



सत्यमेव जयते

**File No: 10982**  
**Government of India**  
**Ministry of Environment, Forest and Climate Change**  
**(Issued by the State Environment Impact Assessment Authority(SEIAA),**  
**TAMIL NADU)**

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Dated 16/07/2024



To,

Rajkumar Duraisamy  
FISHERIES DEPARTMENT  
1ST Floor, Integrated Fishery Office Building, District Collectorate Campus, Nagapattinam – 611003.,  
Vanagiri, Mayiladuthurai, TAMIL NADU, Near Pension office, 611003  
eefhpdnagai@gmail.com

**Subject:** Grant of CRZ & Environment Clearance under the provision of the CRZ Notification 2011 & EIA Notification 2006 as amended -regarding.

**Sir/Madam,**

This is in reference to your application for Grant of CRZ & Environment Clearance under the provision of the CRZ Notification 2011 & EIA Notification 2006-regarding in respect of project Proposed Construction of Fish landing center at SF. No. 153, 156, 161, 164 & 406, Vanagiri Village, Sirkazhi Taluk, Mayiladuthurai District, Tamil Nadu by M/s. Department of Fisheries and Fishermen Welfare Department submitted to SEIAA vide proposal number SIA/TN/INFRA1/470164/2024 dated 20/06/2024.

**Ref:**

1. Coastal Regulation Zone Notification, S.O. 19(E) dated 06.01.2011
2. MoEF&CC Office Memorandum dated: 26.04.2022
3. Recommendations of TNSCZMA vide Letter No. P1/1598/2022 dated: 24.07.2023.
4. Online Proposal No. SIA/TN/INFRA1/470164/2024, Dated: 07.05.2024

2. The particulars of the proposal are as below :

<b>(i) EC Identification No.</b>	EC24C3502TN5779115N
<b>(ii) File No.</b>	10982
<b>(iii) Clearance Type</b>	EC
<b>(iv) Category</b>	B2
<b>(v) Project/Activity Included Schedule No.</b>	7(e) Ports, harbors, breakwaters, dredging
<b>(vii) Name of Project</b>	Construction of Fish Landing Centre in Vanagiri Village, Sirkazhi Taluk of Mayiladuthurai District.
<b>(viii) Name of Company/Organization</b>	FISHERIES DEPARTMENT
<b>(ix) Location of Project (District, State)</b>	Mayiladuthurai, TAMIL NADU

(x) Issuing Authority	SEIAA
(xii) Applicability of General Conditions	no
(xiii) Applicability of Specific Conditions	no

1. In view of the particulars given in the Para 1 above, the project proposal interalia including Form-2(Part A and B) were submitted to the SEIAA for an appraisal by the SEAC in the SEIAA under the provision of EIA notification 2006& CRZ Notification 2011 and its subsequent amendments.
2. The above-mentioned proposal has been considered by State Environment Impact Assessment Authority(SEIAA) in the meeting held on 10/07/2024. The minutes of the meeting and all the Application and documents submitted [(viz. Form-2 Part A, Part B, Part C EIA, EMP)] are available on PARIVESH portal which can be accessed by scanning the QR Code above.

**The SEAC noted the following:**

1. (The Proponent, M/s. Department of Fisheries and Fishermen Welfare Department has applied seeking CRZ & Environmental Clearance for the proposed Construction of Fish landing center at SF. No. 153, 156, 161, 164 & 406, Vanagiri Village, Sirkazhi Taluk, Mayiladuthurai District, Tamil Nadu Chennai Taluk Chennai District Tamil Nadu.
2. (The project/activity is covered under Category "B1" of Item 7(e) "Fishing Harbour Project" of the Schedule to the EIA Notification,2006, as amended.
3. (The Proposed construction includes dredging area of land area 12197.52 Sq.m falls under CRZ IB, CRZ III (NDZ), CRZ III (200m to 500m HTL); Proposed auction hall of land area (20x14) 280 Sq.m falls under CRZ III (NDZ); Proposed net mending shed of land area (20x10) 200 Sq.m falls under CRZ III (NDZ); and Proposed diaphragm Wall of land area (84x6) 161 Sq.m falls under CRZ III (NDZ).
4. (Now the PP has applied seeking CRZ & Environmental Clearance for the above-mentioned proposed activities.
5. The TNCZMA vide proceedings Letter No. P1/1598/2022 dated: 24.07.2023 has recommended the proposal to SEIAA-TN along with the conditions states therein for issuing CRZ & Environment Clearance under Notification,2011.

