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Invites

Expression of Interest (EOI)

For

**Design, Manufacture, Supply, Installation & Commissioning
of FRP Superstructure with Outfitting for
100PAX Electric Hybrid
Catamaran Ferry (23 nos)**

Issue date: 17th December 2019

Enquiry No.: SDD/100PAX CATAMARAN/BY123//2019

Due Date for Submission of EOI: 10th January 2020

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1. INTRODUCTION & OBJECTIVE

Cochin Shipyard Limited (CSL) is a premier Ship Building & Ship Repair company under Ministry of Shipping, Government of India incorporated in the year 1972. Cochin Shipyard is now engaged in building 23 nos of 100 passenger Electric Hybrid Catamaran Ferry of Aluminium hull & FRP Superstructure for KMRL (Kochi Metro Rail Ltd).

This Expression of Interest (EOI) is for the short listing of reputed and experienced FRP manufacturers & integrators who has got experience in design & supply of FRP structures & accommodation interiors which caters to the requirements of ruggedness & quality standards for mass transportation, for the design, manufacture, supply, installation and commissioning of FRP Superstructure & Outfitting for the Catamaran ferry. Final selection will be done through competitive tendering process by inviting bids only from qualified and short listed firms who had participated in the present EOI & meeting all the eligibility criteria mentioned in 3 below.

The first vessel of the 23 nos of Catamaran ferry series will be delivered to the Ship Owner on October 2020 & the last vessel will be delivered on September 2021. Please see below probable delivery schedule of each vessel to ship Owners.

- 1st Vessel - 27 October 2020
- 2nd Lot (Four Vessels) - 25 January 2021
- 3rd Lot (Four Vessels) - 26 March 2021
- 4th Lot (Four Vessels) - 25 May 2021
- 5th Lot (Five Vessels) - 24 Jul 2021
- 6rd Lot (Five Vessels) - 22 Sep 2021

2. SCOPE OF SUPPLY

Please refer Annexure – 1 & 2 for broad scope of supply.

Scope of supply will be mentioned in detail in the Limited Tender Enquiry to be issued to the prequalified FRP manufacturers/integrators later.

3. ELIGIBILITY CRITERIA

3.1 GENERAL

- a) The Bidder shall be a **Single firm**.
- b) Bidder should be in the field of FRP manufacturing for the last ten (10) years till the date of submission of this EOI. Certificate of Incorporation of the company in this regard shall be submitted.
- c) Bidder shall not be under a declaration of ineligibility issued by Govt. of India / State Govt. / Public Sector Undertakings etc.

3.2 TECHNICAL EXPERIENCE

SL. No	Criteria	Document to be submitted for verification
1	The firm should have successfully completed* supply & execution of FRP parts inline with global standards for outfitting of coaches of any metro rail projects in the last 8 years. Value of one similar work shall not be less than 6 crores INR or two similar works not less than 4 crores INR each or three similar works not less than 3 crores INR each.	See note i below
2	The firm should have successfully completed* supply# & execution of interior layout designs inline with global standards for outfitting of coaches of any metro rail projects in the last 8 years. Value of one similar work shall not be less than 6 crores INR or two similar works not less than 4 crores INR each or three similar works not less than 3 crores INR each.	See note i below
3	The firm should have adequate facility & infrastructure for handling Hybrid process of FRP Manufacturing (Gel coated Sandwich) with Vacuum assistance.	See note ii below
4	Firm to comply with the requirements mentioned in DNV GL rules for classification: Ships – DNVGL-RU-SHIP-Part2 Chapter 3 Section 3 – Manufacture of products made of FRP or Works approved by IRS.	See note iii below

* Delivery of the coach to metro rail to the owner

Layout Design to meet specification/requirements.

Note:

- i. In line with the experience criteria, the bidder shall submit the Notary Vetted copy of Purchase Order (PO) along with Commissioning Report issued by the Third Party Inspection Agency (TPIA) or Completion Certificate issued by the client as relevant stating the above.
- ii. In line with facility & infrastructure criteria, firm shall submit the Capabilities with respect to infrastructure facilities for FRP manufacturing, manufacturing capacity, design & 3D modelling/rendering of interiors/exterior of FRP structure with colour marking.
- iii. In line with class requirements criteria for facility, firm shall submit valid copy of works approval certificate for the facility (in which the firm is supposed to manufacture the items in case of order) by DNV or IRS. If the above certificate is not available, firm shall submit letter by competent authority of the firm confirming the submission of this agreement with class within 2 months from the date of receipt of the work order, in case of order.
- iv. The documents / certificates submitted by bidder will be verified with source directly by CSL. CSL shall visit the firm's facility if required in order to confirm the declarations made by the firm. Misleading or false representations in the forms, statements and attachments submitted in proof of eligibility requirements will result in summarily rejection /

disqualification of the submitted offer at any point of time whatever may be the status of the process. Also, the firm will not be considered for further tendering for a period of three (3) years henceforth.

- v. CSL reserves the right to obtain clarifications or confirmation directly from the bidder's clients. CSL shall visit the installations carried out by the bidder in order to have firsthand information regarding the performance and after sales support rendered by the firm. The Bidder shall co-ordinate for obtaining approval / consent for the above mentioned visit whereas travelling and all other expenses for the same shall be borne by CSL. Final acceptance of the offer is subject to the receipt of satisfactory feedback from the clients as mentioned above.

3.3 FINANCIAL CAPABILITY

SL. No.	Criteria	Document to be submitted for verification
1	The Bidder shall have average annual turnover equivalent to Rs. 5 Crores (INR) for the last three financial years ending March 2019.	See note i & ii below
2	The bidder shall have an average net worth equivalent to Rs. 2 Crores (INR) at the close of preceding 3 (three) financial years ending March 2019.	See note i & ii below
3	The Applicant (firm) who had applied for Corporate Debt Restructuring (CDR) in three years viz., 2016-2017, 2017-2018, 2018-2019 and till the due date for submission of the bid is not eligible to participate in this request for EOI	The undertaking that the Applicant has not applied for CDR shall be submitted.
4	The bidder shall furnish solvency certificate issued by a nationalized / scheduled bank to the tune of Rs. 5 Crores or equivalent. In case of international bidders, solvency certificate shall be issued by any international reputed bank. The applicant shall submit the solvency certificate, not older than 3 (three) months prior to last date of submission of this EOI.	Format placed at Annexure – 6 shall be followed.

Note:

- i. The Bidder shall enclose a certificate issued by its Statutory Auditors with their seal and signature, stating its net worth & revenues for the past three financial years along with the bid. Certificate shall be as per the format enclosed at **Annexure-3**.
- ii. Present Order Book position of the bidder shall be submitted as per **Annexure - 10**. The same shall be certified by the concerned statutory auditors of the bidder.
- iii. After the pre-qualification process and subsequent issue of limited tender enquiry to the short listed firms, CSL shall at its own discretion and costs opt for obtaining credit

information report of these bidders through credit rating firms like M/s Dun & Bradstreet, MNS etc. during the techno-commercial evaluation of offers.

- iv. Bidders shall meticulously take notice that each of the aforesaid report is very critical for this tender and any wrong submission or submission with inadequate supporting documents or any mismatch in the documents will result in summarily rejection / disqualification of the submitted offer or even at any point of time whatever may be the status of the process.

4. PERFORMANCE REQUIREMENTS OF THE FRP SUPERSTRUCTURE & OUTFITTING:

The vessel shall be built under **DNV GL** (primary class) with the notation:
✕1A, IN(1.2), METRO FERRY, BATTERY (POWER) (applicable clauses for inland vessels)

And dual classed with **IRS** with notation 𠄎IWL, 𠄎IY, ZONE2, FERRY

Flag: Not Applicable. Statutory review, certification and survey shall be done by IRS as per Kerala Inland Vessel Rules 2010 with all amendments.

Manufacturer's shop tests and inspection to prove the compliance of structural/operational requirements shall be carried out in accordance with the manufacturer's Standard and the requirements of the class. The DNV & IRS class inspection for FRP superstructure shall be arranged by the bidder. Final acceptance of FRP super structure & outfitting is with Ship Owner's discretion on finish of the FRP superstructure.

5. INSTRUCTION TO APPLICANTS

This request for Expression of Interest (EOI) is to shortlist reputed and experienced manufacturers for design, supply, installation and commissioning of FRP superstructure & Outfitting for 100PAX CATAMARAN project being built at CSL. Subsequent to pre-qualification, Limited Tender Enquiries will be sent only to the shortlisted bidders. Please be noted that EOI is fully under the discretion of CSL. Furtherance of EOI and finalization of specification of the proposed FRP superstructure & Outfitting is fully under the right of CSL and participants of this EOI do not have any right to question the same.

5.1 RIGHT TO ACCEPT PROPOSAL

CSL reserves the right to modify, expand, restrict, scrap this proposal or reject any Expression of Interest without assigning any reason.

5.2 CLARIFICATIONS

During evaluation stage of the Expression of Interests, CSL may, at its discretion, ask bidders for clarifications on their proposal. The bidders are required to respond within the time frame prescribed by CSL. CSL reserves the right to make inquiries with any of the bidder's clients. Bidders shall also be asked to visit CSL for technical discussions, if required.

