



Tel No. 0484-2501249

Email -lalin.divan@cochinshipyard.in

MAT/CSH4/064/22-23

24 March 2023

Corrigendum No. 2 dated 24 March 2023 for the Tender for Design, Supply, Installation and Commissioning of Superstructure Outfit Package for SH 29-36 built by CSL for European Owner with Owner Nominated Foreign Makes (MAT/CSH4/064/22-23)

Dear Sirs,

Ref: 1. Tender No. MAT/CSH4/064/22-23 dt. 24.02.2023 for Design, Supply, Installation and Commissioning of Superstructure Outfit Package for SH 29-36

2. Pre-Bid Meeting held on 06.03.2023

The following revisions / changes are made to the subject Tender:

- I) Revised Purchase Technical Specification (Doc No. N3029022601 dt. 22.03.2023) (Annexure 1).
- II) Revised Pre-qualification criteria (Annexure 5).
- III) Revised L1 methodology at Annexure A to Enclosure of Pre-qualification criteria.
- IV) In the Para 3 of Tender cover page to be read as "Tender for Design, Supply, Installation and Commissioning of Superstructure Outfit Package for SH 29-36" instead of "Tender for supply of valves and Fittings under rate contract".
- V) Yard reply to the Technical & commercial queries made by various suppliers.
- VI) Cardinal Dates of Tender have been modified as below :

Last date of submission of offers : 17th April 2023 at 11:00 AM Indian Standard Time

(Techno commercial bids including price bid)

Tender opening date and time : 17th April 2023 at 11:30 AM, Indian Standard Time

(Part I of the offer only).

पंजीकृत कार्यालय : प्रशासनिक भवन, पी.ओ.बैग सं 1653, पेरुमानूर पी. ओ., कोची - 682 015
Registered Office : Administrative Building, P.O. Bag No. 1653, Perumanoor P.O., Kochi - 682 015
फोन/Phone : +91(484) 2361181 / 2501200 फेक्स/Fax : +91(484) 2370897 / 2383902
वेबसाइट /Website: www.cochinshipyard.in, सीआईएन/CIN: L63032KL1972GOI002414



Except the above, all other terms and conditions of the tender enquiry will remain unchanged.

- Enclosure-
1. Revised PTS -Annexure-1
 2. Revised Pre-qualification criteria- Annexure 5
 3. Revised L1 methodology -Annexure A of Pre-qualification criteria
 4. CSL response to pre-bid queries

Yours faithfully,



Asst. General Manager (Materials)



लालिन टी दिवान
LALINI T DIVAN
प्रबंधक / Manager
कोचीन शिपयार्ड लिमिटेड
Cochin Shipyard Ltd.
कोच्ची / Kochi - 682 015

Revised PTS : [N3029022601SUPERSTRUCTUREOUTFITPACKAGER1.pdf](#)

Pre qualification criteria

Sl No	Description	Compliance by Supplier (YES/NO)	If Yes , name of the document submitted for verification (Refer Note for details of the documents to be submitted)
1	The average annual financial turnover during the last 3 years, ending 31st March 2022 should be at least INR 15 Crore.		
2	The bidding firm should not have the following in any of the last 03 financial years: (a) Negative cash flows (b) Current liability greater than current assets (c) Negative trend of profit percentage of greater than 20% year on year		
3	Please confirm your acceptance of L1 methodology (Lowest Bidder) and Split order methodology as per Annexure -A (Only vendors who accept the L1 and Split order methodology will be considered for further processes) . Declaration as per point 2 of below note shall be provided.		
<p>Note : -</p> <p>1. In line with the financial criteria, the bidder shall submit their audited balance sheets for the last three financial years. Bidder should also provide credit ratings for the last three financial years from any authorized credit rating agency. Credit rating should not be below 'Good' or equivalent.</p> <p>2. Firm shall submit a letter in their letter head confirming to the acceptance of order either as Vendor 1 or as Vendor 2 as per the L1 and Split order methodology in Annexure -A of Prequalification Criteria.</p> <p>3. Prequalification supportings will be verified appropriately to ensure authenticity of documents submitted. Signed doc evidences in support of each eligibility criteria is to be mentioned For arriving at financial figures with respect to PQ criteria , wherever foreign currency is applicable, Exchange rate of financial year closing date of the respective country will be considered for conversion to INR</p> <p>4. Offers meeting the pre qualification criteria are only eligible and those offers only shall be considered for techno commercial evaluation. Offers received without compliance to prequalification criteria will summarily be rejected without any further communication from CSL side</p>			

L1 METHODOLOGY

The scope mentioned in Section 1, PART-1 of Purchase Technical Specification shall be awarded as below:

1 Purchase order & 2 Work orders:

Purchase order: includes

Design and supply for all 8 vessels.

