

Sub : Fabrication and delivery of 1 no. self-propelled barge (excluding fabrication of bullets) for transportation of Liquefied Ammonia Gas (LAG)

Following points are issued as replies to Bidders queries.

SI. No.	Bid Document.	Page No	Clause No	Referred clause	Query	Clarification / Reply by FACT
1	Schedule Q- Special conditions of contract	6 of SCC	4.2.6	Preparation of detailed design, construction drawings and BOM. All drawings & design calculations shall be appraised by CUSAT prior to submission for Classification Society approvals.	Whether the basic design including hull form, lines plan etc, will be provided to shipyard as the scope of work is indicated as detailed design only.	The documents provided with the Bid are preliminary and indicative in nature. Basic design of the barge is in contractors scope. The dimensions and scantlings could be optimised which satisfying FACT/FEW requirements (speed, breadth/draft restriction etc. The engine power shown is indicative and the contactor has to come up with powering calculations. The plate scantlings also has to be calculated by the contractor however has to adhere to the minimum thickness requirement by FACT/FEW above class requirements, at bottom and other areas mentioned
2	Schedule Q- Special conditions of contract	7 of SCC	4.2.14	Assembly/mounting of piping, fittings and valves on to the barge as per FEDO PID, which will be issued at the time of placing work order. Piping, fittings and valves shall be supplied by FEW. However, the necessary site jointing of pipe sections shall be in the scope of the contractor	As the procurment of pipes and pipe fittings of bullet were not included in shipyards scope, please confirm whether this is including of external pipings and pipe fittings related to bullet.	All pipes and pipe fittngs related to the bullets shall be supplied by FACT/FEW. Installation, assembly and site welding of the same shall be in the scope of contractor.
3	Schedule Q- Special conditions of contract	6 of SCC	4.2.3	The four numbers of bullets with a combined capacity of 350 MT and its associated piping will be supplied by FEW to the contractor for mounting against BG.	Who will be responsible for the transportation of bullets from FACT to shipyards premises? Who will bear the insurance, eway bill and transportation charges.	FACT shall supply the bullets, pipes and pipe fittings related to the bullet directly to the shipyard. The insurance, e way bill and transportation charges shallbe borne by FACT/FEW.The preservation and installation of the bullets will be in contractors scope
4	Schedule Q- Special conditions of contract	7 of SCC	4.3.3	Assistance in obtaining of Plan approvals by statutory/classification society(e.g. IRS). Fees for design/plan approvals by Classification Society shall be borne by FEW.	It is understood that all the classification charges will be paid by FACT. Please confirm.	It is confirmed that the all the classificaion charges shall be borne by FACT/FEW.

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5	Technical Procurement Specification- 32472-02-PS-003	13 and 61 of TPS	1.8.3 and 9.1.1.9	The painting scheme, surface treatment and paint application shall be in accordance with the recommendations of the paint Maker and be suitable for a three (3) year period between dry dockings. Service life certificate of paint from paint manufacturer, for a validity of minimum 60 months. The name of the vessel and period of paint application should be mentioned in the certificate	The painting scheme, surface treatment and paint application shall be in accordance with recommendation of paint maker and be suitable for a three year period between dry dockings, and the same is contradicting with thPg 13 of TPS(Service life of paint from paint manufacturer for a validity of minimum 60 months).	Paint application shall be suitable for minimum 5 year period between dry dockings.
6	Technical Procurement Specification- 32472-02-PS-003	36 of TPS	4.12.4 OF TPS	Where galvanising is specified, this shall be hot dipped and carried out after fabrication.	Can galvanised steel ERW class C pipes be used directly for the fabrication of pipes as they are readily available in market. Since this can avoid hot dip galvanising time post fabrication.	Pipes shall be hot dip galvanised before application.
7	Technical Procurement Specification- 32472-02-PS-003	31 of TPS	4.3.4 of TPS	Valve name plates of SS shall be fitted to the valves on handle or other suitable place. Name plates shall be in English.	The name plates of valves etc. are to be of SS. Can SS 304 be used.	SS 304 can be used.
8	Schedule Q- Special conditions of contract		4.1.3 of SCC	In the event that there is any item of EQUIPMENT or WORK of the type provided for in CONTRACT, which is not specifically mentioned in the specifications or drawings set out in FINAL PROPOSAL, but which is necessary (even though not mentioned in CONTRACT) for normal, safe and continuous operation, based on mutual agreement between OWNER and CONTRACTOR, CONTRACTOR shall include such item of EQUIPMENT in the design and perform such items of WORK, for such EQUIPMENT or WORK free of cost to OWNER as if the same had been originally included in its Scope of Work/FINAL PROPOSAL.	Kindly clarify normal, safe and continuous operation.	Equipment or works for normal, safe and continuous operation as recommended by class/statutory authorities is to be provided.

