REQUEST FOR INFORMATION (RFI)

FOR PROCUREMENT OF 04 X 300 TON SULLAGE BARGES

- 1. The Indian Navy under Ministry of Defence, Government of India, is planning to procure *04 X 300 Ton Sullage Barges* from registered Indian Shipyards. With a view to identify probable shipyards who can undertake the construction of 04 X 300 Ton Sullage Barge, the shipyards are requested to forward information as sought in this RFI. The aim of seeking this RFI is also to finalise the specifications for the said barges with inputs from the Shipyards.
- 2. This Request for Information (RFI) consists of three parts as indicated below:-
 - (a) <u>Part I</u>. The first part of the RFI incorporates operational characteristics and features that should be met by the Barges. Few important technical parameters of the proposed barges are also mentioned.
 - (b) Part II. The second part of the RFI states the methodology of seeking response of Shipyards. It is highlighted that in accordance with Paras 13, 70 and 92 of Chapter II of DAP 20, there is a need to undertake capacity assessment of a shipyard prior recommending for issuance of RFP for ship or yardcraft construction irrespective of shipyard's response to this RFI (Appendix C to Chapter XII of DAP 20 relevant).
 - (c) <u>Part III.</u> Guidelines for Framing Criteria for Vendor Selection/Pre-Qualification in respect of 04 X 300 Ton Sullage Barge under Buy (Indian-IDDM) category.
- 3. Apart from the information sought as per the Appendices, the shipyards may also forward technical details/brochure/preliminary design/literature, etc., as deemed appropriate with respect to this said RFI for procurement of 04 X 300 Ton Sullage Barge.

PART- I

- 4. <u>The Intended Use of Barges (Operational Requirements)</u>. The Barge shall be capable of receiving sullage from ships and submarines alongside and at anchorage for discharge.
- 5. Quantity Required and Anticipated Delivery Time Frames. 04 X 300T Sullage Barges are proposed to be acquired. The anticipated delivery time lines for the first barge is maximum of 18 months followed by delivery of each barge every 03 months. Vendors are to indicate their comments on the build period and timelines for delivery. Three barges will be delivered at Visakhapatnam and one at Kochi.
- 6. <u>Important Technical Parameters</u>. Important Technical Parameters are placed at **Appendix A** of this document. Detailed specifications will be given in the Request for Proposal (RFP) which will be issued to Shipyard after verifying their credentials and capabilities to construct the barge. Further following details are to be submitted:-

- (a) Feasibility to build the 300 Ton Sullage Barge as per technical/operational parameters and specifications indicated at **Appendix A**. The shipyards are required to furnish details for each of the operational and technical parameters as brought out in **Appendix A**. Any modification to the parameter/specifications listed at **Appendix A**, can be suggested by the Shipyard with suitable justification(s).
- (b) Shipyard to submit the concept design for the Barge and option of providing upcoming technologies, if any, which will meet the intended purpose of the Barge and enhance its employability.
- (c) Agreement and / or collaboration with firms with regard to Design and Construction of the Barge.
- (d) Budgetary quotes of the barges with detailed break up of cost is to be submitted. This should include material cost, labor cost, equipment cost, training cost and taxes (as applicable). All entities factored in the costing are to be indicated in the break up.
- (e) Information on whether the offered barge/design is in use by any other Indian Customer is to be indicated.
- (f) The barges will be operated by Manpower/ Crew as indicated in **Appendix A**. The maintenance of the barge post guarantee period will be carried out by Naval Dockyards/ Naval Repair Yards. Training to *IN* personnel on operation and maintenance is to be imparted by the shipyard/ OEM of equipment at Shipyards/ OEM premises and (or) *IN* premises. Shipyard to submit proposed training schedule for crew and maintainers covering all the equipment fit and auxiliary systems installed in the barge. Further, shipyard to indicate acceptance to conduct the training at OEM premises and shipyard premises for the crew and maintainers.
- (g) The tentative delivery schedule/ build period for delivery of the Barge to *IN* after conclusion of contract including the build strategy.
- (h) Shipyards may consider this RFI as advance information to obtain requisite Government clearances and setting up of necessary infrastructure both in terms of manpower and material requirements.
- (j) Shipyard has to confirm its acceptance with the terms of payment as per Chapter XII, Section B, Para 79 and Appendix B to Chapter XII of DAP 20 and amendment thereof.
- (k) Experience in building/ supply of Barge which meets the requirement as listed in this document, along with details of customer/ clients and cost per Barge, delivery date, etc. will have to be submitted.
- (I) Willingness for Option Clause as per Para 93 of Chapter II of DAP 20.
- (m) The shipyard to submit copy of Government license relevant for ship construction/building activity.

- (n) Shipyard is to indicate the compliance and/ or conformity to various industrial and classification society rules & standards related to operations and safety for various components/ sub-components of the Barge as applicable.
- (p) Whether the shipyard would be able to comply with all provisions of DAP 20 or not. If not, which Para/ Clause of DAP 20 would not be agreed to, with reasons, needs to be submitted.
- (q) Shipyards to provide inputs on maintenance philosophy (ESP, AMC, PBL, etc.,), In this regard, Para 51 and Appendix F of Chapter II of DAP 20 is relevant.
- (r) Shipyard has to confirm its acceptance with the terms and conditions on obsolescence of the component/ parts of equipment of the Barge which may become obsolete during the life cycle of the Barge as per DAP 20 and amendments thereof.
- (s) Shipyard has to confirm its acceptance to following all the provisions of Chapter XII, Section B of DAP 20 regarding acquisition of Yardcrafts and Auxiliaries on competitive basis. If not, which Para/ Clause of Chapter XII of DAP 20 would not be agreed to, with reasons, needs to be submitted.
- (t) Shipyards are required to provide following details:-
 - (i) Displacement / dimensions of the Barge.
 - (ii) Proposed Delivery Schedule of the Barge.
 - (iii) Details pertaining to Capacity, infrastructure, financial status of the shipyard to be furnished and how it is intended to be used to meet the delivery schedule of the barges.
 - (iv) Past experience of shipyard in executing similar projects.
 - (v) Details of present order book status to be furnished.
- 7. The Shipyard should confirm that following conditions are acceptable: -
 - (a) The solicitation of offers will be as per 'Single Stage -Two Bid System'. It would imply that a 'Request for Proposal' would be issued soliciting the technical and commercial offers together, but in two separate sealed envelopes. The validity of commercial offers would be at least 18 months from the date of submitting of offers.
 - (b) The financial assessment parameters would be evaluated by a Financial Parameter Evaluation Team (FPET) constituted by SHQ prior to Technical Evaluation Committee (TEC). The technical offers would be evaluated by a Technical Evaluation Committee (TEC) to check its compliance with RFP.

