Specific EC Conditions for (Ports, Harbors, Breakwaters, Dredging)

# 1. Specific Conditions

Sl.No.	EC Conditions Status of Compliance			
1.1	Cargo, handling area shall be provided	The stack yard is having High efficiency water		
1.1	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.	<ul> <li>The stack yard is having High efficiency water sprinkling system to mitigate the air pollution, which sprinkle water on the coal heaps in regular intervals.</li> <li>Having/implemented Dry Fog Dust Suppression System in all the equipment of Mechanized Material Handling system viz. Ship Unloaders, SCR, Transfer points of Conveyors &amp; Wagon Loading system.(JSW)</li> <li>Mechanized Cargo handling conveyor system having in built dry fog dust suppression and all the transfer towers/elevated gallery are fully covered with Galvalume sheets to avoid air borne emissions, in addition to DFDSS.</li> <li>1. High raised boundary wall.</li> <li>2. Green belt around the stack yard</li> <li>3. Wind shield at the predominant wind direction.</li> <li>4. Garland drains &amp; Settling Pond with filtration system</li> </ul>		
1.2	Storage of the cargo shall be accommodated with a Stacker reclaimed inside provided with DFS (Atomized Automatic Sprinkling System) including peripheral drainage system, internal roads, firefighting system etc	5. Vehicle Wheel wash system. The stack yard is covered with High efficient Automatic water sprinkling system to mitigate the air pollution, which sprinkle water on the coal heaps in regular intervals. Coal yard is having concrete garland drains for collecting the overflow water coming out of yards and drains are connected with concrete settling pond with filtration system. Apart from this, Fire hydrants are provided around the coal yard. Roads are concretized with sprinkler system to mitigate fugitive emission.		
1.3	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 points 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.	The stack yard is covered with High efficiency water sprinkling system to mitigate the air pollution, which sprinkle water on the coal heaps in regular intervals. A dry Fog Dust Suppression System (DFDSS) has been implemented across all equipment of the mechanized material handling system, including ship unloaders, stacker-cum- reclaimers(SCR), conveyor transfer points and the wagon loading system. The mechanized cargo handling conveyor system is integrated with an in-built dry fog dust suppression system. Additionally, all transfer		

	EC NO: 24A3501KA5159064N Dated 15.11.2024			
1.4	The project proponent shall carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM 2.5 in reference to PM emission, and SO2 and NOx in reference to SO2 and NOx emissions) within and outside the port area at least at four locations (one within and three outside the port area at an angle of 120 each), covering upwind and downwind directions.	towers and elevated galleries are fully enclosed with Galvalume sheets to prevent airborne emissions, further enhancing dust control. Entire roads around the stack yard are made of cement concrete in order to facilitate efficient cleaning. Roads are cleaned regularly in case od any unusual spillage of cargo The entire road is regularly being wetted to minimize dust emissions. Ambient Air Quality Monitoring is continuously monitored through NABL certified Laboratory M/s. Hubert Enviro Solutions and the monitoring reports are submitted to KSPCB, Regional office, Mangalore as per norms. The coal Terminal is conducting Ambient Air Quality Monitoring (PM2.5, PM10, SO2, Nox) every month and the reports are being submitted to KSPCB, RO, Mangalore regularly and Air Quality is also being monitored at locations outside the port area to assess the broader environmental impact at upwind and downwind directions.		
1.5	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 fugitive emission standards.	All the dust generation sources have been identified and the Air pollution mitigative measures have been taken. The terminal is complying to fugitive Emission standards, the monitoring values are well within the limits prescribed by the board. All dust-generating sources within the terminal have been identified and appropriate air pollution control (APC) measures have been implemented at all vulnerable points, including sources of fugitive dust. The terminal is in full compliance with the prescribed fugitive emission standards and monitoring results consistently remain well within the limits set by the Karnataka State Pollution Control Board(KSPCB)		
1.6	All the recommendations and conditions specified by the Karnataka State Coastal Zone Management Authority (KCZMA) vide letter no. FEE.289/CRZ/ 2023 dated 13 <sup>th</sup> March, 2024 shall be complied and the status	Noted		