Work order 1: includes

Installation & commissioning of following 4 vessels

- Vessel 1
- Vessel 3 (delivery 6 months after vessel 1)
- Vessel 5 (delivery 5 months after vessel 3)
- Vessel 7 (delivery 2 months after vessel 5)

Work order 2: includes

Installation & commissioning of following 4 vessels

- Vessel 2 (*delivery 3 months after vessel 1*)
- Vessel 4 (delivery 6 months after vessel 2)
- Vessel 6 (delivery 3 months after vessel 4)
- Vessel 8 (delivery 2 months after vessel 6)

- a. Vendor 1 will be awarded the work of Design & supply of materials for all 8 vessels and Installation works in vessels 1, 3, 5 & 7 (ie. Purchase Order and Work Order 1) . Vendor 2 will be awarded the Installation works in vessels 2, 4, 6 & 8 (ie. Work Order 2).
- b. Price bid shall be submitted for the following works:
 - Design & supply of materials for all 8 vessels
 - Installation and commissioning works of 4 vessels including supply of associated consumables.
- c. Only Vendors who quote for both bids will be considered. This is a mandatory requirement for the consideration of the bid. In case of non-compliance the bid will be summarily rejected.
- d. Vendor 1 for the combined work of Design & supply of materials for all 8 vessels and Installation works in vessels 1, 3, 5 & 7 will be identified first by finding the overall L1 of the price bid submitted as per (b).

- e. If the L1 vendor for Installation and commissioning works of 4 vessels is the same firm as Vendor 1, then L2 vendor for Installation and commissioning works will be awarded the installation and commissioning works in vessels 2, 4, 6 & 8 at the per shipset price quoted by L2 or at 30% of Vendor 1 overall price per ship-set (ie. Design & supply of materials + Installation and commissioning works), whichever is lower.
- f. If the L1 vendor for installation and commissioning works is a different firm than vendor 1, then that firm will be awarded the Installation and commissioning works in vessels 2, 4, 6 & 8.
- g. Vendor 2 who is awarded Work order 2 will carry out Installation and commissioning works, based on Design and supply carried out by Vendor 1.
- h. Presence of Vendor 1 is needed at yard till all 8 vessels are delivered, to ensure smooth material availability (delivery at store, QC clearance, issue of MLF, handing over with list, shortage supply etc) for Vendor 2.


YARD REPLY (Commercial) TO PRE-BID MEETING QUERIES ON 6 MARCH 2023 FOR SUPERSTRUCTURE OUTFIT PACKAGE
 FOR SHIP 029-036
 (TENDER ENQUIRY NO: MAT/CSH4/064/22-23)

Sl No.	Firm's Queries	CSL Reply
1	Material clearance from port under whose authority	For HSS supply , material clearance at Cochin Port is under yard scope
2	As per Annexure 5, SL No 2 (c) Bidding firms should not have "Negative trend of profit of greater than 20% year on year". Please clarify , whether the net reduction of profit margin is to be computed on net PBT % or on absolute PBT value."	Please refer revised tender document Annexure - 5 as per corrigendum 2
3	We request Yard to review the L1 and split order methodology as mentioned in the tender enquiry.	Please refer revised tender document Annexure - 5 as per corrigendum 2

YARD REPLY TO PRE-BID MEETING QUERIES ON 6 MARCH 2023 FOR SUPERSTRUCTURE OUTFIT PACKAGE
FOR SHIP 029-036
(TENDER ENQUIRY NO: MAT/CSH4/064/22-23)

SL NO	PTS CLAUSE	FIRM'S QUERIES	YARD REPLY
1	GENERAL	After arrival of crew of each vessel, familiarisation sessions are to be arranged by firm for crew for all works carried out by firm. Signed acceptance reports for familiarisation sessions, submitted to yard. Q1: On what Level of training is expected from firm ? Please clarify	Operational aspects are to be generally demonstrated in familiarisation sessions. These sessions are to be conducted for all items installed and commissioned by firm including yard supply items (HVAC system, galley equipment, laundry equipment, sanitary equipment etc). However familiarisation sessions of electrical equipments commissioned by yard will be conducted by yard. Refer revised PTS Part 2 (Technical requirements) Clause 1 Scope.
2	DESIGN WORK	Its mentioned that no panels will be modelled. By doing so, from construction point of view it will be difficult to manage space reservation . Q1 : Hence request CSL to model or reserve space for (a) Cold Room (b) Wall & Ceiling Panels	Outfit items modelled (pipes, pipe fittings, ducts, trunks, supports, equipments, electrical equipments, equipment seats for all electrical equipments, cable ways, cable way support, cable spaces) by yard are to be reviewed by firm to ensure design requirements are satisfied.
3	GENERAL	Accommodation handing over are to be obtained from vessel crew and submitted to yard. Q1. The above statement is GENERIC. Please clarify. Q2. After completion of all works, firm generally hand over the accommodation to CSL after (1) internal QC inspection & (2) Client Survey. We propose vessel crew to accompany the client survey and take over.	After arrival of crew, the keys of compartments with key lists are to be handed over to crew and signed document from crew to be obtained and submitted to yard. Refer revised PTS Part 2 (Technical requirements) Clause 1 Scope.
4	GENERAL	Q1 : No AVL/makers list for Doors, Insulation, flooring, Window blind. We presume that firm can select any vendor meets the requirements. Please clarify Chinese make or origin materials are acceptable ?	Makes meeting the PTS requirements can be offered in cases where no makes are specified in the PTS. Chinese makes or origin materials are not accepted.
5	GENERAL	If possible CSL to share the GA / layout in dwg/CAD	Firm will have to manage this requirement from details provided.
6	INSULATION (STRUCTURAL & PIPING)	" Wheelhouse to be provided with insulation in recessed deck and steel deck plate on top of insulation to be provided by firm." Q1: Request CSL to clarify the statement	Wheelhouse deck on the wings will be exposed to external weather from below. Insulation cannot be provided on exterior but only on the inside of Wheelhouse. Recess will be provided in the floor for laying insulation and deck plate (yard supply) is to be welded on top of insulation. Please refer typical sketch in insulation plan. Refer revised clause 3.2 in Enclosure 1: Scope of work of PTS.
7	INSULATION (STRUCTURAL & PIPING)	"Additional sound insulation will be required in living spaces where necessary to reduce the noise level below maximum values as per requirements. Noise report will be provided by yard after placement of order & firm is to supply & install insulation, floating floors, sound windows etc if required as per recommendations of noise report without additional cost. Sound insulation to be provided with Glass cloth (low flame spread, at least 200 G/m2) as facing." Q1 : Please advise on what basis costing can be done since nothing has been mentioned about the required noise level in tender documents ?	Please refer SL k of Clause 2.3 Rules and regulations of Part-1 (General requirements) of PTS.
8	FLOORING & SKIRTING	7. 2.fixing equipment on top of floating floor without touching Steel deck- Q1 : Please clarify the statement ? Q2 : Heavy weight equipment fixing on floating is going to be challenge, floatig floor configuration to be clarified	Noise levels in accommodation spaces should not be exceeded due to vibration from under deck machinery spaces. For this purpose floating floor is provided on Accommodation deck and all items, equipments are to be mounted on top of floting floor without touching steel deck to avoid any short circuit. Floating floor configuration to be selected accordingly.

