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**OFFICE OF THE
STATE POLLUTION CONTROL BOARD, ODISHA**

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

No. 2615 /

Ind-II-NOC - 5659

Date 19.02.13 /

OFFICE MEMORANDUM

In consideration of the application for obtaining Consent to Establish of **M/s. Dhamra Port Company Ltd.**, the State Pollution Control Board is 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 expansion(Phase-II) of Dhamra Port Company Ltd. for additional cargo handling capacity of 71.3 MTPA & 1 million TEU containers cargo with following Berthing facilities and Cargo handling capacities**

Berthing facilities and cargo handling capacity	<ul style="list-style-type: none">• Three berths for dry bulk cargo<ul style="list-style-type: none">- Coal : 22.3 MTPA- Iron Ore : 12.3 MTPA- Limestone, manganese and other non-hazardous 1.74 MTPA• Four berths for break bulk cargo and general cargo : 8.0 MTPA• Two liquid / gas cargo jetties<ul style="list-style-type: none">- Crude Oil : 10.0 MTPA- POL products : 2.5 MTPA- Naptha : 2.46 MTPA- LNG : 12.0 MTPA• Two berths for container cargo (1 mission TEU)• One barge facility• One mooring facility for transloading operation
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at Dosinga, Tehsil- Chandbali (plot nos & khata nos. as mentioned in application form) in the district of **Bhadrak** with the following conditions.

GENERAL CONDITIONS.

1. **This Consent to establish is valid for the Cargo Handling capacity & containers cargo mentioned in the application form. This order is valid for five years, which means the proponent shall commence construction of the project within a period of five years from the date of issue of this order. If the proponent fails to do substantial physical progress of the project within five years then a renewal of this consent to establish shall be sought by the proponent.**
2. 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.
3. All emission from the industry as well as the ambient air quality and noise shall 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.
4. Appropriate method of disposal of solid waste is to be adopted to avoid environmental pollution.
5. The industry shall comply to the provisions of Environment Protection Act, 1986 and the rules made there under with their amendments from time to time such as the Hazardous Waste Management, Handling & Transboundary Movement Rules 2008, Hazardous Chemical Rules, /Manufacture, Storage and Import of Hazardous Chemical Rules, 1989 etc. and amendments there under. The industry shall also comply to the provisions of Public Liability Insurance Act, 1991, if applicable.
6. The industry shall 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.
7. **This consent to establish is subject to statutory and other clearances from Govt. of Odisha and/or Govt. of India, as and when applicable.**

SPECIAL CONDITIONS :-

1. **The proponent shall obtain Environmental and CRZ clearance and construction activity for the expansion proposal shall commence after obtaining environment and CRZ clearance.**
2. **The proponent shall obtain forest clearance if forest land is involved in the project area.**
3. The consent to establish is given for the above mentioned capacity. Any further expansion in the capacity, any change, addition or alternation of any nature has to be under taken with prior approval of the Board.
4. The impact on marine ecology during the construction phase would be largely confined to the duration over which the activities are spread. Hence, the key factor in minimising the adverse impacts would be the reduction in the construction period at the site.

