



OFFICE OF THE  
STATE POLLUTION CONTROL BOARD, ORISSA

Parivesh Bhawan, A/118, Nilakantha Nagar, Unit-VIII,  
Bhubaneswar - 751 012

No. 4638 /Ind-II-NOC- 2540

Date 29/1/88

L.K. Tewari, IFS

Member Secretary

OFFICE MEMORANDUM

In consideration of the application for obtaining Consent to Establish for M/s SMC Power Generation Ltd., the State Pollution Control Board has been pleased to convey its Consent to Establish under section 25 of Water (Prevention & Control of Pollution) Act, 1974 and section 21 of Air (Prevention & Control of Pollution) Act, 1981 for manufacture/production of the following:

Sl.No	Products	Quantity in tons per year
1.	DRI	1,00,000
2.	Steel billets	1,00,000
3.	Power Plant (based on WHRB)	8 MW

at Village- Hirma, in Jharsuguda district with the following conditions.

GENERAL CONDITIONS.

1. This Consent to establish is valid for the product, quantity, manufacturing process and raw materials as mentioned in the application & for a period of five years from the date of issue of this letter, provided commencement of production of the proposed project has not taken place in the meantime
2. If the proponent fails to start operation of the project but substantial physical progress has been made then a renewal of this consent shall be sought by the proponent.
3. If the proponent fails to initiate construction of the project and no significant physical progress is made then, the proponent has to apply for consent to establish afresh after expiry of 5 years from the date of issue of this order.

4. Adequate effluent treatment facilities are to be provided such that the quality of sewage and trade effluent satisfies the standards as prescribed under Environment Protection Act, 1986 or as prescribed by the Central Pollution Control Board and/or State Pollution Control Board or otherwise stipulated in the special conditions.
5. All emission from the industry as well as the ambient air quality and noise are to conform to the standards as laid down under Environment(Protection) Act, 1986 or as prescribed by Central Pollution Control Board/State Pollution Control Board or otherwise stipulated in the special conditions.
6. Adequate method of disposal of solid waste is to be adopted to avoid environmental pollution.
7. The industry is to comply to the provisions of Environment Protection Act, 1986 and the rules made thereunder with their amendments from time to time such as the Hazardous Waste (Management & Handling) Rules, 1989, Hazardous Chemical Rules, /Manufacture, Storage and Import of Hazardous Chemical Rules, 1989 etc. and amendments thereunder. The industry is also to comply to the provisions of Public Liability Insurance Act, 1991, if applicable.
8. The industry is to apply for grant of Consent to operate under section 25/26 of Water(Prevention & Control of Pollution)Act, 1974 & Air (Prevention & Control of Pollution)Act, 1981 at least 3 (three) months before the commercial production and obtain Consent to Operate from this Board.

#### **SPECIAL CONDITIONS :-**

1. ESP shall be provided at the stack attached to the rotary kilns such that particulate emission shall not exceed  $75 \text{ mg/Nm}^3$ .
2. Pulse jet bag filters of adequate capacity shall be installed at crushers screens, conveyors of raw materials handling and product handling area, cooler discharge, magnetic separator and other potential dust generating points to minimize fugitive emission. The particulate emission from all vents / stacks connected to the bag filters shall not exceed  $100 \text{ mg/Nm}^3$ . The unit shall provide port hole and plat form at suitable location on the stack with safe approach to conduct emission monitoring.
3. Bag filters shall be provided at coal injection point, raw material feeding point of the kiln to control fugitive dust. Slip rings of kiln shall be maintained properly to prevent dust leakages.
4. Swivelling hood of adequate size shall be installed to collect fumes during charging and pouring of metals from the induction furnace. The fumes so collected shall be directed through an air pollution control device so as to meet the standard of  $100 \text{ mg/Nm}^3$  for particulate matter.

5. The concentration particulate matter in the emission through stack attached to ladle furnace shall not exceed  $100 \text{ mg/Nm}^3$ .
6. The industry shall obtain clearance of Central Ground Water Authority for drawal of water (if applicable) and shall submit the Board while applying for consent to operate.
7. The roads shall be black topped. Permanent high pressure water spraying system shall be installed for regular spraying of water on roads and work zone to minimize fugitive dust emission.
8. The industry shall conform to the National Ambient Air Quality Standard.
9. The industry shall install separate energy meter for ESP and other pollution control devices and maintain a log book to record the meter readings.
10. The industry shall maintain a separate log book for the quantity of dust collected in the ESP & B.F and its final disposal.
11. The D.G. Set shall be installed in an acoustically designed enclosure to control noise level and over anti vibration pads to avoid vibration.
12. The height of the stack attached to the D.G. Sets shall conform to the following.  
 $H = h + 0.2 \sqrt{\text{KVA}}$  where  
h = Height of the building where it is installed in meter.  
KVA = Capacity of the D.G. Set  
H = Height of the stack in meter above ground level.
13. The effluent generated from cooling etc. shall be completely recycled and under no circumstances there shall be any discharge of effluent from the factory premises.
14. The domestic effluent shall be treated properly in septic tanks followed by soak pits as per BIS specification.
15. A Comprehensive management plan for collection, handling, transportation and disposal of solid waste generated from various section shall be submitted to the Board within 02 months of issue of this order. The failure of submission of this plan shall automatically lead to revocation of this consent order. This consent to establish is subject to approval of solid waste management plan by this Board. At least 10 acres of land for 100 TPD of product shall be earmarked for solid waste disposal.
16. The solid waste generated shall be suitably disposed off within the premises or any other designated area after due approval of the Board so as not to create any dust nuisance or ground water contamination.
17. The industry shall develop a thick green belt around the factory premises and specifically around the dust generation area and solid disposal area. The green belt area shall be super imposed on general layout plan and submitted to the Board within 02 months of issue of this order.
18. The Board may impose further conditions after receipt of green belt plan, solid waste management plan which shall be enforceable inter-alia imposed vide this order.

