

Mazagon Dock Shipbuilders Limited
(Submarine Division)

SINGLE TENDER (GeM Bid)

BUYER SPECIFIC ADDITIONAL TERMS & CONDITIONS WITH DETAILED SCOPE OF WORK

MAZAGON DOCK SHIPBUILDERS LTD. (MDL), Mumbai India, a premier Warship building, Ship repair, Submarine Construction & Refits and Heavy Engineering Company owned by Government of India under Ministry of Defence.

MAZAGON DOCK SHIPBUILDERS LTD (Purchaser / Buyer) INVITES BID through GeM Portal for the following work/supply from Indian Firm.

This is a Single Nominated Tender Enquiry on “M/s. KSB, Pune, India” nominated by Indian Navy. Intimation to nominated vendor will be communicated by email separately for bidding against this tender. Unsolicited bids submitted by all other vendors will be summarily rejected.

SUBJECT: - Indigenization and supply of Preheating fresh water pump (of BX System) with motor assembly.

1.	Description: Indigenization and supply of Preheating fresh water pump (of BX System). Note: a) Firm to supply item as per the SOTR at Enclosure-2 and firm shall confirm that the Scope of Supply is fully understood by them. b) Additional Information, Technical Terms and Conditions are as per Enclosure-2 .
2.	<u>Instructions to the bidder:</u> Bidder should submit all documents strictly through GeM Portal only.
3.	<u>Validity Period:</u> Bid / Offer shall have a validity period of 180 Days from the GeM Bid closing date. A bid valid for a shorter period will be liable for rejection.
4.	Earnest Money Deposit (EMD) / BID BOND: Not Applicable
5.	Submission of offer (SINGLE BID): - Offer must be forwarded through GeM Portal in <u>SINGLE BID</u> and scanned copies of the below mentioned documents to be attached in the offer: - i) Bidder's Statement on their Company Letterhead indicating GeM Bid No, GeM Bid Date, confirming compliance and acceptance on the Scope of Supplies and other Terms and Conditions as included in this GeM Bid enquiry, duly signed, stamped and dated by bidder's authorized person(s). Tender Enquiry Terms and Acceptance Format. (Enclosure-4) & DEVIATION SHEET (Enclosure-5) duly filled as ACC or DEV to be submitted. ii) Bidder to submit signed scanned copy of this complete document with Scope of Supply/Work as acceptance (Enclosure-1). iii) Duly filled Rate sheet clearly indicating & applicable GST as per format at Enclosure-2 . iv) Bidder to submit Extract of provisions of the official secrets act, 1923 (Enclosure-12 duly signed.

- v) Bidder to submit duly signed declaration pertaining to land border clause as per **(Enclosure-8)**
- vi) Bidder to submit Declaration of Local content as per **Enclosure-10 & 11.**
- vii) Bidder to submit following documents along with offer:
 - a) Bidder to submit list of installation & commissioning spares (INCO) being offered.
 - b) Bidder to submit list of Onboard spares (OBS for 2 years) being offered.
- viii) Bidder to submit list of the Base & depot spares (B&D) for 5 years of usage. The B&D spares are not part of the present tender enquiry and same shall be procured separately. in consultation with the Indian Navy's in future.
- ix) Along with the list of all the spares (INCO, OBS and B&D) firm to specifically mention or highlight spares with shelf life and provide the shelf-life period for those spares.
- x) Bidder to submit list of spares in ILMS format as per **Enclosure-13.**

Note:

- a) Bidders in their own interest are requested to submit their bids well in advance of tender closing date to avoid the last-minute difficulties in submitting the bids. Bidder should submit offer with all relevant documents.
- b) Any Techno-commercial query related to subject GeM bid shall be forwarded to following emails:

Note: - Any Techno-commercial query related to subject GeM bid shall be forwarded to following emails: -

kvsbalakrishnan@mazdock.com, ajain@mazdock.com

6. Bid Rejection Criteria

A. Categorical Rejection Criteria: -

The following conditions / deviations are non-negotiable and therefore bid falling under these conditions / deviations shall be summarily rejected. Bidder to note that they shall not be provided any opportunity to rectify these conditions / deviations post bid opening:

- (i) Bids received other than GeM Portal.
- (ii) Bidder who are debarred under PPP MII order 2017, GeM, CPPP including Tender holiday issued by MDL.
- (iii) Bids received after tender closing date and time.

