



**GOVERNMENT OF PUDUCHERRY**  
**DEPARTMENT OF SCIENCE, TECHNOLOGY AND ENVIRONMENT**  
**STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY**  
**3<sup>rd</sup> FLOOR, PHB BUILDING, ANNA NAGAR, PUDUCHERRY – 605 005.**  
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File No. 292025/SEIAA/DSTE/PDY/2025/369

Puducherry, the

**16 SEP 2025**

To  
The Director,  
Department of Fisheries and Fisherman Welfare,  
Puducherry.

Sir,

Sub: SEIAA, Puducherry – Grant of CRZ Clearance for proposed Development of Smart and Integrated Fishing Harbour at R.S. No. 199, T.S. No. 15, Ward – L, Block No. 7, Karukalacherry, Oduthurai Revenue Village, Karaikal Municipality, Karaikal by the Department of Fisheries and Fishermen Welfare, Government of Puducherry – Reg.

Ref: i) Your Online Application No. IA/PY/CRZ/549607/2025 dated 28.08.2025.  
in PARIVESH Portal 2.0.  
ii) PCZMA Letter No. 292025/DST&E/PCZMA/CRZ/CLR/SCI/2025/362  
dated 10.09.2025.  
iii) Minutes of the 34<sup>th</sup> SEAC Meeting held on 12.09.2025.  
iv) Minutes of the 28<sup>th</sup> SEIAA Meeting held on 15.09.2025.

\* \* \*

This has reference to your application cited (i) above submitted to the Puducherry Coastal Zone Management Authority seeking CRZ Clearance under the Coastal Regulation Zone (CRZ) Notification, 2011.

2. Salient details of the project are as under:

|                     |  |
|---------------------|--|
| Name of the Project | Development of Smart and Integrated Fishing Harbour  |
| Project Location    | Ward-L, Block-7, T.S.No.15, R.S No.199, Karukalacherry, Oduthurai Revenue Village, Karaikal Municipality, Karaikal District, Union Territory of Puducherry.  |
| Project components  | a) The proposal is for upgradation of the existing Fishing Harbour into a 'Smart and Integrated Fishing Harbour' under the Pradhan Mantri Matsya Sampada Yojana (PMMSY). The project, aligned with the national Blue Economy objectives, is expected to enhance the livelihoods of fishing communities, boost fishery exports, and |

|                                   | <p>strengthen resource management through advanced monitoring systems.</p> <p>b) The upgraded facility will accommodate a total fleet of 457 vessels, including: 209 FRP boats (8 m), 51 trawlers (14.8 m), 172 trawlers (20.0 m), 20 trawlers (24.5 m), 5 tuna boats (18.0 m). The Quay (Diaphragm Wall) will be extended from existing 190 meters to 425.88 meters to accommodate additional fleets.</p> <p>c) Shore-based facilities include:</p> <ul style="list-style-type: none"> <li>• Fish handling and auction hall</li> <li>• Tuna grading and packing hall</li> <li>• Net mending shed and net drying yard</li> <li>• Ice plant (75 T/day)</li> <li>• Public toilet blocks and fishermen rest sheds</li> <li>• Radio communication center</li> <li>• Fuel station (existing) and boat repair shed</li> <li>• Effluent Treatment Plant (ETP) and Sewage Treatment Plant (STP)</li> <li>• Fish processing and ancillaries (future plan)</li> <li>• Internal roads, drainage and sanitation systems.</li> </ul> <p>d) About 2,32,000 m<sup>3</sup> maintenance dredging is proposed to be carried in the harbour of which approximately 1,70,300 m<sup>3</sup> will be utilized for harbour reclamation. The remaining material will be used for beach nourishment and filling up of low lying areas.</p> |                       |                           |
|-----------------------------------|---|-----------------------|---------------------------|
| Land Area                         | Existing  | Proposed              | After Expansion           |
| Total plot area                   | 2,82,500 Sq.m   | Nil                   | 2,82,500 Sq.m             |
| Plot coverage                     | 3400.36 Sq.m<br>(1.2%)  | 13,627 Sq.m<br>(4.8%) | 17,027.36 Sq.m<br>(6.02%) |
| Total built-up Area               | 3184.87 Sq.m  | 11,097.83 Sq.m        | 14,283 Sq.m               |
| Green belt Area                   | 2250 Sq.m.<br>(0.8%)  | 40,125<br>(14.2%)     | 42,375 Sq.m.<br>(15%)     |
| Water requirement                 | <ul style="list-style-type: none"> <li>• Total freshwater requirement is 158 KLD which is sourced from the Municipal Supply. Fresh water will be used for Ice Plant (75 KLD), Fish washing (25 KLD), Domestic (28 KLD) and Flushing (30 KLD).</li> <li>• Also 8 KLD recycled water from STP is used for toilet flushing.</li> <li>• About 82.2 KLD of saline water is proposed to be used for fish washing and processing, cleaning of auction hall and fish box. The water is initially drawn from backwater of Mullaiyar River and then continuously recycled after treatment in ETP.</li> </ul>  |                       |                           |
| Wastewater treatment and disposal | <ul style="list-style-type: none"> <li>• About 63.2 KLD sewage is generated from the fishing harbour, and it is proposed to be treated in Sewage Treatment Plant (STP) of design capacity of 100 KLD. The STP is based on Sequential Batch Reactor (SBR) Technology. The treated wastewater is proposed to be used for Gardening and Toilet Flushing.</li> <li>• About 107.2 KLD of effluent is generated from the fish washing at auction hall, fish box washing and fish processing unit, which is</li> </ul>   |                       |                           |