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9	Schedule Q- Special conditions of contract	6 of SCC	4.2.6 of SCC	Preparation of detailed design, construction drawings and BOM. All drawings & design calculations shall be appraised by CUSAT prior to submission for Classification Society approvals.	Is it necessary to get approval from CUSAT before submission of the drawings and calculation to classification agency.	CUSAT is FACT/FEW 's technical consultant. The design calculations, class and working/production drawings, interface information etc shall be sent parallelly to CUSAT and classification agency inorder to save time.
10	Schedule Q- Special conditions of contract	7 of SCC	4.2.20 of SCC	Two weeks basic on board training in maintenance and operation shall be provided to FACT personnel.	Will FACT provide the travel, lodging expenses of training personnel or is it in the scope of shipyard.	FACT/FEW shall provide the travel, lodging expenses of the trainees(max 6 nos. a batch).
11	Schedule Q- Special conditions of contract	6 of SCC	4.2.6 of SCC	Preparation of detailed design, construction drawings and BOM. All drawings & design calculations shall be appraised by CUSAT prior to submission for Classification Society approvals.	Does Basic Design includes drawings of scantlings, hull etc.	The documents provided with the Bid are preliminary and indicative in nature. Basic design of the barge is in contractors scope. The dimensions and scantlings could be optimised which satisfying FACT/FEW requirements (speed, breadth/draft restriction etc. The engine power shown is indicative and the contractor has to come up with powering calculations. The plate scantlings also has to be calculated by the contractor however has to adhere to the minimum thickness requirement by FACT/FEW above class requirements, at bottom and other areas mentioned
12	Schedule Q- Special conditions of contract	6 of SCC	4.2.3	The four numbers of bullets with a combined capacity of 350 MT and its associated piping will be supplied by FEW to the contractor for mounting against BG.	Will the bullets be transported by the contractor or by FACT.	FACT/FEW shall supply the bullets, pipes and pipe fittings related to the bullet directly to the shipyard. The insurance, e way bill and transportation charges shall be borne by FACT/FEW. The preservation and installation of the bullets will be in contractors scope
13	Schedule Q- Special conditions of contract	7 of SCC	4.2.14	Assembly/mounting of piping, fittings and valves on to the barge as per FEDO PID, which will be issued at the time of placing work order. Piping, fittings and valves shall be supplied by FEW. However, the necessary site jointing of pipe sections shall be in the scope of the contractor	Kindly confirm whether the pipes and pipe fittings provided should be installed before mounting the bullets or after.	The pipes and pipe fittings provided is to be installed/assembled after mounting of bullets.
				The Tenderer may visit the job site and		Construction of Barge shall be at Contractor's yard. Vide these general instructions, the Bidder is

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14	Instruction to Bidders	1(xiii)	2	acquaint himself fully of the site conditions. The Tenderer shall also satisfy himself about the availability of labour, likely labour demands, problems of weather conditions, infra structural facilities, availability of construction materials etc. No claims whatsoever will be entertained on the plea of ignorance or difficulties involved in the execution of work or carriage of materials on account of the site conditions.		requested to study the site conditions and acquaint themselves in case the same is required as per tender.
15	Special Conditions	4.2.9	6	Fabrication of the Barge at the contractor's work	Please Clarify if the construction of Barge has to be undertaken at Contractors yard or FACT workshop.	
16	Instruction to Bidders	13	6	FACT GATE ENTRY PASS: Entry pass to the contract workers will be issued by CISF. For entry pass, the contractor shall submit an application to CISF through work-executing department and HR department. The following documents shall be submitted along with therequest. a. Copy of age proof b. Police clearance certificate c. Copy of bank passbook d. Copy of Aadhaar e. Two copies of passport size photographs f. Duly filled application for ESI and PF enrolment (for new members)		
17	Instruction to Bidders	17.2	7	For the purpose of extending purchase preference, the minimum local content shall be 50% and margin of purchase preference shall be 20%, as defined in the above Orders, unless specified otherwise in the Enquiry.	Request detail on purchase preference	Please refer latest Revision of Public Procurement (Preference to Make in India) Order 2017, and amendments thereto, subject to orders issued by Deptt. of Fertilisers, Govt. of India. Benefits mentioned in clause 17.2 of " Instruction to Bidders " based on this order/s.
18	Instruction to Bidders	17.3	7	To claim benefits under Make in India Order, the bidder shall provide self-certification or such other certificate(s) as prescribed in the Order, as applicable, that the item offered meets the minimum local content and shall give details of the location(s) at which the local value addition is made.	Request to provide the benefits under make in India	

