

CONSENT TO
ESTABLISH.

BY REGD POST



OFFICE OF THE
STATE POLLUTION CONTROL BOARD, ORISSA

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

No. 30859 /Ind-II-NOC- 3501

Date 7-10-05

OFFICE MEMORANDUM

In consideration of the application for obtaining Consent to Establish and in pursuance with letter of District Collector, Jharsuguda vide letter No. 599 dtd. 05.10.2005 for M/s. Action Ispat & Power (P) Ltd., the State Pollution Control Board has been pleased to convey its Consent to Establish for establishment of Integrated Steel plant 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	Units	Quantity in tonne Per Annum
1.	DRI	1X350 TPD Kiln	1,10,000 MT
2.	Steel Billet	i) 2X 12 T Induction Furnace (II) Concast machine	1,25,000 MT
3.	Power Plant (based on WHRB)	8 MW	8 MW
4.	Washed Coal	Coal washery	1.074 Million Tonne

at Village- Pandaripathar & Marakuta, PO- Jharsuguda in district of Jharsuguda 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 Rule, 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.
 9. This consent to establish is subject to other statutory clearances from Govt. of Orissa and/or Govt. of India, as and when applicable.

SPECIAL CONDITIONS :-

1. The industry shall be established such that its all air polluting units shall be located at least at an distance of 500 meters from Railway Line as well as nearby human habitation.
2. ESP shall be provided at the stack attached to the rotary kiln such that particulate emission shall not exceed 100 mg/Nm^3 from the stack.
3. 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 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.
4. 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.
5. 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 150 mg/Nm^3 for particulate matter.
6. The internal 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.

7. The industry shall install separate energy meter for ESP and other pollution control devices and maintain a log book to record the meter readings.
8. The industry shall maintain a separate log book for the quantity of dust collected in the ESP & B.F and its final disposal.
9. The DG set shall be installed of adequate capacity having automatic change over facility so that in the event of power failure the plant can be operated with all pollution control measures. The D.G.Set shall be installed in an acoustically designed enclosure to control noise level and over anti vibration pads to avoid vibration.
10. The height of the stack attached to the D.G. Sets shall conform to the following.

$$H = h + 0.2 \sqrt{KVA}$$
 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.
11. 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.
12. The domestic effluent shall be treated properly in septic tanks followed by soak pits as per BIS specification.
13. 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.
14. 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.
15. 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.
16. 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.
17. 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.
18. No production activity shall commence prior to installation of all pollution control measures.
19. 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.
20. 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_2 in Kg. Per hour and H is stack height in meter.
21. Fugitive emission from all possible sources shall be minimized.
22. Provision shall be made for collection of wash water from the garland drain and water collected shall be treated in a sedimentation basin. The overflow from it shall be recycled back in the process.
23. Height of coal heap shall not be more than the height of boundary wall provided.
24. Provision of water sprinkling shall be there at potential source of fugitive emission.
25. If coal will be transported through trucks, tippers etc. they shall be done so under covered condition to avoid any spillages etc. on the road.

26. The wastewater generated from leakages, blow downs and DM plant shall be treated individually and stored in a common monitoring basin before discharge.
27. 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.)

28. 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.
29. Separate energy meter shall be installed for all the pollution control equipments and the records shall be maintained for verification of the Board from time to time.
30. The ambient air quality with respect to suspended particulate matter (SPM) and Respirable particulate matter at the boundary of the factory premises shall conform to the standards hereby fixed as 300 µg/cubic meter and 90 µg/cubic meter respectively. The ambient air quality with respect to other parameters at the boundary of the factory premises shall conform to the standards prescribed under EP Act, 1986 for industrial area. At least four permanent ambient air quality monitoring station shall be installed in four directions.
31. Under no circumstance the wastewater from the coal washery shall be discharged to outside. The detail dimension of the settling/slime pond shall be submitted to the Board within 03 months from the date of issue of this order.
32. Water or water mixed chemical shall be sprayed at all strategic coal transfer points such as conveyers loading/unloading points etc. As far as practically possible conveyors, transfer points etc. shall be provided with enclosures.
33. Water consumption in the coal washery shall not exceed 1.5 m³/Ton of coal.
34. The efficiency of settling ponds of the wastewater treatment system of the coal washery shall not be less than 20%.
35. The industry shall obtain clearance from Forest Department for involvement of Forest land, if any, and shall submit the Board while applying for consent to operate.
36. The industry shall take up adequate measure for routine health check up of its employees/ workers and the people residing in the neighborhood of the plant free of cost.
37. The industry shall submit permission from Competent Authority if Water is drawn from River. The industry shall submit the same to the Board while applying for consent to operate.
38. The rain water harvesting shall be done by the industry.
39. Dust suppression arrangement shall be provided on haul road by using water sprinklers with suitable chemical dosing as suggested in project report.
40. Industry shall provide water sprinklers at all strategic points such as coal stack yards, loading and unloading points, all transfer points, conveyors etc. to

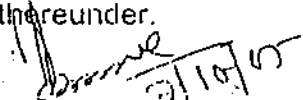
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suppress dust fine atomizer nozzles arrangement shall be provided on the coal heaps and on land around the crusher/pulverizers as suggested in project report.

