

**COMPLIANCE REPORT FOR ENVIRONMENTAL CLEARANCE FOR DEVELOPMENT
OF MULTIPURPOSE CARGO BERTH (BERTH No 17) BY NMPA , PANAMBUR**

E C No: EC24A3501KA5561399N DATED 04/09/2024

1. Specific Conditions

Sl.No.	EC Conditions	Compliance
1.1	Back up storage area for proposed berth no 17 shall be reoriented in order to ensure exclusion of vegetation tree growth area as far as possible. Accordingly revised backup area layout shall be submitted to the ministry with copy to the IRO for monitoring of the implementation. Balance area of the back up having prosopis sp trees shall be afforested with suitable native species.	Special trees viz. prosopis trees will be planted in June /July 2025.
1.2	IRO-Bangalore, MoEF&CC monitored the port on 13.03.2024 and issued the Certified EC and CRZ compliance report vide letter no.EP/12.1/578/KAR 907 dated 08.04.2024 and noted some partial compliance and noncompliance. PP shall ensure that the conditions of the ECs which has not yet been complied with or partially complied shall be complied within next 6 months and compliance report shall be submitted along with 6 monthly monitoring report.	Noted
1.3	Construction activity shall be carried out strictly according to the provisions of the CRZ Notification, 2019. No construction works other than those permitted in Coastal Regulation Zone Notification shall be carried out in Coastal Regulation Zone area.	Noted
1.4	Storage of items shall be strictly in accordance with the provisions of CRZ notification. The items not permissible under CRZ notification shall not be stored in backup area falling in CRZ area.	Noted
1.5	NIO has conducted the site –specific biodiversity plan with the capital budgetary provision of 60 lakhs and recurring cost of 40 lakhs for the implementation of biodiversity conservation and mitigation plan. The conservation plan shall also include afforestation of unused backup area having prosop is specific growth and shall be implemented in consultation with the state forest department. In addition, during implementation period if any specific mitigation measure recommended by the Forest Department the same shall be implemented and the status of the compliance shall be submitted to the Concern IRO, MoEFCC along with the EC Compliance report.	Noted

1.6	For smooth movement of the traffic near vicinity of the port. Under Bharatmala Scheme NHAI is developing 4 lane roads in NH75 connecting Bangalore via Hassan, Shiraidi Ghat, Bantwal cross road at NH 73 and connect NH-66 in Mangalore. The proposed project will facilitate the increase in traffic movement to the Port and new Mangalore port is well connected with NH-66,75 and NH-169. These National Highway are sufficient to cater the traffic demand of Berth No.17. The NH 66 (4 lane road) is passing through the port area around 3KM.	Noted
1.7	Construction activity shall be carried out strictly according to the provisions of the CRZ Notification,2019. No construction works other than those permitted in Coastal Regulation Zone Notification shall be carried out in Coastal Regulation Zone area.	Noted
1.8	All the recommendations and conditions specified by the Karnataka State Coastal Zone Management Authority (KCZMA) vide letter No FEE313 CRZ 2023 dated 14.03.2024	Noted
1.9	The approach road shall be constructed strictly follow the Coastal Regulation Zone Notification shall be carried out in Coastal Regulation Zone area and road should be build on stilts.	Noted
1.11	Necessary approvals be taken during implementation and commissioning from statutory bodies concerned	Noted
1.12	No underwater blasting is permitted.	Noted
1.13	The project proponent shall ensure that no creeks or rivers are blocked due to any activities at the project site and free flow of water is maintained.	Noted
1.14	The total storage area is 12 ha out of which 1.7ha falls under the CRZ II area. No storage area shall be allowed in the CRZ area. The storage area shall be placed outside of the CRZ area, with the minimum distance of 200m.	Noted
1.15	PP shall ensue the loading and un loading process shall not cause any spilling in the water and storm water drains should be built to collect spillage, if any	Noted
1.16	Cargo., handling area shall be provided with the adequate number of high efficiency dust extraction system. Loading and unloading areas including all the transfer points should also have efficient dust control arrangements. These should be properly maintained and operated.	Noted
1.17	Effective and efficient pollution control measures like covered conveyors/stacks (IOF/IOC, Gypsam	Noted