- (c) Amongst the Shipyards cleared by Technical Evaluation Committee (TEC), a **Contract Negotiations Committee** (CNC) would decide the lowest cost bidder (L1) and conclude the appropriate contract.
- (d) Vendor would be bound to provide product support for time period specified in the RFP, which includes spares and maintenance tools/jigs/fixtures for field and component level repairs. Documentation for training/ maintenance/ repairs are also to be provided.
- (e) The vendor would be required to accept the general conditions of contract given in the Standard Contract Document at **Chapter VI of DAP 20.**
- (f) <u>Integrity Pact (if applicable)</u>. An integrity pact is a mandatory requirement in the instant case (Refer Annexure I to Appendix O of Schedule I, Chapter II of DAP 20).
 - (i) Pre Contract Integrity Pact (PCIP). All vendors will be required to submit a PCIP for all procurement schemes above Rs 20 crores along with their technical and commercial offers. Earnest Money Deposit (EMD) will act as security for PCIP till signing of contract. Format of the PCIP is given at Annexure I to Appendix O of Schedule I. Format of EMD is given at Annexure I to Appendix O of schedule I to Chapter II. Post signing of contract, PCIP will be covered by PWBG till completion of contract.
 - (ii) EMD would be applicable as follows:-

Estimated Cost of Procurement Scheme (Rs Crs)		EMD Amount
Above (not including)	To (including)	
- (not including)	100	Nil
100	150	30 Lakh
150	300	70 Lakh
300	1000	2 Crore
1000	2000	5 Crore
2000	3000	10 Crore
3000	5000	15 Crore
5000	-	25 Crore

(iii) EMD is not required from Micro and Small Enterprises (MSEs) as defined in MSE Procurement Policy issued by Department of Micro, Small and Medium Enterprises (MSME) or are registered with the Central Purchase Organization or the concerned Ministry or Department or Startups as recognized by department of industrial policy & promotion (DIPP), in accordance with the ministry of finance memorandum bearing No. F.20/2/2014-PPD (pt.) dated 25 Jul 2017 (as amended from time to time). DPSUs are not required to submit EMD when nominated as abinitio single vendor. DPSUs will submit all BGs and EMD as applicable while participating in multi-vendor cases with private vendors.

- (iv) <u>Format of EMD</u>. The Bid Security may be accepted in the following forms, safeguarding the Buyer's interest in all respect:-
 - (a) Bank Guarantee from any Indian Public or Private Schedule Commercial Bank notified by RBI or first-class banks of international repute. The format of the Bank Guarantee for Bid Security is provided at Annexure I to Appendix O.
 - (b) Insurance Surety Bond The format and guidelines pertaining to the same shall be issued / notified by the Ministry of Defence.
 - (c) Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque shall be payable in an acceptable form. The Beneficiary Bank Details for furnishing the same are as follows:-

(IFSC CODE- SBIN0000691) State Bank of India New Delhi Main Branch C Block, 11 Parliament Street New Delhi, Pin: 110001

- (v) <u>Validity of EMD</u> The EMD will be valid for eighteen months or till signing of contract, whichever is later. The EMD shall be extended from time to time as required by the buyer and agreed by the bidder. No interest shall be payable by the buyer to the Bidder(s) on the EMD for the period of its currency. For unsuccessful bidders EMD will be returned on declaration of successful bidder(s).
- (g) <u>Performance-cum-Warranty Bond</u>. Performance-cum-Warranty Bond both equal to 3% value of the contract value is required to be submitted after signing of contract as per current PWBG rate promulgated by MoD. The amount of PWBG will be applicable as per the rate promulgated by MoD from time to time and in force at the time of tender submission.
- (h) <u>Indigenous Content (IC)</u>. The procurement of the Barges will be as per DAP 2020 and accordingly shipyards are required to submit the details regarding Indigenous Content(IC). The categorization for the procurement is intended to be under Buy (Indian IDDM). The Barges must meet the minimum IC parameters in accordance with Para 21 of Chapter 1 of DAP 20. The Shipyards to also comment on the categorization and IC content as per DAP 20. The category wise (less Strategic Partnership model cases) summary of IC as per cost of the **Base Contract Price (i.e. Total Contract Price less taxes and duties)** will be as under:

Ser	<u>Category</u>	<u>IC</u>
(a)	Buy (Indian-IDDM)	Indigenous design and ≥ 50%

PART-II

8. **Procedure for Response**

- (a) Vendors must fill the form of response as given in **Appendix B** (as per **Annexure II to Appendix A to Chapter II of DAP 20**) and **Appendix C** of this document. Additional literature on the design and construction of 300 Ton Sullage barge can also be attached with the form.
- (b) The Shipyard to submit separate enclosure clearly indicating compliance with the operational /technical specifications placed at Appendix A of this RFI. Non-Compliance to any of the parameters listed in Appendix A, has to be clearly indicated along with reasons.
- (c) Compliance/ acceptance to Paras 5, 6 and 7 at Part-I above are to be clearly indicated and certified in response. **Appendix D** should also be carefully filled and attached with the RFI response. Any other relevant additional literature or document on the Barge can also be attached with the RFI response form.
- (d) The duly filled RFI response should be dispatched to the under mentioned address:-

Cmde (Ship Production), Directorate of Ship Production 9th Floor, Chanakya Bhawan, Chanakyapuri, New Delhi- 110021

Tele: 011-26886427 Fax: 011-21610614 E-mail: dsp@navy.gov.in

- (e) Last date for acceptance of filled RFI response is <u>18 Aug 22</u> (08 weeks from uploading of RFI). The Shipyards short listed for issuance of RFP would be intimated based on Technical Capacity Assessment as per Appendix C to Chapter XII of DAP 20.
- (f) Shipyards, if required, can communicate to the project officer of DSP with below mentioned contact details for seeking clarification/information on the documents {like Navy Order (NO), Naval Construction Document (NCD)} mentioned in this document.

Lt Cdr (Ship Production) Directorate of Ship Production 8th Floor, Chanakya Bhawan, Chanakyapuri, New Delhi- 110021

Tele: 011-26886433 Fax: 011- 21610614 E-mail: dsp@navy.gov.in

- 9. The Government of India invites responses to this request from registered Indian Shipyards who qualify the criteria/willing to meet the criteria as enumerated below:-
 - (a) Financial Assessment Parameters as per **Annexure II to Appendix C** to Chapter XII of DAP 20.
 - (b) The shipyard should have been qualified by Technical Capacity Assessment as per Annexure I to Appendix C to Chapter XII of DAP 20 or willing to be assessed as per the aforesaid technical capacity assessment parameters.
- 10. The end user of the 04 x 300 Ton Sullage Barge is the Indian Navy.
- 11. This information is being issued with no financial commitment and the Ministry of Defense reserves the right to change or vary any part thereof at any stage. The Government of India also reserves the right to withdraw it, should it be so necessary at any stage. The acquisition process would be carried out under the provisions of DAP 20.

PART- III

Guidelines for Framing Criteria for Vendor Selection/ Prequalification in respect of 04 x 300 Ton Sullage Barge under Buy (Indian-IDDM) Category

12. The guidelines prescribed for short-listing/ pre-qualification of Indian vendors in case of shipbuilding cases are detailed in Chapter XII of DAP-20 and Financial Assessment Parameters as per **Annexure II to Appendix C to Chapter XII of DAP 20**. The relevant details are placed at **Appendix D**

OPERATIONAL/TECHNICAL SPECIFICATIONS FOR 04 x 300 TON SULLAGE BARGE

	SECTION A – GENERAL		
1	Aim & Functions	The Sullage Barge should be capable of receiving Sullage from ships and submarines alongside and at anchorage and discharge it at designated points. The Sullage may consist of contaminated POLs or bilge residues.	
2	General Remarks	 (a) The vessel is to be built as per IHQ MoD (N) approved Classification Society Standards (ABS/BV/DNV-GL/IRS/LR/NKK/RINA). A certificate is to be provided by the class confirming that Class Notations have been provided for all functional requirements indicated in RFP. It should be able to operate in extreme tropical conditions. Marinised SS to be used for all hull fittings on weather deck. (b) The barge should have tank capacity of approximately 300 tons for receiving sullage from ships/submarines. (c) The barge should have adequate pumping capacity, using diesel engine pumps installed on board, for receiving/discharge of Sullage. (d) The barge should be self-sufficient for receiving/pumping out Sullage. (e) The barge should have adequate fire fighting arrangements meeting class requirements. (f) The barge should have an expected life of 20 years, with a 	
		refit cycle of 03 years or more and an inter- docking interval of 05 years. (g) The barge should be MARPOL compliant as per IMO Regulation.	
3	Operational Cycle	The barge should be designed to follow an Ops-cum-refit cycle of 36 months of operations followed by a period of refit.	