**Details of the existing project structures as furnished by the PP:**

**R.C.C Diaphragm Wall**

1. A 90m length anchored diaphragm wall structure if proposed for a fish landing centre at Vanagiri Village. The structural arrangement consists of diaphragm wall of 6m thickness with 4m length panel size and Deadman wall of 0.3m thickness.
2. Diaphragm wall is connected by coping beam 0.75 x1.8m longitudinally with top level of (+) 2.00m CD to (+) 0.2m CD. Diaphragm wall and deadman wall is connected at (+) 0.5m CD (i.e., 1.5m from top level of diaphragm wall is (-) 13.00m CD)
3. The top level of the structure is (+) 2.00m CD. The Diaphragm wall cutoff level is (+) 0.2m CD. The founding level of Diaphragm wall is (-) 13.00m CD.
4. The dredge level in front of Diaphragm wall is assumed as (-) 3.00m CD. Top level of deadman wall is (+) 1.6m CD the foundation level of the deadman wall is 0.6m CD. 2T bollard is proposed at 4m c/c on top of Diaphragm wall and Tyre fenders are proposed at 2m c/c.

**Fishnet Mending Shed**

1. This facility is designed to consist of a space, where fishnets are repaired, mended and dried.
2. 20m length x 10m wide fishnet mending sheds are provided

**Fish Auction Hall**

1. Fish auction halls are sheltered sheds, covered from all four sides meant for auctioning of fresh fish

landed by the boats. Various fish handling operations like working, sorting, weighing, auctioning, icing, packing and loading of the packed fish into the waiting transport are some of the major activities undertaken in these halls.

- For the display and auctioning of fish, normally, fishes in 25 to 50 kg boxes are placed in rows in the display area of the fish auction hall over the stainless-steel table with ample walking space/gangway all around where bidders can take a good look at the fish for sale without stamping or spoiling it.
- In fish auction hall the first 6 m is meant for sorting, weighing, arranging fish boxes for display and fish auctioning.
- Room size of 20 m x 14 m is provided as auction hall.

#### **Dredging**

- The proposed project involves dredging of river bed from bar mouth opening till the proposed FLC, in order to facilitate smooth movement of boats for berthing purpose.
- The proposed dredging area is (-) 3.00m CD.
- The estimated quantity of dredging is about 44,000m<sup>3</sup>

#### **GPS coordinates of the Proposed Project Site**

1. Latitude	Longitude
11° 8'4.96"N	79°51'20.25"E
11° 8'1.31"N	79°51'26.91"E
11° 7'52.7801"N	79°51'27.42"E
11° 8'4.24"N	79°51'18.05"E

#### **1. Salient Features of the Project:**

#### **2. Construction details:**

3.	Description	Quantity	Size (Length X Breadth)
1	Construction of R.C.C Diaphragm wall	90 Rm	84 m X 6 m
2	Construction of Auction hall Ino of size 20mx14m	280 sqm	20 m X 14 m
3	Construction of Net Mending shed of size 20mx10m	200 sqm	20 m X 10 m
4	Dredging	44000 cum	12197.52 sqm
5	P.C.C Road – 6.00 Width	120 Rm	-

#### **4. Other details of the proposed project:**

Water requirement:	2.5 KLD obtained through local panchayat
Power & fuel requirement	3KVA from TNEB
Waste Generation Details	--
Municipal Solid Waste Generation & Disposal	6 Kg/day disposed though local panchayat
Waste water generation and disposal	2.3 KLD disposed though local panchayat
Hazardous Waste Generation & Disposal	-
Green belt Development	-
<b>MAINTENANCE DREDGING</b>	Not Applicable
Project Cost (excluding EMP)	Rs. 800 Crore
EMP	Rs.9 Lakhs
CER	Rs.16 Lakhs