5.3 SITE VISIT

The applicants are advised to visit the KMRL metro rail coaches at Kochi and familiarize themselves with the standard & requirements of KMRL before submitting the proposal at their cost.

5.4 LANGUAGE

The proposal and all associated correspondences shall be in English. All supporting document or printed literature submitted along with the offer shall also be in English. Supporting documents, which are not translated to English, will not be considered for pre-qualification.

5.5 EVALUATION

The offer will be examined on the basis of response to qualification criteria & scope of work defined by CSL. If required, applicants may be invited to make a presentation to CSL to demonstrate their capabilities, experience, methodology etc. at a suitable date and time determined by CSL. CSL at its discretion may visit the firms facility at a suitable date for evaluation of the documents submitted.

5.6 INTEGRITY PACT

The bidders shall sign and submit an "Integrity Pact (IP)" to be executed between the bidder and Cochin Shipyard Limited along with the bid as per **Annexure-8**. IP shall be implemented through the following Independent External Monitor (IEM) for the bid.

Mr. P.K. Vijayakumar, IRS (Retd), Madhavam, Vaniyan Lane, Punkunnam P.O, Thrissur – 680002

5.7 DISQUALIFICATIONS

CSL may at its sole discretion and at any time during the evaluation of proposal, disqualify any bidder, if they have:

- a) Submitted the Proposal documents after the response deadline.
- b) Not submitted satisfactory documentary evidence and proof as per eligibility criteria mentioned at clause 3 above.
- c) Made misleading or false representations in the forms, statements and attachments submitted in proof of eligibility requirements.
- d) Submitted a proposal that is not accompanied by required documentation or is non-responsive.
- e) Failed to produce clarifications related thereto, when sought.

- f) Submitted more than one proposal.
- g) Declared ineligible by the Government of India / State Govt. / Public Sector Undertaking.
- h) Applied for Corporate Debt Restructuring (CDR) in three years viz. 2016-2017, 2017-2018, 2018-2019 and till the due date for submission of EOI.
- i) Not meeting any other applicable criteria / clauses in the current EOI.

6. PROFORMA FOR SUBMISSION OF EXPRESSION OF INTEREST SHALL CONSIST OF:

- a) Covering letter indicating interest to undertake CSL project (Format attached as **Annexure – 4**).
- b) Company profile with legal status, date of establishment, organization chart, Certificate of incorporation etc as per **Annexure-7**.
- c) Power of Attorney as per **Annexure-5**.
- d) Integrity pact as per **Annexure – 8**.
- e) Capabilities with respect to infrastructure facilities for FRP manufacturing, manufacturing capacity etc.
- f) In-house capabilities of design & 3D modelling/rendering of interiors & exteriors
- g) Execution plan with scope & methodology.
- h) Approval / Quality certification / Registration with any Govt. Agency.
- i) Technical Experience details as per **Annexure-9** with supporting documentary evidence.
- j) Certificate regarding financial capability as per **Annexure -3** stating net worth & annual turnover during the past three (3) years.
- k) Solvency certificate as per **Annexure-6**.
- l) Documents regarding present order book position as per **Annexure-10**.
- m) Sub supplier list with contact details considered for major items like FRP raw materials, Windows, Air-conditioning system, Doors (including sliding doors, LSA & FFA items etc.
- n) Major customer list of the firm with contact details.
- o) All pages of the EOI document, including amendments if any shall be duly signed and sealed by the authorized representative of the bidder as a token of the acceptance of all terms and conditions stated therein the document.
- p) Deviations or suggestions, if any.

7. GENERAL

- a) CSL reserves the right to accept or reject any of the EOI without assigning any reason anytime or incurring any liabilities towards the firms. Submission of the EOI shall not automatically make the applicant eligible to receive the Limited Tender Enquiry (LTE).
- b) CSL will treat the completed EOI forms as confidential. Documents submitted by the firms will not be returned.

- c) All corrigenda, addenda, amendments and clarifications to the request for Expression of Interest will be hosted only in the website www.cochinshipyard.com and not published in the newspapers or any other media. Bidders shall keep themselves updated with all such developments till the last date and time of submission of EOI.

8. SUBMISSION OF EXPRESSION OF INTEREST

The sealed proposals (Original + One Duplicate hard copy + One soft copy) superscribing the enquiry number, last date for receipt of EOI and title **“Expression of Interest for Design, Manufacture, Supply, Installation & Commissioning of FRP Super Structure & Outfitting for 100PAX CATAMARAN being built at Cochin Shipyard Ltd.”** shall be addressed to the following address with all credentials mentioned at clause 6 above:

General Manager (Design)
Design Department
Cochin Shipyard Limited
Perumanoor Post, Kochi –682015
Kerala, India

- Enquiry No. & Date: **SDD/100PAX CATAMARAN/BY123//2019** dated 17th December 2019
- Last date and time of Receipt of Queries : 31st **December 2019**, IST 1500 hrs
- Last date and time of Receipt of EOI : 10th **January 2020**, IST 1500 hrs

The contact point for any clarification / correspondence is the following

Tony Johnson, Senior Manager (Design),
Telephone: +91 484 2501337, HP: + 9895704434
Email: tonyj@cochinshipyard.com

With copy to

Arunkumar V, Assistant General Manager (Design)
Telephone: +91 484 2501327, HP: +9895705065
Email: arun.kumarv@cochinshipyard.com

9. LIST OF ANNEXURES

- Annexure – 1: Preliminary -Scope of Supply/Technical Specification
- Annexure – 2: Preliminary -List of items under scope of supply
- Annexure – 3: Format for Financial capability
- Annexure –4: Application for qualification
- Annexure-5: Format of Power of Attorney

- Annexure –6: Format of solvency certificate
- Annexure-7: Structure and Organization
- Annexure –8: Format of Integrity Pact
- Annexure –9: Experience: Relevant Projects Completed
- Annexure- 10: Present Order book position
- Annexure –11: General Arrangement of 100PAX CATAMARAN

-Sd/-
General Manager (Design)

PRELIMINARY SCOPE OF SUPPLY/TECHNICAL SPECIFICATION OF FRP SUPERSTRUCTURE AND ACCOMMODATION OUTFITTING ITEMS

FRP SUPERSTRUCTURE

The profile and appearance of the Boat shall be aesthetically modern and beautiful; interiors should be functionally and aesthetically superior. The interiors should essentially have appearance/quality similar to that of Kochi Metro rail coach interiors, as Water metro forms an important part of seamless integration of transportation modes of KMRL. In this regard, it is recommended that the vendor shall visit the KMRL Metro coaches to be aligned with the KMRL requirements on appearance/quality of the interiors.

SUPERSTRUCTURE CONSTRUCTION

Superstructure shall be of Sandwich construction and Vacuum infusion technology shall be used for fabrication of the boats.

- Resin: - Water resistant low viscosity fire retardant epoxy resin suitable for Vacuum infusion technology shall be used.
- Fibre: - Stitched multi axial fibres shall be used for construction.
- Core material: - PVC Foam material. The density of bulkheads, super structure, deck floor & stiffeners shall be of 80 kg/m³ minimum. Plywood shall not be considered for the construction of vessel without prior owner approval. For securing areas PVC foam to be of minimum density of 250 kg/m³ (if any).

A layer of surface tissue shall be used with Gel Coat, to get good surface finish, gloss, scratch resistance and anti-graffiti properties. The colour of panels shall not fade or discolour with time, or change due to rubbing. Painting of surfaces after curing of FRP panels shall be avoided. Colours shall be achieved by using pigmented Gel Coat in the moulds. Suitable gel coat compatible with epoxy resin layers and UV resistant shall be used for fabrication.

Samples of FRP to be tested as per class requirements for

- a) Water resistance
- b) UV resistance
- c) Applicable provisions of fire retardant tests for resins and gelcoat
- d) Combustibility testing as per class requirement
- e) ISO standards for Resin curing to be observed

Firm shall make the the vessel's FRP structural drawings and get it approved by DNV & IRS. The DNV & IRS class inspection for FRP superstructure shall be arranged by the firm. Final acceptance of FRP super structure is with Ship Owner's discretion on finish of the FRP superstructure.

ACCOMODATION

PASSENGER CABIN

The Firm shall propose boat interior layouts, which incorporate a modern aesthetic approach with considerations to optimise passenger comfort, safety and security as well as to minimise noise in the cabin. The clear ceiling height from top of deck flooring to ceiling shall not be less than 2.05 m.

It shall incorporate wide double-leaf automatic doors at the aft deck (door to be interfaced to the annunciation system supplied by the OWNER), athwartship face to face seating, centre lobby for standees, stainless steel grab-poles and rails, LED lighting, air-conditioning, passenger information displays, public address loud speakers, and passenger alarm to permit passengers to make the boat operator aware of problems. Supply of passenger announcement system and passenger information display system are in Yards scope. Installation of the same to be done by the firm.

Wheel house to be separated from accommodation with access doors and have common/separate air-conditioning.

The body side and roof outer skin shall have a suitable thickness of approved acoustic and thermal insulating material bonded to their interior surfaces.

The design of interior fittings shall be safe under all conditions of passenger impact, during pitching and rolling movements of the vessel.

All non-metallic materials shall satisfy the requirements of flammability, toxicity and smoke emission limitations specified in FTP code to the extent required by class.

All interior surfaces must be finished with good blending and good slow ageing properties to provide a pleasant, high-quality interior and for ease of cleaning and maintenance.