5. The socio-economic study especially related to fishing, infrastructure development etc. needs to be studied. Certainly, a large scale infrastructure like road network, railways, power lines etc. will develop in the vicinity of area due to this project.
6. It is also suggested that monitoring of the marine environment during dredging and post – dredging need to be carried out and to carry out necessary corrective measures to conserve the marine environment.
7. Vehicles hired for bringing construction material at site should be in good condition and should have valid **Pollution Under Check (PUC)** certificate and to conform to applicable air and noise emission standards and should be operated only during non-peak hours.
8. The inter tidal and near shore areas shall be restored to their original contours once the construction activities are completed. General clean – up along the corridor used for construction related activities, adjacent inter tidal areas, creeks etc. shall be undertaken and all the discarded materials must be removed from the site and aesthetic quality of the surroundings restored, once the construction operations are completed.
9. Details of the construction activities that are to be taken up in the CRZ area shall be submitted to the Board.
10. An effective wastes collection, treatment and disposal mechanism should be evolved for incoming ships as well as waste generated within the port that include ballast and bilge water, solid waste, cargo waste, kitchen waste, toilet effluent, packing materials, floating debris, construction left over materials etc. A detail management plan to this effect shall be submitted to the Board.
11. The spillage of bulk items should be minimized as these materials reach the dock waters, which sometimes accumulate in the sediments. These pollutants and metals may be mobilized by microbes or bottom disturbances and get back into the dock waters and ultimately reach water body.
12. Effective monitoring system should be evolved to check the release of spillage of oil into the dock waters, estuary and near shore water by ship and also during transportation. Proper collection and treatment facilities should be provided for proper treatment and disposal after achieving the standards.
13. Strict prohibition shall be practiced against the discharge of ballast water and sediment in the dock water, estuarine / near shore waters to prevent introduction of exotic microorganisms including pathogens in the local waters.
14. The monitoring of the marine environment during dredging and post – dredging over a period shall be carried out and the corrective measures shall be taken to conserve the marine environment.
15. Steps should be taken towards the maintenance of health of the study area, critical locations are to be carefully selected and designed as monitoring sites for periodic monitoring with respect to water quality, sediment quality and flora and fauna.
16. Temporary colonies of work force should be established sufficiently away from the High Tide Line and proper sanitation including toilets and bathrooms are to be provided to the inhabitants to prevent abuse of the inter tidal area. Sewage and other wastes generated in these settlements should not be released to the creek. Work force should be provided with adequate fuel to discourage them from cutting nearby tree for firewood.
17. As a first important step towards the maintenance of health of the marine ecology of the study area, critical locations are to be carefully selected and designated as monitoring sites for periodic monitoring with respect to water quality, sediment quality and flora and fauna shall be carried out.
18. Details of drainage system in the berth and stack yard and the effluent treatment plant shall be provided in order to treat the discharge/runoff from the stack yard.

19. Domestic effluent generated from colony and port area shall be treated in sewage treatment plant and treated waste water shall meet prescribed standard such as **pH=6.5-8.0, SS=50mg/l, BOD=30mg/l & O&G=5mg/l** for discharge into inland surface water before reuse for plantation.
20. The surface run off from open stack yards and mineral handling area shall be collected and adequately treated to meet prescribed standard for inland surface water before discharge to river.
21. Leachate from storage of chemicals and other materials having toxic content if any shall be collected and treated properly. Care shall be taken to prevent the ground water contamination
22. Water sprinkling, use of wind barriers and covered conveyer at various stages of coal handing should be practiced. Other exhaust arrangement and bag filter may be included to minimize SPM content. While loading and unloading coal and other bulk materials through grab and conveyers, the dropping height shall be minimized.
23. Open storage yards for dust prone materials should be surrounded with green belt. Plantation and development of lawns shall be undertaken to minimize the effect of dust and noise.
24. The pollution caused by coal / iron ore is aggravated by its dispersal with winds. Since the wind in the area is strong it is recommended that the coal / iron ore should be sprinkled with water so as to reduce the chances of the dust dispersed over a large area including the sea/river.
25. Details of transportation and its impact during transportation of the stones and other construction material for the construction of the groynes breakwaters and other Port facilities shall be submitted to the Board.
26. Adequate dust suppression and or extraction system shall be installed at all potential dust generating points in ore/mineral handling system to minimize fugitive emission.
27. The collection and handling of raw materials shall be carried out in closed conveyor so that fugitive emission will be minimum.
28. Adequate fire fighting system shall be adopted at the coal stock yard to control fire hazard if any.
29. The noise level during pilling, transport and erection of structures etc. shall be kept to a minimum through proper lubrication, muffing and modernization of equipments.
30. To minimize noise and vibration, heavy machinery should be properly installed and maintained. Personal protection in the form of earplugs should be made available to the workers, who are exposed to the high noise areas like workshop, dumper house, crane operation, tipper shop etc.
31. An effective oil spillage containment and management plan should be evolved with the involvement of various agencies like Port, Pollution Control Board, Indian Coast Guard Oil Companies etc.
32. Mechanisms should be evolved for proper monitoring, effective handling and transportation of hazardous chemicals. The mechanism for import of hazardous wastes may be strengthened with involvement of the State Pollution Control Boards.
33. On site living rooms of workers and the gas storage should be well apart to minimize the risk of accidents. Adequate safety measures including provision of gas mask and ear plugs during cutting operation and medial treatment facilities for workers in case of accidents should be ensured. The working place shall be provided with better sanitation facilities.
34. Sectorwise follow – up of some '**DO & DONTs**' by the ground workers should be made mandatory for better maintenance of material and machines to ensure prevention of hazards / accidents to some extent.