4	<u>Dimensions</u>	The dimensions of the barge should be as follows:-	
		(a) Length overall - not exceeding 40 m	
		(b) Draught - Not more than 3 m	
		(c) Beam - As per design	
5	Sea State.	The barge should be able to carry out its functional role up to	
		Sea State 3 and operate up to Sea State 4 and survival as per approved Class/ IMO norms.	
6	Complement	The envisaged crew strength of the barge is five (05).	
7	Environmental Conditions	All equipment should be marinised and capable of performing under the following ambient environmental conditions:-	
		(a) Air Temperature - up to 45 °C	
		(b) Average Machinery - up to 55 °C Space Temperature	
		(c) Sea Water Temperature - up to 35 °C	
		(d) Relative Humidity - 95% condensation at 35 °C.	
8	Sullage Capacity	Approximately 300 tons (six tanks each of 50 tons capacity). The tanks should be designed to minimise free surface and provide adequate stability. Tanks shall be provided with facility for interconnection through remote operated rod-gear mechanism for opening/ closing.	
9	Misc Tank Capacity	Capacities for other tanks to be provided on the Barges are as follows: -	
		(a) <u>Fuel Tank</u> - 1000 Ltrs, arranged in two 500 ltrs interconnected Ready Use tanks.	
		(b) <u>Domestic Fresh Water Tank</u> - The vessels own requirements of fresh water shall be met by a 1000 Ltrs (SS Overhead tank). Refilling requirement of this tank shall be met from ashore and from onboard fresh water	
10	Ergonomics	The following guidelines to be followed to ensure ergonomics onboard: -	
		(a) The latest design concepts, with respect to ergonomics/ functional aspects and crew comfort, are to be adopted. 3D modeling using a suitable virtual reality tool/ software prior finalizing design is to be undertaken.	

- (b) Noisy equipment, such as air intakes, motors, pumps and converters are not to be fitted inside. Modular accommodation concepts are to be catered for, in accommodation areas and galley.
- (c) Design should allow easy accessibility to machinery/ equipment. Shipping *IN* and OUT routes for all equipment including galley equipment and stores, should be catered.
- (d) The doors, hatches and ladders are to be modern design, to ensure easy and safe closing/ opening and speedy movement of personnel and equipment/ stores within the barge.
- (e) Modular and ergonomically designed furniture should be fitted onboard using light weight composite (fire resistant) material. The furniture, accommodation and WC etc, chosen should be modular type.
- (f) Equipment is to be sited so as to cause least disturbance to crew in operational compartments and messes.
- (g) Areas and volumes of the various cabins/ compartments are to be iaw Class / MMD requirements and would be forwarded to IHQ MoD(N) for approval.
- (h) <u>Access and Closure</u>. All compartments, usable spaces and voids within the barge shall be provided with doors, hatches, scuttles and manholes, as appropriate, to afford the most convenient practical access. Wherever possible, machinery, piping, operating rods, brackets and other items that restrict passage or are sources of danger to personnel shall be kept clear of normal routes of access. Where such installation cannot be avoided, guards or protective padding shall be provided. Ladders should be so located that they facilitate easy closing of doors and hatches.
- (j) The clear deck head space should be at least 2060 mm post outfitting. No obstructions should be there in the passage way to enable swift and safe passage of men and material. Supporting handles are to be provided for personnel climbing out of compartment.
- (k) <u>Electric Hygiene</u>. Electric Hygiene of all compartments is to be iaw class regulations.

- (I) No opening should be obstructed by trunking, piping or any other outfitting.
- (m) Structural elements shall be arranged to avoid sharp scantlings and directional changes.
- (n) Where ever sloping ladders are fitted, landings are to be extended at least one meter from the head of the ladder.
- (p) The access route for storing and removal of stores and provisions is to be factored for easy handling of stores and provisions.
- (q) The typical features of the barge(s) design, layout and control of equipment and associated systems should ensure aspects of ease of usage, ergonomics and habitability.
- (r) <u>Pad Eyes</u>. Pad Eyes are to be provided in number, location and capacity as necessary for convenient and rapid handling of stores to and from storerooms.
- (s) The arrangement in Bridge and MCR, Pumping station should permit ease of movement of the operators and reduce the overall effort by the operators.
- (t) Crew spaces are to be air conditioned to maintained the temperature not more than 24° C.

11 <u>Design</u> Considerations

<u>Maintenance</u>. The following maintenance concepts are to be ensured: -

- (a) Onboard maintenance is to be simplified, with adequate maintenance envelope around equipment and system fittings.
- (b) Easy access to maintenance and dismounting ports.
- (c) Removal routes designed to facilitate the movement of systems and equipment not repairable onboard.
- (d) Modular replacement be considered to the maximum extent possible to perform corrective maintenance or repair actions.
- (e) The Repair by Replacement concept is to be ensured for onboard maintenance, while optimizing cost-effectiveness.
- (f) Compartment layout is to be optimised for ease of firefighting and accident prevention in general.

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		(g) Due attention is to be accorded to personnel mobility and escape routes, according to Classification Society rules.	
		(h) Pipe flanges / valves are not to be located over electric switchboard/ panels.	
		(j) Piping/ breathers from flammable liquids/ tanks shall not be located and must not have connections and/or flanges near hot components.	
		(k) Fire detection and alarm system according to Classification Society Rules shall be provided to detect a fire in the space of origin and minimize the risk.	
		(I) Fire-fighting nozzles shall be duly located having regard for the fire potential of the protected spaces and to be readily available.	
		(m) Materials of Buyer approved specifications are to be used for the barge, including fire retardant paints, curtains, and linings. Glass wool sandwiched laminated board are to be used for panelling / furniture. In general, the chosen materials should be compatible with the sea environment and shall be selected such that minimal corrosion would occur and galvanic corrosion is avoided.	
		(n) Adequate maintenance envelope iaw the OEM recommendation to be provided for each equipment system.	
		(p) <u>COTS Technology</u> . The Barge Should primarily incorporate COTS technology as per latest Naval Policy.	
	<u>s</u>	ECTION B - HULL & SEAMANSHIP	
12	Build	The vessel is to be built as per IHQ MoD (N) approved	
	<u>Specification</u>	Classification Society Standards (ABS/BV/DNV-GL/IRS	
		/LR/NKK/RINA). A certificate is to be provided by the class	
		confirming that Class Notations have been provided for all	
13	Hull Form	functional requirements. The barge will be a mono hull form construction (compliant to	
		latest MARPOL regulations and Class Rules) of proven design	
		either existing in service or a new design meeting all the	
		specified requirements.	

<u>Proven Design</u>. In case of a proven design existing in service, following reports are to be submitted by the Seller:-

- (a) Resistance report from Model Test (**or**) CFD Software Analysis (**or**) sea trial report and details of the barge(s) in operation with the design details. It is highlighted that Resistance performance report should clearly indicate all the envisaged appendages including Underwater Fendering. Accordingly, vessels in service should also have suitable Underwater Fenders and other appendages to be considered as a proven hull form. Seller will be required to confirm that no changes in the proven hull form / design will be required and same is to be clearly established along with documentation.
- (b) Report bringing out Seakeeping and Manoeuvring Criteria for deep displacement/ most critical condition from already model tested hull (or) sea trials (or) CFD Analysis (or) other established Numerical Methods.

<u>New Design</u>. In case of a new design, Resistance, Seakeeping and Manoeuvring criteria for the vessel should be proven though Model Test (**or**) CFD analysis (**or**) other established Numerical Methods in accordance with the latest version of NCD 0102.

The hull form should be of an efficient design to minimise Resistance and optimise Seakeeping and Manoeuvring parameters.