	and other bulk cargo) with fogging/back filters and water sprinkling commencing from ship unloading to stacking to evacuation shall be undertaken. Coal and iron ore stack yards shall be bounded by thick two tier green belt with proper drains and wind barriers wherever necessary.	
1.18	Garland drains and collection pits of adequate capacity shall be provided for each stock pile to arrest the runoff in the event of heavy rains and to check the water pollution due to surface run off and disposed only after treatment.	Action will be taken.
1.19	Effective safeguard measures, such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high level of particulate matter such as around loading and unloading point and all transfer points. Extensive water sprinkling shall be carried out on haul roads. It should be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.	Regular water sprinkling will be carried out.
1.20	Risk assessment for spill scenarios and Disaster Management Plan a prepared shall be in place in the environment Management cell of the Port authority with all SOP's for various scenarios.	Noted
1.21	Spillage of fuel/engine oil and lubricants from the construction site are a source of organic pollution, which impacts marine life, particularly benthos. This shall be prevented by suitable precautions and also by providing necessary mechanisms to trap the spillage.	Noted
1.22	The Project Proponent shall install system to carry out Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (eg . PM10 and PM2.5 in reference to PM emission and SO2 and NOx in reference to SO2 and NOx emission) within and outside the Port area at least at four locations.	Noted
1.23	Appropriate Air Pollution Control system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources	Noted
1.24	The Project Proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality/fugitive emissions to Regional Office of MoEF & CC , Zonal Office of CPCB and Regional Office of KSPCB along with six-monthly monitoring report.	Will be submitted
1.25	Records of regular dredging shall be maintained with periodic survey data	Records will be maintained

1.26	Sediment analysis of harbor at identified locations shall be analyzed and records for past and present period shall be maintained.	Noted
1.27	Sediment concentration should be monitored fortnightly at source and disposal location of dredging while dredging	Noted
1.28	Periodically study on shoreline changes shall be conducted and mitigation carried out, if necessary. The details shall be submitted along with the six monthly monitoring report.	Noted
1.29	A site specific biodiversity conservation plan including mitigation measures prepared by NIO specifically for the Mangroves, Peacock, Marine sea turtles, Sharks and Marine mammals shall be implemented later in spirit in consultation with the state forest department. In addition, during implementation period if any specific mitigation measures recommended by the Forest Department the same shall be implemented and the status of the compliance shall be submitted to the Concern IRO, MoEFCC along with the EC Compliance Report.	Noted
1.30	All the recommendations mentioned in the Marine ecology report prepared by NIO, Goa shall be implemented and the compliance of the recommendations shall be submitted to the concern IRO, MoEF&CC along with the six monthly EC Compliance report.	Noted
1.31	The project proponents would also inventories the floral composition of the biota of marine and intertidal biotopes and draw up a detailed marine bio diversity conservation management plan based on possible impacts. The management plan shall be submitted also to the State biodiversity Board and implemented to their satisfaction during the project cycle.	Noted
1.32	Marine ecology shall be monitored regularly also in terms of sea weeds, seagrasses, mudflats and dunes, fisheries, echinoderms, shrimps, turtles, corals, coastal vegetation, mangroves and other marine biodiversity components as part of the management plan. Marine ecology shall be monitored regularly also on terms of all micro, macro and mega floral and faunal components of marine biodiversity.	Noted
1.33	All the recommendations mentioned in the rapid risk assessment report disaster management plan and safety guidelines shall be implemented.	Noted
1.34	A continuous monitoring programme covering all the seasons on various aspects of the coastal and	Noted

