CONSENT is hereby granted for Operation under section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of Air (Prevention & Control of Pollution) Act 1981 and amendments thereof and Authorisation under Rule 6 of the Hazardous & Other Wastes (Management and Transboundary, Movement) Rules, 2016 and the rules and orders made there under (hereinafter referred to as ‘the Acts’, `the Rules’) to:

M/s. Abhijeet Ferrotech Limited, (Expansion)
Plot No. 50, 51, 52, 54, 55 & 56, APSEZ,
Atchutapuram (V&M), Visakhapatnam District - 530 026
Email : venkat.praneeth@abhijeet.in

(Hereinafter referred to as ‘the Applicant’) authorizing to operate the industrial plant to discharge the effluents from the outlets and the quantity of emissions per hour from the chimneys as detailed below:

i) Outlets for discharge of effluents:

<table>
<thead>
<tr>
<th>Outlet No.</th>
<th>Outlet Description</th>
<th>Max Daily Discharge (KLD)</th>
<th>Point of Disposal</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Cooling tower Blow Down</td>
<td>252</td>
<td>Shall be reused for slag granulation make up / for dust suppression.</td>
</tr>
<tr>
<td>2.</td>
<td>Domestic Effluents after Treatment</td>
<td>33</td>
<td>Shall be used for greenbelt development after treatment in STP.</td>
</tr>
</tbody>
</table>

ii) Emissions from chimneys:

<table>
<thead>
<tr>
<th>Chimney No.</th>
<th>Description of Chimney</th>
<th>Quantity of Emissions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-8.</td>
<td>Attached to Submerged Arc Furnaces - 8 Nos of operating capacity 16.25 MVA each</td>
<td>--</td>
</tr>
<tr>
<td>9.</td>
<td>Attached to 3,00,000 TPA Sinter plant</td>
<td>--</td>
</tr>
<tr>
<td>10.</td>
<td>Attached to Sinter plant cooler</td>
<td>--</td>
</tr>
<tr>
<td>11.</td>
<td>Attached to emissions at weigh feeder</td>
<td>--</td>
</tr>
<tr>
<td>12.</td>
<td>Attached to emissions at screen, primary mixer and secondary mixer</td>
<td>--</td>
</tr>
<tr>
<td>13.</td>
<td>Attached to 250 KVA DG sets - 2 Nos.</td>
<td>--</td>
</tr>
</tbody>
</table>
iii) HAZARDOUS WASTE AUTHORISATION (FORM - II) [See Rule 6 (2)]:

M/s. Abhijeet Ferrotech Limited, Plot No.50,51,52,54,55 & 56, APSEZ, Atchutapuram, Visakhapatnam District., is hereby granted an authorization to operate a facility for collection, reception, storage, treatment, transport and disposal of Hazardous Waste namely:

- HAZARDOUS WASTES WITH RECYCLING OPTION:

<table>
<thead>
<tr>
<th>S. No</th>
<th>Name of the Hazardous waste</th>
<th>Stream</th>
<th>Quantity</th>
<th>Disposal Option</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Waste oil</td>
<td>5.1 of Schedule A</td>
<td>100 lt/month</td>
<td>To agencies authorized by Board.</td>
</tr>
</tbody>
</table>

This consent order is valid for operation of 8 no of furnaces to produce the following products with capacities indicated only:

<table>
<thead>
<tr>
<th>Sl. No</th>
<th>Name of the product</th>
<th>Total after expansion</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Ferro Manganese (or)</td>
<td>2,38,802 TPA</td>
</tr>
<tr>
<td></td>
<td>Silico Manganese</td>
<td>2,92,000 TPA</td>
</tr>
<tr>
<td>2.</td>
<td>Manganese ore sinter</td>
<td>3,00,000 TPA</td>
</tr>
</tbody>
</table>

*The industry shall manufacture one product at a time i.e., production of Ferro Manganese shall not exceed 2,38,802 TPA and Silico Manganese shall not exceed 2,92,000 TPA

This order is subject to the provisions of `the Acts’ and the Rules’ and orders made thereunder and further subject to the terms and conditions incorporated in the schedule A, B & C enclosed to this order.

This combined order of consent & Hazardous Waste Authorisation shall be valid for a period ending with the 31st day of December, 2022.
in this order shall be informed to this Board, under intimation to the Collector and District Magistrate and take immediate action to bring down the discharge / emission below the limits.

2. The industry should carry out analysis of waste water discharges or emissions through chimneys for the parameters mentioned in this order on quarterly basis and submit to the Board.

3. All the rules & regulations notified by Ministry of Law and Justice, Government of India regarding Public Liability Insurance Act, 1991 should be followed as applicable.

4. The industry should put up two sign boards (6x4 ft. each) at publicly visible places at the main gate indicating the products, effluent discharge standards, air emission standards, hazardous waste quantities and validity of CFO and exhibit the CFO order at a prominent place in the factory premises.

5. Not withstanding anything contained in this consent order, the Board hereby reserves the right and powers to review / revoke any and/or all the conditions imposed herein above and to make such variations as deemed fit for the purpose of the Acts by the Board.