14 Green Ship Design.

Green ship design features and energy efficient hull and electrical/ electronics systems and other environmental friendly technologies such as under water noise reduction, LED lighting, waste heat recovery, pollution control etc to be incorporated on the barge(s) as per latest IMO standards. The indicative requirements pertaining to Green Ship design are enumerated below: -

- (a) Energy Efficiency Design Index (EEDI) Certificate.
- (b) Pollution control requirements to be certified by IAPP, IOPP, ISPP & EIAPP certificates.

		(c) Waste Heat Recovery Techniques (such as use of Turbocharger)	
		(d) Use of LED lighting.	
15	Construction Material.	The main hull and superstructure should be of all welded steel of IS 2062 specification of 2011 (Grade E250/ Quality BR with impact test required/ killed). Class approved material including fire retarding paints, curtains and linings are to be used for all areas, as per standards/ Rules specified by <i>IN</i> .	
16	Hull Construction/ Hull Strength	The design of hull and hull members should be undertaken as per Class rules for the assigned Class Notation applicable to meet the role of barge, except for aspects where <i>IN</i> requirements are specified. Structural analysis including Direct Strength Analysis (DSA) and Residual Strength Analysis (RSA) should be carried out to ensure that hull is designed for the area of operation for intact condition. The necessary structural analysis / calculation would be vetted by classification society. Survey during construction should be undertaken iaw approved QAP. NDT (X-ray, USG, dye penetration test etc) shall be carried out as per classification society norms. All structural bulkheads, decks, super structure, structural closures, mast, foundation etc should be as per class requirements. Additional design analyses, if required by Class rules, are to be undertaken, as applicable for the role of the barge.	
17	Plate &Thickness Scantlings	Adequate corrosion allowances are to be given for hull structure scantling and specified at the design stage. The corrosion allowances specified in classification society rules are to be provided. Plate thickness of less than five mm is not to be provided.	
18	Stability	The barge should satisfy requirements for both intact and damage stability condition as per IMO/SOLAS and Class Rules and should also comply with damage stability for two compartment requirements. The stability criteria requirements for the barges will be vetted and approved by class society. The stability booklet and documentation in compliance to class society rules to be submitted with the barge. The format of the stability booklet should be guided by NCD 0106, Issue 1.	
19	3D Modelling	3-D Model for the barge should be prepared by L1 shipyard using suitable 3D CAD modelling software with a provision to extract 2-D drawings. The 3-D model is required during detailed design and construction stages for compartment inspections by the <i>IN</i> reps/ WOT. The necessary software for	

		review at IHQ MoD(N) is to be provided by the Seller for regular review of design model.
		The seller shall provide the two dimensional view (Top and Elevation). The Seller shall also provide three dimensional model of the barge, with the feature to view the barge in a 360° facility as part of the Technical bid (soft version in Compact Disk) for appreciating the likely end product after delivery. The 3D model should have the provision to extract 2D drawings. The design submitted will be the basic frame work for further upgrading the design during the execution of the contract. The design submitted by the seller shall also be examined by the Technical Evaluation Committee. The seller shall submit the preliminary 3D model as part of technical bid and detailed 3D model can be submitted post signing of Contract.
20	Docking	The barge is to be docked once post launching/ floating out and prior to CST (if period between launching and CST is more than six months), post CST before the delivery of vessel for inspection, rectification of defects observed during sea trials, painting of U/W hull, fittings and appendages. Further, Guarantee Dry Docking (GDD) should be undertaken towards end of guarantee period.
21	Seamanship Fittings	(a) Anchor and Chain Cable. As per Classification Society requirement.
		(b) <u>Towing and Berthing Gears</u> . As per classification society requirement.
		(c) <u>Bollards/ cleats as per Class Requirements</u> . One set of bollards with fairleads each is to be provided at forward, midship and aft on port and starboard sides, for towing alongside. Three additional cleats/ stag horn each on port and stbd side are to be provided (for miscellaneous uses like securing fenders, etc).
		(d) Suitable towing arrangement is to be provided on the foxle for towing the barge.
		(e) Four sets of berthing hawsers for securing barge alongside are to be provided.

		(f) Awnings/ fixed shades for wheel house wings are to be provided.
		(g) A suitable light weight (length 10 ft.) aluminium alloy Load Tested Brow is to be provided.
		(h) Door and Hatch retaining catches for all hatches/doors is to be provided. Emergency escape hatches are also to be provided.
22	Rudder	A rudder is to be provided to ensure good maneuverability of the barge whilst towing. The size and material is to be as per Design Calculations/ Classification Society rules so that rudder stock is designed for the towing speed specified and to be operated upto 35 deg on P&S sides. The rudder is to be operated by means of conventional chain drive mechanism from the wheel house/ bridge. Rudders shall be of fully welded construction made of Class approved Steel, Rudder stocks will be of Forged Steel. Greasing arrangements from the weather deck to be provided.
23	Paint Scheme and Deck Covering	Paint Scheme & Deck Covering. Paint schemes are to be applied under paint manufacturers' supervision in accordance with undermentioned IHQ MoD (N) specifications / Navy Order on Paint scheme. The paint scheme for the barge will be as per following specification:-
		(a) Long life anticorrosive paint scheme in accordance with NCD 1481 (Issue 3 of 2011) is to be applied on external underwater hull. Antifouling paint scheme should be in accordance with IHQ(N) Policy NC/Policy/ H-140/Material dated 28 Aug 19.
		(b) Paints in Internal Spaces (Machinery bilges, voids) and Tanks are to be applied i.a.w NO 53/16, NCD 1491, Issue 1, 2011 and NC/Policy/H-139/Material dated 28 Aug 19. Fuel tanks are to be painted with OM-750 paints to be procured on OTE basis.
		(c) Exterior above water surfaces and decks are to be painted in accordance with latest NCD 1493 Issue 1, 2012 and 1437 Issue 3, 2008 respectively. Intumescent fire retardant paints conforming to NCD 1478, Issue 2, 2007 are to be applied in all offices and accommodation spaces.

		(d) Weather decks are to be painted in accordance with latest edition of NCD 1437, Issue 3, 2008.	
		(e) Paint scheme for any other area is to be guided by NO 53/16. Colour scheme, as per NO 53/16 to be provided.	
		(f) <u>Deck Covering</u> . Deck covering scheme in accordance with latest issue of NCD 3717 (NCD 3717 issue 4, Rev.1 of Oct 17) and NC/Policy/H-144/Material dated 21 Nov 19 in both dry and wet areas. The deck coverings shall be from IHQ MoD (Navy) nominated sources and shall be applied with "Self-Certification under Performance Guarantee".	
24	Mast	A suitable collapsible mast with manual hoisting and lowering system is to be provided to accommodate Nav lights, other fitments and minimum four halyards for hoisting of flag signals, Blue Ensign and dress overall flags.	
25	<u>Fendering</u>	Fitment of fixed D type rubber fendering all around the barge with non-marking type fenders/ sheath is to be provided. In addition, four portable light weight (sausage) fenders are to be provided. Fenders are to be of international standard conforming to class specification. Underwater fendering is also to be provided meeting Class requirements for operations alongside submarines.	
26	Ladders	Sloping ladders are to be fitted for access to Accommodation spaces, machinery Compartment and bridge. Vertical steel ladders shall be fitted in hold, peak compartment and other places as required i.a.w. Classification Society rules. Rungs shall be provided where it is not possible to provide sloping/vertical ladders and other locations where required.	
27	Domestic Arrangements	Deck of all wet spaces to have adequate slope for water	
	<u>Arrangements</u>	drainage.	
	·	C – ACCOMODATION AND HABITABILITY	
28	Accommodation.	(a) A cabin for the five crew members is to be provided along with seating arrangements.	
		(b) Three padded sleeping bunks are to be provided for the crew with an appropriate dining hall. Dining table with formica top and dining chairs as per classification society rules, wall mounted fans, mirrors, notice boards, two oil skin lockers, quartz clock and life belt stowage to meet MMD requirements	