	marine environs need to be undertaken by a competent organization available in the State or by entrusting to the National Institutes/renowned Universities/ accredited Consultant with rich experience in marine science aspects. Monitoring should include sea weeds, seagrasses, mudflats, sand dunes, fisheries, mangroves and other marine biodiversity components as part of the management plan.	
1.35	Necessary arrangements for the treatment of the effluents and solid wastes/facilitation of reception facilities under MARPOL must be made and it must be ensured that they conform to the standards laid down by the competent authorities including the Central or State Pollution Control Board and under the Environment (Protection) Act, 1986. The provisions of Solid Waste Management Rules, 2016. E- Waste Management Rules, 2016 and Plastic Waste Management Rules, 2016 shall be complied with.	Noted
1.36	As per the Ministry's Office Memorandum F. No 22-65/2017-IA.III dated 30 th September 2020, the project proponent shall abide by all the commitments made by them to address the concerns raised during the public consultation. The project proponent shall initiate the activities proposed by them, based on the commitment made in the public hearing and incorporate in the Environmental management Plan and submit to the Ministry. All other activities including pollution control, environmental protection and conservation, R&R, Wildlife and forest conservation/protection measures including the NPV, Compensatory Aforestation etc, either proposed by the project proponent based on the social impact assessment and R&R action plan carried out during the preparation of EIA report or prescribed by EAC, shall also be implemented and become part of EMP	Noted

Standard EC Conditions for (Ports, harbors, breakwaters, dredging)

1. Statutory Compliance

Sl.No	EC Conditions	
1.1	Construction activity shall be carried out strictly according to the provisions of CRZ Notification, 2019 and the State Coastal Zone Management Plan as drawn up by the State Government. No construction work other than those permitted in	Noted

	Coastal Regulations Zone Notification shall be carried out in Coastal Regulation Zone area.	
1.2	A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.	Noted
1.3	All other statutory clearance such as the approvals for storage of diesel from Chief Controller of Explosive, Fire Department, Coast Guard, Civil Aviation Department shall be obtained, as applicable by project proponents from the respective competent Authorities.	Noted

2. Air Quality Monitoring and Preservation

Sl.No	Ec Conditions	
2.1	The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (Eg. PM10 and PM2.5 in reference to PM emission and SO2 and NOx in reference to SO2 and NOx emissions) within and outside the project area at least at four locations, covering upward and downwind directions.	Ambient air quality monitoring will be carried out.
2.2	Appropriate Air Pollution Control (APC) System shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed emission standards.	Noted
2.3	Shrouding shall be carried out in the work site enclosing the dock/proposed facility area. This will act as duct curtain as well achieving zero dust discharge from the site. These curtain or shroud will be immensely effective in restricting disturbance from wind in affecting the dry dock operations, preventing waste dispersion, improving working conditions through provision of shade for the workers.	Noted
2.4	Dust collectors shall be deployed in all areas where blasting (Surface cleaning) and painting operations are to be carried out, supplemented by stacks for effective dispersion.	Noted
2.5	The vessels shall comply the emission norms prescribed from time to time	Noted
2.6	Diesel power generating sets proposed as source of backup power should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the	Noted

	height needed for the combined capacity of all proposed DG sets. Use of low sulphur diesel. The location of the DG sets may be decided with in consultation with State Pollution Control Board.	
2.7	A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development Department and the P.W.D/ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.	Noted

3. Water Quality Monitoring and Preservation

Sl.No	Ec Conditions	
3.1	The Project proponent shall ensure that no creeks or rivers are blocked due to any activities at the project site and free flow of water is maintained.	Noted
3.2	Appropriate measures must be taken while undertaking digging activities to avoid any likely degradation of water quality. Silt curtains shall be used to contain the spreading of suspended sediment during dredging within the dredging area.	Noted
3.3	No ships docking at the proposed project site will discharge its on-board waste water untreated into the estuary/channel. All such water waste load will be diverted to the proposed Effluent Treatment Plant of the project site.	Noted
3.4	Measures should be taken to contain, control and recover the accidental spills of fuel and cargo handle.	Noted
3.5	The project proponents will draw up and implement a plan for the management of temperature differences between intake waters and discharge waters.	Noted