9	FURNITURE, WOODEN RACKS & CABIN FURNISHINGS	Certificate to be provided for wood used. Q1 : Please clarify what certificate is expected ?	Requirement is omitted from PTS
10	HVAC SYSTEM	Q1: HVAC System, " Items mentioned as "yard " scope in catalogues are to be supplied by firm for complete ship." Please note that in the PTS there are no items mentioned as " Yard Scope" , please clarify Q2 : Please clarify the battery limit of basic designer for providing engineering drawings and documents ? Q3 : Commisioing of firm scope to be clarified - Equipments supplied by yard , commisioing assistance can be offered by firm, time of completing commisioing & commisioing responsibility, functinality of system responsibility cannot be taken by firm. For information Q4 : Noise concern by HVAC to be confirm- major Noise in LQ is due to HVAC system , this may not be mitigated by insulation,since it is depends on design /duct sizing etc , the scope to clarify Q5: Clarity required on Design Scope	Q1: Items mentioned as "Yard", "Del Yard" in catalogues provided in Annexure 9.6 are to be supplied by Firm. Q2: Basic design details and equipment catalogues which will be provided by De Haan are included in PTS. Rest of design works (other than modelling in Tribon software) are included in Firm's scope. Q3: Firm will have to make the HVAC (full ship) and Sanitary system (Superstructure area) ready for commissioning and do pre commissioning checks. Service engineers from De Haan will be present for commissioning work and commissioning assistance is to be provided by firm. Firm will be responsible for that part of work carried out by firm. Test and trials of HVAC & Sanitary systems will be in Firm's scope. Q4: Noise issues due to basic design shortcomings will not be passed on to firm. Noise issues due to reasons otherwise will have to be addressed by firm. Q5: Refer reply to Q2. Refer revised clause 9.2, 9.6 in Enclosure 1: Scope of work of PTS.
11	WET UNITS (PREFABRICATED & CONSTRUCTION)	Q1 : Please clarify Mock up requirement is to be done at manufacturer location or at Cochin Shipyard ? Please clarify Q2 : Suppose if this is at manufacturer location, please confirm cost if visit by client & yard or Client/yard will be with CSL scope ?	Q1: Mock up inspection of wet units is to be conducted at OEM factory premises, as owner comments will need to be addressed by OEM for all wet units delivered. All expenses associated with arranging mock up will be in Firm's scope. Q2: Owner and yard travel and lodging expenses will not be passed on to firm. Refer revised clause 6.4 in Enclosure 1: Scope of work of PTS.
12	PIPING	Q1 : In the P&ID, its shown that Grey & Black water lines are connected together, please clarify ? Q2 : Interfacing of piping in yard and firm scope to be clarified. Q3 : Firm will take the resposibility of pressure testing of pipes under firms scope.	Q1: Sanitary piping design is as per owner requirements. Q2: Please refer clause 10.2 of Enclosure 1: Scope of work for piping interfacing requirements. Q3:All piping installed by firm will have to be tested by firm. Refer revised clause 10.2 in Enclosure 1: Scope of work of PTS.
13	MASTS (MAIN MAST, AFT MAST & FLAG MOUNTS)	Q1 : Its noted that Structure scope of Main & Aft Mast is in firm scope of supply. Generally it's a part of structure work which CSL used to execute. Please clarify	Q2: For the present project, the mast as a whole has been included in firm's scope
14	OUTFIT ITEMS YARD SUPPLY (HATCHES, VERTICAL LADDERS, EXTERNAL STAIRS, INTERNAL STAIRS, HAND GRIP & STEPS)	Q1: Pleases submit the yard Supply items MTO for us to work out the cost for installation	Q1: For better clarity in scope, yard supply items to be installed by firm are now marked in the respective drawings. Refer revised clause 12.2 in Enclosure 1: Scope of work of PTS.
15	FIRE CONTROL AND SAFETY EQUIPMENTS INCLUDING SYMBOLS	"All necessary mounting brackets, supports, steel angles etc required for installation of LSA and FFA items in Superstructure area are to be supplied by firm." Q1 : For your information , bracket for certain LSA FFA equipments are normally supplied with them. for eg. lifebouy, EEBD Etc If the mounting brackets, supports, Steel Angles etc for installation of LSA FFA items are to be considered, CSL to share the vendor details of the corresponding items with model number and size for cost estimation.	Information requested is not available with yard. Firm to submit offer as per PTS requirements.
16	Reference to corrigendum MAT/CSH4/064/22-23 dated 28-Feb-2023 on the L1 Methodology,	Installation & commissioning cost for Vessel 2, 4,6 & 8 for L2 Bidder should be (1) 35% of the overall cost of L1 or (2) Installation & Commissioning cost of L1 whichever is HIGHER.	