6. The industry shall file the water cess returns in Form-I as required under section (5) of Water (Prevention and Control of Pollution) Cess Act, 1977 on or before the 5th of every calendar month, showing the quantity of water consumed in the previous month along with water meter readings. The industry shall remit water cess as per the assessment orders as and when issued by Board.

7. The applicant shall submit Environment statement in Form V before 30th September every year as per Rule No.14 of E(P) Rules, 1986 & amendments thereof.

8. The applicant should make applications through Online for renewal of Consent (under Water and Air Acts) and Authorization under HWM Rules at least 120 days before the date of expiry of this order, along with prescribed fee under Water and Air Acts and detailed compliance of CFO conditions for obtaining Consent & HW Authorization of the Board. The industry should immediately submit the revised application for consent to this Board in the event of any change in the raw material used, processes employed, quantity of trade effluents & quantity of emissions. Any change in the management shall be informed to the Board. The person authorized should not let out the premises / lend / sell / transfer their industrial premises without obtaining prior permission of the State Pollution Control Board.

9. 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 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.

**SCHEDULE - B**

1. The Board vide order dated 01.12.2011 issued CFE to manufacture Ferro Manganese - 2,38,802 TPA (or) Silico Manganese - 3,35,399 TPA and Manganese Ore Sinter - 3,00,000 TPA with plant configuration Ferro Manganese (or) Silico Manganese - 16 x 22.5 MVA and Manganese Ore Sinter - 0.3 MTPA. The Board issued CFO to manufacture Ferro Manganese (or) Silico Manganese - 2,38,802 TPA(either or both shall not exceed 2,38,802 TPA) and Manganese Ore Sinter - 3,00,000 TPA is valid upto 31.12.2022. Now, the industry applied for CFO expansion for Ferro Manganese (or) Silico Manganese - 2,38,802 TPA to Ferro Manganese - 2,38,802 TPA (or) Silico Manganese - 2,92,000 TPA (after expansion).
The Committee noted the following non compliances:

i. Storing the raw material in open yard.

ii. 4 no of sprinklers at Raw material yard, 4 nos at Raw material ground hoppers.

iii. The average production of Silico Manganese (19978.574 TPM) is exceeding the permitted quantity (19,900.2 TPM)

iv. About 52,495 Tons of slag was stored in the premises and Bag filter dust was stored in the premises openly.

v. Housekeeping to be improved on the roads, at the Raw material yard, Bag filter dust storage area.

vi. Not completed total internal roads.

The representative of the industry attended the meeting and informed the following:

1. Constructed 2 no of sheds for storage of Raw material and storing raw materials in closed sheds.

2. Installed 9 No of sprinklers at Raw material yard,

3. Annual average production is less than permitted quantity.

4. Out of 52,495 Tons of slag, 5425 MT stored within the premises and remaining shifted to KHIZAN POWER LTD site and GCP Dust will be used in the Sinter plant to make sinter. Presently cover with tarpaulins.

5. Will improve the House Keeping.

6. Will complete the internal roads within 3 months i.e., end of December.

After detailed discussions on verification report of the EE, RO: Visakhapatnam, agenda and submissions of the representatives of the industry, the committee recommended to issue CFO & HWA expansion order to the industry by stipulating the following conditions:

a. The industry shall store raw materials in the closed shed only.

b. The industry shall complete internal roads within 3 months i.e., End of December, 2019.

c. The industry shall maintain good housekeeping.

WATER POLLUTION:

2. The effluent discharged shall not contain constituents in excess of the tolerance limits mentioned below:

<table>
<thead>
<tr>
<th>Outlet No.</th>
<th>Parameter</th>
<th>Limiting Standards</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.</td>
<td>pH</td>
<td>6.5 - 8.5</td>
</tr>
<tr>
<td></td>
<td>Total Suspended Solids (TSS)</td>
<td>100.0 mg/l</td>
</tr>
<tr>
<td></td>
<td>Total Dissolved Solids (TDS)</td>
<td>2100.0 mg/l</td>
</tr>
<tr>
<td></td>
<td>Oil and Grease</td>
<td>10.0 mg/l</td>
</tr>
<tr>
<td></td>
<td>COD</td>
<td>250.0 mg/l</td>
</tr>
</tbody>
</table>

3. The source of water is APIIC. The following is the permitted water consumption:

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Purpose</th>
<th>Quantity (KLD)</th>
</tr>
</thead>
</table>
Dust suppression | 74
---|---
Domestic | 66
**Total** | 1760

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

**AIR POLLUTION:**

4. The emissions shall not contain constituents in excess of the prescribed limits mentioned below.

<table>
<thead>
<tr>
<th>Chimney No.</th>
<th>Parameter</th>
<th>Emission Standards</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-12</td>
<td>Particulate matter</td>
<td>50 mg/Nm³</td>
</tr>
</tbody>
</table>

5. The industry shall comply with ambient air quality standards of PM₁₀ (Particulate Matter size less than 10 microns) - 100 micro gram/ m³; PM₂.₅ (Particulate Matter size less than 2.5 microns) - 60 micro gram/ m³; SO₂ - 80 micro gram/ m³; NOₓ - 80 micro gram/m³, outside the factory premises at the periphery of the industry.