	EC NU: 24A3501KA5159064N	Dated 15.11.2024
	of the compliance report shall be submitted to the Concern IRO, MOEF & CC along with the EC and CRZ six monthly compliance report.	
1.7	The project proponent shall comply with all the specific and general conditions prescribed in the EC and CRZ clearance issued by the MoEF CC vide letter no.11-2/2010-IA.III dated 19 <sup>th</sup> September,2011	Noted

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

## 1. Statutory Compliance

SI.No.	EC Conditions	Status of Compliance
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 Coastal Regulation Zone Notification shall be carried out in Coastal Regulation Zone area.	Noted. No construction activities are involved in the project within the Coastal Regulation Zone (CRZ) 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 clearances 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

SI.No.	EC Conditions	Status of Compliance
2.1		Quality Monitoring (PM2.5,PM10,SO2,Nox) every month through NABL certified Laboratory and the reports are being submitted to KSPCB, RO, Mangalore. Air Quality is

	EC NO: 24A3501KA5159064N Dated 15.11.2024			
	and NOx emissions) within and outside the project area at least at four locations, covering upwind and downwind directions.	also being monitored outside the port area in every quarter		
2.2	Appropriate Air Pollution Control (APC) system shall be provided for all dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed emission standards.	The dust generating sources have been identified and appropriate mitigative measures are taken to avoid fugitive emissions.		
2.3	Shrouding shall be carried out in the work site enclosing the dock/proposed facility area. This will act as dust 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 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.	We are using DG power for as standby during power failure The height of the stack of DGs are maintained as prescribed in the CFO conditions The DG sets are located as poer the approved plan The DG sets are monitored periodically i.e Monthly once. The reports of Monitored parameters are being submitted periodically to KSPCB, RO, Mangalore		
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 05 Kms 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	Noted		

# HALF YEARLY COMPLIANCE REPORT FOR ENVIRONMENTAL CLEARANCE FOR ENHANCEMENT OF CARGO HANDLING CAPACITY FROM 6.73 MTPA TO 8.07 MTPA OF EXCISTING OPERATIONAL BERTH NO 16

	EC	NO:	24A3501	KA5159	064N	Dated	15.11.2024	
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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.	

# 3. Water Quality Monitoring and Preservation

SI.No.	EC Conditions	Status of Compliance
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 dredging area.	Noted.
3.3	No ships docking at the proposed project site will discharge its on-board waste water untreated in to the estuary/ channel. All such waste water load will be diverted to the proposed Effluent Treatment Plant of the project side.	Noted.
3.4	Measures should be taken to contain, control and recover the accidental spill 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 purposes and dust suppression.	Noted

	EC NO: 24A350TKA5159064N Dated 15.11.2024			
3.9	A certificate from the Competent Authority for discharging treated effluent/untreated effluents into the public sewer/disposal/drainage system along with the final disposal point should be obtained.			
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	Status of Compliance
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.	The terminal is monitoring noise levels at various locations at Berth no.16 in accordance with prescribed guidelines. The monitoring reports are being submitted to KSPCB, RO, Mangalore periodically
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.	Complied
4.4	The ambient noise levels should conform to the standard prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.	Noted and monitoring reports are being submitted to KSPCB,RO,Mangalore

# 5. Noise Monitoring and Prevention

SI.No	EC Conditions	Status of Compliance
5.1	Provide solar power generation on roof tops of building for solar light system for all common	

<u>LO NO: 24A330 MAS 133004N Dated 13:11:2024</u>			
areas, street lights, parking around project area			
and maintain the same regularly;			
Provide LED lights in offices and project areas.	Complied		
	areas, street lights, parking around project area and maintain the same regularly;		

## 6. Waste Management

SI.No	EC Conditions	Status of Compliance
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 mitigated 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 standards 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 wastes shall be managed and disposed as per the norms of the Solid waste Management Rules,2016	Noted
6.5	Any wastes from construction and demolition activities related there to 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 waste 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