17	CONSUMABLES	<p>1. Regarding consumables – all the materials required for the installation to be supplied by L1 except tools, consumables like welding rod, grinding disc, cotton waste, gloves etc.</p> <p>2. Note : Any fabrication installation or anything associated with manpower will have to be done by L2 Firm Reason : We presume shipyard is awarding the installation contract to L2 firm to expedite the work & to meet the deadline. Considering this, man power associated work cannot be a part of material supply.</p>	<p>1. Please refer Annexure 20: Items and activities in Installation Firm's scope.</p> <p>1. All fabrication works (for 8 vessels) will be carried out by Material supply firm who is awarded the Design and supply of materials for 8 vessels as per PTS requirements. Please refer Annexure 20: Items and activities in Installation Firm's scope, for further details.</p>																						
18	DOORS	PTS its mentioned that 'TO BE FITTED WITH GAS TIGHT TYPE, ONE DOG (WITH SQUARE HEAD)' what is meant by square head. Is it radius of door?	" Square head" requirement is omitted from PTS																						
19	DOORS	What is meant by self-closing device, Is it hydraulic door closer.	Self closing device is a door closer that keeps opened doors closed																						
20	DOORS	<p>please clarify, following doors are interior interior joiner steel doors.</p> <table border="1" data-bbox="1546 611 1908 930"> <tr><td>133-001-102</td><td>WORKSHOP</td></tr> <tr><td>133-001-103</td><td>WORKSHOP/ LOWER ER ESC</td></tr> <tr><td>133-001-105</td><td>ER ESC</td></tr> <tr><td>133-001-106</td><td>SWITCH BOARD ROOM</td></tr> <tr><td>133-001-107</td><td>SWITCH BOARD ROOM ESC</td></tr> <tr><td>133-001-208</td><td>ER ENTRANCE</td></tr> <tr><td>133-001-217</td><td>STAIR CASE</td></tr> <tr><td>133-001-307</td><td>STAIRCASE</td></tr> <tr><td>133-001-407</td><td>STAIRCASE</td></tr> <tr><td>133-001-506</td><td>STAIRCASE</td></tr> <tr><td>133-001-507</td><td>STAIRCASE</td></tr> </table>	133-001-102	WORKSHOP	133-001-103	WORKSHOP/ LOWER ER ESC	133-001-105	ER ESC	133-001-106	SWITCH BOARD ROOM	133-001-107	SWITCH BOARD ROOM ESC	133-001-208	ER ENTRANCE	133-001-217	STAIR CASE	133-001-307	STAIRCASE	133-001-407	STAIRCASE	133-001-506	STAIRCASE	133-001-507	STAIRCASE	All these doors are to be of Steel construction and are not Panel doors.
133-001-102	WORKSHOP																								
133-001-103	WORKSHOP/ LOWER ER ESC																								
133-001-105	ER ESC																								
133-001-106	SWITCH BOARD ROOM																								
133-001-107	SWITCH BOARD ROOM ESC																								
133-001-208	ER ENTRANCE																								
133-001-217	STAIR CASE																								
133-001-307	STAIRCASE																								
133-001-407	STAIRCASE																								
133-001-506	STAIRCASE																								
133-001-507	STAIRCASE																								
21	DOORS	Its mentioned about door stopper, Please clarify. Is it door holder/door hold open mentioned?	<p>Please refer typical pictures of Door stopper for reference:</p> 																						
22	DOORS	Can we offer powder coated door if exact matching PVC film is not available?	Powder coated door is not acceptable. Refer revised clause 1.3 in Enclosure 1: Scope of work of PTS.																						
23	INSULATION (STRUCTURAL & PIPING)	<p>"Fire insulation to be provided with Glass cloth (low flame spread, at least 200 G/m2) as facing. Insulation overlap to be provided at all locations"-</p> <p>a) Please mention the area required to be finished with fire cloth</p> <p>b) Is it required only in exposed area. provide glass clothing .</p>	Glass cloth facing requirement is replaced with Re-inforced aluminium foil facing for all types of insulation. All structural insulation applied onboard are to be provided with re-inforced aluminium foil facing in all areas (exposed area or behind Wall panel and GI cladding). Refer revised clause 3.3, 3.4 in Enclosure 1: Scope of work of PTS.																						
24	INSULATION (STRUCTURAL & PIPING)	Clarify that no insulation between the level boat& offices deck.(below deck 19000AB)	Insulation to be offered as per PTS requirements (clause 3 in Enclosure 1: Scope of work).																						

