys and One bag filter provided for control dust emissions generate during feeding of material to the 8no of furnaces. The industry also</td>
</tr>
<tr>
<td>CFE</td>
<td>The industry shall provide air pollution control equipment (APCE) i.e. Bag filters attached to the Oil Burner Furnaces (3 nos) – 3 x 4.5 TPD, so as to meet the Board’s emission standard of SPM-115 mg/ Nm³.</td>
<td>The industry has provided total 7 nos of bag filters for product collection and 2 no.s for collection dust emissions at the furnaces with hood system at each furnace</td>
</tr>
<tr>
<td>CFE</td>
<td>The industry shall utilize existing machinery for the production expansion capacities</td>
<td>The industry has installed additional 9 no of furnaces and One DG set</td>
</tr>
<tr>
<td>-----</td>
<td>----------------------------------------------------------------------------------</td>
<td>--------------------------------------------------</td>
</tr>
<tr>
<td>CFE</td>
<td>The industry shall provide air pollution control equipment (APCE) i.e. Bag filters attached to the Oil Burner Furnaces (4 nos) – 4 x 4.5 TPD, so as to meet the Board's emission standard of SPM-115 mg/ Nm³.</td>
<td>Existing ::: The industry has provided 8nos of oil fired furnaces of 4TPD capacity each and provided TWO Common chimneys and One bag filter provided for control dust emissions. The industry also provided 3 no of bag filters for collection of Zinc Oxide which is product. Expansion :: Under expansion the industry has provided 9 nos of oil fired furnaces and provided Three chimneys and 5nos of bag filter provided.</td>
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<td>Existing ::: The industry has provided 8nos of oil fired furnaces of 4TPD capacity each and provided TWO Common chimneys and One bag filter provided for control dust emissions. The industry also provided 3 no of bag filters for collection of Zinc Oxide which is product. Expansion :: Under expansion the industry has provided 9 nos of oil fired furnaces and provided Three chimneys and 5nos of bag filter provided.</td>
</tr>
<tr>
<td>CFE</td>
<td>The industry shall utilize existing machinery for the production expansion capacities</td>
<td>The industry has installed 9 nos of new furnaces and one number of DG set under expansion and provided 5 nos of bag filters for control of emissions.</td>
</tr>
</tbody>
</table>

26. Complaints / Legal cases, if any :: --------

27. Inspecting Officer’s Remarks :

1. The Board has issued Consent for Establishment to M/s BDJ Oxides Private Limited to establish industry at Plot No : 10, APIIC Industrial Park, Attibavaram (V), Ozili (M), SPSR Nellore District to produce Zinc Oxide - 24.0 TPD or 7200 TPA vide CFE order Dt. 23.12.2014. The Board has issued 1st CFO to the industry on 02.02.2016 which is valid up to 31.01.2017. The Board has issued renewal of CFO to the industry on 18.02.2017 which is valid up to 31.01.2022.

2. Later the industry has obtained CFE for expansion of the production capacity of Zinc Oxide from 24 TPD to 32 TPD ie 8 TPD and by products of Zinc ash and residue from 1 TPD to 1.3
TPD vide CFE order dt 04.01.2018. The Board has issued CFO & HWA to the industry on 03.04.2018 for the production capacity of Zinc Oxide 8 TPD which is valid up to 31.01.2022.

3. The industry has installed 8 nos of 4 TPD capacity oil fired furnaces to produce 32 TPD capacity of Zinc Oxide. The industry has provided 3 nos of bag filters to collect the Zinc oxide from the furnaces. The industry has provided One Bag filter with hood system to the 8 no. of furnaces to control dust emissions generate during feeding of raw materials to the furnaces and 2 no. of common stacks were provided to the 8 no of oil fired furnaces to control emissions.

4. The industry has installed 8 nos of 4 TPD capacity oil fired furnaces to produce 32 TPD capacity of Zinc Oxide. The industry has provided 3 nos of bag filters to collect the Zinc oxide from the furnaces. The industry has provided One Bag filter with hood system to the 8 no. of furnaces to control dust emissions generate during feeding of raw materials to the furnaces and 2 no. of common stacks were provided to the 8 no of oil fired furnaces to control emissions.

5. The industry has generated 1.3 TPD Zinc ash /residue from the furnaces and disposing to authorized recyclers. The industry obtained registration certificate from the Board for procuring of the Zinc dross/Scrap/Skimmings -8640 Tons/Annum for recycling/ Re- refining of hazardous waste vide Order Dt.15.10.2018 which is valid up to 21.03.2021. Copy enclosed. The industry use the above as a raw material.

6. The industry again gone for expansion of the production capacity Zinc oxide 32 TPD to 81.5 TPD i.e. 49.5 TPD vide CFE (Expansion) order dt 19.07.2018. Under expansion, of the industry proposed to install 11 no of oil fired furnaces of 4.5 TPD capacity. The industry has requested the Board on 14.08.2019 for issue of amendment of the CFE order duly amending the furnaces capacities as 7x4.5 TPD and 2x9 TPD and the RO, Nellore has forwarded the request of the industry was forwarded to ZO, VJA vide T.O. Lr. dated. 16.08.2019. Copy of the letter is herewith enclosed. The CFE amendment yet to be issued.

7. The industry has also submitted Authorization under Hazardous & Other Wastes (Management & Transboundary) Rules, 2016 for procuring the Zinc dross - 21 TPD and Zinc Scraps - 21 TPD as a raw material under HAZ rules. The industry generates Zinc ash and residue of 2.06 TPD and is proposed to sold out to authorized recyclers.

Issue of CFO & HW Authorization for the expansion capacity of Zinc Oxide - 49.5 TPD may be considered duly stipulating necessary conditions as applicable

28. **Regional Officer's Remarks:**

   Issue of CFO & HW Authorization for the expansion capacity of Zinc oxide - 49.5 TPD may be considered duly stipulating necessary conditions as applicable

29. **ZO, Remarks:**

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