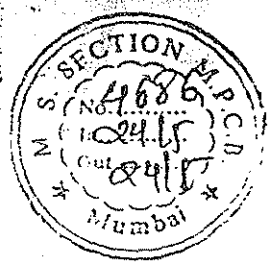


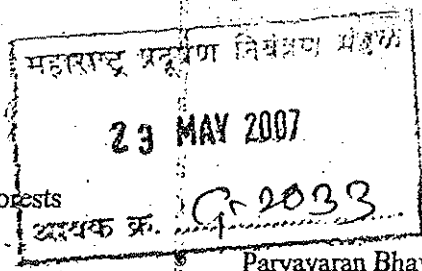
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III



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No.10-1/2007-IA-III  
Government of India  
Ministry of Environment and Forests  
(IA-III Division)



Paryavaran Bhavan,  
C.G.O. Complex, Lodi Road,  
New Delhi-110003

आवक क्र. 652  
दिनांक : 25/5/07  
प्रदेशिक कार्यालय (प्रकल्प व योजना)  
सायन, मुंबई.

Dated the 3<sup>rd</sup> May, 2007

Sub: Environment clearance for construction of Multipurpose Port at Rewas, Raigad by M/s Rewas Port Limited - regarding.

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Reference is invited to the letters No.MCZMA/2, dated 4.1.2007 from Maharashtra State Coastal Zone Management Authority, Government of Maharashtra regarding the subject mentioned. Further letters from M/s Rewas Port Limited received vide letter No.RPL/06/32, dated 9.1.2007 and No.RPL/KVN06/66, dated 2.3.2007 have also been considered. The Maharashtra Pollution Control Board has accorded NOC for the project vide their Consent No.BO/WPAE/Raigad-78/CC-319, dated 21.6.2004. Public hearing for the project has been done on 20.5.2004.

The project involves development of multipurpose port at Rewas-Aware on BOOT basis by M/s Rewas Ports Limited, Navi Mumbai. The above project is proposed to be located in the proximity of the confluence of rivers Amba, Patalganga and Karanja creek which jointly form the Dharamtar creek. The location of the project is at 18°45' N and 72°47' E in the district of Raigad. The total land requirement for the phase-I of the development is 1480 ha of which 1382 ha is on Rewas side and 80 ha on Aware site. For the purpose of rail road corridor 710 ha of additional land would be obtained. The break-up of the land includes Government land 114 ha which includes 87 ha of forestland and 722 ha of inter tidal area on the Rewas site while 80 ha of Aware side which is a reclaimed area. The 62 ha of forestland is partly devoid of trees. Private land includes 214 ha of uncultivable land. The project involves setting up of deep draft multipurpose port with world class facilities to cater to requirements of the main vessels. The Rewas Port is planned to handle container cargo (3 berths), dry bulk cargo (4 berths), liquid cargo (3 berths), genera cargo (2 berths) and car carriers (1 berth). Out of the 13 berths proposed in Phase-I 10 berths are planned on the Rewas side and 3 berths on the Aware side. The port will be developed to handle the traffic demand of 58.5 MTPA in Phase-I.

The proposed port will handle vessels of 1,70,000 DWT to 6,000 TEU vessels. For this purpose the width of canal has been designed for 280 mts and the depth of the canal will be around 17.8 mts with available depth after 3.3 m tidal entry. The additional infrastructures would include road linkage with NH-17 along Alibagh-Pen road which will be widened and improved. Rail linkage is also proposed to handle coal to the power stations for which separate siding will be drawn from the existing siding-II RCF Thal. Power supply of 50 MVA would be require which will be obtained by MSEW. The other facilities of the port would include emergency power supply, navigation aids, tugs, pilot launches, mooring buoys, VTMS, water supply, drainage, sewage, administration building, operational storage maintenance, staff quarters etc.