[Handwritten signature]

[Handwritten signature]

25	INSULATION (STRUCTURAL & PIPING)	No A60 Insulation in galley, clarify	Refer reply to SL 24.
26	WET UNITS (PREFABRICATED & CONSTRUCTION)	Requirement of wet toilet mirror not mentioned in the offer, please confirm.	Pre fabricated sanitary units to be provided with mirror on toilet wardrobe. Refer revised clause 6.2 in Enclosure 1: Scope of work of PTS.
27	INSULATION (STRUCTURAL & PIPING)	For calculating the pipe insulation thickness Share A) Surface temperature of pipe B) Target temperature after insulation	Please refer details in Annexure 6.2: Piping lengths for insulation estimation
28	PIPING	Clarify the sanitary discharge system (gravity or Vacuum)	Sanitary discharge system if of Gravity type.
29	PIPING	sounding system scope to clarify 1) Air pipe head 2) Self closing sounding valve 3) Sounding cap	Self closing sounding valve and sounding cap will be provided by yard and to be installed by firm. De-aeration/ gooseneck and Fill/ discharge connection as per P&ID is in Firm's scope of supply and installation.
30	DOORS	Please share the water tight/weather tight requirement of the mentioned doors. 133-001-104: STEERING GEAR ROOM 133-001-108: CO2 ROOM	Weather tight requirements are indicated as "WHT" in column "Type" of Door plan provided as Annexure 4.1.
31	Annexure 5, SL No 2 (c)	Bidding firms should not have "Negative trend of profit of greater than 20% year on year". Please clarify, whether the net reduction of profit margin is to be computed on net PBT % or on absolute PBT value."	
32	HVAC SYSTEM	1. Kindly clarify that as system design is carried out by OEM whether firm to consider any commissioning at firms scope 2. As the design is from OEM, we request that detail MTO of ducts and other equipment's which are in our scope of supply to be provided by yard/OEM 3. As mentioned in the Enclosure 1 HVAC scope of work SI 9, 5 days only the commissioning engineers will be available. Kindly confirm whether we have to consider the cost of 5 days or not? Also, please confirm that the requirement of commissioning Engineer beyond 5 days (for any reason) will be in firms scope or not?	1. Please refer clause 9.6 of Enclosure 1: Scope of work of PTS. Commissioning assistance is to be provided by firm. Test and trials of HVAC & Sanitary systems will be in Firm's scope. 2. Please refer clause 9.2 of Enclosure 1: Scope of work of PTS. This work is in Firm's scope. 3. Commissioning engineers cost for 5 days is not to be considered by firm. However if commissioning is extended due to reasons attributable to Firm, it is to be borne by the Firm.
33	INSULATION (STRUCTURAL & PIPING)	As per Insulation plan Annexure -6.1, A-15 insulation to be provided with aluminium foil, As per Enclosure-1 scope of work, Clause 3.3, All fire insulation to be provided with glass cloth facing. Please clarify.	A15 insulation to be provided with re-inforced Aluminium foil. Refer revised clause 3.3, 3.4 in Enclosure 1: Scope of work of PTS.
34	WINDOWS, WINDOW WIPERS	As per Window plan Annexure 5.1 Wiper -13 Nos and Hot water spray-15nos to be provided. However as per annexure 5.2, Wiper -17 Nos and Hot water spray 17 nos to be provided. Please clarify	1. Details mentioned in Annexure 5.2: Zone division plan to be followed for Window wiper, hot water spray, electric heating and dehumidifying warm air requirements. Refer revised clause 2.7 in Enclosure 1: Scope of work of PTS.
35	PIPING	For sewage piping system Annexure 10.7 instead of PE piping, it is proposed to use UPVC piping with dimensional standard DIN 8061/8062- Request to check and confirm.	1. Please refer updated piping requirements at clause 10.9 of Enclosure 1: Scope of work of PTS. PVC piping satisfying DNV requirements can be used. Refer revised clause 10.9 in Enclosure 1: Scope of work of PTS.
36	PIPING	For potable water system Annexure 10.7 temperature range shown as 0-80 Deg C. Here we propose to combine option as Cold water system 0-60 Deg C with UPVC piping and For Hot water system 0-80 Deg C with CPVC piping. Request to please check and confirm	1. Please refer updated piping requirements at clause 10.9 of Enclosure 1: Scope of work of PTS. PVC piping satisfying DNV requirements can be used. Refer revised clause 10.9 in Enclosure 1: Scope of work of PTS.
37	PIPING	For gas and oxygen system, the Gas & Oxygen bottles are in owner scope of delivery. Equipment's for Oxy acetylene system to be of Unitor make and is in firm's scope of supply. Bottles are to be installed by firm with proper supports supplied by firm.) o Kindly clarify what we have to supply and where these equipment's are located? On top of each CO2 bottle in CO2 room?	Equipment for Gas welding distribution system from Unitor are to be supplied. Equipment is to be located in C2H2 and O2 lockers located on Boat deck PS in exterior area. Locker arrangement is shown in Annexure 8.6: Arrangement of stores. Refer revised clause 10.4 in Enclosure 1: Scope of work of PTS.