		are to be provided. Dining hall should to have an attached scullery which is ergonomically designed for human comfort, with adequate arrangements to enable washing of utensils.
		(c) A suitable Water cooler with water purifier is to be provided in the dining hall.
		(d) One set of Separate WC and Shower for the crew is to be provided. Wash basin (SS Material) is to be provided in the Shower. Urinal and Indian style WC Commode are to be provided in the WC. The outlet of soiled/ affluent/ black water discharge is to be chemically treated as per current MARPOL Regulations. Separate deck drain for bathroom and WC cubicle is to be provided. Adequate natural ventilation is to be provided for bathroom and WC.
		(e) <u>Sanitary Arrangements</u> . Modern and efficient sanitary fittings are to be provided iaw Classification society rules.
29	Sanitary and Sewage System	Vessel should also have suitable Toilet System with efficient flushing/ drainage. The toilets/ WCs should be connected to suitable sewage treatment/ offloading provisions iaw MARPOL/ Class requirements, as applicable for these vessels. The STP compartments/ sewage tanks should have suitable H2S indicators and alarms. Sufficient air-flow/ ventilation should be provisioned for the STP compartment.
30	Fresh Water	(a) One overhead tank of 1000 litres capacity.(b) One suitable water cooler is to be provided with water purifier system.
31	Entertainment & Recreational Facilities.	One LED colour TV of 42 inch in crew accommodation is to be provided. A Direct to Home (DTH) cable TV facility for the TV set needs to be provided.
32	Medical Facilities	Four first aid boxes as per Class/ MMD requirements shall be provided, two in machinery compartment and one each at Bridge and crew accommodation space. In addition, two Neil Robertson stretchers with stowage facility are to be provided, one each in the crew accommodation space and wheelhouse.
33	Air Conditioning	Marinised Package AC Plant to be provided as per class requirements for all Living Spaces, Dining Hall and Bridge to achieve temperature of 24 deg C. The AC plant are to be provided with a local control panel supplied by the OEM catering for control and monitoring under all regimes of

		operation. In addition, COTS electric fan of suitable sizes from approved sources operating on 230 V AC are to be provided as per compartment size and required air flow.
34	Ventilation.	Suitable ventilation arrangement are to be provided as mentioned below: -
		(a) Machinery spaces and inverter room should have forced supply and exhaust ventilation as per Classification Society Rules.
		(b) Ventilation arrangement should be provided in all relevant spaces as per Class Rules.
		(c) WCs, galley and bath rooms should have forced supply and exhaust as applicable as per Class Rules.
		(d) Ventilation system is to be provided in crew spaces and battery compartment in accordance with Class Rules.
		(e) Adequate forced ventilation should be provided in cargo areas and battery charging space as per class requirement. Adequate ventilation is to be provided in accommodation, machinery and battery stowage spaces as per Class rule.
35	Life Saving Equipment.	Following Life Saving equipment are to be provided in compliance with <i>IN</i> and SOLAS requirements:-
		(a) <u>Life Buoy and MOB Markers</u> . Life buoys and MOB markers are to be provided on upper deck as follows, (location can be changed based on the barge design) iaw IMO/ SOLAS requirements:-
		(i) One Lifebuoy on foxle.
		(ii) One Lifebuoy each on either side at midship.
		(iii) One each lifebuoy with Man Overhead Light and Smoke Markers on both Bridge Wings and on Quarter Deck
		(b) <u>Life Rafts</u> . 1 x 20 men life raft.
		(c) <u>Life Jackets (GSLJs)</u> . 10 General Service Life Jackets of specification iaw NCD 3925
		(f) Hazardous Duty Life Jackets (HDLJs). 04 Hazardous Duty Life Jackets of specification iaw NCD 3926

36	Safety Equipment.	The following safety equipment are t	o be provided:-
	<u>Equipment</u> .	(a) Helmets - 04	
		(b) Ear Plugs - 04 P	airs
		(c) Hand Gloves - 15 F	airs
		(d) Anti-Splash Goggles - 04	
		(e) Dust Protector - 04	
		(f) Safety Harness - 03	
		SECTION D - ENGINEERING	
37	Main Machinery	(a) Four diesel driven fixed Sullage TPH with manual and remote starti pump are to be provided. The pump automatic cut off system of low level of control station for operating Sullage (RU) tank for diesel driven pumps, fithe RU tank is to be provided. Also with audio visual indicators/ alarms for for.	ng and stopping of each s are to be provided with of Sullage tank. A suitable pumps, diesel ready use lling and drain system for tank content level gauge
		(b) The Sullage pumps should be c discharge pipes/ fitments.	omplete with suction and
		(c) All DD pumps exhaust to be route and shall not hinder normal functioni	• •
		(d) Fuel stowage and supply arrangements be made for supplying of fuel to diesel driven salvage pumps and diesel driven fire pumps.	
		(e) Other auxiliary machinery/ equipment room as required.	
		(f) Any pump should be capable of Sullage from/ to any tank.	f pumping out/ receiving
		(g) Minimum 20 portable flexible Solength 20 ft each along with coupling The hose couplings should be complianted by the ships. Hose reels/ brackets for stow to be provided.	gs etc is to be provided. patible with those on <i>IN</i>

		 (h) A combined sullage filling, transfer and discharge system be provided with adequate number of isolating valves to facilitate each operation simultaneously. Tanks are to be provided with facility for interconnection through remote operated rod-gear mechanism for opening/ closing. (j) Tanks content gauges with audio visual alarm for 95 % filling up for each Sullage tank and RU tank are to be provided. Tank manhole covers are to be provisioned iaw Safety/FOST/SS/2013/05 Tank Manhole Covers dated 24 Apr 20.
38	Portable Pumps.	4 x 40 TPH portable pumps (two DD pumps and two motor driven submersible pumps) are to be provided along with suction and discharge hoses with strainer, coupling, starter and all other accessories. Out of four pumps, two are to be utilised as salvage pumps and two as FF pumps.
39	Fire Fighting and Damage Control.	The following fire fighting appliances should be positioned:- (a) Portable extinguishers - 9 Itr AFFF (Not less than 05) and 2 Kg CO ₂ Extinguisher (Not less than 05) at suitable locations with securing arrangements. (b) FB 5X foam gun with AFFF solution in vicinity of fuel tank. (c) Flexible firefighting hoses for taking water supply from Fire pumps, submersible pumps or cargo pumps for firefighting. (c) Fire fighting & damage control appliance is to be as per approved classification society rules and the IMO regulation. Lockers are to be provided for stowage of Items. (d) Six in number Emergency Life Saving Apparatus (ELSA) along with suitable securing arrangements are to be provided. (e) Fire alarm system is to be provided in all compartments. Flood alarm system is to be provided in all under water compartments. A centralised monitoring panel is to be provided in bridge. (f) Fire main ring and adequate numbers of fire hydrants are to be provided with provision for shore connection on either side (port & stbd). (g) Adequate Eductors (using fire main) for pumping and stepping up of sullage tasks is to be provided.

SECTION E - ELECTRICAL

40 Power Generation and Distribution System.

General. All the electrical equipment and machinery and associated systems shall be explosion proof and conform to Marine Standards and Classification Society rules.