19. The effluent generated from the After Burning Chamber (ABC) shall be adequately treated in settling tanks and recycled. The sludge shall be disposed off properly.
20. No production activity shall commence prior to installation of all pollution control measures.
21. The industry shall obtain clearance of Central Ground Water Authority for drawal of water (if applicable) and shall submit the Board while applying for consent to operate.
22. The height of the stack of CPP boiler shall conform as per EP Notification GSR 742(E), Dt.30.08.1990 where Q is the emission rate of SO<sub>2</sub> in Kg. Per hour and H is stack height in meter.
23. Fugitive emission from all possible sources shall be minimized.
24. The blow down shall meet the following standards before it is discharged to the common monitoring basin.

**Boiler Blow down**

Suspended Solids	-	100.0 mg/l (Max.)
Oil & Grease	-	20.0 mg/l (Max.)
Copper (Total)	-	1.0 mg/l (Max.)
Iron (Total)	-	1.0 mg/l (Max.)

**Cooling Tower Blow down**

Free available Chlorine	-	0.5 mg/l (Max.)
Zinc	-	1.0 mg/l (Max.)
Chromium (Total)	-	2.0 mg/l (Max.)
Phosphate	-	0.2 mg/l (Max.)

25. The wastewater generated from leakages, dust suppression, blow down and DM plant shall be treated individually to meet the prescribed standard of effluent discharge to inland surface water and stored in a common basin for utilization for plantation and green belt purposes inside the factory premises.
26. This consent to establish is granted subject to Clearance from Forest Department, if Forest land is involved in the acquired land. The industry shall obtain clearance from Forest Department for involvement of Forest land, if any, and shall submit the documents to this Board while applying for consent to operate.
27. The proponent shall construct a separate black topped road for its use before commencement of the construction work and an action plan is to be submitted within 15 days of issue of this order.
28. The revised energy balance, water balance, oil (LDO) requirement, cost of pollution control measures shall be submitted to this Board within 15 days of issue of this order.
29. The industry shall keep provision of additional fields for ESP in design stage so that emission level shall be limited to less than 75 mg/NM<sup>3</sup> and this shall be submitted to the Board within 15 days of issue of this letter.

30. The MOU signed with appropriate authority with respect to supply of coal drawal of water from IB river shall be submitted to the Board within 15 days of issue of this letter.
31. The proponent has to provide GCT in case of failure of waste heat recovery boiler. An undertaking to this effect shall be submitted and the proponent shall have to submit an under taking that at no point of time the plant can not operate without operation of ESP. The above document shall be submitted to the Board within 15 days of issue of this letter.
32. The Industry shall submit base line data on ambient air quality and predominant wind direction of the proposed site within 15 days of issue of this letter.
33. The industry shall take up adequate measure for routine health check up of its employees / workers and the people residing in the neighbourhood of the plant free of cost.
34. The Board may impose further condition or modify the conditions as stipulated in this order during installation and/or at that time of obtaining consent to operate and may revoke this order in case the stipulated conditions are not implemented and / or information is found to have been suppressed / wrongly furnished in the application form.
35. No construction activity with respect to establishment of phase-II of the proposed plant shall commence till submission of full and firmed requisite supporting documents of expansion, if any and subject to verification of these documents.
36. The industry shall abide by EP Act, 1986 and Rules framed thereunder.

(12)

**MEMBER SECRETARY**

To,

The Vice President  
M/s SMC Power Generation Corporation Ltd.,  
311, Vardan Mahaveer Street,  
Ansari Road, Daryaganj, New Delhi-110002

Memo No. \_\_\_\_\_ /Dt.

Copy forwarded to .

1. The Collector, Jharsuguda
2. District Industries Centre, Jharsuguda
3. Chief Inspector of Factories & Boiler, Bhubaneswar
4. Environment Engineer
5. Copy to Guard file/Consent to establish register

**SR. ENV. ENGINEER**