It is indicated that the Elephanta Caves are located 20 kms away and Karnala Bird sanctuary 30 mts away. For the project a total requirement of waterways 11.5 MLD in phase-I which will be obtained from MIDC or Maharashtra Jeevan Pradhikaran. No groundwater will be drawn from the Coastal Regulation Zone area. During construction sewage of 55m<sup>3</sup>/day would be generated and during operation phase a total sewage/effluents would be around 213 m<sup>3</sup>/hr. The sewage would be treated in the Effluent Treatment Plant after which it will disposed off into the sea while the sludge will be utilized as manure by local people. The effluents from workshops and coal stackyards will be treated in the settling tanks. The oil will be collected and disposed of at landfill sites.

The project would involve dredging which will amount to 120 million cu m. The study has been carried out by CWPRS to determine the dumping site. As per the studies DS<sub>4</sub> located at offshore with coordinates 18°49'00" (+30") and 72°37'30" (+30") would be safe for disposal upto 80 Mm<sup>3</sup> of capital

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dredged material. The materials after dispersion do not reach Mumbai Port Channel or any other area the shore. It is also concluded by the model studies that the offshore dumping site DS<sub>3</sub> recommended dumping of dredged material resulting from deepening of Mumbai Port navigational channel and D<sub>1</sub> recommended of the present proposal could be used simultaneously for respective dumping quantities. Total solid waste proposed to be generated is around 1.5 tonns/day which will be disposed of at the landfill site identified by the Administration. The no rehabilitation is involved for the project. The total cost of the project is around Rs.453480 million.

Accordingly, environmental clearance from Environmental Impact Assessment Notification, 2006 and Coastal Regulation Zone Notification, 1991 as amended from time to time is hereby accorded the phase I of the project subject to effective implementation of the following conditions:-

(A) Specific Conditions:

- (i) All the conditions stipulated by State Coastal Zone Management Authority and Maharashtra State Pollution Control Board should be strictly complied with.
- (ii) The project proponent should ensure that dredging and disposal near/in the mangrove area is strictly avoided.
- (iii) During reclamation of the foreshore it should be ensured that the turbid water should not drain into the mangrove area.
- (iv) At the dredged site it should be ensured that the turbidity does not increase more than 500 mg per litre @ 500 m away from the dredging site. The dispersion of the material should be monitored periodically and report submitted to the Regional Office, Bhopal.
- (v) The dredging activity should be controlled specially during low tide time.
- (vi) It should be ensured that the emissions, noise levels during construction and operation of the project should not affect the habitations. Necessary preventive measures should be implemented. The measures adopted should be reported to the Regional Office, Bhopal within three months from the date of issue of this letter.
- (vii) As the project is being planned for handling cargo including POL, a comprehensive risk analysis should be carried out by the company, through a nodal agency in the subject before the commissioning and operational phase. The company should submit the Risk Analysis Report alongwith the implementation plan as per the recommendations of the Risk Assessment Report.
- (viii) Necessary clearances under Forest (Conservation) Act, 1980 should be obtained for de-reservation of 87 ha of forestland at Ranjan Khar Dawli (forestland survey No.39/24) and Milkatkhar (forestland survey No.537/2) before diverting the area for project purposes.
- (ix) The phase-I of the project should not involve any relocation of the Morapada hamlet.
- (x) Adequate green belt/bio shield with casurina and other salt tolerant species of trees should be planted all along the rubble wall/sea wall proposed at Rewas side to ensure safety of local communities during cyclonic conditions.
- (xi) A programme for Mangrove Conservation and Development in the region may be taken by the Company through a scientific/public spirited body for evolving sustainable and long term strategies. The implementation of the conservation plan shall be monitored by the Environmental Cell of the company and a periodic report should be submitted to the Ministry's Regional Office, Bhopal.
- (xii) The project proponent should provide possible welfare measures to the local community which shall include school, hospitals, road, drinking water, cyclone shelter, etc. A detailed plan a budget provided to the Regional Office, Bhopal within six months from the date of receipt of this letter.