- (a) <u>Power Supply Requirements</u>. Following types of main power supplies with quality as per classification society rules are to be provided with Main Switch Board and primary and secondary controls for sections/ compartments:-
 - (i) 415 V, 50Hz, 3 Phase, 3 wire (Main Supply).
 - (ii) 230V AC, 50Hz, 1 Phase, 4 wire for domestic and portable equipment.
 - (iii) 230V AC, 50HZ, 1 Phase, 2 wire for lighting, communication and navigation system.
 - (iv) 24V DC as required for equipment/ system fit on barge
- (b) Standard COTS inverter conforming to Classification Society of sufficient capacity capable of meeting maximum electrical load with suitable maintenance free fire retardant VRLA batteries is to be provided for the electrical consumers (lights, fans, Nav lights etc). Watertight charging points for charging the batteries using 230V, 50Hz, 3/1 phase shore supply are to be provided on port and stbd sides of super structure. The batteries on full charge should be able to hold full load for at least eight hours. Relevant safety indications are to be provided for monitoring of batteries.
- (c) <u>Emergency Lighting</u>. 24V DC supply is to be made available for 24V light fittings installed at suitable locations for crew movement during the inverter failure. The supply could be obtained from batteries for inverter.
- (d) <u>Shore Supply Arrangements</u>. Watertight shore supply connection boxes (IP 57) of 415V, 3 phase, 50 Hz should be fitted on weather deck at an appropriate position on both Port & Stbd sides. The shore supply box should be connected by permanent cables to the switchboard and should have suitable terminals for connecting flexible cables. A reel for stowing the flexible cable of 100 m length is to be provided and suitably located on the weather deck for shore supply. The shore supply cable roller is required to be provided with carbon

brushes for incoming cable for easy releasing of the cable. A phase changeover switch and phase sequence indicator shall also be provided. Two sets of Shore supply cable of 100 m length are to be provided for each barge.

- (e) <u>Battery Charger</u>. A suitable battery charger conforming to Classification Society regulations, using 415V 3 Phase supply as input supply (shore supply) is to be provided to facilitate charging of 24V batteries. The battery charging compartment should be adequately ventilated.
- (f) <u>Distribution Board/Navigation Light Panel</u>. It should be designed for control and distribution of 230V, 1Ph. 50Hz.
- (g) <u>Cables</u>. Cables for all lighting, power, shore supply and equipment will be (Electron beam Cross Linked (EBXL) irradiated Cables as per as per latest Classification Society Rules and Standards and should be routed through metallic fire proof conduits. Cables are to be routed so that sufficient clearance exists from the ship's side to prevent risk of damage when going alongside and to allow reasonable access to the vessel's trunkings, the cables shall be closest to the deck head. Buyer approved cable/ pipe glands to be provided with capacity to take 20% growth margin.
- (h) <u>Lighting</u>. The barge should be provided with following lighting conforming to classification society norms/ specifications: -
 - (i) General illumination shall be achieved with marine type LED light fitting as per latest Classification Society Rules and Standards.
 - (ii) Navigational and signal lights as per IRPCS 72 and navigational light conforming as per latest Classification Society Rules and Standards.
 - (iii) The weather deck should have four in numbers 500 Watt water and spark proof flood lights capable of being powered by external power source. The flood lights should have a provision for angular movement both horizontally and vertically with position locking arrangement.
 - (iv) LED based Flame proof luminaries are to be used in the barge as per Classification Society Specifications.
 - (v) Emergency lights.

		(vi) Search & Signaling lights.
		(vii) Six hand lamps.
		(i) Portable DA. A portable DA of minimum 20 KVA capacity or as per the design to meet the complete electrical load of the Barge with compatible power rating prime mover shall be provided in accordance with classification society requirements.
	SECTION	F - NAVIGATION AND COMMUNICATION
41	Navigation Light	To be provided as per latest International Regulation for
		Prevention of collision at Sea - 1972. The lights shall have a control panel fitted inside the bridge with fault indication available.
42	Magnetic Compass	One Magnetic Compass is to be provided on the bridge.
43	Audio Signaling Equipment	<u>Siren</u> . One in No. Electric Siren to be provided.
	<u>=qp</u>	Fog Horns. Two electric fog horns are to be provided as per
		classification society requirement on top of the wheel house with local operating controls and provision for remote
		operations from the bridge.
44	Visual Signaling Equipment	One in no. 5" COTS hand signaling lantern with stowage box to be provided.
45	Broadcast	A Main Broadcast system as per class regulation should be provided. The broadcast system should be audible on upper deck and in all compartments (for general and emergency announcements).
46	Sound Reproduction Equipment (SRE)	A SRE fitted with an All Wave Rx and suitable amplifiers, is to be provided. The SRE is to be provided with a DVC/CD/USB Sound Reproduction Equipment, integrated with the SRE System. The SRE should be provided for living spaces, dining hall and bridge. Suitable selector switch to isolate the spaces to be included in the system.
47	Communication.	One latest VHF MMB Tx / Rx set (with spare battery) complying with DSC (25W) IMO regulations for GMDSS is to be provided.
		Two VHF hand held radio sets (Motorola GP 338 or latest version or any equivalent model from any reputed OEM

		approved by <i>IN</i>) with one each battery charger, spare battery and water proof pouch to be provided.
48	Central Control Alarm & Safety Systems	Adequate audio and visual alarms & safety system for Smoke and Flood alarm to be provided as per approved classification society rules.
49	Safety, Escape Evacuation Arrangement	The craft should meet all safety, escape and evacuation arrangements as per class regulations and IMO requirements as applicable for passenger craft operating within the harbour limits.
		SECTION G - MISCELLANEOUS
50	<u>Furniture</u>	Modular furniture from a reputed OEM, is to be provided.
51	<u>Panelling</u>	PVC coated sheet steel and pre insulated Sandwich should be used for panelling of Accommodation space, cabin spaces, alleyways, Messes etc.
52	Weather covers.	Two sets of light weight waterproof PVC coated nylon fabric shall be supplied for all weather deck fittings, openings and machinery/ items.
53	Documentation	Complete inventory of spares and the relevant documentation of equipment and machinery is to be provided in hard and soft copies in CD. Drawings/ Documentation for all equipment and systems shall be supplied by Seller/ vendors in Interactive Electronic Technical Manual (IETM) Level 4 format or above for Hull, Engineering and Electrical respectively. 'Shipfit' and as fitted drawings, maintenance, repairs and refit documents, Catalogue of spares <i>I</i> D 787 for OBS and B&D inventory, are to be provided along with the Barge.
54	<u>Photographs</u>	Photographs of size above 200 mm x 150 mm of the barge after completion are to be supplied. In addition, two albums and a CD of minimum 300 photographs of important arrangement, layouts, equipment and machinery are to be supplied by the seller in JPEG format.
55	<u>Certificates</u>	The maker's test / calibration certificates are to be supplied for the applicable equipment and associated instrumentation. The following certificates/ documents, as applicable, are to be submitted at the time of delivery of the barge: - (a) Classification certificate.

		(b) International Load Line Certificate obtained from					
		Classification Society.					
		(c) Tonnage Measurement Certificate obtained from Classification Society.					
		(d) Builder's Certificate.					
		(e) Test Certificates for Anchors and Chain Cables by Classification Society.					
		(f) Certificates issued by Regulatory Authorities for Magnetic Compass, Radio Telephone etc.					
		(g) Stability Booklet: Containing intact and damage stability as applicable.					
		(h) Makers Test Certificates as applicable shall be supplied for major Machinery / equipment. One set of all the certificates are to be supplied to Overseeing Team one month before the date of preliminary trials.					
		(j) Load testing certificates, as per OEM Specifications and Class Rules to be provided.					
		(k) Ships Data Book.					
		(I) D 787					
		(m) Hull Data Book.					
		(n) International Sewage Pollution Prevention Certificate (ISPPC).					
		(p) Any other document/ certificate as per Class Rules.					
		(q) International Oil Pollution Prevention Certificate.					
		(r) Damage Control Plan.					
		(s) Fire Control and Safety Plan					
		(t) List of Operational Limitations.					
56	Facilities for	Necessary furnished air conditioned office space with					
	Overseeing Team	associated office support arrangements and transport shall be provided to the overseer and representative of the Buyer till					
		completion of all Contractual liabilities/ obligations.					
57	Training	Training is to be imparted to the crew of the Barge and maintainers, by the OEM/ OEM reps / seller, for the operation and maintenance of machinery and equipment installed onboard.					
<u> </u>	1	Page 26 of 37					