All wall and ceiling panel surfaces shall be smooth finished with modern low flammability, low smoke emission, anti-graffiti, and low toxicity materials. All internal panels shall be resistant to graffiti, scuffing, vandalism and cleaning agents. Rounded corners or covings shall be provided wherever mutually perpendicular flat plane surfaces abut. Metal sticking strips of 150 mm depth with radiused coving are required on all exposed vertical surfaces above floor level. Interior should be superior in quality and aesthetically pleasing. The colour shall not fade/discolour with time or due to rubbing. The firm shall prepare detail plan during design and seek approval. The panels shall preferably be gel coated to avoid any discolouration. Hand laying process shall not be acceptable unless inevitable due to shape, etc. Contractor shall submit detail plan for approval. Details shall be discussed during design. Alternatively, powder coated Aluminium internal panels of suitable thickness adequately stiffened with superior finish can be considered after prior approval from yard & ship owner.

Flooring shall be raised locally to the level of sill height or suitable provision shall be provided for a seamless entry for wheel chairs without barrier. Suitable ramps to be provided from deck.

As far as possible, fastening devices, hinges, fixings and securing screws shall not be visible from within the cabin.

Gaps between all interior lining, panels kick strips, seat shell, etc may be sealed suitably. The effects of thermal expansion shall be taken into account. Suitable cushioning at panel joints shall be provided to suppress noise.

A dedicated space shall be provided near to entry/exit doors to accommodate 2 nos. wheel chairs, complete with its occupant. Detailed proposals, including the need for a doorway ramp shall be

submitted. Call button to be provided near the wheel chair accommodating area for warning for prolonged stay/ assistance as required.

The firm shall provide all interior and exterior signage required by yard for approval. All interior/ exterior stickers/signage strips/logo, etc. used in any location shall conform to international norms. The safety related signage shall be fluorescent. The signage used for marking wheel chair shall be placed on floor as per the standard signage.

WINDOWS

Cabin windows shall be provided and be flush mounted with exterior of superstructure.

Window units shall be modular units and shall be replaceable with minimum disturbance to superstructure.

Large window openings are preferred to permit standing passengers a wider view. The size of the windows shall be subject to review by the owner. Side windows shall be single piece in terms of visual perspective.

All side windows shall transmit less than 10% of the incident ultra violet radiation. All windows shall transmit at least 50% to 55% of incident visible light.

Window seals shall be designed to prevent ingress of water to the inside of walls. Use of rubber extrusions is preferred to make the mounting water tight. The sealing material shall be selected that it lasts at least for the interval between major overhauls of vessel.

High quality light weight equivalent are preferred for the windows glasses like Perspex glass/ Plexiglas.

Electrical (24V) Window screen wipers with necessary control panel in wheelhouse shall be fitted on all windows with synchronized switch panel on the operator's console. Please note that there is no fresh water system in the vessel. Water if required for the operation of the wipers shall be made available in built tank together with the wiper unit.

CABIN DOORS

For entry/exit, wide electrically operated-sliding bi-parting doors with glass panels on upper half shall be provided, on the aft end of passenger cabin. Passenger access Doors shall be remotely controlled from wheel house and in case of an emergency, be controllable locally. The door opening and closing shall be integrated with passenger announcement system and ABLs. The door to be operated remotely from wheel house, the interface to passenger announcement system and ABLs shall be triggering a safety announcement. Provision for wheel chair movement across sill to be provided. Standard width shall not be less than 1350 mm

Two no. doors shall be provided on port and starboard sides of wheelhouse. One no door shall be provided from passenger cabin for crew access to bow part of vessel as indicated in General Arrangement .Wheel house doors shall be fitted with glass window for better visibility

SEATS

Seating arrangement to be provided on either side of boat with alternate rows sitting face to face for ease of commuter movement. Seating to be provided for 50 passengers. Two spaces for wheel chair to be arranged near to the door with suitable SS hand rail/grab and securing arrangement. This area

could have folding seats for passengers, when there is no passenger on wheel chair. A curtain arrangement shall be provided in the area to use it for breast feeding.

The seats shall be designed to ensure they are comfortable with lumber support & aesthetically pleasing, easily cleanable, repairable and changeable and will not adversely affected by normal cleaning agents. Durable, lightweight, fire-resistant and vandalism proof mountings shall be capable of withstanding the loads arising in service conditions.

Sitting surface may be FRP or ABS plastic of high quality finish and endurance.

The colour scheme and design shall be selected by the owner during design.

Seats shall be tested against load test and indentation test as per ISO 2439. The indentation hardness shall be similar to industry standards. The indentation hardness and depth shall be measured first be tested initially and then at 80000 cycle intervals.

Unpainted seats shall be used. A very high order gloss level shall be achieved and permitted gloss level shall not be less than 80 measured as per relevant standards. The seats shall be subjected to endurance tests up to 300,000 cycles. The seat/ its base shall be provided with suitable arrangement to easily lift it for maintenance purpose.

MULTIPURPOSE USE OF CABIN -CONFERENCE ROOM

Arrangement in the passenger cabin shall be such that it can be easily converted to a conference room with minimum effort.

Seats are to be arranged on suitable channels or otherwise to enable shifting for a conference arrangement with minimum effort. Suitable portable table arrangement to be provided in the centre row either athwart ship or longitudinally, which can be stowed suitably without being prominent as an additional structure inside.

Arrangement for a projector/ or display, as suitable to be provided. However, Projector or additional displays shall not be under the firm's scope.

GRAB POLES AND RAILS

Stainless steel grab poles and rails shall be provided in the standing areas of the cabin for the comfort and safety of standing passengers. The grab rails and poles shall be so secured as to securely last for vessel lifetime.

Grab poles shall have not less than three vertical arms (to be finalized with ship owner) for increased accessibility, however, space between the vertical arms shall be limited to ensure that no entrapment of any part of the body is possible.

Sufficient margin shall be available in the top guide so as to ensure that under extreme loading conditions, the grab poles shall not become free.

Stainless steel grab handles with five handles per meter of grab rail shall be provided. Additional stainless steel grab rails shall also be provided at the entrance of each door and also near gang way as decided by the Owner.

Grab rails in cabin area shall be brush finished.

Grab handles shall be subjected to "pull off test" to measure the maximum load they can withstand. A minimum load of 2500N shall be achieved. The fully assembled grab handle shall be subjected to an endurance test.

Stainless steel Railings with mirror polish are to be provided in the forward and aft of main deck

LUGGAGE SPACE AND STORE

A centrally located dedicated luggage space shall be provided inside the cabins for passengers. May be arranged between central row of seats on both sides Rack made of SS pipes shall be provided above the seat level for stowage of luggage. A suitable pantry table cum luggage space shall be provided outside the cabin for use of cargo parcels and use as pantry when vessel is used for alternate purposes.

Two nos. of suitably sized DG room shall be provided outside the cabin on aft of accommodation. Mounting of electric panels, steel pipe supports, ventilation ducts to FRP structure shall be considered as per CSL requirements. Radiator for the DG sets shall be mounted on the FRP roof top of DG room. Suitable cut opening/stiffening arrangements shall be incorporated for the same in the superstructure.

Reasonable area aft of accommodation to be arranged as a deck space for use as a tourist deck as shown in GA.

Life jackets for passengers shall be arranged below each seat & on a separate box on main deck aft s shown in GA with suitable signage.

Provision shall be provided for vanity bag hooks and bottle racks.

ENTERTAINMENT AND PASSENGER AMENITIES

4 Nos TV displays to be provided forward and aft for safety displays entertainment/ advertisement. To be conveniently positioned for all the passengers to view comfortably. Minimum size of display shall be above 32 inches.

USB charging ports shall be provided in the cabin for passenger usage common for each double rows. Cabin should also have two nos. each 16A & 6A (fore and aft) socket 8 Nos of 24 V DC sockets for bilge pump with with suitable protection and secured from passenger access to be used for cabin cleaning machines, etc. At least one set in wheel house to be provided additionally. Suitable sockets to be provided on pantry space.

FLOOR

Inside the cabin shall be arranged with a raised flooring to be even grade with the sill height or otherwise through a suitable arrangement to enable barrier free access for the wheel chairs, without compromising on the aesthetics/ convenience of passengers. The arrangement shall meet class requirement. Suitable Deck coverings shall be provided for ease of maintenance, ease of maintaining cleanliness levels. The decks shall be smooth and fair when deck coverings are applied.

Sticking strips of 150mm depth with radiused coving are required on all exposed vertical surfaces above floor level.

The selection of deck covering materials and colours shall take into account the durability, cleanability, and maintainability of such materials. The materials and colours proposed by the Firm shall account for the fact that many areas of the Vessel will be subject to heavy foot traffic. Materials shall be selected based on their ability to hide such heavy use, yet the materials must present a pleasing appearance and contribute to the overall decor. Another factor that shall be considered in

the selection and installation methods of these materials is the ease of future replacement as the deck coverings wear out over time. Firm shall submit the details of flooring material for owner approval.

Channels or other fittings used for the movement of chairs/ fixing of tables, if any should not hinder the passenger movement in any way and should be at grade with the flooring. Any such fittings shall be easily cleanable.