B. Liabe for Rejection Criteria:

Non-compliance/non-acceptance to any of the terms and conditions of the tender shall render the bid liable for rejection

7. Delivery:

- a) Bidder to complete Supply within delivery timelines indicated at **Enclosure-1.**
- b) Bidder is requested to quote acceptance of the completion period in the offer. Delayed beyond stipulated completion period shall attract LD as per GeM tender terms and conditions.
- c) The final approved drawings & final documentation to be submitted to MDL during final delivery of pump assembly as per SOTR.

Note:

a) Rejection of Material:

Any portion of the item/s found defective/rejected, the supplier shall collect the same at his cost from the MDL Yard, all incidental charges being born by supplier, within 30 days from the date of intimation to the supplier of such rejection. The MDL reserves the rights to dispose off the rejected item at the end of a total period of 90 days in

any manner, to the best advantage to the MDL & recover storage charges & any consequential damages, from sale proceeds of such disposal.

Consignee Address:

**MAZAGON DOCK SHIPBUILDERS LIMITED,
Dock Yard Road,
Mumbai –India 400 010.**

Delivery Address:

**MAZAGON DOCK SHIPBUILDERS LIMITED,
Dock Yard Road,
Mumbai –India 400 010.
Phone: 022-23763651/52
Officer IN Charge – East Yard Stores**

8. Pricing:

- a) The quoted prices shall remain firm and fixed during the currency of the order / contract unless agreed otherwise by MDL. Bidder shall quote the prices in GeM Bid.
- c) Bidders to note that GeM Prices must be inclusive of all Taxes and duties. Sellers are advised to quote prices inclusive of all taxes & duties.
- d) Bidder shall submit blank rate sheet (**Enclosure-3**) clearly indicating GST % along with techno-commercial offer.

9. Terms of Payment

NO ADVANCE PAYMENT ALLOWED

Amount due for payment after deductions towards LD if any will be released by bank transfer within 15 to 20 days from the date of delivery and on submission of following documents:

- a) One original and two copies of signed Invoice showing item wise description & prices as per order.
- b) Signed Goods Receipt Note (GRN) copy
- c) Copy of Guarantee/Warranty Certificates from date of door delivery.

Note: GRN copy is MDL internal document. Balance documents are to be submitted by firm.

Bidders shall furnish all the necessary details like name of the bank/branch, branch code No, bank account no in their technical bid.

Note:

- a) Wherever GST is applicable, payment will be released against e-Invoice, or Invoice accompanied with vendor's self-declaration that "we do not fall under the category of registered persons notified under Rule 48(4) of the Central GST Rules, 2017 and we are not required to comply with e-Invoicing provisions under GST Act, as our aggregate turnover in any preceding financial year from 2017-18 onwards has not exceeded Rs. 10 Cr. as per GST Act."

10. Inspection/acceptance criteria:

Inspection is to be carried out as per SOTR enclosed at Enclosure-2

1. Firm to submit draft QAP and preliminary drawings within 15 days from order acceptance. The QAP should be in adherence to SQAP promulgated by DGQA(IN).
2. The Acceptance trial protocol (ATP) should be submitted within 1 week from approval of QAP for approval of MDL and IN.
3. Firm to carry out qualification and all other testing to qualify the pump assembly (Pump+motor), as per approved QAP. Type tested pump will be yellow banded before delivering to MDL.