|                        |  |
|------------------------|--|
|                        | proposed to be treated in separate Effluent Treatment Plant (ETP) of 150 KLD design capacity. The ETP consists of tailor-made BOD treatment plant based on Moving Bed Bioreactor (MBBR) technology and UV treatment plant. The treated effluent is proposed to be completely reused for fish washing.  |
| Air Emission           | 1 x 240 KVA Dg Set is proposed to be installed for standby power. Stack height is 8 meters from G.L.   |
| Solid waste Management | <ul style="list-style-type: none"> <li>The Fish waste generation is about 75 Kg/day. This is proposed to be handed over to the poultry vendors.</li> <li>Domestic solid waste generation is 400 kgs/day, of which the biodegradable waste (160 kg/day) is proposed to be treated by Organic Waste Converter (OWC) and the treated waste will be used as manure. Non-bio-degradable (240 kg/day) is proposed to be handed over to recyclers.</li> </ul> |
| Power requirement      | <ul style="list-style-type: none"> <li>Total power requirement is 250 kW from PED.</li> <li>As a sustainable initiative, 250 kW capacity of solar panels will be installed on the roof area covering 3020 Sq.m.</li> <li>Additionally, there is an existing substation with the capacity of 11kVA which will be utilized for drawing power.</li> <li>1 x 240 KVA DG Set proposed for power backup.</li> </ul>  |
| Total project cost     | Rs. 130.17 Crores  |
| EMP Cost               | Rs. 1302.5 Lakhs (Capital) + Rs. 78.5 Lakhs (Recurring)  |

3. The project area is falling in CRZ-IB, CRZ- II, CRZ – IVB. As per CRZ Notification 2011, vide para 3 (i)(a), 3(iv)(b) and 4(i)(f) erosion control measures based on scientific studies including Environmental Impact Assessment are permitted activity. According to paragraph 4.2(ii)(c), SEIAA is the designated authority for granting CRZ Clearance for construction and operation for ports and harbours, jetties, wharves, quays, slipways, ship construction yards, breakwaters, groynes, erosion control measures and salt works specified under paragraph 4(i)(f). The Ministry's OM dated 26/04/2022, S. No. 5 of the table, also affirms the same.

4. The project proponent submitted the application for CRZ Clearance through the PARIVESH 2.0 portal under Proposal No. IA/PY/CRZ/549607/2025 dated 28.08.2025. The proposal was reviewed in the 54<sup>th</sup> meeting of the PCZMA held on 03.09.2025. After detailed scrutiny and deliberation, the Authority recommended the proposal to the SEIAA, Puducherry for the issuance of CRZ clearance vide letter dated 10.09.2025.

5. The proposal has been appraised by the State Level Expert Appraisal Committee (SEAC) in its 34<sup>th</sup> Meeting held on 12.09.2025. The SEAC after due diligence, decided to recommend the proposal to SEIAA for issue of CRZ Clearance subject to specific conditions applicable for this project as mentioned in the Minutes of SEAC Meeting.