Firm shall propose suitable cleaning machines and liquid (with suitable local equivalent) and demonstrate the cleaning procedure to the satisfaction of Owner and without any damage to flooring on long term basis. The cleaning machines shall be easily accessible to clean floors below seats. The flooring shall have high abrasion resistance as per ISO-4649 and shall be compliant with relevant EN/ISO standards.

Flooring similar to Kochi Metro trains shall be provided. Deck covering compound shall be of light weight

WHEELHOUSE

The wheelhouse shall be located ahead of the passenger space. The wheel house shall be provided with shades and wiper for all windows. FRP panels for fitment of Wheelhouse Control panel to be designed/shaped aesthetically in such a way that the displays on the controls are clearly visible to the operator/crew, with designed sun shields to protect the displays from exposure to direct sunlight/glare.

Within the constraints of the air draft sufficient navigation visibility shall be provided from the Wheelhouse. All start/stop functions for equipment shall be remote controlled. The controls for entry/exit doors shall be provided at wheelhouse.

Wheelhouse shall be air conditioned. Three numbers of chair (one captain chair, two executive chair), two number table, two number shelves,, bag hooks, bottle racks shall be provided. Wheelhouse shall be provided with large glass window. Glass thickness and type are to be as per DNV&IRS rules.

ELECTRICAL AND LIGHT FITTINGS

- a) The electrical light fittings (LED lights for accommodation area and flood lights (4 Nos.) for external deck, emergency lights 24 V DC), switches (double pole type) and sockets in the FRP area are in the Firm's scope. These shall be of marine type and should have necessary electrical standard markings (ISI or equivalent).
- b) The electrical cables for outfitting in the passenger area, wheel house, pantry and exposed areas in FRP superstructure are under Firm's scope. Separate cable routes shall be provided for high voltage , low voltage and control cables.
- c) In addition to the points (a) and (b) the complete wiring materials required for routing the cables (cable ties, conduits etc.) penetrations (both internal and external), filling compound for external penetrations for making it water tight, terminating the cables (cable lugs, sleeves etc.) and the fixing accessories for outfitting the items on the FRP super structure shall be included in the scope of supply. Termination of cables using cable lugs, sleeves etc are limited to the electrical equipments included in the scope of supply of the FRP supplier.
- d) All the light fixtures in the passenger cabin shall be LED flush type arranged aesthetically ensuring maximum comfort to the passengers. The passenger cabin shall have illumination level between 150 lux to 200 lux. All the light fixtures installed in the vessel to be pre-

- approved by the owner. The vendor shall supply the light fittings in the FRP region of required ratings (wattage, voltage, quantity etc.) to meet this lux level.
- e) There shall be normal lighting (from 230V AC) and em'cy lights from 24V DC in FRP area. The detailed specification to be provided.
 - f) Provision for earthing of electrical equipment mounted on the FRP bulkhead, wheelhouse console, wheelhouse top etc. shall be provided as required. Proposal for earthing system shall be clearly mentioned.
 - g) FRP mast as per yard drawing shall be provided on the wheelhouse top for fixing navigation lights (Navigational lights will be yard supply).
 - h) Necessary mounting seats/ arrangements has to be provided for the following yard supplied equipments as per the finalized arrangement drawings issued. Cable routing and cable penetrations for the same shall be under the Firm's scope of supply. Weight and other mounting details of the equipment shall be forwarded during detailed engineering stage.
 - 1) RADAR
 - 2) Remote controllable Searchlight
 - 3) VHF antenna
 - 4) Electrical horn supplied by yard.
 - 5) PORT and STBD side navigation lights.
 - 6) CCTV cameras and Thermal Camera.
 - 7) Fire detection sensors and Manual call points.
 - 8) DC battery charging outlets on PORT and STBD side.
 - i) The Firm's scope shall include Pipe with gooseneck arrangement of suitable material on wheelhouse top or other means for routing the cable to the navigation mast and other equipments provided on the FRP super structure.
 - j) Yard will provide the power Distribution boards for distributing power to lighting, sockets etc. Suitable provision to be provided for mounting the Yard supplied Distribution boards and panels. The firm's scope shall also include cable routing materials to the control panels, distribution boards, navigation & communication units etc. fitted inside the FRP superstructure.
 - k) The vendor shall route the cables to the designated fittings/ equipment on & inside super structure.
 - l) The Yard shall procure all the fire & alarm detectors and the main panel. The firm shall do the required installation work pertaining to the FRP area (installation of equipment, cable laying,
 - m) The Wheel house shall be provided with control Console suitable for fixing display units of BMS, PMS, CCTV and other navigation and communication equipment, switches for lights in the ship, window wiper control panel etc. All the control units except the window wipers control panel shall be provided by Yard. The detailed dimensional drawing will be provided after placing of order. Firm to provide necessary cutouts and mount the panels (all panels in the scope of supply and panels supplied by Yard/ owner) in the console. Cable termination works of Yard supplied equipments is beyond the scope of this package.
 - n) Necessary provision for accessing the cable ways for future maintenance, installation of additional cables etc. to be provided.
 - o) Necessary fitting seat for Owner supplied equipments shall be incorporated in the FRP structure. Details of the equipment shall be forwarded during detailed engineering stage.
 - p) No cables shall be laid exposed inside the accommodation area.

q) Necessary cable routes with inspection hatches are to be provided on the wheelhouse floor.

AIR CONDITIONING

Firm has to perform the heat load calculation for the AC system for passenger cabins & Wheel house. AC system to be controlled from wheel house with suitable display of parameters.

Air conditioning to be provided in wheel house & passenger room on main deck. Commercial type inverter ac (Roof top type) to be provided. (The capacity for these AC units shall be suitably selected. The number of AC units to be considered are 1 number exclusively for wheel house (if required), 2 numbers units catering passenger room on main deck. Securing arrangement for AC outdoor unit on top of the super structure to be provided. The superstructure roof shall be strengthened for installation of the roof top AC units. Roof top AC units shall be suitably positioned ensuring easy access/removal of the units for maintenance purpose.

The units shall be installed without obstructing passages and adequate care shall be taken for ease of maintenance. AC units shall be arranged aesthetically in the passenger cabin. The system shall use refrigerant of low global warming potential i.e. (R404A). Heat insulation to be considered if required. Temperature inside passenger space & wheel house shall be 24°C during normal operation.

Ducts and Panels for AC system shall be provided by FRP manufacturer as part of the Super structure

Grooves to be provided on exterior area similar to ones found in cars for drainage of rainwater & AC drains. Supplier to incorporate the details in the super structure drawings.

DC Electrical voltage in the range of 650-750V shall be considered for AC units.

MISCELLANEOUS

- a. Hooks/ brackets for supporting life bouys etc. to be provided on superstructure. Locations will be finalized during the drawing approval stage.
- b. Suitable FRP/aluminium rungs or ladders with hand grips shall be installed on superstructure for accessing the top deck.
- c. Ducts for ventilation fan with louvers and guide plate to be provided as shown in GA plan on both port and starboard side for supplying air to the below rooms. Aluminium/ FRP louver shall be provided with suitable Aluminium/ FRP weather tight closing appliance. Removal panel for maintenance of ventilation fans to be provided in superstructure. Ventilation fan and its installation in yard scope. Suitable marine insulation to be provided inside the ventilation trunk.
- d. Grooves to be provided on superstructure exterior area similar to ones found in cars for drainage of rainwater. Details of the same shall be included in the offer by the supplier.
- e. Pipe with gooseneck arrangement of suitable material on wheelhouse top for routing the cable to the mast and other equipment on wheel house top to be provided. Approx size for goose neck for pipe mast is 80NB, goose neck size for search light, VHF antenna, and radar shall be 25NB each.
- f. Provision for holding the rope for navigation shapes.

- g. The electrical fittings/accessories used shall be of good quality and should have necessary electrical standard markings (ISI or equivalent).
- a. The electrical light fittings has been considered to be flush mount type with a clearance of 80-100 mm between the FRP structure and the ceiling/wall panel. The finalized clearance details of the light fittings will be informed after placement of order.
- b. The distribution boards and other bigger panels shall be provided with suitable provision for mounting. Also, if required as per the area of installation, these panels may be recessed into the FRP bulkheads. The dimensions & mounting details & exact locations will be provided after placement of order.
- c. In addition to the materials required for cable routing to General lights, switches & sockets, exhaust fans, window wiper, pipe mast and equipment on top of superstructure (Navigation lights, Side lights, VHF antenna, Search light, radar) the supplier's scope shall include the cable routing materials to the control panels, distribution boards, nav com units etc. fitted inside the FRP superstructure. The cables are in Yard scope, all other accessories for cable installation are in firm's scope.
- d. For the cable entry from Engine Room, suitable opening shall be provided by the supplier in wheelhouse floor for taking cables to the DBs and inverter.
- e. Detailed wiring diagram will be provided by Yard after order/during execution.
- f. The weight of items are restricted to provide better stability to the vessel. The details of items offered by the firm (No. of units, Dimensions, Max weight etc.), shall be provided against each item shall be submitted to yard along with the offer.
- g. Name plates for doors/ compartment/ valves and other fittings in superstructure, as necessary, are to be provided by supplier.

SCOPE

BROAD SCOPE MATRIX

The following table gives the broad scope of work. It may be noted the below list of scope is not exhaustive.