38	FLOORING & SKIRTING	Request to please inform the method of application of Floating Floor. Standard practice are Laying of insulation on Deck and laying of 2mm and 3mm GI sheets on top of Insulation using adhesives/ rivets. However it is mentioned in the annexure 7 that Floating floor to be done on top of underlayment. Please clarify.	Floating floor to be provided as per OEM requirements. Underlayment on Accommodation deck is omitted from PTS requirements. Refer revised clause 4.6 in Enclosure 1: Scope of work of PTS.
39	FLOORING & SKIRTING	Please confirm the compartments for floating floor. As understood from insulation plan Annexure-6 All accommodation deck compartment Fr -5 to Fr 16 to be provided with floating floor (Except Store, Deck store, ER Entrance, Funnel).	All areas hatched in Insulation plan for A60 fire insulation on Accommodation deck to be provided with floating floor. Refer revised clause 4.6 in Enclosure 1: Scope of work of PTS.
40	TENDERING METHODOLOGY	We request Yard to review the L1 and split order methodology as mentioned in the tender enquiry.	
41	TENDERING METHODOLOGY	<p>L1 and split order methodology . The MPV Project has a lot of installation only components in Contractor's scope (HVAC equipment, various electrical & electronic systems) for which procurement and supply of equipment will be undertaken by Yard. Further, the commissioning of all these equipment will be in the scope of the contractor (both for Vendor 1 & Vendor 2).</p> <p>In case of Vendor 2 , the risk element for installation and commissioning is substantially higher even compared to Vendor 1, as apart from the above yard supplied items, he is also responsible for installation & commissioning of all items supplied by Vendor 1. To ensure a level playing field for Vendor 1 & Vendor 2, it is imperative that the following be incorporated in the tender, so that no frontloading of installation costs on material supply is done by vendors (wherein the Vendor 2 is forced to take up an unsustainable installation & commissioning order).</p> <p>a. Vendor 1 for the combined work of Design & supply of materials for all 8 vessels and Installation works in vessels 1, 3, 5 & 7 to be identified by finding the overall L1 of the price bid.</p> <p>b. If the L1 vendor for Installation and commissioning works of 4 vessels is the same firm as Vendor 1, Yard to place Work Order order to the L2 vendor (for Installation and commissioning) at an amount of 30% of overall L1's price ,because given the scope of installation & commissioning , it is our professional opinion that even on a conservative basis this will the amount needed for installation & commissioning to ensure requisite quality .</p> <p>c. If the L1 vendor for installation and commissioning works for vessels four vessels is a different firm than vendor 1, then that firm will be awarded the Installation and commissioning works in vessels 2, 4, 6 & 8 at the quoted price itself .</p> <p>The above conditions will ensure both sustainable price for vendor 2 and also ensure that CSL can get a lower price for installation on vessels 2,4, 6, 8 if L1 vendor for installation & commissioning is different from vendor 1.</p>	
42		It should be explicitly stated in the tender that , "Assembling of all dismantled furniture items and toilet modules is in the scope of installation vendor". This clarity is required because there is a possibility of the installation vendor (Vendor2) asking for all items to be provided to him onboard in fully assembled condition.	Please refer Annexure 20: Items and activities in Installation Firm's scope
43		Tools Lot of the specialist tools required for installation (eg: PE piping, CPVC /UPVC piping, Pin welding machines) are costly, hence here again, it needs to be explicitly stated that all tools required for installation works (including special tools) to be catered by the installation vendor (specifically relevant for vendor 2 who has no interaction with the OEMs).	Please refer Annexure 20: Items and activities in Installation Firm's scope