6. The proposal was examined by the SEIAA in its 28<sup>th</sup> meeting held on 15.09.2025. After due deliberation, SEIAA accepted the recommendations of SEAC and PCZMA and decided to proceed with the issuance of CRZ Clearance for the project with the following specific conditions along with other General Conditions as mentioned in the Minutes of the SEIAA Meeting.

7. Accordingly, CRZ Clearance is granted to the above project under the provisions of CRZ Notification, 2011 and its subsequent amendments subject to strict compliance of the following Specific and General conditions:

**I. SPECIFIC CONDITIONS:**

1. The CRZ Clearance issued to the project is primarily under the provisions of CRZ Notification, 2011. It does not tantamount to approval / clearance / permission etc. required to be obtained under any other Acts / Rules / Subordinate legislation as applicable to the project.
2. All the conditions specified by the Puducherry Coastal Zone Management Authority (PCZMA) vide letter No. 292025/DST&E/PCZMA/CRZ/CLR/SCI/2025/362 dated 10.09.2025 shall be complied with.
3. The Project Proponent shall ensure that all recommendations and mitigation measures outlined in the Environmental Impact Assessment (EIA) and Environmental Management Plan (EMP) reports are implemented in letter and spirit during the execution and operational phases of the project.
4. Project proponent shall ensure that all sewage and fish processing effluents generated within the facility are treated in dedicated Sewage Treatment Plant (STP) and Effluent Treatment Plant (ETP) units designed and operated to meet prescribed standards. Additionally, established protocols for reuse and recycling of treated wastewater must be rigorously implemented to prevent pollution, maximize resource recovery, and support environmental sustainability objectives.
5. Project proponent shall obtain an adequacy report for the ETP and STP from any recognized expert institutes to ensure that the treatment systems are appropriately designed and effective, before commencing construction activities of the treatment plant.
6. The project proponent shall ensure that fish waste, estimated at approximately 75 kg/day, is segregated at source and disposed of only through authorized channels such as fish or poultry meal plants, approved poultry vendors, or composting/bio-methanation facilities authorized by the Puducherry Pollution Control Committee (PPCC) to ensure safe and environmentally sound disposal. The indiscriminate disposal of untreated fish waste into the marine environment or landfills is strictly prohibited to prevent pollution and health hazards.
7. Domestic solid waste shall be managed by implementing Organic Waste Converter (OWC) / Bio-methanation / Bio-composting for biodegradable waste treatment and by engaging authorized recyclers for non-biodegradable waste, ensuring compliance with solid waste management regulations and minimizing environmental and public health impacts.
8. Project proponent shall carry out maintenance dredging of 2.32 lakh m<sup>3</sup> / annum from Mullaiyar and Arasalar Rivers ensuring dredging depth does not exceed -3.0 meters and strictly outside fish breeding and turtle nesting seasons. Approximately 1,70,300 m<sup>3</sup> of dredged material shall be used for harbour reclamation, with the remainder for coastal





beach nourishment and other uses like filling of low-lying areas. All operations must comply with the National Framework for Sediment Management (2023) by Ministry of Jal Shakti and MoEF&CC O.M dated 12.07.2023, ensuring environmental safeguards to protect the rivers' physical characteristics and ecosystem services.

9. Project proponent shall conduct coastal erosion and shoreline monitoring, including sediment transport modeling, to assess impacts of breakwaters. Any identified erosion disparities must be addressed with appropriate mitigation measures to ensure coastal stability and compliance with CRZ requirements.
10. The project proponent shall actively promote and ensure that all fishing operators using the harbour adopt bycatch reduction measures such as Turtle Excluder Devices (TEDs), bycatch reduction devices and appropriate mesh sizes on all fishing vessels. These measures shall be implemented in compliance with sustainable fishing practices and relevant regulatory guidelines to minimize the incidental capture of turtles and other non-target species, thereby supporting marine conservation and responsible fisheries management.
11. Project proponent shall support and facilitate conservation efforts for the turtle nesting beaches located around the project site by collaborating with the Forest Department and local environmental and community groups to protect these critical habitats from disturbance and degradation, thereby contributing to the long-term sustainability of endangered marine turtle populations.
12. Project proponent shall undertake comprehensive expansion of the green belt area within the premises, ensuring a coverage of 33% of project area through site-specific, native vegetation to act as a bio-shield for coastal protection, erosion control, habitat restoration and enhancement of local landscape and microclimate.
13. Project proponent shall install and operationalize solar panels with a minimum aggregate capacity of 250 kW across designated roof areas, integrating the renewable energy system into core harbour operations to significantly reduce carbon emissions, strengthen energy resilience and advance sustainable coastal infrastructure objectives.
14. Project proponent shall establish a rainwater harvesting system with a storage sump capacity of minimum 85,000 cubic meters, dedicated to harvesting and storing rainwater for use in fishing harbour operations. The system design shall incorporate best practices for catchment, first-flush diversion, filtration and storage to ensure quality and reliability of water supply while reducing dependency on municipal freshwater sources.
15. Detail Marine Biodiversity Management Plan shall be prepared through expert scientific institutions and appropriate biodiversity conservation measures shall be implemented to minimize the impact of construction and operational activities on marine and coastal ecosystems. Monitoring of sensitive species shall be carried out in collaboration with local biodiversity experts.
16. The proponent shall establish and implement disaster resilience protocols to protect the project site and surrounding areas during adverse weather conditions. These protocols should include measures to safeguard fishermen, vessels and infrastructure in the event of storms or high tides.