Sl.No	Item	Vendor Scope	Yard(CSL) Scope
1.	Design and supply of FRP Superstructure	✓	
2.	Fittings/ items as required as per the scope mentioned in Annexure 1 of this specification	✓	
3.	Preparation of FRP structural plan for submission to Class (IRS & DNV) based on IRS and DNV Class rules. <i>[The plan shall also include details of connection of FRP with the Aluminium deck. The plan is to be provided to the yard for obtaining Class approval. The Class comments, if any, needs to be incorporated prior to construction.]</i>	✓	
4.	Roof-top Air conditioning units for passenger cabins & wheel house.	✓	
5.	The FRP structure shall be designed for fitment of Roof-top Air conditioning unit. The details of the same shall be made available to the vendor by the yard.	✓	
6.	Ducts/louvers in the superstructure	✓	
7.	3D modelled interior rendering, incorporating the entire FRP structure and the accommodation fittings <i>[Drawings/details of yard scope of supply shall be made available to the vendor for incorporating in the model.]</i>	✓	
8.	Power DBs for distributing power to lighting, sockets etc.		✓
9.	Foundation for Power DBs, Navigation and communication equipment to be provided in the structure based on the inputs provided by the yard.	✓	
10.	Supply of switches (as necessary) for light fitting in FRP area	✓	
11.	a) Entertainment Display (min 32")-4Nos b) Public address loud speakers c) Passenger alarm	✓	

12.	Fire & alarm detectors and the main panel		✓
13.	Electrical Wiring and termination of the equipment on the FRP cabin, supply of cables & all accessories	✓	
14.	List of items that form part of the scope of supply, along with the item-wise weight data. <i>[Each item that form part of the scope of supply will be weighed at site before acceptance]</i>	✓	
15.	Transportation of FRP superstructure to yard and installation/ integration of FRP superstructure	✓	
16.	Design and construction of mast	✓	
17.	Provision for fitment of collapsible mast/ radar / thermal camera based on Yard inputs	✓	
18.	LSA & FFA items coming inside the superstructure	✓	

NOTES

The vendor shall take care of the following points:

1. The doors leading to superstructure exteriors shall be prevent water ingress.
2. Yard/ Owner supplied outfitting items which are to be fitted inside and outside the FRP structure shall be installed at the Yard by the firm
3. Moulds shall be retained for 10 years so that any of the specific parts/ panels shall be provided to the client upon request.
4. The details of the styling curves/ surfaces and the colour schemes shall be made available to the firm post receipt of the same by the yard. The firm shall incorporate these aesthetic to the FRP superstructure.

PRELIMINARY LIST OF ITEMS UNDER SCOPE OF SUPPLY**100PAX CATAMARAN FERRY - GUIDANCE LIST* OF SUPPLY**

SL NO	DESCRIPTION	QUANTITY PER VESSEL	REMARKS.
1	FRP SUPER STRUCTURE	1 SET	
2	INTERIOR WALL PANEL	1 SET	
3	INTERIOR CEILING PANEL	1 SET	
4	INSULATION IN SUPER STRUCTURE	1 SET	
5	GRAB RAILS	1 SET	
6	GRAB POLES	1 SET	
7	HAND HOLDS	1 SET	
8	HAND HOLDS - GRIPS	1 SET	
9	LED LIGHTS	1 SET	REQUIRED NECESSARY ILLUMINATION IN CABINS (preferred lighting arrangement similar to that in kochi metro)
10	EMERGENCY LIGHTS 24VDC	1 SET	
11	FLOOD LIGHTS	4NOS	
12	PASSENGER ADDRESS LOUDSPEAKERS	1 SET	
13	FRP SEATS	50 NOS	
14	HAND RAIL FOR WHEEL CHAIRS	2 NOS	
15	DOORWAY RAMP IN WAY OF AFT DOOR FOR WHEEL CHAIRS	1 NO	
16	CALL BUTTON AND ALARM UNIT FOR WHEEL CHAIRS	2 NOS	
17	SEAT INSERTS	1 SET	
18	SEAT FRAMES	1 SET	
19	CABIN WINDOWS	1 SET	
20	WHEEL HOUSE WINDOWS	5 NOS	
21	RUBBER SEALING	1 SET	
22	ADHESIVE	AS REQUIRED	
23	LUGGAGE RACK	2 SETS	
24	CURTAIN ARRANGEMENT FOR BREAST FEEDING	1 SET	
25	DISPLAYS - ENTERTAINMENTS - LED TV 32"	4 NOS	
26	USB MOBILE CHARGING PORT	Approx 12Nos	
27	AC DIFFUSER	1 SET	
28	KICK STRIPS	1 SET	

29	GRAB HANDLES	1 SET	
30	WINDOW WIPERS WITH CONTROL PANEL - 5 WINDOWS	1 SET	
31	WEATHER TIGHT DOOR - DG ROOM (PORT)	1 SET	
32	WEATHER TIGHT DOOR - DG ROOM (STBD)	1 SET	
33	WEATHER TIGHT DOOR - WHEEL HOUSE (PORT)	1 SET	
34	WEATHER TIGHT DOOR - WHEEL HOUSE (STBD)	1 SET	
35	WEATHER TIGHT DOOR - PASSENGER SPACE (PORT)	1 SET	
36	WEATHER TIGHT DOOR - PASSENGER SPACE (AFT)_SLIDING TYPE WITH LOCAL AND REMOTE CONTROL PANEL	1 SET	
37	FRP EMERGENCY DOOR - BULWARK (PORT)		
38	FRP EMERGENCY DOOR - BULWARK (STBD)		
39	DOOR LOCKS	1 SET	
40	DOOR HANDLES	1 SET	
41	VINLY FLOOR COVERING + DECK COMPOUND	1 SET	
42	CLEANING MACHINE FOR VINYL FLOORING	1 SET	
43	CLEANING LIQUID	1 SET	
44	CABLING AND CONNECTORS	1 SET	
45	ROOF TOP TYPE AIR CONDITIONING UNITS	3 SET	
46	MOUNTING BRACKETS FOR ANTENNA AND EXTERIOR LIGHTS	1SET	
47	PROJECTOR INTERFACE IN CONFERENCE AREA	1 SET	
48	LIFE JACKETS (APPROVED TYPE)	110 NOS	
49	INFANT LIFE JACKET (APPROVED TYPE)	5 NOS	
50	SIGNAGES	1 SET	
51	VANITY BAG HOOK	104 NOS	
52	BOTTLE RACKS	104 NOS	
53	ELECTRICAL SOCKET - 16A	1 SET	
54	ELECTRICAL SOCKET - 6A	1 SET	
55	SWITCHES FOR LIGHTS	1 SET	
56	24V DC SOCKETS FOR CONNECTING PORTABLE BILGE PUMPS	8NOS	THERE SHALL BE SECURED ARRANGEMENT (CONCEALED TYPE) SO THAT PASSENGERS WILL NOT ACCESS THESE SOCKETS
57	FRP MAST FOR NAVIGATION LIGHTS	1SET	
58	FRP LOUVER WITH CLOSING DEVICE- 500 X 400 MM	4 NOS	
59	PORABLE TABLE ARRANGEMENT INSIDE CABIN	1 SET	

60	PANTRY TABLE	1 NO	
61	PANTRY CHAIRS	4 NOS	
62	TABLE WITH RACK INSIDE PANTRY AREA	1 SET	
63	WALL MOUNTED SHELVES INSIDE PANTRY AREA	1 SET	
64	CAPTAINS CHAIR INSIDE W/H	1 NO	
65	EXECUTIVE CHAIR INSIDE W/H	2 NOS	
66	TABLE WITH RACK INSIDE W/H	2 NOS	
67	WALL MOUNTED SHELVES INSIDE W/H	2 NOS	
68	STAINLESS STEEL HAND RAIL IN FWD & AFT MAIN DECK	1 SET	
69	STAINLESS STEEL STORM RAIL OUTSIDE SUPERSTRUCTURE	1 SET	
70	HOOKS/BRACKETS FOR LIFE BUOYS IN SUPER STRUCTURE	1 SET	
71	FRP/ALUMINIUM RUNGS/LADDERS FOR ACCESSING TOP OF SUPER STR.	1 SET	
72	WHEEL HOUSE CONSOLE IN FRP	1 SET	ALL CONSOLE EQUIPMENTS (EQUIPMENTS INCLUDED IN THE SCOPE OF FRP SUPPLIER, YARD/ OWNER SUPPLIED EQUIPMENTS) HAVE TO BE INSTALLED BY THE FRP SUPPLIER.
73	CABLES IF REQUIRED	1 SET	
74	CABLE PENETRATION ON FRP & FILLING	1 SET	
75	CABLE TERMINATIONS FOR EQUIPMENTS SUPPLIED BY THE FRP ACCOMMODATION VENDOR	1 SET	ALL REQUIRED CABLE LUGS, SLEEVES, TERMINAL STRIPS ETC TO BE SUPPLIED BY THE VENDOR
76	CABLE TIES FOR SECURING OF CABLES IN FRP STRUCTURE	1 SET	
77	CABLE ROUTES (SEPARATE FOR HIGH VOLATGE, LOW VOLTAGE AND CONTROL), CHANNELS, ACCESS ARRANGEENT FOR CABLE ROUTING, EARTHING FOR ELECTRICAL EQUIPMENTS	1 SET	
78	FITTING SEATS FOR PORT AND STBD SIDE NAVIGATION LIGHTS	1 SET	YARD WILL SUPPLY THE