 Standards for other parameters as mentioned in the National Ambient Air Quality Standards CPCB Notification No. B-29016/20/90/PCI-I, dated 18.11.2009

**Noise Levels:**

- Day time - (6 AM to 10 PM) - 75 dB (A)
- Night time - (10 PM to 6 AM) - 70 dB (A)

**GENERAL:**

6. The industry shall not increase the capacity beyond the permitted capacity mentioned in this order.

7. The industry shall maintain proper calibration of CAAQMs and stack analysers and maintain records.

8. The industry shall maintain water meters at inlet and at outlet of STP and maintain records.

9. The industry shall maintain permanent water sprinkling system at raw material stock yard and maintain records.

10. All the raw materials shall be stored in storage sheds and adequate dust containment/ suppression measures shall be maintained all around storage yard to control fugitive emissions. The industry shall not cause any air pollution / dust nuisance in the surroundings.

11. The industry shall operate the Air Pollution Control Equipments regularly and maintain the log registers with energy meters and hour meters to record the power consumption etc.

12. The industry shall operate slag granulation plant and dipsose slag regularly as stipulated.

13. The industry shall operate online SPM monitoring systems to all the furnace stacks and the 3 CAAQMs with link to the Board’s website and maintain records.

14. The industry shall maintain interlocked system between the APC systems & raw material feed system.

15. The industry shall maintain good housekeeping within the plant premises.

16. The industry shall maintain roof extraction system connected to air pollution control system to control the emissions generated from furnaces.

17. The industry shall take all safety measures and provide firefighting equipment in the plant.

18. The industry shall comply with following solid waste disposal methods:
<table>
<thead>
<tr>
<th>S.No</th>
<th>Name of the waste</th>
<th>Quantity</th>
<th>Disposal option</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Liquid Slag + Entrapped metal</td>
<td>717 TPD</td>
<td>Shall be used in filling up of low level land, Road paving, Brick making etc., after extraction of Entrapped metal (20%) Slag.</td>
</tr>
<tr>
<td>2</td>
<td>Silico manganese slag</td>
<td>720 TPD</td>
<td>Shall be used in road construction works &amp; filling up of low lying areas</td>
</tr>
<tr>
<td>3</td>
<td>Ferro Manganese Slag</td>
<td></td>
<td>Shall be used in production of Silica Manganese.</td>
</tr>
<tr>
<td>4</td>
<td>Dust from Dedusting Units like transverse points of coal conveyors and silos</td>
<td>147 TPD</td>
<td>Coal fines to be reused as fuel and ash to nearby brick kiln makers.</td>
</tr>
</tbody>
</table>

19. The industry shall not discharge any wastewater outside the factory premises and maintain zero discharge of effluents.

20. The industry shall comply with the Board directions issued by the Board from time to time.

**SCHEDULE – C**

*[see rule 6(2)]*

**[ CONDITIONS OF AUTHORISATION FOR OCCUPIER OR OPERATOR HANDLING HAZARDOUS WASTES ]**

1. The authorised person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.

2. The authorisation shall be produced for inspection at the request of an officer authorised by the State Pollution Control Board.

3. The person authorised shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorisation.

4. Any unauthorised change in personnel, equipment or working conditions as mentioned in the application by the person authorised shall constitute a breach of his authorisation.

5. The person authorised shall implement Emergency Response Procedure (ERP) for which this authorisation is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time;

6. The person authorised shall comply with the provisions outlined in the Central Pollution Control Board guidelines on “Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty”.

7. It is the duty of the authorised person to take prior permission of the State Pollution Control Board to close down the facility.

8. An application for the renewal of an authorisation shall be made as laid down under these Rules.

9. Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.

**Specific Conditions:**

10. Annual return shall be filed by June 30th for the period ensuring 31st March of the year.

11. The industry shall not store hazardous waste for more than 90 days as per the Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016.

12. The industry shall store Used / Waste Oil and Used Lead Acid Batteries in
a secured way in their premises till its disposal to the manufacturers / dealers on buyback basis.

13. The industry shall maintain 7 copy manifest system for transportation of waste generated and a copy shall be submitted to concerned Regional Office of APPCB. The driver who transports Hazardous Waste should be well acquainted about the procedure to be followed in case of an emergency during transit. The transporter should carry a Transport Emergency (TREM) Card.

14. The industry shall maintain proper records for Hazardous and Other Wastes stated in Authorisation in Form-3 i.e., quantity of Incinerable waste, land disposal waste, recyclable waste etc., and file annual returns in Form-4 as per Rule 20 (2) of the Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016.

The industry shall submit the condition wise compliance report of the conditions stipulated in Schedule A, B & C of this Order on half yearly basis to Board Office, Vijayawada and concerned Regional Office.

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

To
M/s. Abhijeet Ferrotech Limited,
Plot No. 50, 51, 52, 54, 55 & 56, APSEZ,
Atchutapuram (V&M), Visakhapatnam District - 530 026