44	CONSUMABLES	<p>Proposed list of consumables. The following is the bare minimum list of consumables which needs to be catered by the installation Vendor (must be explicitly stated to avoid future ambiguities).</p> <p>a. All welding / brazing consumables b. Cutting / grinding / buffing wheels c. Cotton wastes d. All PPE e. Protection sheets (Furniture, floor, panels, door etc.) f. Tool accessories (Drill bit, hole saw, wood cutting blades etc) g. Fasteners (Nuts, bolts, screws, rivets etc.) h. Silicone sealants other than sikaflex i. Gaskets other than fire certified gaskets j. General Adhesives</p> <p>Note : As discussed, details of Electrical consumables will have to be provided by Yard</p>	Please refer Annexure 20: Items and activities in Installation Firm's scope
45	HVAC SYSTEM	HVAC Commissioning - Flushing of HVAC system pipe line using Nitrogen may have be repeated more than once at site. Hence the same needs to be in the scope of respective installation contractor and not with the Vendor who is supplying materials	Please refer Annexure 20: Items and activities in Installation Firm's scope
46		Service Engineer Assistance- Vendor 2 has to liaise with Vendor 1 for any assistance pertaining to requirement of Service Engineer for items supplied by Vendor 1. For example, during commissioning of Galley laundry items, if any issues arises during commissioning which warrants assistance of Service Engineer, Vendor who has supplied the same needs to facilitate at their own cost to the respective installation vendors	For item issues not attributable to Installation Firm, the Material supply firm will have to arrange Service engineers at their own expense. Please refer Annexure 20: Items and activities in Installation Firm's scope
47		Pipe/Duct spool fabrication – Pipe/duct spools fabrication and supply should be in the scope of Material supply vendor. Installation Vendor will do final installation and full welding at site as per site conditions.	<p>Please refer Annexure 20 for Items and activities included in Installation Firm's scope. Remaining supply and fabrication works are included in Material supply firm's scope.</p> <p>For welding works which can only be finalised as per site conditions, fabricated items will be provided in tack welded state by Material supply firm for full welding by Installation Firm. Also cutting works that can only be finalised as per site conditions is to be listed out and Material to be issued by Material supply firm for further work by Installation firm. List of fabricated items with tack welding, and supports to be cut on site is to be provided by Material supply firm during drawing preparation period and is to be approved by yard.</p>
48	HVAC SYSTEM	Chilled water System: Flushing and proving water quality of Chilled water system should be in the scope of installation vendor.	Please refer Annexure 20: Items and activities in Installation Firm's scope
49		Requirement of Special tools. Special tools required for Commissioning of equipment to be in the scope of equipment OEM and not by the Material supply contractor.	Special tools for commissioning will be arranged by OEM for equipments supplied by yard. Refer revised clause 17.33 in Enclosure 1: Scope of work of PTS.
50		Scope of supply of Anti Vibration mounts of equipment be intimated by Yard.	For equipments supplied by Firm, anti vibration mounts are to be provided by Firm as per OEM recommendations. For equipments supplied by yard, anti vibration mounts if needed will be provided by Yard. Refer revised clause 17.33 in Enclosure 1: Scope of work of PTS.
51	HVAC SYSTEM	Generally in HVAC system for air balancing volume Control Dampers are to be installed in the ducting. However the same was not found in the P&ID. Requirement and quantity to be provided by the Yard	Refer clause 9.2 in Enclosure 1: Scope of work. Only drawings included in PTS will be provided by De Haan. Rest of design (other than Tribon modelling works), drawing preparation works are to be carried out by firm and details to be submitted for approval. Volume control dampers and other HVAC system fittings, accessories as per Design requirements are to be identified, included in design drawings, supplied and installed by Firm.

52	HVAC SYSTEM	Please refer to SI 40 to 46 of the table in annexure 9.2. Its is mentioned as "Smoke / regulation valve ". It is not clear whether is a Smoke Damper or a Volume Control Damper. Please specify.	Smoke/ regulating valve is to function as both Smoke damper and Volume control damper. If Firm is not able to offer a Smoke/ regulating valve, then separate manual operated Smoke damper and Volume control damper are to be provided for each line. Smoke/ regulating valve offered to be manual actuated type. Refer revised clause 9.10 in Enclosure 1: Scope of work of PTS.
53	HVAC SYSTEM	Size, Thickness and Material of Engine Room ducting was not found in the P&ID. Kindly provide	The requirements of Engine room ducting are given in Annexure 17: Build specification relevant sheets. The dimensions of Engine room ducting are to be finalised by Firm from cross sectional area requirements (ratio of 1:4 for duct section) given in Annexure 9.1: Ventilation plan.
54		Refer to the enclosure 3 (Master Construction schedule) & 4 (Major Material Requirement Plan). It has been observed that the dates for delivery of major items is not feasible to deliver for the first 2 vessels. In view of the above we request you to provide the revised construction schedule and Material delivery plan along with corrigendum.	As per current plan: Launching of Ship 029 & 030 – Mid Nov 2023 Delivery of Ship 029 – End March 2024 Delivery of Sip 030 – End May 2024 Material delivery plan for Ship 029 & 030 are to suit the updated delivery schedule Refer revised PTS Part 2 (Technical requirements) Clause 4: Schedule of work.
55	DOORS	Door- Door list with certification and make not mentioned. To be furnished Scope of frame and structural Modification(cut openings) to be in yard scope	1. Door make to be offered as per specification requirements. 2. Making cut openings in structure is included in Firm's scope as per clause 2d of Part 2 Technical requirements of PTS.
56	FIRE CONTROL AND SAFETY EQUIPMENTS INCLUDING SYMBOLS	Fire Plan to be provided.	1. Please refer Annexure 14: Fire control safety plan to Enclosure 1: Scope of work.
57		Scope of Providing Escape plan?	1. Escape plan preparation is in yard scope.
58	WINDOWS, WINDOW WIPERS	Window wiper- Scope of piping and electrical work not mentioned.	The control panel (combined for window wiper, window electric heating, hot water spray and de humidifying warm air) to be supplied by the Firm. Since the panel is to be installed in the Bridge console, the installation of the panel and its termination will be carried out by yard. However cabling up to the console as required for the control panel and commissioning shall be carried out by the firm. Please refer Annexure 10.7: Sanitary diagram for piping works included in firm's scope. All Copper piping works for Sanitary system in superstructure area are in firm's scope. Refer revised clause 2.6 in Enclosure 1: Scope of work of PTS.
59	INSULATION (STRUCTURAL & PIPING)	Insulation – Piping and ducting insulation-Type not mentioned	Insulation to be offered as per PTS requirements (clause 3.7 in Enclosure 1: Scope of work)
60	PANEL (WALL & CEILING)	Ceiling and wall panel legend missing	Please refer revised Clause 5.3 and 5.4 of Enclosure 1: Scope of work.
61	WET UNITS (PREFABRICATED & CONSTRUCTION)	Mock up for wet unit to be done onboard or outside. How cost is accounted	Please refer reply to SL 11.
62	FURNITURE, WOODEN RACKS & CABIN FURNISHINGS	Wooden furniture – type of wood not mentioned.	Furniture to be chipboard covered with plastic wood structured laminate and to be Fire retardant as per clause 8.4 of Enclosure 1: Scope of work.