			ITEMS, FITMENT TO BE DONE IN FRP
79	FITTING SEAT FOR ELECTRIC HORN	1 SET	YARD WILL SUPPLY THE ITEMS, FITMENT TO BE DONE IN FRP
80	FITTING SEATS FOR YARD/ OWNER SUPPLIED ELECTRICAL PANELS ON FRP BULKHEAD (DETAILS WILL BE FORWARDED DURING DETAILED ENGINEERING)	1 SET	YARD/OWNER WILL SUPPLY THE ITEMS, FITMENT TO BE DONE IN FRP
81	FITTING SEAT FOR CCTV CAMERAS	1 SET	YARD WILL SUPPLY THE ITEMS, FITMENT TO BE DONE IN FRP
82	FIRING ARRANGEMENTS FOR FIRE DETECTION EQUIPMENTS	1 SET	YARD WILL SUPPLY THE ITEMS, FITMENT TO BE DONE IN FRP
83	FITTING SEAT FOR RADAR MAST.	1 SET	YARD WILL SUPPLY THE ITEMS, FITMENT TO BE DONE IN FRP
84	FITTING SEAT FOR REMOTE CONTROLLABLE SEARCH LIGHT	1 SET	YARD WILL SUPPLY THE ITEMS, FITMENT TO BE DONE IN FRP
85	FITTING ARRANGEMENT FOR DC BATTERY CHARGING OUTLETS ON PORT & STBD SIDE	1 SET	YARD WILL SUPPLY THE ITEMS, FITMENT TO BE DONE IN FRP
86	FIRE FIGHTING ITEMS COMING INSIDE SUPERSTRUCTURE	1 SET	
<p>* THIS LIST IS ONLY FOR GUIDANCE PURPOSE. SUPPLIERS MAY ADD ADDITIONAL ITEMS/QUANTITY INCLUDED IN THEIR SCOPE OF SUPPLY FOR CORRECT ESTIMATION OF THE WEIGHT.</p>			

FORMAT FOR FINANCIAL CAPABILITY

SI No.	Last three Financial Year	Annual Turnover	Net worth as at the end of the financial year
1			
2			
3			

To be signed by the Authorized Signatory of the Applicant with Name, Designation, seal and date.

Certificate from the Statutory Auditors:

This is to certify that _____ (name of the Applicant) has received the payments shown above against the respective years and that the net worth is as computed.

Name of the Authorized Signatory representing Auditing firm:

Designation:

Name of firm (Statutory Auditor):

Signature of the Authorized Signatory:

APPLICATION FOR QUALIFICATION

Letter of Proposal / Bid-Covering Letter
(On Applicant's Letter Head)

(Date and Reference)

To

General Manager (Design)
Cochin Shipyard Limited
Perumanoor PO
Kochi - 682015

Dear Sir,

Sub: Expression of Interest for Design, Manufacture, Supply, installation and commissioning FRP Super Structure & Outfitting for 100PAX CATAMARAN being built at Cochin Shipyard Ltd.

With reference to your Request for EOI referred above, We, (name of the applicant) having examined all relevant documents and understood their contents, hereby submit our Proposal for the short listing of FRP manufacturers and state that:

1. All information provided in the Proposal and in the Appendices is true and correct.
2. We shall make available to CSL any additional information it may find necessary or require to supplement or authenticate the Proposal.
3. We are not under a declaration of ineligibility issued by Govt. of India / State govt. / Public Sector Undertakings.
4. We have not applied for Corporate Debt Restructuring (CDR) in the last three financial years and till the time of submission of the EOI.
5. We agree and undertake to abide by all the terms and conditions of the Request for EOI Document.

Thanking you,
Yours faithfully,

(Signature of the Authorized Representative)
(Name and designation of the Authorized Representative)
(Name of the Applicant)

FORMAT OF POWER OF ATTORNEY

Mr. / Mrs. /Ms. _____ (Name of the Person(s), domiciled at acting as _____(Designation and name of the company), and whose signature is attested below, is hereby appointed as the Authorized Representative and authorized on behalf of _____ (Name of the company) to provide information and respond to enquiries etc. as may be required by the Employer for the project of _____ (Project title) and is hereby further authorized to sign and file relevant documents in respect of the above.

(Attested signature of Mr. _____)

For _____
(Name & designation)

Note:-

1) *Person or persons signing the tender shall state in what capacity he/she or they is/are signing the tender, eg., as Sole Proprietor of the Firm concerned or as Managing Director or Director or Secretary or Manager of a Limited Company. In the case of partnership firm, the names of all the partners should be recorded and the tender shall be signed by all the partners or their duly constituted attorney, having authority to bind all the partners in all matters pertaining to the contract as accorded in the deed of Power of Attorney or in the partnership deed. In such a case, a registered copy of the "Partnership Deed" should be furnished along with the tender. It shall be obligatory on the part of every partner of the firm, which enters into agreement, to fulfill the conditions of agreement during the currency thereof, notwithstanding the dissolution of the partnership in the meantime. In the case of a Limited Company, the tender shall be signed by a person mentioned supra empowered to do so by the company. A copy of the Memorandum of Association and Articles of Association of the Company and the letter empowering the person mentioned supra shall be attached to the tender.*

2) *The person signing the tender form on behalf of another or on behalf of a firm, shall enclose to the tender, a Power of Attorney or the said deed duly executed in his favour or the partnership deed giving him such power showing that, he has the authority to bind such other persons or the firm, as the case may be, in all matters pertaining to the contracts. If the Person so signing the tender, fails to enclose the said Power of Attorney, his tender shall be liable for being summarily rejected. The Power of Attorney shall be signed by all partners in the case of partnership concern, by the Proprietor in the case of a proprietary concern, and by the person who by his signature can bind the company in the case of a Limited Company.*

SOLVENCY CERTIFICATE

Certified that to the best of our knowledge and information (Insert name of applicant)....., a customer of our bank is respectable and can be treated as capable for executing the work up to a limit of Rs.(Rs.....).

It is clarified that this certificate is issued without any guarantee or responsibility on the bank or any of the officers.

Signature

Manager,

Bank

Note: This certificate may be issued on the letter head of the bank and addressed to the General Manager (Design), Cochin Shipyard Ltd

STRUCTURE AND ORGANIZATION

1. Name of Applicant :

Address :

Phone :

Fax :

Email :

Contact details of designated representative :

Registered office

Address :

2. Description of company detailing various activities dealt by the firm:

3. Legal status:

4. Date of establishment:

5. Number of years' experience:

6. Please indicate here or attach an organization chart showing the company structure including the positions of directors and key personnel, if relevant

(Signature of the Authorized Representative)

(Name and designation of the Authorized Representative)

(Name of the Applicant)

Seal of the company

Note: **Applicant to attach Certificate of Incorporation (notary vetted)**

PRE CONTRACT INTEGRITY PACT

General

This pre-bid pre-contract Agreement (hereinafter called the Integrity Pact) is made onday of the month of , between, on one hand, the President of India acting through General Manager, Cochin Shipyard Ltd (CSL) having its registered office at Cochin, Kerala India (hereinafter called the "PRINCIPAL", which expression shall mean and include, unless the context otherwise requires, his successors in office and assigns) of the First part and M/s.....represented by Shri....., Chief Executive Officer (hereinafter called the "BIDDER/Seller" which expression shall mean and include, unless the context otherwise requires, his successors and permitted assigns) of the second part.

WHEREAS the PRINCIPAL proposes to procure and the BIDDER/Seller is willing to offer/has offered the stores and

WHEREAS the BIDDER is a private company / public company / Government undertaking / partnership / registered export agency, constituted in accordance with the relevant law in the matter and the PRINCIPAL is a Government of India PSU performing its functions on behalf of The President of India.

NOW, THEREFORE,

To avoid all forms of corruption by following a system that is fair, transparent and free from any influence/prejudiced dealings prior to, during and subsequent to the currency of the contract to be entered into with a view to:-

Enabling the PRINCIPAL to obtain the desired said stores/equipment/item at a competition price inconformity with the defined specifications by avoiding the high cost and the distortionary impact of corruption on public procurement, and

Enabling BIDDERS to abstain from bribing or indulging in any corrupt practice in order to secure the contract by providing assurance to them that their competitors will also abstain from bribing and other corrupt practices and the PRINCIPAL will commit to prevent corruption, in any form, by its officials by following transparent procedures.

The parties hereto hereby agree to enter into this Integrity Pact and agree as follows:-

Commitments of the PRINCIPAL

- 1.1 The PRINCIPAL undertakes that no official of the PRINCIPAL, connected directly or indirectly with the contract, will demand, take a promise for or accept, directly or through intermediaries, any bribe, consideration, gift, reward, favour or any material or immaterial benefit or any other advantage from the BIDDER, either for themselves or for any person, organization or third party related to the contract in exchange for an advantage in the bidding process, bid evaluation, contracting on implementation process related to the contract.