35. A comprehensive Disaster Management Plan should be formulated involving concerned agencies considering various aspects like containment of large scale oil spillage, accidental hazards arising from handling of dangerous / inflammable cargoes as well as natural calamities.
36. 'Good House Keeping' is the most important area of concern and it should be attained by developing available human resources through conducting routine in house workshops on different activities for the betterment of the environment and welfare of the workers and organization.
37. Comprehensive structure of "Environmental Management Cell" and the infrastructure facilities to be developed etc are to be detailed.
38. **Present & post project land use pattern of acquired land is to be prepared and submitted to the Board for reference.**
39. **Details of water resources for construction and operation of the project and approval from the Competent Authority for drawal of water is to be obtained and submitted to the Board.**
40. **Spoils generated from dredging activity should be cautiously disposed off in a proper manner to avoid contamination as recommended in the EIA.**
41. Proper management of spoil disposal shall be adopted so that handling of waste and dredging shall be kept of minimum.
42. Maximum precaution shall be taken to minimize spreading of sediments to the surrounding area which will otherwise increase turbidity in the river.
43. Rain water harvesting shall be followed by utilizing the rain water collected from the roof of the administrative buildings for recharging of ground water within the premises as per the concept and practices prescribed by CPCB.
44. The civil construction shall be carried out with the fly ash bricks. If the fly ash bricks are not available locally the civil construction may carried out with other bricks with prior intimation to the concerned Regional Office of SPC Board. A quarterly statement indicating the use of fly ash bricks during civil construction shall be submitted to the Board for record.
45. **Road – connectivity shall be developed by the port Authority. Fly ash shall be used for road development. Agreement with power plants shall be made for lifting of ash from power plant.**
46. The port authority shall develop a green belt along its boundary and vacant areas available inside the premises.
47. The port authority 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.
48. The ambient air quality including noise shall be within the prescribed norms of Environment Protection Act, 1986 for industrial area and at least 04 continuous ambient air quality monitoring stations around the port premises shall be set up to monitor Suspended particular matter, SO₂, NO_x, CO and other important parameters within at least to the distance in down wind direction and where maximum ground level concentration is anticipated. The exact location if the monitoring stations shall be finalized in consultation with the State Pollution Control Board.
49. The ballast should be scientifically disposed.
50. Separate application shall be made to obtain letter of authorization for disposal of all hazardous wastes under Hazardous Waste Management, Handling and Transboundary Movement Rules 2008 and amendment thereafter.
51. All compliance shall be made with respect to manufacture, storage and import of Hazardous Chemical Rule, 1989 & amended thereafter and other provisions of the Environment Protection Act, 1986.

52. The sea water in the harbour area shall meet the water quality criteria for SW-IV class of sea water as given below :

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|----|--|---|--|
| a) | pH | : | 6.5 – 9.0 |
| b) | Dissolved oxygen | : | 3.0 mg/l or 40% of saturation value whichever is high. |
| c) | Colour and odour | : | No visible colour or offensive odour |
| d) | Floating matter, Oil & grease and scum including petroleum product | : | 10 mg/l |
| e) | Fecal coliform | : | 500 MPN/100 ml |
| f) | BOD (3 days) at 27°C | : | 5 mg/l |

53. The Board may impose further conditions or modify the conditions stipulated in this order during installation and /or at the time of obtaining consent to operate and may revoke this clearance in case the stipulated conditions are not implemented and /or any information suppressed in the application form.

SSW
19/12/13
MEMBER SECRETARY

To,

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**Cdr. Anil Kumar Kar,
M/s. Dhamra Port Copmany Ltd.,
Fortune Towers, 2nd Floor,
Chandrasekharapur,
Bhubaneswar-751023, Odisha**

Memo No. _____ /Dt _____ /

Copy forwarded to :

1. The Director (Env.)-cum-Special Secretary to Govt., Forest & Env. Deptt., Govt. of Orissa
2. The District Magistrate & Collector, Bhadrak
3. District Industries Centre, Bhadrak
4. The Director, Factories & Boiler, Bhubaneswar
5. Sr. Env. Engineer (N), HSM Cell, SPC Board, Bhubaneswar
6. DFO, Bhadrak
7. Consent section, SPC Board, Bhubaneswar
8. Regional Officer, SPC Board, Balasore
9. Copy to Guard file

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SR. ENV. ENGINEER(N)