3.6	Spillage of fuel/engine oil and lubricants from the construction site are a source of organic pollution which impacts marine life. This shall be prevented by suitable precautions and also by providing necessary mechanisms to trap the spillage.	Noted
3.7	Total fresh water use shall not exceed the proposed requirement as provided in the project details. Prior permission from competent authority shall be obtained for use of fresh water.	Noted
3.8	Sewage Treatment Plant shall be provided to treat the waste water generated from the project. Treated water shall be reused for horticulture, flushing, backwash, HVAC purpose and dust suppression.	Noted
3.9	A certificate from the competent authority for discharging treated effluent/untreated effluents into the public sewer/disposal/drainage systems along with the final disposal point should be obtained.	Noted
3.10	No diversion of the natural course of the river shall be made without prior permission from the Ministry of water resources.	Noted
3.11	All the erosion control measures shall be taken at water front facilities. Earth protection work shall be carried out to avoid erosion of soil from the shoreline/boundary line from the land area into the marine water body.	Noted

4. Noise Monitoring and Prevention

SI.No	Ec Conditions	
4.1	Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six monthly compliance report.	Noted
4.2	Noise from vehicles, power machinery and equipment on-site should not exceed the prescribed limit. Equipment should be regularly serviced. Attention should also be given to muffler maintenance and enclosure of noisy equipments	Noted
4.3	Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.	Noted

4.4	The ambient noise levels should conform to the standard prescribed under E(P)A Rules, 1986 viz.75dB(A) during day time and 70 dB(A) during night time.	Noted
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5. Energy Conservation Measures

Sl.No	EC Conditions	
5.1	Provide solar power generation on roof tops of buildings, for solar light system for all common areas street lights parking around project area and maintain the same regularly;	Already installed 5.2 MW capacity Photovoltaic Solar power plant.
5.2	Provide LED lights in offices and project areas.	Provided LED lights in offices and

6. Waste Management

Sl.No	EC Conditions	
6.1	Dredged material shall be disposed safely in the designated areas.	Noted
6.2	Shoreline should not be disturbed due to dumping. Periodical study on shore line changes shall be conducted and mitigation carried out, if necessary. The details shall be submitted along with the six monthly monitoring reports.	Noted
6.3	Necessary arrangements for the treatment of the effluents and solid wastes must be made and it must be ensured that they conform to the standard laid down by the competent authorities including the Central or State pollution Control Board and under the Environment (Protection) Act, 1986.	Noted
6.4	The solid waste shall be managed and disposed as per the norms of the Solid Waste Management Rules, 2016.	Noted
6.5	Any waste from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Waste Management Rules, 2016	Noted
6.6	A certificate from the competent authority handling municipal solid wastes should be obtained indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W generated from project.	Noted
6.7	Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination.	Noted

6.8	Oil spill contingency plan shall be prepared and part of DMP to tackle emergencies. The equipment and recovery of oil from a spill would be assessed. Guidelines given in MARPOL and shipping Acts for oil spill management would be followed. Mechanism for integration of terminals oil contingency plan with the overall area contingency plan under the co-ordination of Coast should be covered.	Noted
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7. Green Belt

Sl.No	EC Conditions	
7.1	Green Belt shall be developed in area as provided in project details with a native tree species in accordance with CPCB guidelines	Already developed green belt area covering 33% of Port area (649 acres out of 1947 acres)
7.2	Top Soil shall be separately stored and used in the development of green belt.	Noted

8. Marine Ecology

Sl.No	EC Conditions	
8.1	Dredging shall not be carried out during the fish breeding and spawning seasons	Noted
8.2	Dredging etc shall be carried out in the confined manner to reduce the impacts on marine environment.	Noted
8.3	The dredging schedule shall be so planned that the turbidity developed is dispersed soon enough to prevent any stress on the fish population	Noted
8.4	While carrying out dredging, an independent monitoring shall be carried out through a Government Agency/Institute to assess the impact and necessary measures shall be taken on priority basis if any adverse impact is observed.	Noted
8.5	A detailed marine biodiversity management plan shall be prepared through the NIO or any other institute of repute on marine, brackish water and fresh water ecology and biodiversity and submitted to and implemented to the satisfaction of the State Biodiversity Board and the CRZ authority. The report shall be based on a study of the impact of the project activities on the intertidal biotopes, corals and coral communities molluscs sea grass, sea weeds, sub- tidal habitats, fishes other marine and	Noted