- 1.2 The PRINCIPAL will, during the pre-contract stage, treat all BIDDERS alike and will provide to all BIDDERS the same information and will not provide any such information to any particular BIDDER which could afford an advantage to that particular BIDDER in comparison to other BIDDERS.
 - 1.3 The officials of the PRINCIPAL will report to the appropriate Government office any attempted or completed breaches of the above commitments as well as any substantial suspicion of such a breach.
- 2 In case any such preceding misconduct on the part of such official(s) is reported by the BIDDER to the PRINCIPAL with full and verifiable facts and the same is prima facie found to be correct by the PRINCIPAL, necessary disciplinary proceedings, or any other action as deemed fit, including criminal proceedings may be initiated by the PRINCIPAL and such a person shall be debarred from further dealings related to the contract process. In such a case while an enquiry is being conducted by the PRINCIPAL the proceedings under the contract would not be stalled.

Commitments of BIDDERS

3. The BIDDER commits itself to take all measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of its bid or during any pre-contract or post-contract stage in order to secure the contract or in furtherance to secure it and in particular commit itself to the following:-
- 3.1 The BIDDER will not offer, directly or through intermediaries, any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the PRINCIPAL, connected directly or indirectly with the bidding process, or to any person, organization or third party related to the contract in exchange for any advantage in the bidding, evaluation, contracting and implementation of the contract.
 - 3.2 The BIDDER further undertakes that it has not given, offered or promised to give, directly or indirectly any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the PRINCIPAL or otherwise in procuring the Contract or forbearing to do or having done any act in relation to the obtaining or execution of the contract of any other contract with the government for showing or forbearing to show favour or disfavor to any person in relation to the contract of any other contract with the Government.
 - 3.3 BIDDERS of foreign origin shall disclose the name and address of their Indian agents and representatives, if any and Indian BIDDERS shall disclose their foreign principals or associates, if any.

- 3.4 BIDDERS shall disclose the payments to be made by them to their Indian agents/brokers or any other intermediary, in connection with this bid / contract and the payments have to be in Indian Rupees only.
- 3.5 The BIDDER further confirms and declares to the PRINCIPAL that the BIDDER is the original manufacturer/ integrator/authorized agent of the stores/equipment/items and has not engaged any individual or firm or company whether Indian or foreign to intercede, facilitate or in any way to recommend to the PRINCIPAL or any of its functionaries, whether officially or unofficially to the award of the contract to the BIDDER, nor has any amount been paid, promised or intended to be paid to any such individual, firm or company in respect of any such intercession, facilitation or recommendation.
- 3.6 The BIDDER, either while presenting the bid or during pre-contract negotiations or before signing the contract, shall disclose any payments he has made, is committed to or intends to make to officials of the PRINCIPAL or their family members, agents, brokers or any other intermediaries in connection with the contract and the details of services agreed upon for such payments.
- 3.7 The BIDDER will not collude with other parties interested in the contract to impair the transparency, fairness and progress of the bidding process, bid evaluation, contracting and implementation of the contract.
- 3.8 The BIDDER will not accept any advantage in exchange for any corrupt practice, unfairmeans and illegal activities.
- 3.9 The BIDDER shall not use improperly, for purposes of competition or personal gain, pass on to others, any information provided by the PRINCIPAL as part of the business relationship, regarding plans, technical proposals and business details, including information contained in any electronic data carrier. The BIDDER also undertakes to exercise due and adequate care lest any such information is divulged.
- 3.10 The BIDDER commits to refrain from giving any complaint directly or through any other manner without supporting it with full and verifiable facts.
- 3.11 The BIDDER shall not instigate or cause to instigate any third person to commit any of the actions mentioned above.
- 3.12 If the BIDDER or any employee of the BIDDER or any person acting on behalf of the BIDDER, either directly or indirectly, is a relative of any of the officers of the PRINCIPAL, or alternatively, if any relative of an officer of the PRINCIPAL has financial interest/stake in the BIDDER's firm, the same shall be disclosed by the BIDDER at the time of filing of tender.

The term 'relative' for this purpose would be as defined in section 6 of the Companies Act 1956.

3.13 The BIDDER shall not lend to or borrow any money from or enter into any monetary dealings or transactions, directly or indirectly, with any employee or the PRINCIPAL.

4. Previous Transgression

4.1 The BIDDER declares that no previous transgression occurred in the last three years immediately before signing of this Integrity Pact, with any other company in any country in respect of any corrupt practices envisaged hereunder or with any Public Sector Enterprise in India or any Government Department in India that could justify; BIDDER's exclusion from the tender process.

4.2 The BIDDER agrees that if it makes incorrect statement on this subject, BIDDER can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.

5. Earnest Money (Security Deposit)

5.1 While submitting commercial bid, the BIDDER shall deposit an amount **NIL** (to be specified in RFP) as Earnest Money as applicable/Security Deposit, with the PRINCIPAL through any of the following instruments:

(i) Draft of Pay Order in favor of CSL.

(ii) A confirmed guarantee by an Indian Nationalized Bank, promising payment of the guaranteed sum to the PRINCIPAL on demand within three working days without any demur whatsoever and without seeking any reasons whatsoever. The demand for payment by the PRINCIPAL shall be treated as conclusive proof of payment.

(iii) Any other mode or through any other instrument (to be specified in the RFP).

5.2 The Earnest Money if applicable/Security Deposit shall be valid upto the complete of the contractual obligations to the complete satisfaction of both the BIDDER and the PRINCIPAL, including warranty period.

5.3 In case of the successful BIDDER a clause would also be incorporated in the Article pertaining to Performance Bond in the Purchase Contract that the provisions of sanctions for Violation shall be applicable for forfeiture of Performance Bond in case of a decision by the PRINCIPAL to forfeit the same without assigning any reason for imposing sanction for violation of this Pact.

5.4 No interest shall be payable by the PRINCIPAL to the BIDDER on Earnest Money/Security Deposit for the period of its currency.

6 Sanctions for Violations

- 6.1 Any breach of the aforesaid provisions by the BIDDER or any one employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER) shall entitle the PRINCIPAL to take all or any one of the following actions, wherever required:-
- (i) To immediately call off the pre contract negotiations without assigning any reason or giving any; compensation to the BIDDER. However, the proceedings with the other BIDDER(s) would continue.
 - (ii) The Earnest Money Deposit (in pre-contract stage) and/or Security Deposit/Performance Bond (after the contract is signed) shall stand forfeited either fully or partially, as decided by the PRINCIPAL and the PRINCIPAL shall not be required to assign any reason therefore.
 - (iii) To immediately cancel the contract, if already signed, without giving any compensation to the BIDDER.
 - (iv) To recover all sums already paid by the PRINCIPAL, and in the case of an Indian BIDDER with interest thereon at 2% above the prevailing Prime Lending Rate of State Bank of India, while in case of a BIDDER from a country other than India with interest thereon at 2% above the LIBOR (London Inter Bank Offer Rate). If any outstanding payment is due to the BIDDER from the PRINCIPAL in connection with any other contract for any other stores, such outstanding payment could also be utilized to recover the aforesaid sum and interest.
 - (v) To encash the advance bank guarantee and performance bond/warranty bond, if furnished by the BIDDER, in order to recover the payments, already made by the PRINCIPAL, along with interest.
 - (vi) To cancel all or any other contracts with the BIDDER. The BIDDER shall be liable to pay compensation for any loss or damage to the PRINCIPAL resulting from such cancellation/recession and the PRINCIPAL shall be entitled to deduct the amount so payable from the money(s) due to the BIDDER.
 - (vii) To debar the BIDDER from participating in the future bidding processes of CSL for a minimum period as deemed appropriate, which any be further extended at the discretion of the PRINCIPAL.
 - (viii) To recover all sums paid in violation of this Pact by BIDDER(s) to any middleman or agent or broker with a view to securing the contract.
 - (ix) In cases where irrevocable Letters of Credit have been received in respect of any contract signed by the PRINCIPAL with the BIDDER, the same shall not be opened.

- (x) Forfeiture of Performance Bond in case of a decision by the PRINCIPAL to forfeit the same without assigning any reason for imposing sanction for violation of this pact.
- 6.2 The PRINCIPAL will be entitled to take all or any of the actions mentioned at para 6.1(i) to (x) of this pact also on the Commission by the BIDDER or any one employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER), of an offence as defined in chapter IX of the Indian Penal code, 1860 or Prevention of Corruption Act, 1988 or any other statute enacted for prevention of corruption.
- 6.3 The decision of the PRINCIPAL to the effect that a breach of the provisions of this pact has been committed by the BIDDER shall be binding on the BIDDER. However, the BIDDER can approach the Independent Monitor(s) appointed for the purposes of this Pact.

7 Fall Clause

- 7.1 The BIDDER undertakes that it has not supplied/is not supplying similar product/systems/items or subsystems at a price lower than that offered in the present bid in respect of any other Ministry/Department of the Government of India or PSU and if it is found at any stage that similar product/systems or sub systems/items was supplied by the BIDDER to any other Ministry/Department of the Government of India or PSU at a lower price, then that very price, with due allowance for elapsed time, will be applicable to the present case and the difference in the cost would be refunded by the BIDDER to the PRINCIPAL, if the contract has already been concluded.

8 Independent Monitors

- 8.1 The PRINCIPAL has appointed Independent Monitor (hereinafter referred to as Monitor) for this Pact in consultation with the Central Vigilance Commission.