41. The industry shall provide instant showers at the entrance of the haul road in order to prevent dust formation before its dumping into the receiving pit.
42. Industry shall provide rubberized impact idlers at belt transfer points and all the belt conveyors shall remain under cover.
43. Industry shall provide pneumatic jig with spinning dust remover and rotary reversal blowing bag type dust collector for dust extraction.
44. Industry shall provide green belt along the boundary of plant, road side, coal handling plant, residential complex, office building etc.
45. Industry shall provide pucca road either asphalted or concreted in and around the coal washery.
46. Industry shall regulate vehicles movement inside to avoid traffic congestion. Use of high pressure horns shall be prohibited.
47. Smoke emission from heavy duty vehicle operating in the coal washery shall conform to the standards prescribed under motor vehicle Rules, 1989.
48. The industry shall conform to all the commitments made in the environment management plan incorporated in project report submitted along with NOC application.
49. Industry shall provide garland drains around the plant boundary in order to prevent wash discharge going outside.
50. Industry shall provide internal drains inside the plant for collection of accumulated water which shall be recirculated and reused.
51. Industry shall cover the primary impact zone by rubber sheet of 70 mm thickness and the secondary impact zone by 40 mm thickness in order to prevent noise pollution at the coal transfer points.
52. Industry shall provide polymer sheet of 25 mm thickness at sides of the chutes in all transfer points to control noise pollution.
53. The crusher / pulverisers of the coal washery shall be attached to a stack of minimum 30 meters height and conform particulate emission standard of 150 mg/Nm³.
54. The different in the value of SPM, delta () measured between 25 and 30 meters from the enclosure of coal crushing plant in the downwards and leeward wind direction shall not exceed 150 µg/m³ when measured by high volume sampler with flow rate not less than 1.1 m³ / minute using upwind down wind method of measurement.
55. During rainy season or periodical cleaning of the systems, the effluent discharged to sewer / land / stream shall conform the following standards at the final outlet of the coal washing. pH = 5.5 - 9.0, TSS = 100 mg/l, Oil & grease = 10 mg/l, BOD = (3 days at 27°C) - 30 mg/l, COD = 250 mg/l, Phenolics = 1.0 mg/l.
56. The solid waste such as coal rejects and thickner sludge generated from the unit shall be suitable disposed off within the premises or any other designated area as submitted in the solid waste management plan after due approval of the Board so as not to create any dust nuisance or ground water contamination.
57. The noise level standards shall be 85 dB(A) Leq. for 8 hour exposure in operation / working zone.
58. The ambient air quality standards in respect of noise as notified under EP Rules, 1986 at the boundary line of the coal washing shall conform to the noise limit 75 dB(A) Leq. And 70 dB(A) Leq. During day and night respectively.
59. The industry is to take up the plantation of indigenous species around the available vacant areas inside the factory premises @ 2500 trees / hectare.

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measures. In case, it is found that the plant is operating without installation of appropriate pollution control equipment(s) and without permission for trial operation from the Board, a direction of closure shall be issued u/s 31-A of Air (PCP) Act, 1981 and / or u/s 33-A of Water (PCP) Act, 1974 without any further notice in this regard.

61. The land on which the unit is proposed to be established shall be converted to "Industrial Use" kisam by the competent authority. The copy of said land conversion document shall be submitted to the Board along with consent to operate application.
62. 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.
63. The industry shall not take up any expansion activity in future without obtaining Environmental Clearance from MoEF, Govt. of India
64. The industry shall abide by E(P) Act, 1986 and Rules framed thereunder.


MEMBER SECRETARY

To,
Mr. Naresh Agrawal, Director
M/s Action Ispat & Poer Pvt. Ltd.
AT- 15 /17, East Punjabi Bagh, New Delhi-110026

Memo No. 30853 /Dt. 7-10-05

Copy forwarded to the M.D.WESCO, Burla for information and necessary action with a request to supply restricted power for construction/installation of the project but not to supply full load of electric power till the industry complies installation of pollution control measures and obtained permission for trial run from the Board for starting operation of the kilns.

Memo No. 30834 /Dt. 7-10-05


SR. ENV. ENGINEER

Copy forwarded to :

1. The Collector, Jharsuguda
2. District Industries Centre, Jharsuguda
3. The Director of Factories & Boiler, Bhubaneswar
4. Environment Engineer-II
5. Regional Officer, SPC Board, Sambalpur
6. Copy to Guard file/Consent to establish register
7. Consent Section


SR. ENV. ENGINEER