63		Lux , Vibration and noise measurement scope in yard scope to be confirmed	<p>Electrical- Lux measurement has to be carried out by the Firm, for which the required equipment would be provided by yard. Any additional light fittings if required for meeting the lux requirement would be supplied by yard, but the associated work part shall be carried out by the Firm without any additional cost.</p> <p>Noise and vibration measurements will be carried out by yard sub-contractor with assistance from Firm. Refer revised clause 17.34 in Enclosure 1: Scope of work of PTS.</p>
64	PIPING	Piping- Piping arrangement to be provided.	P&ID's of piping systems can only be provided.
65	MASTS (MAIN MAST, AFT MAST & FLAG MOUNTS)	Mast fabrication – structure only in scope of firm. Yard to provide lighting and any other accessories.	The navigation lights, antenna are in yard scope of supply. These being electrical equipments in Wheel House Top, would be fixed by yard. The corresponding seat fabrication, seat and cable way installation and other associated hotworks shall be carried out by the Firm. Also to be noted, that the commissioning of the mast electrical equipments would be carried out by yard. Please note that whatever works which are not included in yard scope, are included in firm's scope as per PTS requirements.
66	ANNEXURE 1: GENERAL ARRANGEMENT	Page 36 frame distance not mentioned proper	Page 36 is Annexure 1: General arrangement. Please refer profile view on top of drawing for frame distance. The frame distances are different in various parts of the ship.
67		Material clearance from port under whose authority	
68	PANEL (WALL & CEILING)	List of cabin with ceiling panel	Please refer clause 5.1 of Enclosure 1: Scope of work, for compartments which do not require ceiling panel. Rest of compartments (except Emergency generator room) listed out in Accommodation arrangements (Annexure 8 to Enclosure 1) are to be provided with ceiling panels.
69		Expected date of delivery as per document is outdated. To be determined once firm order or PO is released.	
70		Change in make is accepted or not.	Change in make is not accepted
71	ELECTRICAL	Navigational and all electronic equipment supply by yard. Installation and commissioning is OEM specific. Since supply is in yard scope. Further communication for installation and commissioning and cost for the same to be bear by yard	<p>For all electrical equipments in the super structure area, the commissioning as required shall be included in the scope of work of Firm.</p> <p>However for item with OEM service engineers (refer annexure 15.8), the Firm shall provide assistance in commissioning (refer clause 9 of Part 1: General requirements of PTS).</p> <p>For all electrical equipments installed on the Bridge console (including navigation and communication items) , the installation, termination and commissioning works would be carried out by yard. However, necessary hotworks and cabling of these items shall be part of scope of work of the Firm.</p> <p>Refer revised PTS Part 1 (General requirements) Clause 9: Commissioning and harbour & sea trials.</p>

72		<p>It was mentioned from your side that " The Firm whomsoever participated and qualified as L1 in Price Bid will be awarded with "SUPPLY SCOPE OF MATERIAL" for all the 8 Vessels as well as "SERVICE/INSTALLATION SCOPE" for 4 Vessels". And Firm qualified as L2 in Price bid will be awarded with "SERVICE/INSTALLATION" scope in remaining 4 vessels with L1's quoted SERVICE RATE".</p> <p>Comments: W.r.t to above statement, it is totally unacceptable for a Firm to take over the work other than their quoted value. Firm cannot give concurrence for a work without knowing the value for which it needs to commence . Moreover if Cost margin between L1 & L2 will have considerable difference, then hence above criteria for Bid participation are totally not desirable. So it would be better to give L2 to implement work with their respective quoted price.</p>	
73		<p>Please note, we would like to submit the most competitive offer for the above Tender. However, we would require GA drawing in AutoCAD for the super structure of the vessel to calculate the area. We request your good-self to kindly make arrangements to send the same at the earliest.</p>	Please refer reply to SL 5.