

# COCHIN SHIPYARD LTD.

(A GOVERNMENT OF INDIA ENTERPRISE)

KOCHI - 682 015, INDIA



# कोचीन शिपयार्ड लिमिटेड

(भारत सरकार का उद्यम)

कोच्ची - 682 015, भारत

PROJ/ISRF/701/13

20 Sept 2016

**Shortcoming:** - You are requested to upload document / ToR (Terms of Reference) issued by MoEFCC for the project regarding requirement of forest clearance

Attn: - Nodal Officer

**Sub:** - Forest Clearance for International Ship Repair Facility (ISRF)  
project of Cochin Shipyard Ltd. (CSL), Kochi – regarding


**Ref:** - CSL proposal No. FP/KL/Others/20218/2016

Please be apprised that the requirement of stage-1 Forest Clearance was not mentioned in the Terms of Reference approved by MoEFCC. However, Expert Appraisal Committee (EAC) during its deliberation of the ISRF project held on 23 May 2016 had insisted for stage-1 Forest clearance. Relevant pages of the Minutes of EAC meeting is enclosed. The same can also be downloaded from the following link:

<http://environmentclearance.nic.in/writereaddata/Form-1A/Minutes/09062016RXZ1C1NQMinutesof6EAC.pdf>

Thanking you

Yours faithfully

For Cochin Shipyard Ltd.   
**ELDHO JOHN**  
महा प्रबंधक  
General Manager  
कोचीन शिपयार्ड लिमिटेड  
Cochin Shipyard Ltd.  
कोच्ची / Kochi - 682 015



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CIN: U63032KL1972GOI002414

	<p>After detailed deliberation, the Committee sought following additional information:</p> <ul style="list-style-type: none"> <li>i) It was considered that carrying out the activities just about 8 to 10 meters of the HTL may need a proper handling of Pollutants. The project proponents were advised to give a list of all wastes anticipated, classification of the waste as per their inclusion in various categories under the Pollution Control and Environment protection laws and the mode of disposal.</li> <li>ii) Give proper details of handling Asbestos in the open and within rooms.</li> <li>iii) The committee did discuss the letter from Mr. Debi Goenka and advised the proponents to submit a reply.</li> </ul> <p>The proposal was deferred till the desired information is submitted. The above information shall be provided with the uploading of minutes on the website.</p>						
6.2.2.	<p><b>Augmentation of existing ship repair facility at Cochin Port of District Ernakulam, Kerala by M/s Cochin Shipyard Ltd – Further consideration for Environmental and CRZ Clearance</b></p> <p><b>Proposal was considered by EAC ( Infra) in its 153<sup>rd</sup> meeting held on 20<sup>th</sup> November, 2015 and the Committee deferred the proposal for want of addl. Information. PP has submitted the addl. Information.</b></p> <p>M/s Cochin Shipyard Ltd has proposed for augmentation of existing ship repair facility at Cochin Port of District Ernakulam, Kerala. Existing Cochin Ship Repair Facility was established in 1938 at Wellington Island with a dry dock and one afloat berth having the following features:</p> <ul style="list-style-type: none"> <li>i) Dry Dock – 66m length, 12.5m width and 4m depth</li> <li>ii) Two Cranes</li> <li>iii) Afloat repair berth of 90m length without any crane capacity</li> </ul> <p>Existing facility is capable of only accommodating maximum size of ships length ≤64m, breadth ≤ 12.5 and draught of 4m.</p> <p>Total area required for the proposed project is 17 ha ( Land) + 15 ha ( water front ) area. It is reported that Mangalavanam Bird Sanctuary is located at distance of 4.3 km. Proposed activities within 17 ha port area allocated by Cochin Port Trust to Cochin ship Yard. No additional reclamation or land acquisition is required.</p> <p>Details of the existing facilities are as given below:</p> <p><b>Shoreside Facilities</b></p> <ul style="list-style-type: none"> <li>1. Graving dock of size 66mx12.5mx7m</li> <li>2. Afloat repair berth(L jetty)90mx10m</li> </ul> <p><b>Landside Facilities</b></p> <ul style="list-style-type: none"> <li>1. Main workshop building (3885sq.m)</li> <li>2. Administrative Office Building (544sq.m)</li> <li>3. Technical Staff Building (309sq.m)</li> <li>4. Canteen Building (860sq.m)</li> <li>5. Warehouse complex (3650sq.m)</li> </ul> <p><b>Following are the proposed facilities, ISRF:</b></p> <table border="1"> <thead> <tr> <th>Sl.</th><th>Production area</th><th>Main dimensions</th><th>Total area [m<sup>2</sup>]</th></tr> </thead> </table>			Sl.	Production area	Main dimensions	Total area [m <sup>2</sup> ]
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No.		(preliminary)	
<b>New Facilities</b>			
1.	Ship lift	135m x 27m Lifting capacity: 6,000T	3,645
2.	Transfer section	"A" 132m x 90m	11,880
3.	Transfer section "B"	132m x 90m	11,880
4.	Work stations "NORTH"	135m x 115m 2 workstations	12,150
5.	Work stations	"SOUTH" 135m x 115m 2 workstations	12,150
6.	Jetty 1	300m x 29m	8,700
7.	Jetty 2	537m x 15m	8,055
8.	Electrical / electronic workshop	35m x 25m	875
9.	Engine repair shop	35m x 25m	875
10.	Pipe shop / boiler repair	70m x 25m	1,750
11.	Steel fabrication / Locksmith shop	70m x 25m	1,750
<p>In addition to the above mentioned workshops and work areas a number of ancillary buildings and areas are necessary for the ISRF process. These ancillary buildings / areas and stations will include:</p> <ul style="list-style-type: none"> <li>i) Stores, e.g. store for outfitting material, paint store, grit store, store for staging material</li> <li>ii) Maintenance areas, e.g. utilities maintenance and service, maintenance area for cranes and fork lifts</li> <li>iii) Administration buildings, information office</li> <li>iv) Social buildings / facilities, e.g. hygiene centres, toilets, canteen, first aid Security facilities, fire station</li> <li>v) Electrical and mechanical service stations and buildings, substations, distribution</li> <li>vi) facilities, water supply and wastewater, compressors Internal heavy transport management</li> <li>vii) Waste and scrap management</li> <li>viii) Work areas and facilities for subcontractors (including social facilities)</li> </ul> <p>Water requirement from Kerala Water Authority (KWA) for proposed facility complex will be 528 m<sup>3</sup>/day. The storm water collected from the facility will be let out in seawater after treating it in the effluent treatment plant. The effluent from process, shops/areas, workstation, oil and grease will be treated in ETP having capacity of 500 m<sup>3</sup>/day. The wastewater generated from the toilets, bathrooms and other areas in the operation building will be treated in the Sewage Treatment Plant (STP). Two STPs of capacity 25 KLD and 15 KLD are proposed. The solid waste generated from various processes will be collected and disposed as per the Municipal Solid Waste Management Rules, 2000. Scrap and waste bins for separate collection of different materials and waste. Recyclable waste including scarp</p>			