## 7. Green Belt

SI.No	EC Conditions	Status of Compliance
7.1	Green belt shall be developed in area as provided in project details with a native tree species in accordance with CPCB guidelines	We have developed greenbelt in our terminal along the boundary wall and open space area with native tree species in accordance with CPCB guidelines
7.2	Top soil shall be separately stored and used in the development of green belt.	Noted

### 8. Marine Ecology

LCOIOgy	Ecology				
SI.No	EC Conditions	Action B			
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 molluses, sea grasses, sea weeds, sub-tidal habitats, fishes other marine and 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.	Noted			
8.6	Marine ecology shall be monitored regularly also in terms of sea weeds, sea grasses, mudflats, sand	Noted			

	EC NO: 24A3501KA5159064N Dated 15.11.2024			
	dunes, fisheries, echinoderms, shrimps, turtle, corals, coastal vegetation, mangroves and other marine biodiversity components including all micro, macro and mega floral and faunal components of marine biodiversity.			
8.7	The project proponent 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

SI.No	EC Conditions Status of Compliance						
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 equipments 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 material 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/Mock Drills are being conducted regularly. We are practicing 1. Apex Safety Committee 2. Safety Policy 3. Monthly Safety Theme/ Program Training are imparted to all employees on safety and health aspects.					
9.5	Emergency preparedness plan based on the Hazard Identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Noted/HIRA is in practice					
9.6	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical healthcare, crèche etc. The housing may be in the form of temporary structure to be removed after the completion of the project.	Noted					
9.7	Occupational health surveillance of the works shall be done on a regular basis.	Noted/being carried out regularly.					

## 10. Environment Responsibility

SI.No	BI.No     EC Conditions     Status of Compliance						
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 infringement/deviation/violation of the environmental/forest/wildlife norms / conditions. The company shall have defined system of reporting infringements/ deviation/ violation of the environment/ forest/wildlife norms/conditions and /or shareholders/ stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF & CC as apart of six monthly report.	Noted/ Terminal is certified with ISO 14001 and having Integrated Management System, by considering ISO 9001,ISO 14001, ISO45001					
10.2	A separate Environmental cell both at the project and company head quarters level, with qualified personnel shall be setup under the control of senior Executive, who will directly report to the head of the organization.	The terminal is having an environmental Cell. We have dedicated Environment personnel both at head quarter and at the project site					
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 the Ministry/regional office along with the six monthly Compliance Report.	Noted/Implemented EMP Plan and budget allocated for environmental protection will be earmarked annually in a separate account and year-wise progress will be reported to the Ministry/Regional Office with the Six Monthly Compliance report.					
10.4	Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.	Noted. We are conducting regular Environmental Audit i.e internally/ Externally (by BVQI)- we are practicing ESG (Environment, Social, Governance) also.					

#### 11. Miscellaneous

SI.No	EC Conditions	Status Compliance	of
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 newspaper 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.	Complied	
11.2	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats	Noted	

С	NO:	24A35	01KA5	5159064N	Dated	15.11.2024

	EC NO: 24A3501KA5159064N Dated 15.11.2024	
	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.	
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 environment 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 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.	Noted
11.6	The critical 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 the 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 modification in t he project shall be carried out without prior approval of the Ministry of Environment, Forest and climate change (MoEF & CC)	Noted
11.10	Concealing factual data or submission of false/fabricated dada 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 Environmental (protection) Act 1986, to ensure effective implementation of the suggested 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 dada/ 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,	Noted

# HALF YEARLY COMPLIANCE REPORT FOR ENVIRONMENTAL CLEARANCE FOR ENHANCEMENT OF CARGO HANDLING CAPACITY FROM 6.73 MTPA TO 8.07 MTPA OF EXCISTING OPERATIONAL BERTH NO 16

# EC NO: 24A3501KA5159064N Dated 15.11.2024

	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 Liabilities 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.	
11.15	Any appeal against this EC shall lie with the National Green Tribunal, if preferred within a period of 30days as prescribed under Section 16 of the National Green Tribunal Act, 2010	Noted

## 12. Specific Conditions

SI.No.	EC Conditions	Status Compliance	of
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.		

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