	<p>4. Firm to carry out all relevant testing mentioned in the SOTR (except type testing) for supplying 3 set of production pump assembly to MDL as final delivery as per approved QAP.</p> <p>5. Inspection will be carried out by renowned TPI (member of IACS), SOT(Mbi), MDL as per approved QAP. The inspection charges related to TPI shall be borne by the firm.</p> <p>6. Requisite sets of documents such as Third-Party Inspection Agency inspection reports, Test Certificates etc. as per approved QAP, are to be provided with the supply.</p> <p>Receipt inspection at MDL by MDL, QA / SOT (MB). Items shall be inspected at MDL East Yard stores by MDL QA or SOT (MB) and discrepancies reported, if any, will have to be soon addressed / resolved by you with appropriate corrective actions.</p> <p>Any objection raised by MDL Inspection Team against quality of materials or workmanship shall be satisfactorily corrected by the Contractor at his expense including replacement as may be required within shortest possible time within 30 days. Items damaged during transit shall also be rectified/replaced by the Contractor within shortest possible time. Goods accepted by the purchaser at the initial and final inspections, in terms of the contract, shall in no way dilute the purchaser's right to reject them later, if found deficient in terms of the warranty clause of the contract.</p>
11	<p><u>Shelf- Life</u> : Firm to ensure 80% residual shelf life (wherever applicable) is available during the delivery of spares to MDL. Also, firm to submit shelf-life certificate along with the delivery with specific mention of manufacturing and expiry dates.</p>
12.	<p><u>Guarantee/ Warranty:</u></p> <p>Guarantee/ Warranty to be as per SOTR enclosed at Enclosure-2</p> <p>The items/materials shall warrant the items for a period of 36 months from date of Supply or 12 months from date of commissioning whichever is earlier. The bidder shall warrant that the items supplied under the order, shall be free from all defects related to design, manufacturing or performance deficiencies and is consistent with established and generally accepted standards for such supplies, in full conformity with the specifications / drawings.</p> <p>If within the above mentioned period, the items supplied in the opinion of MDL is found to be defective in workmanship and/or due to faulty materials, MDL shall have the right to advise you to rectify / replace in whole or in part, such defective portion at your expenses and to the entire satisfaction of MDL. Replaced parts shall be subjected to residual warranty period of the original parts.</p>
13.	<p>Performance Security (Performance Bank Guarantee cum Security Deposit):</p> <p>ii) The bidder shall submit Performance Security {Performance Bank Guarantee (PBG) cum Security Deposit (SD)} for an amount of 5 % of the value of the contract (excluding taxes & duties) as per Enclosure-7 for a period of delivery period+ warranty period+2 months claim period or agree for retention of equivalent amount by MDL up to the period till completion of contractual & Guarantee/ Warranty obligations.</p> <p>iii) Performance security may be furnished in the form of NEFT / Demand Draft / Pay order / Bank Guarantee / Insurance Security Bond / e-Bank Guarantee in favour of Mazagon Dock Shipbuilders Limited, Mumbai from the list of Banks approved by SBI / Canara Bank published on MDL website.</p> <p>iv) In cases if the supplier / contractor has not submitted the Performance security and already commenced supply / services, Performance security will be withheld from his bills, if any. In such case, interest will be recovered for the period starting from 26th day of transmission / notification of order/contract by any mode and amount involved at the relevant rate of interest.</p>

For foreign supplier, it will be EUROBOR/LIBOR plus 2%. For Indian suppliers, it will be SBI BPLR plus 2%.