will be sold to the identified vendors approved by Kerala State Pollution Control Board. Construction and demolition (C&D) waste will generated during the modernization of the existing Cochin Ship Repair facility to International Ship Repair Facility.

The dredging will ensure sufficient draft. The total quantity of the dredged material is estimated to be 600,000m<sup>3</sup> and it will be disposed to the identified one of two dumping ground locations in the outer sea about 21km away from the project site.

Public hearing was conducted on 23.03.2016.

Kerala Coastal Zone Management Authority vide letter no. 3223/A2/15/KCZMA/S&TD dated 7.09.2015 has recommended the above mentioned proposal to MoEF&CC under the provisions of the CRZ Notification, 2011. It is report that a small patch of isolated mangroves categories as CRZ-I A is present in the project site, which spreading over an area of 186.6 m<sup>2</sup>. During EAC meeting held on 20<sup>th</sup> November, 2015, the Committee deferred the decision and suggested the MoEF&CC to seek comments from KCZMA. Accordingly, KCZMA vide letter no. 3223/A2/15/KCZMA/S&TD dated 6.04.2016 conveyed the following explanation:

- i) The island (Wellington Island) is an artificial island created before independence under the leadership of the British Engineer Bristow. The Cochin Harbour Terminus Railway Station and former Cochin Airport ( Now, the Navy Airport) and Cochin Port occupies the main portion of land area of the island, the NH 47 A also passes through the island.
- ii) The entire coastal area of the island is designated as port area.
- iii) The proposed ship building yard is considered as a projected port activity.
- iv) The small patch of mangroves is found in an area less than 100 m<sup>2</sup> which was indeed not a natural habitat of the plants. As per the approved CZMP of the State, the area was devoid of any mangrove to classify as CRZ I. However, due to the recent growth of mangroves into the area only a small part of the project area is treated as CRZ I A. But sufficient afforestation is assured as protective measure to the mangroves which are to be removed.
- v) This Island area lies in the vicinity of Cochin Shipyard.

After detailed deliberation, the Committee sought following additional information:

- i) Status of stage-1 forest clearance.
- ii) Copy of application submitted for clearance from NBWL for Mangalavanam Bird Sanctuary.
- iii) 2 ha. land area to be identified for mangroves afforestation.
- iv) Select ambient air quality stations as per upwind and down wind direction.
- v) Recheck ambient air quality for 1 month data.
- vi) Plan for disposal of C & D waste as per new rules for C & D waste management.
- vii) Explore the possibility to use solar energy.
- viii) The EIA does not address to the entire spectrum of flora and fauna. A detailed assessment and a management plan including macro fauna and flora to be submitted.
- ix) Details of hazardous wastes generated from the proposed unit and its management plan as per the provisions of the Hazardous Waste Management rules.
- x) Quantity of wastewater generation and its management and disposal plan to be submitted.

The proposal was deferred till the desired information is submitted. The above information shall be provided with the uploading of minutes on the website.