5. Based on the presentation made by the proponent and the documents furnished, the SEAC decided to recommend for the grant of **CRZ & Environmental Clearance** for the project activity subject to the standard conditions stipulated by MoEF&CC for Fishing Harbours, conditions.
6. The SEIAA has examined the proposal in accordance with the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and after accepting the recommendations of the SEAC hereby decided to grant EC for instant proposal of M/s. Rajkumar Duraisamy under the provisions of EIA Notification, 2006 and as amended thereof.
7. The Ministry/SEIAA-TN reserves the right to stipulate additional conditions, if found necessary.
8. The EC to the aforementioned project is under provisions of CRZ Notification, 2011 & EIA Notification 2006. It does not tantamount to approvals/consent/permissions etc. required to be obtained under any other Act/Rule/regulation. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/ Regulations or Statutes, as applicable, to the project.
9. This issues with the approval of the Competing Authority.

### **Copy To**

1. The Additional Chief Secretary to Government, Environment, Climate Change and Forests Department, Govt. of Tamil Nadu, Fort St. George, Chennai - 9.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD Cum-Office Complex, East Arjun Nagar, New Delhi - 110032.
3. The Chairman, Tamil Nadu Pollution Control Board, 76, Mount Salai, Guindy, Chennai-600 032.
4. The APCCF (C), Regional Office, Ministry of Environment & Forest (SZ), 34, HEPC Building, 1st & 2nd Floor, Cathedral Garden Road, Nungambakkam, Chennai - 34.
5. Monitoring Cell, I A Division, Ministry of Environment & Forests, Paryavaran Bhavan, CGO Complex, New Delhi - 110003.
6. The District Collector, Mayiladuthurai District.
7. Stock File.

**Annexure 1**

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

#### **1. Seac Conditions - Site Specific**

S. No	EC Conditions
1.1	<ol style="list-style-type: none"> <li>1. The project proponent shall comply with the conditions stipulated in the CRZ Clearance recommendation letter dated 24.07.2023 issued by Tamil Nadu -SCZMA, as per CRZ Notification 2011 as amended.</li> <li>2. <b>The proposed Construction of Fish landing center shall be used only for the temporary berthing of mechanized boats and no repair/replacement of oil change shall be carried out.</b></li> <li>3. Dredged sand shall be used for strengthening of bunds; filling &amp; development of Government School play grounds.</li> <li>4. The entire waste management in the fishing harbour should be outsourced with the following responsibilities               <ol style="list-style-type: none"> <li>a) Keep the entire complex clean.</li> <li>b) Create awareness among the users.</li> <li>c) Dispose waste as per the waste management rules prescribed by MoEF&amp;CC.</li> <li>d) Promote refuse, reduce, reuse and recycle economy among users.</li> </ol> </li> </ol>