	aquatic micro, macro and mega flora and fauna including benthos, plankton, turtles birds etc. as also the productivity. The data collection and impact assessment shall be as per standards survey methods and include underwater photography.	
8.6	Marine ecology shall be monitored regularly also in terms of sea weeds, sea grasses, mudflats, sand dunes, fisheries, echinoderms, shrimps, turtles, corals, coastal vegetation, mangroves and other marine biodiversity components including all micro, macro and mega floral and faunal components of marine biodiversity.	Noted
8.7	The project proponents shall ensure that water traffic does not impact the aquatic wildlife sanctuaries that fall along the stretch of the river.	Noted

9. Public Hearing and Human Health Issues

Sl.No	EC Condition	
9.1	The work space shall be maintained as per international standards for occupational health and safety with provision of fresh air respirators, blowers and fans to prevent any accumulation and inhalation of undesirable levels of pollutants including VOCs	Noted
9.2	Workers shall be strictly enforced to wear personal protective equipment like dust mask, ear muffs or ear plugs, whenever and wherever necessary/required. Special visco-elastic gloves will be used by labour exposed to hazards from vibration.	Noted
9.3	In case of repair of any old vessels, excessive care shall be taken while handling Asbestos & Freon gas. Besides fully enclosed covering should be provided for the temporary storage of asbestos materials at site before disposal to CTSDf.	Noted
9.4	Safety training shall be given to all workers specific to their work area and every worker and employee will be engaged in fire hazard awareness training and mock drills which will be conducted regularly. All standard safety and occupational hazard measures shall be implemented and monitored by the concerned officials to prevent the occurrence of untoward incidents/accidents.	Noted
9.5	Emergency preparedness plan based on the Hazard identification and Risk Assessment	Noted

	(HIRA) and Disaster Management Plan shall be implemented.	
9.6	Provision shall be made for the housing of construction labour within the site will all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Noted
9.7	Occupational health surveillance of the workers shall be done on a regular basis.	Noted

10.Environment Responsibility

Sl.No	EC Conditions	
10.1	The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental/forest/wildlife norms/ conditions. The company shall have defined system of reporting infringements/ deviation/violation of the environmental/forest/wildlife norms/conditions and /or shareholders/stakeholders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.	Noted
10.2	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of Senior Executive, who will directly report to the head of the organization.	Noted
10.3	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to Ministry/Regional office along with the six monthly compliance report.	Noted

10.4	Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.	Noted
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11. Miscellaneous

Sl.No	EC Conditions	
11.1	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.	Advertised in two local newspaper
11.2	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	Noted
11.3	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	Noted
11.4	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.	Noted
11.5	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control board as prescribed under the Environment (Protection) Rules, 1986 as amended subsequently and put on the website of the company.	Environmental statement for each financial year in form-V will be submitted to KSPCB
11.6	Theoretical pollutant levels namely; PM2.5, PM10, SO2, NOx (ambient levels) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	Noted
11.7	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and State Government	Noted

11.8	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.	Noted
11.9	No further expansion or modifications in the project shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change (MoEF&CC)	Noted
11.10	Conceal factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (protection) Act, 1986	Noted
11.11	The Ministry may revoke or suspend the clearance if implementation of any of the above conditions is not satisfactory under the provisions of the Environment (Protection) Act, 1986, to ensure effective implementation of the suggestion safeguard measures in a time bound and satisfactory manner.	Noted
11.12	The Ministry reserves the right to stipulate additional conditions if found necessary. The company in a time bound manner shall implement these conditions.	Noted
11.13	The Regional office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (S) of the Regional office by furnishing the requisite data/information /monitoring reports.	Noted
11.14	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981 the Environment (Protection) Act, 1986, Hazardous and other Waste (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India/ High Courts and any other Court of Law relating to the subject matter.	Noted
11.15	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted

12. Special Conditions

Sl.No	EC Conditions	
12.1	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms.	Noted