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19	Special Conditions of Contract	4.3.1	6	The Builder engaged the services of CUSAT for carrying out the basic design (General Arrangement & mid-ship section, sizing of scantlings, shipbuilding specification, etc) of the barge. Based on the basic design carried out by CUSAT, the GA & mid-ship section drawing of the proposed barge is attached. The Contractor shall carryout the detailed design of the barge; in-line with the basic design attached with this TPS. The GA & mid-ship sectional drawing, Shipbuilding Specification, Special Requirements of the Project, and other documents/drawings/Engineering Specifications attached along with this TPS shall be the technical basis for carrying out the detailed design of the barge.	1) If we are considering the provided data as Basic Design, During the preparation of Detail Design, we may have requirement of Lines Plan, General Arrangement drawing in 3D and 2D formats for Powering Calculation, stability calculation and other purpose also. Will these data will be shared by CUSAT? 2) Request to provide the Lightweight and Displacement of Barge. So that we can also analyse the powering calculation	The documents provided with the Bid are preliminary and indicative in nature. Basic design of the barge is in contractors scope . The dimensions and scantlings could be optimised which satisfying FACT/FEW requirements (speed, breadth/draft restriction etc. The plate scantlings also has to be calculated by the contractor however has to adhere to the minimum thickness requirement by FACT/FEW above class requirements, at bottom and other areas mentioned
20	Technical Procurement Specifications	5.1.0	36	MAIN ENGINES - Basic Specification Make - Leyland / Cummins / Volvo Capacity - To be designed by contractor Approval - Classification Society Requirements	In General Arrangement Drawing Engine power is mentioned as 2X190 BHP @2000 RPM and at Para 5.1.0 it is mentioned that Engine Power shall be provided by contractor? While Basic design is developed by CUSAT, confirmation on Engine Power needs to be provided by CUSAT.	The engine power shown is indicative and the contactor has to come up with powering calculations.
21	Schedule Q- Special conditions of contract	4 of 64	1.3.1	Cargo of 350 T Liquefied Ammonia Gas	Weight of bullet tanks are required of weigh estimation.	The weight of each bullet with its saddles is approximately 30 Tonnes.
22	Technical Procurement Specification- 32472-02-PS-003	25 of TPS 32 of TPS	4.1.6 4.12.5.1	All skin fitting valves shall be of SS contruction and class approved. All valves shall be of SS Ship-side valves shall be of approved type.	It is proposed that the valves to be as per class approved piping system drawings and generally of the following material- Body/Bonnet- Cast Iron/Cast Steel Internal-GM/SS	All valves to be made of SS as mentioned in the TPS.

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23	Technical Procurement Specification- 32472-02-PS-003	39 of TPS	5.1	A power hydraulic steering gear of sufficient capacity and certified by Classification society shall be provided. The hydraulic cylinders in the steering gear compartment are to be actuated by a main engine driven hydraulic pump through joystick/ joywheel and an emergency rotary hand helm pump fitted with wooden/ SS wheel, from the wheel house.	1) Clarification that the steering gear hydraulic cylinder to be actuated by main engine driven pump or shall be driven by a independent hydraulic power pack. 2) If emergency hand pump is located in wheel house then there is a possibility of leakage due to long hydraulic pipe lines. It is proposed to locate the emergency hand pump in the steering gear compartment.	1)There is no objection to engine driven or independent hydraulic power pack as long as it satisfies class rules including redundancy requirements, if any. 2) No objections. emergency hydraulic hand pump location to be subject to class approvals.
24	Technical Procurement Specification- 32472-02-PS-003	6 of TPS	1.5.3.2	Each bullet shall be supported by sufficient number of cradles that are efficiently secured to the bottom structure of the ship by bolting.	Its is presumed that the 4 nos. independent bullet storage tanks will be permanently fitted in the cargo hold.	The foundations shall be welded to, and part of the hull. The bullet tank saddle support shall be bolted to these foundations.
25	Technical Procurement Specification- 32472-02-PS-003	16 of 64	2.1.1.3	The cargo region of the hull shall be of double skin construction.	Can the double bottom and side shell double skin space be used as water ballast tanks also.	The double skin space shall not be used as water ballast tanks.
26	Technical Procurement Specification- 32472-02-PS-003	19 of 64	2.5.5.2	Bulkhead separating the cargo bay(in between the two bullets) shall be provided.	Does it mean a transverse bulkhead in between cargo holds as shown in the GA drawing or a longitudinal bulkhead in each hold separating the 2 bullet tanks.	The bulkheads mentioned are transverse ones. Additional bulkhead requirements will be based on subdivision rules.
27	Schedule Q- Special conditions of contract	10 of SCC	9.1.0	The delivery of the barge shall be within 9 months from the date of issue of work to proceed notice/ 2 months from the date of receipt of bullets and its associated piping at contractors yard, whichever is later.	Delivery location and supply of ammonia storage bullets with associated piping.	The ammonia bullets with its associated piping shall be directly supplied to your yard.
28	Technical Procurement Specification- 32472-02-PS-003	40 of TPS	5.7.0	Twin screw mechanical remote control of engine speed and gear box selector valve from bridge shall be provided in addition to local controls provided on the main engines and gear boxes. The remote control system shall be of combination type using both wire ropes and push pull cable, heavy duty, single lever operation for each main engine and gear box.	Since the wheel house is in the forward and engine room in the aft, the arrangement will be very lengthy and may effect the performance.	Alternate means may be proposed and implemented subject to prior approval from the owner (FACT) and Class.