58	Project Monitoring Onboard and	The latest techniques of Project Monitoring are to be employed by the Seller to ensure phased and planned construction of the Barge(s). The plan and progress of the project including all the correspondence, drawings and documents shall be available online for exchange. A comprehensive application for exchange of information with all agencies like IHQ MoD(N), Seller/ Shipyard, Overseeing team, etc., shall be made available by the Seller. The seller shall ensure supply of onboard spares for all main
	Outfit Spares	equipment, consumable items like lamps, fuses, relays, gaskets, etc., sufficient for scheduled servicing & maintenance of all electrical, engineering and hull equipment for a duration of 02 years.
60	Noise & Vibration	Noise and Vibration standards are to be met as per Classification Society rules and standards.
61	B&D Spares	B&D spares for 5 years usage from the respective makers of equipment to be provided within a month of placement of order
62	Product Support	The Bidder would be bound by a condition in the contract that they would be in a position to provide product support in terms of maintenance, materials and spares for a minimum period of 20 years and 10 years for electronic items. Towards this the Bidder is to obtain contractual commitments from the various equipment manufacturers/ vendors to provide product support for the said period from the date of delivery of the Barge(s) at the Buyer's designated Naval base port. Even after the said mandatory period, the Bidder would be bound to give at least 2 years notice to the Buyer prior to closure of the said production line, to assess the requirement of life time buy of all spares before closure of the said production line. This said aspect would also form an integral part of the Contract. This, however, shall not restrict the Buyer from directly sourcing sub-equipment/sub-assembly and spares from their respective OEMs/sub-vendors on completion of warranty. In case the sub-equipment/sub-assembly/parts require tuning/calibration/integration by the Bidder prior replacement, the same is to be undertaken by the Seller at fair and reasonable cost.
63	Material Specifications	Material specifications of various systems are placed at Annexure I to Appendix A.

Annexure A to Appendix A

(Refers to Para 67 of Section 'G' of Appendix A)

RECOMMENDED MATERIAL SPECIFICATION FOR 04 X 300 TON SULLAGE BARGE

<u>Ser</u>	<u>System</u>	<u>Description</u>	<u>Material</u>
1.	Fresh Water	Pipes	Copper/ SS 316L
	System	Fittings	GM to BS 1400 LG 4C/ SS to AISI 316
		Flanges	GM to BS 1400 LG 4C/ SS to AISI 316
		Fasteners	-
		Valves	GM to BS 1400 LG 4C/ SS to AISI 316
2.	Sea Water	Pipes	90/ 10 CU-Ni
	System	Fittings	NAB as per NES 747 Part II
		Flanges	NAB as per NES 747 Part II
İ		Fasteners	Aluminium Bronze as per NES 837 Part II
		Valves	NAB as per NES 747 Part II
3.	Deck Scupper Drain	Pipes	MS(Galv) Pipe as per ASTM A 106 Gr. B
		Fittings	MS(Galv) Pipe as per ASTM A 234M WPB
		Flanges	BQ Plate to IS 2002/ Steel to IS 2062
		Fastener	Steel (Galv) Dimension as per IS 1364 Material as per IS 1367 Bolt grade 8.8 Nut grade 8
		Valves	Carbon Steel (Galv) ASTM A 216 Gr WCB/ A 105
4.	Greywater	Pipes	MS(Galv) Pipe as per ASTM A 106 Gr. B
		Fittings	MS(Galv) Pipe as per ASTM A 234M WPB
		Flanges	BQ Plate to IS 2002/ Steel to IS 2062
		Fastener	Steel (Galv) Dimension as per IS 1364 Material as per IS 1367 Bolt grade 8.8 Nut grade 8
		Valves	Carbon Steel (Galv) ASTM A 216 Gr WCB/ A 105
5.	Blackwater	Pipes	STP Discharge Cu-Ni 90/10 Balance BW lines Galv Steel
		Fittings	STP Discharge Cu-Ni 90/10 Balance BW lines Galv Steel
		Flanges	STP Discharge GM to BS 1400 LG4C Balance BW lines : BQ Plate to IS 2002/ Steel to IS 2062
		Fastener	Steel(Galv) Dimension as per IS 1364 Material as per IS
			1367 Bolt grade 8.8 Nut grade 8/ Stainless Steel.
		Valves	STP Discharge: GM to BS 1400 LG4C Balance BW lines: Carbon Steel.
			IIIIES. CAIDUII SIEEI.

VENDOR INFORMATION PROFORMA

1. Name of the Vendor/ Company/ Firm and Unique ID (if any).

(Company profile including Share Holding pattern, in brief, to be attached. In the eventuality of the firm emerging as L1, Contract will be concluded in the name and address of the firm, as indicated here). Vendors are to undertake that any subsequent proposal for change in name of firm or address, will be intimated to IHQ MoD(N) at the first available opportunity and supporting documents be furnished accordingly within five working days of their approval by the competent authority.

2.	Type ((Tick the	relevant	category	/) .

Original Equipment Manufacturer (OEM) Authorised Vendor of foreign Firm Others (give specific details)	Yes/ No Yes/ No (attach details, if yes)
3. Contact Details.	
Postal Address:	
City:S	tate:
Pin Code:Tele	:
Fax: URL/Web \$	
Email:	
4. Local Branch/ Liaison Office in Dell Name & Address:	
Pin code:Tel :	
5. <u>Financial Details</u> . Category of Scale):	Industry (Large/ medium/ small
6. Certification by Quality Assurance	<u>Organisation</u> .
Name of Agency Certifi	cation Applicable Valid till

(Date &Year)

from (Date &Year)

7. <u>Details of Registration.</u>

<u>Agency</u>	Registration No.	Validity(Date)	Equipment
DGS&D			
DGQA/DGAQA/			
DGNAI			
OFB			
DRDO			
Any other			
Government			
Agency			

		ne of Organization:nbership Number :
9.		ipment/ Product Profile (to be submitted for each product separately)
	(a)	Name of Product :
	(b)	Description (attach technical literature):
	(c)	Whether OEM or Integrator :
	(d)	Name and address of Foreign collaborator (if any):
	(e)	Industrial License Number :
	(f)	Indigenous component of the product (in percentage):
	(g)	Status (in service / design & development stage):
	(h)	Production capacity per annum:
	(j) quar	Countries / agencies where equipment supplied earlier (give details of ntity supplied):
	(k)	Estimated price of the equipment

10. docun	Alternatives for meeting the objectives of the equipment set forth in the nent.
11.	Any other relevant information:
12.	<u>Declaration</u>
	(a) It is certified that the above information is true and any changes will be intimated at the earliest.
	(b) It is certified that in the past that(name of firm) has never been banned/debarred for doing business dealings with MoD/ Gol/ any other Government Organization and that there is no inquiry going on by CBI/ED/any other Government agency against the firm.
	(Authorised Signatory)

ADDITIONAL INFORMATION PROFORMA (INDIAN SHIPYARDS)