S. No	EC Conditions
	<p>5. The proposed project area shall be made totally plastic-free.</p> <p>6. The PP shall ensure that the proposed construction activities do not have significant impact on the shoreline abutting the project; and has no significant impact on the ecologically sensitive areas along the stretch.</p> <p>7. The PP shall ensure strict compliance of the recommendations made in the impact study reports in letter and spirit and furnish half-yearly compliance report in this regard.</p> <p>8. No construction works other than those permitted in Coastal Regulation Zone Notification, 2011 may be carried out in Coastal Regulation Zone area.</p> <p>9. The wastewater generated from the proposed activity shall be disposed properly as proposed, without any deviation.</p> <p>10. No treated/untreated water and waste of any type shall be disposed into the marine area.</p> <p>11. The PP shall ensure the spent/used oil and other hazardous wastes are handed over only to the TNPCB authorized recyclers.</p> <p>12. All the topsoil excavated during construction activities should be stored for use in horticulture/landscape development within the project site.</p> <p>13. Disposal of muck during construction phase should not create any adverse effect on the neighbouring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.</p> <p>14. Soil and ground water samples shall be tested through NABL accredited laboratory once in six months to ascertain that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants.</p> <p>15. Construction spoils, including bituminous material and other hazardous materials, must not be allowed to contaminate watercourses and the dump sites for such material must be secured so that they should not leach into the ground water.</p> <p>16. Hazardous waste including biomedical waste, if any, should be disposed of as per applicable Rules &amp; norms with necessary approvals of the TNPCB.</p> <p>17. The diesel generator sets to be used during construction phase should be low sulphur diesel type and should conform to E (P) Rules prescribed for air and noise emission standards.</p> <p>18. Excavation and dredging methods should be selected to minimize suspension of sediments, minimize destruction of benthic habitat, increase the accuracy of the operation, and maintain the density of the dredge material, especially if the dredge material includes contaminated areas.</p> <p>19. Areas sensitive for marine life such as feeding, breeding, calving, and spawning areas should be identified. Where sensitive species are present, dredging (and blasting) should be conducted in a manner so as to avoid fish migration or spawning seasons, routes, and grounds; Use techniques (e.g. silt curtains), to minimize adverse impact on aquatic life from the resuspension of sediments.</p> <p>20. Inspection and monitoring of dredging activities should be conducted to evaluate the effectiveness of impact prevention strategies, and re-adjusted where necessary.</p> <p>21. The PP shall carry out the dredging operations only during the non-nesting period of turtles and other marine species.</p> <p>22. Since dredging is a major source of water pollution causing turbid water, re-suspension of contaminated bottom sediments and other adverse effects, the dredged material should be analyzed in order to select appropriate disposal options (e.g. land reclamation, open water discharge, or contained disposal). Beneficial reuse of uncontaminated, dredged material should be considered (e.g. for wetland creation or enhancements, habitat restoration, or creation of public access / recreational facilities);</p> <p>23. Use of submerged discharges should be considered for hydraulic disposal of dredged material.</p> <p>24. Use of lateral containment in open water disposal should be considered. Use of borrow pits or dikes reduces the spread of sediments and effects on benthic organisms.</p> <p>25. Use of cap containment sediments with clean materials should be considered. Level bottom capping or combinations of borrow pits / dikes with capping reduces the underwater spread of contaminated material.</p> <p>26. Confined disposal facilities should be used, either near shore or upland, when open water</p>

S. No	EC Conditions															
	<p>disposal is not feasible or desirable. If dredge spoil is contaminated, confined disposal facilities should include liners or other hydraulic containment design options to prevent leaching of contaminants into adjacent surface or groundwater bodies. Treatment of dewatering liquids (e.g. metals and persistent organic pollutants) may be required prior to discharge. Site-specific discharge quality standards should be established depending on the type and toxicity of the effluents and the discharge location.</p> <p>27. As accepted by the Project Proponent the CER cost is <b>Rs. 16 Lakhs</b> and the amount shall be spent towards the development &amp; management activities in Sirkali Fish market as committed before obtaining CTO from TNPCB.</p> <table border="1"> <thead> <tr> <th>S.No.</th> <th>Description</th> <th>Cost (Rs.)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Sirkali Fish Market Renovation</td> <td>2,00,000</td> </tr> <tr> <td>2</td> <td>School Ground Improvement</td> <td>6,00,000</td> </tr> <tr> <td>3</td> <td>River Bund Strengthening</td> <td>8,00,000</td> </tr> <tr> <td colspan="2">Total</td> <td>16,00,000</td> </tr> </tbody> </table>	S.No.	Description	Cost (Rs.)	1	Sirkali Fish Market Renovation	2,00,000	2	School Ground Improvement	6,00,000	3	River Bund Strengthening	8,00,000	Total		16,00,000
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Total		16,00,000														