- (xiii) As a principle, local communities should be given priority in employment for the project.
- (xiv) - Buffer zone of 50 mts along the mangrove area should be provided and all activities in the buffer area should be undertaken as per Coastal Regulation Zone Notification, 1991.
- (xv) A comprehensive plan should be put in place to deal with oil and chemical spill in the port area. The detail contingency plan should be provided to the Ministry within six months from the date of issue of this letter.
- (xvi) A real time simulation study should be carried out with regard to oil and chemical spill dispersion and report submitted to the Ministry within one year from the date of receipt of this letter.
- (xvii) The tranquillity study at Aware should be carried out and a report submitted to the Ministry within six months from the date of receipt of this letter.
- (xviii) At Aware site the storage terminal should be shifted further towards the Low Tide Line in order to provide for tidal water flow into the mangroves.
- (xix) The company must take up and earmark adequate funds for the socio-economic development and welfare measures in the area including construction of hospital, school, fishing jetty, ice plant, roads, drinking water supply, vocational training, fishery related development programmes (like cold storages).
- (xx) The project proponent should implement all the measures that have been suggested by them in their clarification letter provided to the Ministry.
- (xxi) The dumping site should be monitored periodically.
- (xxii) The fishing activities by the fishermen living in the settlement along the creek should not be hindered and a mechanism may be evolved for the movement of fishing boats *vis-a-vis* shipping activities.
- (xxiii) The breakwater alignment and its design should be further modified based on relevant model studies, bore hole data etc. keeping in view the tranquillity condition required for berthing and maneuvering of ships and subsequent cargo handling operations.
- (xxiv) The height of dumping in the dumping site should be restricted to 30 cm as against 90 cm proposed.
- (xxv) Sewage arising in the port area should be disposed off through septic tank - soak pit system or shall be treated alongwith the industrial effluents to conform to the standards stipulated by Maharashtra Pollution Control Board and should be utilized/re-cycled for gardening, plantation and irrigation.
- (xxvi) There should be no withdrawal of ground water in CRZ area, for this project. The proponent shall ensure that as a result of the proposed constructions, ingress of saline water into ground water does not take place. Piezometers shall be installed for regular monitoring for this purpose at appropriate locations on the project site.
- (xxvii) The project should not be commissioned till the requisite water supply and electricity to the project are provided by the PWD/Electricity Department.
- (xxviii) Specific arrangements for rainwater harvesting should be made in the project design and the rain water so harvested should be optimally utilized. Details in this regard should be furnished to this Ministry's Regional Office at Bhopal within 3 months.
- (xxix) The facilities to be constructed in the CRZ area as part of this project should be strictly in conformity with the provisions of the CRZ Notification, 1991 as amended subsequently.


(xxx) With regard to the rail-road connectivity in the mangrove areas/creek it should be ensured that rail and the road are laid on a sea link on stilts without affecting the mangroves and the tidal flow of the water.

#### B. General Conditions :

- (i) Construction of the proposed structures should be undertaken meticulously conforming to the existing Central/local rules and regulations including Coastal Regulation Zone Notification 1991 & its amendments. All the construction designs / drawings relating to the proposed construction activities must have approvals of the concerned State Government Departments / Agencies.
- (ii) Adequate provisions for infrastructure facilities such as water supply, fuel, sanitation etc. should be ensured for construction workers during the construction phase of the project so as to avoid felling of trees/mangroves and pollution of water and the surroundings.
- (iii) The project authorities must make necessary arrangements for disposal of solid wastes and for the treatment of effluents by providing a proper wastewater treatment plant outside the CRZ area. The quality of treated effluents, solid wastes and noise level etc. must conform to the standards laid down by the competent authorities including the Central/State Pollution Control Board and the Union Ministry of Environment and Forests under the Environment (Protection) Act, 1986, whichever are more stringent.
- (iv) The proponent shall obtain the requisite consents for discharge of effluents and emissions under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (prevention and Control of Pollution) Act, 1981 from the Maharashtra Pollution Control Board before commissioning of the project and a copy of each of these shall be sent to this Ministry.
- (v) The proponents shall provide for a regular monitoring mechanism so as to ensure that the treated effluents conform to the prescribed standards. The records of analysis reports must be properly maintained and made available for inspection to the concerned State/Central officials during their visits.
- (vi) In order to carry out the environmental monitoring during the operational phase of the project, the project authorities should provide an environmental laboratory well equipped with standard equipment and facilities and qualified manpower to carry out the testing of various environmental parameters.
- (vii) The sand dunes and mangroves, if any, on the site should not be disturbed in any way.
- (viii) A copy of the clearance letter will be marked to the concerned Panchayat/local NGO, if any, from whom any suggestion/representation has been received while processing the proposal.
- (ix) The Maharashtra Pollution Control Board should display a copy of the clearance letter at the Regional Office, District Industries Centre and Collector's Office/Tehsildar's Office for 30 days.
- (x) The funds earmarked for environment protection measures should be maintained, in a separate account and there should be no diversion of these funds for any other purpose. A year-wise expenditure on environmental safeguards should be reported to this Ministry's Regional Office at Bhopal and the State Pollution Control Board.
- (xi) Full support should be extended to the officers of this Ministry's Regional Office at Bhopal and the officers of the Central and State Pollution Control Boards by the project proponents during their inspection for monitoring purposes, by furnishing full details and action plans including the action taken reports in respect of mitigative measures and other environmental protection activities.
- (xii) In case of deviation or alteration in the project including the implementing agency, a fresh reference should be made to this Ministry for modification in the clearance conditions or imposition of new ones for ensuring environmental protection.