1.	Year	Established							
2.	Type Yard	Type of Organisation size/Classification of Yard							
3.	•	nisation setup and availability of skilled power							
4.	faciliti	Details of design, planning and production facilities/infrastructure including slipways/							
	_	ocks and wet ures etc.)	basin/wate)	oni (allach				
5.		al build capac	itv (in tonn	age	e)				
6.	Detail	ls of future e	expansion		-				
7.	Vesse	ssels delivered in last 05 years. (attach evious order copies for 300 Ton Sullage rge/Similar Vessel only)							
	<u>Yard</u>	Customer	Type of vessel		<u>Dwt,grt</u>	Order date	Start production	Contractua I delivery	<u>Actual</u> <u>delivery</u>
8.	Order	s in hand (atta	ach order o	cop	ies for simila	ar ships/	crafts only)		
	<u>Yard</u>	<u>Customer</u>	Type of		Dwt, grt	<u>Order</u>	<u>Start</u>	<u>%</u>	Expected
			vessel			<u>date</u>	production	<u>completed</u>	delivery
9		l cial informati ors and in l ors)	•						
	(a)	Annual turn							
	(1.)	financial year		se)					
	(b)	Profits made							
	(c)	Net Worth =		ser	ves				
	(d)	Debt/Equity r		+ o	ocoto long				
	(e)	term debts)/d	`		•				
	(f)	Attach copie annual report financial state information	s of certif	fied tui	published rnover and				
		miomation							

10	Detailed specifications of 300 Ton Sullage	
	Barge offered to meet the specified	
	requirements and build period from date of	
	order	
11	Detailed specifications of commercially off	
	the shelf (COTS) 300 Ton Sullage Barge if	
	available for outright purchase, if any	

(Authorised Signatory)

GUIDELINES FOR FRAMING CRITERIA FOR VENDOR SELECTION/ PREQUALIFICATION IN RESPECT OF 04 X 300 TON SULLAGE BARGE UNDER BUY (INDIAN-IDDM) CATEGORY

1. The guidelines prescribed for short-listing/ pre-qualification of Indian vendors in this instant case of 04 x 300 Ton Sullage Barge under Buy (Indian-IDDM) category is enumerated in the succeeding paragraphs. **Paragraph 2** deals with the parameters that may be considered for short-listing of vendors, whereas **Paragraph 3** amplifies the process for applying selected parameters to the process of Vendor Short listing.

2. Parameters.

(a) General Parameters.

- (i) Applicant Entity should be an Indian Vendor as defined at Paragraph 20 of Chapter I of DAP 2020.
- (ii) Business dealing with applicant Entity or any of its allied entities should not have been suspended or banned, by MoD/ SHQ or any Government Department or organization (as defined in Guidelines for Penalties in Business Dealings with Entities issued vide Ministry of Defence, D(Vigilance) MoD ID No 31013/I/2006-D (Vig) Vol II dated 21 Nov 2016). None of the Promoters and Directors of applicant entity should be a wilful defaulter.
- (iii) "Entities" will include companies, with whom the Ministry of Defence has entered into, or intends to enter into, or could enter into contracts or agreements.
- (iv) "Applicant entity" may be a company, subsidiary, an associate company (as defined in the Companies Act, 2013), a consortium or a Joint Venture (JV).

(b) <u>Technical Parameters</u>.

- (i) Vendor shall be a manufacturing entity or a system integrator of defence equipment and not a trading company, except in cases where the OEM participates only through its authorised Vendors.
- (ii) Minimum two years' experience in broad areas like manufacturing/ electronics/ explosives etc. as applicable in the instant procurement case. If not, then cumulative experience of at least three years in above areas, resulting in gaining of competence for manufacturing the proposed product. (In case the SHQ feels that for a particular equipment a lesser experience could be accepted, then the same should be got approved by the competent authority before including the same in the RFP).

(iii) Where product involves integration, previous experience of not less than one year/ one project in integration of systems/ equipment shall be required.

(c) **Financial Parameters**.

For RFI of Shipbuilding cases (acquisition of ships, Yard crafts & submarines), financial parameters stipulated at Annexure II to Appendix C, Chapter XII, DAP-20 shall be followed.

(d) Other Parameters.

- (i) <u>Industrial License (IL)</u>. Vendors should be either holding a valid defence industrial license or should have applied for the same before responding to RFP. In any case the vendor must confirm holding of IL before commencement of FET. (Items requiring IL will be as per DIPP Press Note 3 of 2014 as amended from time to time).
- (ii) <u>Registration</u>. Registered for a minimum of two years (one year for SMEs). Minimum number of years not applicable for JVs constituted specifically for a project.

3. **Stipulations for Applying Parameters**.

- (a) Areas like manufacturing/ electronics/ explosives etc. referred at Paragraph 2(b)(ii) should be defined in each case of procurement.
- (b) In case the Applicant Entity is unable to meet the Financial Parameters by itself, it may rely on its **Holding Company** (as defined in the Companies Act, 2013 and amendments thereof) ("Companies Act") for fulfilment of the Financial Parameters, in which case reliance must be placed on the Holding Company towards fulfilment of **ALL** the Financial Parameters.
- (c) In case the Applicant Entity is unable to meet one or more of the Technical Parameters by itself, it may rely on a Group Company (ies) for fulfilment of the Technical Parameters. A Group Company in relation to the Applicant Entity may be:-
 - (i) A company of which the Applicant Entity it is an Associate Company. Such company should have ownership, directly or indirectly, of at least 26% of the voting shares of the Applicant Entity.
 - (ii) A company which is an Associate Company of the Applicant Entity. The Applicant Entity should have ownership directly or indirectly, of at least **26%** of the voting shares of such Associate Company.
 - (iii) A Company with whom the Applicant Entity is commonly owned, directly or indirectly, for at least **26%** of the voting shares by another company. For example: An Applicant Company A is an Associate Company of Company B, in which B holds at least 26%. Further, C is also an Associate Company of B, in which B holds at least 26%. In this case the Applicant Company may use the credentials of C as well.

- (iv) The Holding Company and Subsidiary Companies (as defined under the Companies Act) of the Applicant Entity.
- (d) The Applicant entity may be a single entity or a group of entities (the "Consortium"), coming together to implement the project. In such case:-
 - (i) The credentials of only those members or their related entities may be counted, who have at least **26%** equity stake in the Consortium.
 - (ii) Each Consortium should have a designated Lead Member.
 - (iii) For Technical Parameters, any of the Consortium members or their Group Companies may meet the criteria.
 - (iv) For Financial Parameters; the Turnover and Net Worth of the Consortium Member shall be reckoned **proportionate to Consortium Member's equity stake** in the Consortium, and each Consortium member should meet the other criteria pertaining to Insolvency and Credit Rating. In case the Consortium Member relies on its Holding Company for any one of the above-mentioned Financial Parameters, then reliance must be placed on the Holding Company for meeting **all the financial Parameters**.
- (e) Vendors should provide all necessary self-authenticated documentation in support of their achievement of criteria. Such documentation should inter-alia include:-
 - (i) Details of projects/ supply orders successfully executed in the last two years.
 - (ii) Annual reports for three years of applicant entity, parent and associate companies, consortium and JV partners.
 - (iii) Details of shareholders, promoters, associated, allied and JV companies.
 - (iv) Details of vigilance action, viz. ongoing investigation and suspension/ debarment/ blacklisting actions against the applicant entity or any of its allied entities, parent company or consortium and JV partners, if any by any Department/agency of Central Government.
 - (v) A certificate from CA/CS indicating the financial parameters for the last three years as per Paragraph 2(c).

(**Note**: If a vendor is already a supplier to MoD and/ or has already provided the above documents in such cases, it should be necessary for the vendor to resubmit only such documentations as is necessary to update the above).

(f) Any vendor furnishing false information will be liable for action as per existing guidelines.

- (g) Based on these generic parameters, more specific criteria should be evolved by the SHQ with regard to Technical and Financial parameters {Paras 2(b) and 2(c) above} in each procurement case depending upon requirements peculiar to each case keeping in view the overall need to ensure wider vendor participation. The specific criteria evolved by the SHQ for each case, as per these guidelines, may be got approved by the competent authority before including the same in the RFPs.
- 4. The criteria for vendor selection shall be clearly stipulated in RFPs so as to maintain transparency. Care shall be taken to ensure that the stipulated criteria are not open to subjectivity and arbitrary interpretation.