17. Project proponent shall establish a dedicated Environment Management Cell (EMC) to oversee and ensure effective implementation of all environmental safeguards, compliance requirements and monitoring protocols stipulated under this clearance. The EMC shall be staffed with qualified personnel, equipped with adequate resources and shall regularly coordinate with the Coastal Zone Management Authority and Pollution Control Committee to facilitate transparent reporting, grievance redressal and adaptive environmental management throughout the project lifecycle.
18. All project activities shall strictly conform to the provisions of the CRZ Notification, 2011, the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and associated rules, as amended from time to time, ensuring full compliance with all applicable environmental regulations and safeguards throughout construction and operation phases.

## II. GENERAL CONDITIONS:

1. The Project Proponent shall make public the CRZ clearance granted for their project by prominently advertising it in at least two local newspapers of the District, 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. The press releases shall mention that the copy of the clearance letter is available in the website of the Project Proponent and PCZMA. The copy of the press release should be forwarded to the PCZMA.
2. The Project Proponent shall submit a copy of CRZ Clearance to the District Collector's Office, Tehsildar's Office, Office of the concerned Commune Panchayat / Municipality, PCZMA and other relevant offices of the Government, who in turn shall display it at the office for 30 days. Copy of the CRZ Clearance shall also be submitted to the Regional office of MoEF&CC.
3. The copy of the CRZ Clearance letter shall be displayed on the website of the Project Proponent and PCZMA.
4. Officials from the Regional office of MoEF&CC, SEIAA and PCZMA who would be monitoring the implementation of environmental safeguards should be given full cooperation, facilities and documents/ data by the project proponents during their inspection.
5. The project proponent shall submit six monthly reports on the status of compliance of the stipulated CRZ clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional office of MoEF&CC, SEIAA and PCZMA. This shall also be put on the website of the company / organization by the proponent.
6. In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by SEIAA.
7. The SEIAA reserves the right to add additional safeguard measures subsequently, if found necessary and to take action including revoking of the CRZ clearance 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.

8. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities.
9. These stipulations would be enforced among others under the provisions of Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and control of Pollution) act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and CRZ Notification, 2011.
10. Any appeal against this clearance 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.

### III. VALIDITY:

The validity of this CRZ Clearance is for **Ten years** from the date of issue.



**SMITHA. R, IAS**

**Special Secretary – cum – Director, DSTE  
Member Secretary, SEIAA**

### Copy to:-

1. The Commissioner-cum-Secretary to Government (Science, Technology and Environment), Chief Secretariat, Puducherry.
2. The Chairman, State / UT Level Environment Impact Assessment Authority, Puducherry.
3. The Chairman, State / UT Level Expert Appraisal Committee, Puducherry.
4. The Member Secretary, Puducherry Coastal Zone Management Authority, Puducherry.
5. The Member Secretary, Puducherry Pollution Control Committee, Puducherry.
6. The Additional Principal Chief Conservator of Forests (C), Ministry of Environment, Forest and Climate Change, Regional Office (SEZ), 1<sup>st</sup> and II<sup>nd</sup> Floor, Handloom Export Promotion Council, 34, Cathedral Garden Road, Nungambakkam, Chennai – 600 034.
7. Standing Guard File.