- (xiii) This Ministry reserve the right to revoke this clearance, if any of the conditions stipulated are not complied with to the satisfaction of this Ministry.
- (xiv) This Ministry or any other competent authority may stipulate any other additional conditions subsequently, if deemed necessary, for environmental protection, which shall be complied with.
- (xv) The project proponent should advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned informing that the project has been accorded environmental clearance and copies of clearance letters are available with the State Pollution Control Board and may also be seen at Website of the Ministry of Environment & Forests at <http://www.envformic.in>. The advertisement should be made within 7 days from the date of issue of the clearance letter and a copy of the same should be forwarded to the Regional Office of this Ministry at Bhopal.
- (xvi) The Project proponents should inform the Regional Office at Bhopal as well as the Ministry the date of financial closure and final approval of the project by the concerned authorities and the date of start of Land Development Work.

The above mentioned stipulations will be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (protection) Act, 1986, the Hazardous Chemicals (Manufacture, Storage and Import) Rules, 1989, the Coastal Regulation Zone Notification, 1991 and its subsequent amendments and the Public Liability Insurance Act, 1991 and the Rules made thereunder from time to time. The project proponents should also ensure that the proposal complies with the provisions of the approved Coastal Zone Management Plan of Maharashtra State and the Supreme Court's order dated 18<sup>th</sup> April, 1996 in the Writ Petition No.664 of 1993 to the extent the same are applicable to this proposal.

  
(Dr. A. Senthil Vel)  
Additional Director

To

Principal Secretary,  
Environment Department,  
15<sup>th</sup> Floor, New Administrative Building,  
Opposite Mantralaya, Madam Cama Road, Bombay - 400020.

Copy to:

- (i) The Chairman, CPCB, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi - 32.
- (ii) The Chief Conservator of Forests, Ministry of Environment and Forests, Regional Office (WZ), Kendriya Paryavaran Bhawan, Link Road No.3, Ravi Shankar Nagar, Bhopal - 462016.
- (iii) Member Secretary, Maharashtra State Coastal Zone Management Authority, Maharashtra State Pollution Control Board, Kalpataru Point, 3<sup>rd</sup> and 4<sup>th</sup> Floor, Sion Matunga Scheme Road No.8, Opposite Cine Planet Cinema, Near Sion Circle, Sion (East), Mumbai - 400022.
- (iv) Shri K. V. Natarajan, President, M/s Rewas Port Limited, Jai towers, Plot No.68, Sector-15, CBD Belapur, Navi Mumbai - 400614.
- (v) Director, EI Division, Ministry of Environment & Forests.
- (vi) Regional Office Cell, Ministry of Environment & Forests.
- (vii) Monitoring Cell.
- (viii) Guard File.

  
(Dr. A. Senthil Vel)  
Additional Director