- v) Performance Security is to be furnished within 25 days after notification of the award of contract and it should remain valid for a period of 60 (sixty) days beyond the date of completion of all contractual obligations of the supplier, including warranty obligations.
- vi) In case of failure to submit performance security by the supplier within 25 days of transmission / notification of order by any mode, EMD (if available) will be forfeited and MDL reserves the right to cancel the order and invoke the risk purchase clause.
- vii) The performance security will be forfeited and credited to MDL's account in the event of a breach of contract by the contractor. It will be refunded to the contractor without interest, after duly performing and completing the contract in all respects.
- viii) No exemption will be granted to any unit including MSME, SSI units and MDL Registered suppliers.
- ix) In the event of defects due to poor workmanship leading to non-performance of the Equipment/Item and bidder failure to attend the Guarantee/Warranty defects within 45 days from date of intimation or as agreed during TNC the performance security shall be forfeited.
- x) If it is established that the contractor has failed to comply with the Guarantee/warranty obligations, the PSBG will be encashed by MDL. MDL's decision in this regard shall be final and binding on the supplier / contractor.

xi) In case the Bidder intends to submit Bank Guarantee towards Performance Security/EMD/Advance Payment/Free Issue Material etc., the Bank Guarantee should be e-Bank Guarantee or Structural Financial Messaging System Bank Guarantee (SFMS BG).

xii) Mandatory Requirement: - Wherever a bidder submits SFMS BG, the bidder will mandatorily be required to submit letter from issuing bank that it is unable to issue NeSL (National e-Governance Service Ltd.) based e-BG as on date. Such letter should accompany the SFMS BG.

xiii) IFSC Code: While submitting the Structural Financial Messaging System Bank Guarantee (SFMS BG). IFSC: ICIC0000393 shall be used.

xiv) Authenticity of SFMS BG: Bidder shall get SFMS BG issued from SFMS enabled Bank as allowed by MDL in tender conditions. Bank shall issue the Bank Guarantee through SFMS system and send SFMS message to MDL's Bank confirming the authenticity of Bank Guarantee. Bidder will be required to submit SFMS BG along with SFMS delivery report/message copy which has been transmitted to MDL's Bank by BG issuing bank through SFMS system.

xv) Stamp Paper/Frinking Receipt: - The SFMS BG will have to be given on non-judicial stamp paper/with frinking receipt e-stamping as per stamp duty applicable at the place from where the bid has emanated. The non-judicial stamp paper /frinking receipt e-stamping should be either in the name of issuing bank or the bidder.

xvi) Receipt of SFMS BG: - The Original SFMS BG in physical form, (along with SFMS delivery Report /Message copy which has been transferred by issuing Bank through SFMS system

to beneficiary's i.e., MDL Bank) should reach to MDL designated office on or before due date.

xvii) Mandatory Requisite Information: SFMS BG will not be acceptable unless details of the same is transmitted to the MDL's Bank through SFMS platform. Its bidder's responsibility to ensure that BG issuing bank send the BG advise correctly in the form of message format 760 COV vis SFMS (Structural Financial Messaging System) as provided by RBI while capturing all requisite fields including Beneficiary Account Name, Bank Name, Bank Account Number, IFSC Code etc.

xviii) Non- Acceptance of BG:- In case of any error by the Bidder/contractor or BG issuing Bank while capturing the requisite field details /format or non-receipt of confirmation of BG through SFMS 760COV message format, the bidder/contractor shall be responsible for non-acceptance of the SFMS Bank Guarantee.

xix) Amendment in BG: For any amendment of SFMS BG, message 760COV through SFMS should be used.

Contractor / Supplier / Vendor will be required to submit Performance Security (Performance Bank Guarantee cum Security Deposit), through either of following means at the time of delivery:

a) By remitting equivalent amount in MDL's Bank Account and submit the proof of payment

or

b) By submission of Bank Guarantee from list of bank of international repute approved by SBI / Canara Bank published on MDL website in the MDL prescribed format as per the **Enclosure-5**.

MDL bank details are as follows:

i) For inward remittance of any inland deposit or any amount for BG in INR etc, the following bank A/c is to be used.

State Bank of India

Mazagaon Dock Branch, Mumbai-400010

A/c no.: 10005255246

IFSC: SBIN0009054

Non-submission or late submission of Performance Security (Performance Bank Guarantee cum Security Deposit):

(i) MDL may at their discretion cancel the order and invoke risk purchase clause.