## 2. Seiaa Specific Conditions:

S. No	EC Conditions
2.1	<p>After detailed discussions, SEIAA accepts the recommendations of SEAC, the authority decided to grant <b>CRZ and Environmental Clearance</b> for the proposal. This is also subject to the conditions imposed by SEAC, normal conditions stipulated by MOEF&amp;CC and with the specific and standard condition.</p> <ol style="list-style-type: none"> <li>1. The PP shall provide roof gardening in the proposed covered area of the pathway proposed.</li> <li>2. The PP shall ensure that there are enough signages imparting environmental knowledge and education for the public.</li> <li>3. The PP shall ensure that there is no impact on ecology and does not result in Green House gas emissions.</li> <li>4. The PP shall ensure that there is zero carbon emission and no Green House gas emission due to the project's activity.</li> <li>5. The PP shall strictly adhere to all the conditions laid in the CRZ Clearance dated 24.07.2023.</li> <li>6. The PP shall ensure that there is no impact on Mangrove Vegetation.</li> <li>7. The PP shall ensure that there is no impact on coastal marine diversity.</li> <li>8. The Project activity should not impact the livelihood of fishermen.</li> <li>9. The Project activity should not create any hindrance to human settlement.</li> <li>10. The Project activity should not disturb coastal margin &amp; lead to erosion &amp; intrusion of salt water.</li> <li>11. The Project activity should not result in coastal line changes.</li> <li>12. The Project activity should not impact the land use &amp; patterns.</li> <li>13. The Project activity should not disturb the migratory patterns of birds &amp; marine life.</li> <li>14. The project activity shall ensure that the biological waste is disposed properly, for maintaining the hygiene in the local community.</li> <li>15. The PP shall ensure that the post construction monitoring shall be strictly adhered for the cleanliness.</li> </ol>

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

### 1. Statutory Compliance

S. No	EC Conditions
1.1	Construction activity shall be carried out strictly according to the provisions of CRZ Notification, 2011 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.
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.
1.3	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Coast Guard, Civil Aviation Department shall be obtained, as applicable by project proponents from the respective competent authorities.

## 2. Air Quality Monitoring And Preservation

S. 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 (e.g. 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 upwind and downwind directions.
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.
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.
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.
2.5	The Vessels shall comply the emission norms prescribed from time to time.
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.
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 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

S. No	EC Conditions
	of these departments.

### 3. Water Quality Monitoring And Preservation

S. 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.
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.
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 wastewater load will be diverted to the proposed Effluent Treatment Plant of the project site.
3.4	Measures should be taken to contain, control and recover the accidental spills of fuel and cargo handle.
3.5	The project proponents will draw up and implement a plan for the management of temperature differences between intake waters and discharge waters.
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.
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.
3.8	Sewage Treatment Plant shall be provided to treat the wastewater generated from the project. Treated water shall be reused for horticulture, flushing, backwash, HVAC purposes and dust suppression.
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.
3.10	No diversion of the natural course of the river shall be made without prior permission from the Ministry of Water resources.
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.

### 4. Noise Monitoring And Prevention

S. 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.
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.
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.
4.4	The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.

### 5. Energy Conservation Measures

S. 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;
5.2	Provide LED lights in offices and project areas.

### 6. Waste Management

S. No	EC Conditions
6.1	Dredged material shall be disposed safely in the designated areas.
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.
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.
6.4	The solid wastes shall be managed and disposed as per the norms of the Solid Waste Management Rules, 2016.
6.5	Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Waste Management Rules, 2016.
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.
6.7	Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the

S. No	EC Conditions
	prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination.
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.

#### 7. Green Belt

S. 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.
7.2	Top soil shall be separately stored and used in the development of green belt.

#### 8. Marine Ecology

S. No	EC Conditions
8.1	Dredging shall not be carried out during the fish breeding and spawning seasons.
8.2	Dredging, etc shall be carried out in the confined manner to reduce the impacts on marine environment.
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.
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.
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 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.
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.
8.7	The project proponent shall ensure that water traffic does not impact the aquatic wildlife sanctuaries

S. No	EC Conditions
	that fall along the stretch of the river.

### 9. Public Hearing And Human Health Issues

S. No	EC Conditions
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.
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.
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.
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.
9.5	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
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 health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
9.7	Occupational health surveillance of the workers shall be done on a regular basis.

### 10. Environment Responsibility

S. 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 / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
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.

S. No	EC Conditions
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.
10.4	Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.

#### 11. Miscellaneous

S. 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.
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.
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.
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.
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.
11.6	The criteria 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.
11.7	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
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 State Expert Appraisal Committee.
11.9	No further expansion or modifications in the project shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC)/SEIAA-TN.

S. No	EC Conditions
11.10	Concealing 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.
11.11	The Ministry/SEIAA-TN 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.
11.12	The Ministry/SEIAA-TN reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
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.
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 Wastes (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.
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.

## 12. Specific Conditions

S. 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.