Mr. P.K. Vijayakumar, IRS (Retd)
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Mobile: 8547381122
Email: vkmenon78@gmail.com

- 8.2 The task of the Monitors shall be to review independently and objectively, whether and to what extent the parties comply with the obligations under this Pact.
- 8.3 The Monitors shall not be subject to instructions by the representatives of the parties and perform their functions neutrally and independently.
- 8.4 Both the parties accept that the Monitors have the right to access all the documents relating to the project/procurement, including minutes of meetings.

- 8.5 As soon as the Monitor notices, or has reason to believe, a violation of this pact, he will so inform the Authority designated by the PRINCIPAL.
- 8.6 The PRINCIPAL accepts that the Monitor has the right to access without restriction to all Project documentation of the BUYER including that provided by the BIDDER. The BIDDER will also grant the Monitor, upon his request and demonstration of a valid interest, unlimited access to his project documentation. The same is applicable to Subcontractors. The Monitor shall be under contractual obligation to treat the information and documents of the BIDDER/Subcontractor(s) with confidentiality.
- 8.7 The PRINCIPAL will provide to the Monitor sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the parties. The parties will offer to the Monitor the option to participate in such meetings.
- 8.8 The Monitor will submit a written report to the designated Authority of PRINCIPAL/Secretary in the Department/ within 8 to 10 weeks from the date of reference or intimation to him by the PRINCIPAL /BIDDER and, should the occasion arise, submit proposals for correcting problematic situations.

9 Facilitation of Investigation

In case of any allegation of violation of any provisions of this pact or payment of commission, the PRINCIPAL or its agencies shall be entitled to examine all the documents including the Books of Accounts of the BIDDER. The BIDDER shall provide necessary information and documents in English and shall extend all possible help of the purpose of such examination/inspection.

10 Law and Place of Jurisdiction

This Pact is subject to Indian Law. The place of performance and jurisdiction is the seat of the PRINCIPAL.

11 Other Legal Actions

The actions stipulated in this Integrity Pact are without prejudice to any other legal action that may follow in accordance with the provisions of the extent law in force relating to any civil or criminal proceedings.

12 Validity

- 12.1 The validity of this Integrity Pact shall be from date of its signing and extend upto 5years or the complete execution of the contract to the satisfaction of both the PRINCIPAL and the BIDDER/Seller, including warranty period, whichever is later. Incase BIDDER is unsuccessful, this Integrity Pact shall expire after six months from the date of the signing of the contract.

12.2 Should one or several provisions of this Pact turn out to be invalid; the remainder of this pact shall remain valid. In this case, the parties will strive to come to an agreement to their original intentions.

13 The parties hereby sign this Integrity Pact at.....on.....

PRINCIPAL BIDDER

Name of the Officer CHIEF EXECUTIVE OFFICER

Designation

Deptt./MINISTRY/PSU

Witness

Witness

1..... 1.....

2..... 2.....

* Provisions of these clauses would need to be amended /deleted in line with the policy of the BUYER in regard to involvement of Indian agents of foreign suppliers.

EXPERIENCE: RELEVANT PROJECTS COMPLETED

Please fill in information about the relevant projects completed during the last eight years:

Name of company:

Sr No.	Name of Client	Main Technical Particulars	Contract value and date	Year of commissioning	Details of documentary evidence provided
1					
2					
3					
4					
5					

I/ We hereby solemnly certify that the above furnished information is correct and true to the best of my / own knowledge and records available in the company.

Signature of authorized signatory

Name:

Designation:

Date:

(Company seal)

PRESENT ORDER BOOK POSITION

Name of company:

Give information about all ongoing projects in progress, including those where the company has received a letter of intent, but a formal contract has not been awarded.

The below details would not be considered for PQ evaluation. This is for information only

Sr. No	Name of Client	Project & location	Contract value	Scheduled date of completion of work
1				
2				
3				
4				

We hereby solemnly confirm and certify that the above information is true as per audited records of our organization and liable to furnish any additional information if CSL demands

Auditor:

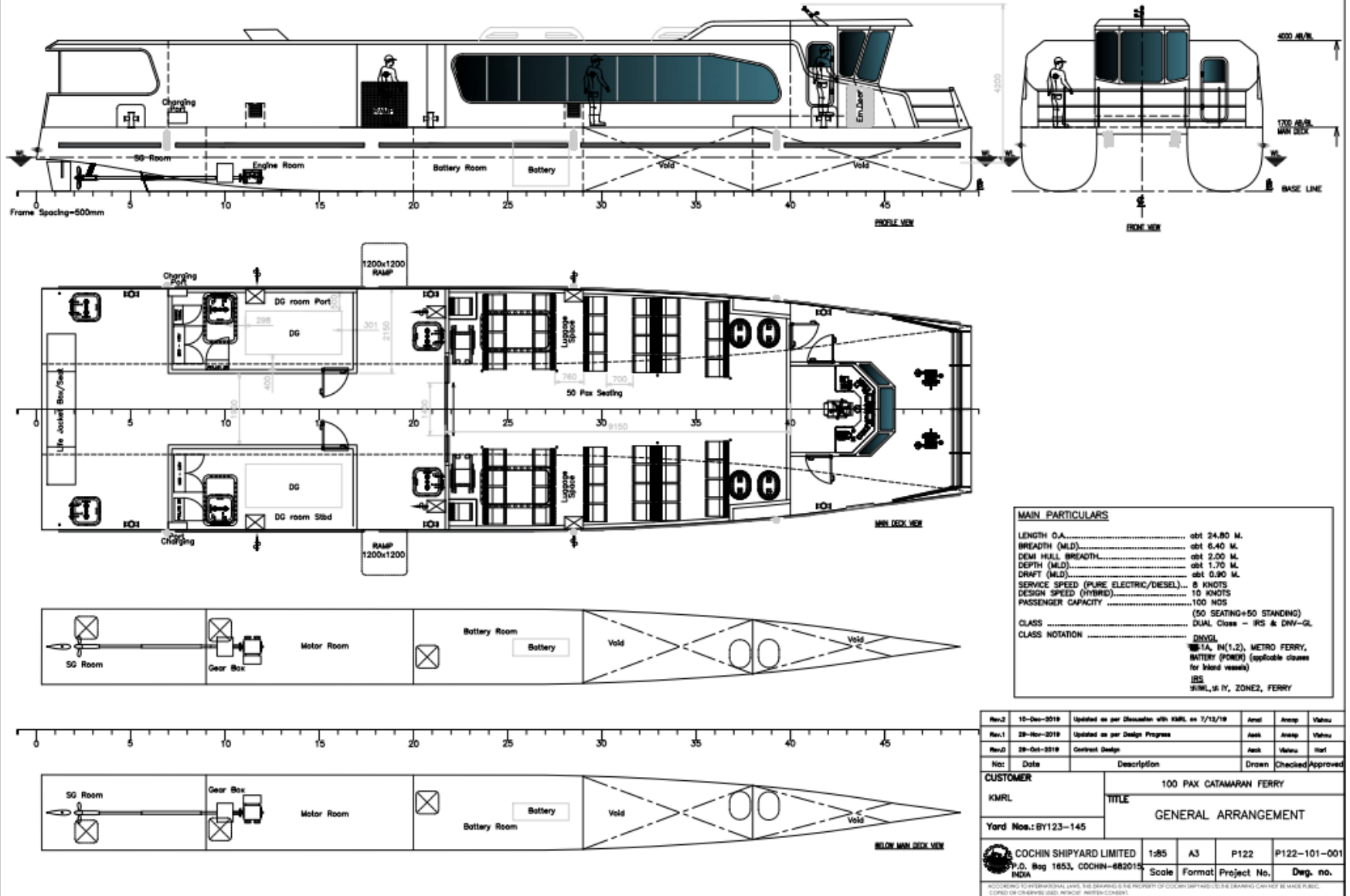
Signature of Statutory

Name& Address

(Company Seal)

General arrangement of Vessel

Annexure - 11



MAIN PARTICULARS	
LENGTH O.A.	abt 24.80 M.
BREADTH (M.L.D.)	abt 6.40 M.
DECK HULL BREADTH	abt 2.00 M.
DEPTH (M.L.D.)	abt 1.70 M.
DRAFT (M.L.D.)	abt 0.90 M.
SERVICE SPEED (PURE ELECTRIC/DIESEL)	8 KNOTS
DESIGN SPEED (HYBRID)	10 KNOTS
PASSENGER CAPACITY	100 NOS (50 SEATING+50 STANDING)
CLASS	DUAL Class - IRS & DNV-GL
CLASS NOTATION	DINGL IN(1,2), METRO FERRY, BATTERY (POWER) (applicable classes for inland vessels) ISB SIML, II, ZONE2, FERRY

Rev.	Date	Description	Drawn	Checked	Approved
Rev.2	10-Dec-2019	Updated as per Discussion with KMRL on 7/13/19			Vishnu
Rev.1	29-Nov-2019	Updated as per Design Progress			Vishnu
Rev.0	28-Oct-2019	Contract Stage			Start

CUSTOMER		100 PAX CATAMARAN FERRY			
KMRL	TITLE				
		GENERAL ARRANGEMENT			
Yard Nos.: BY123-145					
COCHIN SHIPYARD LIMITED P.O. Bag 1853, COCHIN-682015 INDIA	1:85	A3	P122	P122-101-001	
	Scale	Format	Project No.	Dep. no.	