(ii) If MDL does not cancel the order, then interest will be recovered on the Security deposit amount for the late submission of Security deposit at the rate of interest i.e., SBI BPLR plus 2% in case of Indigenous bidders & EUROBOR/LIBOR plus 2% in case of foreign bidders declared by Indian Nationalized Bank State Bank of India for that quarter

14. Liquidated Damages:

- i. Time is an essence of the contract therefore the job, as ordered, should be completed on the dates mutually agreed upon in accordance with the delivery schedule. All tender enquiries should contain clause for liquidated damages.
- ii. If the contractor fails to deliver any or all of the Goods or fails to perform the incidental Works/ Services (e.g. installation, commissioning or operator training) within the time

frame(s) incorporated in the contract, MDL shall, without prejudice to other rights and remedies available to MDL under the contract, deduct from the contract price, as agreed liquidated damages, but not as a penalty, a sum equivalent to the 0.5% percent of the delivered price of the delayed Goods and/ or incidental Works/ Services for each week of delay or part thereof until actual delivery or performance, subject to a maximum deduction of the 10.00% (as per GEM terms and conditions) of the delayed Goods' or incidental Works/ Services' contract price(s) .

15. Breach of Obligation clause with respect to Bid submitted:

In case of breach of any obligation mentioned under, the bidder shall be disqualified / debarred from the bidding process for a period of one year from the date of notification,

- a) Bidder has withdrawn / modified / amended / impaired / derogated from the tender during the period of bid validity.
- b) Bidder fails or refuses to execute the contract upon notification of acceptance of bid by the purchaser during the period of bid validity.

16. Defaults, Breaches & Termination of Contract:

Termination due to Breach, Default, and Insolvency

(a) Defaults and Breach of Contract

In case the contractor undergoes insolvency or receivership; neglects or defaults, or expresses inability or disinclination to honour his obligations relating to the performance of the contract or ethical standards or any other obligation that substantively affects MDL's rights and benefits under the contract, it shall be treated as a breach of Contract. Such defaults shall include inter-alia:

(i) Default in Performance and Obligations

If the contractor fails to deliver any or all of the Goods or fails to perform any other contractual obligations (including Code of Integrity or obligation to maintain eligibility and Qualifications based on which contract was awarded) within the period stipulated in the contract or within any extension thereof granted by MDL.

(ii) Insolvency

If the contractor is wound up or ceases to otherwise trade or is unable to pay its debts as and when they fall due or is otherwise subject to any insolvency procedure.

(iii) If a receiver or similar official is appointed overall or any of the assets of the contractor or a petition is presented for its winding up or it entered into a composition with its creditors;

(b) Notice for Default

As soon as a breach of contract is noticed, a show-cause 'Notice of Default' shall be issued to the contractor, giving two weeks' notice, reserving the right to invoke contractual remedies. After such a show-cause notice, all payments to the contractor would be temporarily withheld to safeguard needed recoveries that may become due on invoking contractual remedies.

(c) Terminations for Default

(i) Notice for Termination for Default: In the event of unsatisfactory resolution of 'Notice of Default' within two weeks of its issue as per sub-clause above, MDL if so decided, shall by written Notice of Termination for Default sent to the contractor, terminate the contract in whole or in part, without compensation to the contractor.

(ii) Such termination shall not prejudice or affect the rights and remedies, including under sub-clause below, which have accrued and/ or shall accrue to MDL after that.

(iii) Unless otherwise instructed by MDL, the contractor shall continue to perform the contract to the extent not terminated. All warranty obligations, if any, shall continue to survive despite the termination.

(d) Contractual Remedies for Breaches/Defaults or Termination for Default

If there is an unsatisfactory resolution within this period, MDL shall take one; or more of the following contractual remedies.

- (i) Temporary withhold payments due to the contractor till recoveries due to invocation of other contractual remedies are complete.
- (ii) Call back any loaned property or advances of payment, if any, with the levy of interest at the prevailing rate (MIBID - Mumbai Interbank Bid Rate).
- (iii) Recover liquidated damages and invoke denial clause for delays.
- (iv) Encash and/ or Forfeit performance or other contractual securities.
- (v) Prefer claims against insurances, if any.
- (vi) Terminate contract for default, fully or partially including its right for Risk-and-Cost Procurement as per following sub-clause.

(vii) Risk and Cost Procurement

In addition to termination for default, MDL shall be entitled, and it shall be lawful on his part, to procure Goods same to those terminated, with such terms and conditions and in such manner as it deems fit at the "Risk and Cost" of the contractor. Such 'Risk and Cost Procurement' must be initiated (viz. AIP/PR/Tender) within nine months from the termination of Contract. The Contractor shall be liable for any loss which MDL may sustain on that account provided the procurement, or, if there is an agreement to procure, such agreement is made. The Contractor shall not be entitled to any gain on such procurement, and the manner and method of such procurement shall be in the entire discretion of MDL.

- (viii) Initiate legal proceedings in a for the recovery of the losses and damages, not addressable by the above means.

17. Dispute Resolution Mechanism and Arbitration**(a) Dispute resolution mechanism (DRM)**

- (i) Any dispute/differences between the parties arising out of and in connection with the contract shall be settled amicably by mutual negotiations at HoS/HoD level.
- (ii) In case of non-settlement by (i) above, if at any time, before, during or after the contract period any unsettled claim, dispute or difference arose between the parties, upon or in relation to or in connection with or in any way touching or concerning this tender/agreement/order/contract, the same shall be referred to the concerned Functional Director.
The Functional Director shall then nominate an Executive of the rank of General Manager whom he thinks fit and competent or a Committee of Executives who/which shall then scrutinise the claims/disputes that have been referred to the concerned functional Director and make efforts for amicable settlements by mutual discussions/negotiations.
- (iii) In case no amicable settlement is arrived by (ii) above within a period of three months, then the contractor shall approach Public Grievance Cell and address the disputes as per the provisions made under the relevant clause of the contract.
- (iv) In case the issues/disputes do not get settled within a period of six months from the date of submission of the dispute to the Grievance Cell, then the contractor may invoke Arbitration Clause of the contract.

(b) Arbitration

Unresolved disputes/differences, if any, shall then be settled by Arbitration. The Arbitration proceedings shall be conducted at Mumbai, India, in English Language, under the Arbitration and Conciliation Act, 1996 as amended from time to time and the rules thereunder.

MDL prefers to have arbitration through Institutes such as Indian Council of Arbitration (ICA)/ICA-DR, Mumbai Centre for International Arbitration with the mutual consent of the parties.

In case of unresolved difference/dispute between the Purchaser and Supplier, being Central Public Sector Enterprises/Central Govt. departments, the disputes shall be resolved firstly through mutual

	discussion or through the empowered agencies of the Govt. or through arbitration by reference by either party to the department of Public Enterprises, as per extant guidelines. If disputes/differences remain unresolved/unexecuted, the same shall be referred first to the Cabinet Secretariat and then, if necessary to the PMO.
18.	Jurisdiction of Courts All contracts shall be deemed to have been wholly made in Mumbai and all claims there under are payable in Mumbai City and it is the distinct condition of the order that no suit or action for the purpose of enforcing any claim in respect of the order shall be instituted in any Court other than that situated in Mumbai City, Maharashtra State, India i.e. courts in Mumbai shall alone have jurisdiction to decide upon any dispute arising out of or in respect of the contract.
19	Declaration for local content: Bidder to submit Declaration of Local content as per format at Enclosure-10 with the submission of offer. Bidder to submit Actual local content certificate at the time of delivery as per format at Enclosure-11 .
20.	Public Grievance Cell: A Public Grievance Cell headed by Mr. R.R. Kumar, ED (Production) has been set up in the Company. Members of public having complaints or grievances are advised to contact him on Wednesday between 10.00 hours and 12.30 hours in his office on 3rd floor, Mazdock House or send their complaints / grievances to him in writing for redressal. His Telephone No. is 022 2372 3426 Extn. 3512
21.	MDL reserves the right to consider placement of Order / Contract in part or in full against the tendered quantity.
22.	In case of any technical clarifications, bidder is requested to contact Mr. K V Shreejeeth, CM (Design) Tel: 022-2376-3042, email Id: kvsbalakrishnan@mazdock.com before the closing date of the tender. We look forward to receive your most competitive and reasonable offer against this tender.
	Yours faithfully, For MAZAGON DOCK SHIPBUILDERS LIMITED Mr. Ankur Jain, Manager (Commercial-EY) 022-2376-2684 E-Mail: ajain@mazdock.com (Purchase Executive)

Enclosures

Enclosure-1: Scope of supply

Enclosure-2: Scope of Work/Additional Information, Technical terms and conditions.

Enclosure-3: Rate Sheet.

Enclosure-4: TEF Acceptance Format

Enclosure-5: Deviation Format

Enclosure-6: Warranty Certificate format

Enclosure-7: Format of PBG

Enclosure-8: Order (Public Procurement No.4) dtd 23 Feb 2023 on Restrictions under Rule 144 (xi) of the General Financial Rules (GFRs), 2017.

Enclosure-9: Shelf-Life Details of items

Enclosure-10: Format for Declaration of Local content

Enclosure-11: Format for Actual Local content certificate

Enclosure-12: Extract of provisions of the official secrets act, 1923

Enclosure-13: ILMS format for spares.

Enclosure-1**Scope of Supply for GeM Bid No. GEM/2026/B/8150499**

Sr.No	Item Description	Qty	UoM	Lead Time (Months) from date of approval of QAP
100	Type tested Pre-heating fresh water pump BX system pump assembly a) Yellow banded.	01	Nos	07
200	PREHEATING FRESH WATER PUMP, RN-12ED000C0069	03	Nos	08
300	Installation and commissioning (INCO) spares for BX pump INCO one set consist of i) Mechanical seal, o-rings & seal faces - 1 set ii) Set of gaskets - 1 set The list is tentative, actual list of INCO spares	03	Set	08
400	Onboard spares (OBS) for BX pump assembly OBS one set consist of i) Mechanical seal - 1 no. ii) Set of gaskets - 1 set iii) set of bearings (Motor) - 1 set iv) Impeller Nut - 1 no. v) Parallel Key - 1 no. The list is tentative, actual list of OBS will be decided based on OFFER and TNC	03	Set	08
500	Documentation of BX Pump assembly 3 hardcopies and 2 soft copies on CD-ROM consisting of:- a) Technical and Operating Instruction Manual b) On-board Maintenance Manual c) Field and Depot Maintenance Manual d) Installation Drawings e) As fitted Drawings f) Certified Test Report	01	Set	8.5

Scope of Work/Additional Information, Technical terms and conditions.



MAZAGON DOCK SHIPBUILDERS LIMITED

(A Govt. Of India Undertaking)

STATEMENT OF TECHNICAL REQUIREMENTS (SoTR)
PUMP-MOTOR ASSEMBLY FOR FRESHWATER PRE-HEATING (BX00001 & 03) – P75

PROJECT:- P75 – SCORPENE CLASS SUBMARINE
DOCUMENT NO.:- EY/D/INDG/E/MISC-03 – BX00001 & 3

ISSUING AUTHORITY: -

MAZAGON DOCK SHIPBUILDERS LTD. (MDL), MUMBAI

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A. INTRODUCTION / SCOPE

The purpose of this 'Statement of Technical Requirements (SOTR) is indigenous design and development of **one prototype pump-motor assembly** and **supply 3 nos. of production pump-motor assembly** to MDL. The pump is being indigenised for Scorpene class P75 submarine project.

The scope of supply is given in the table below: -

Sr.No.	Description	Qty
1	Type tested Pre-heating fresh water pump-motor assembly for BX system	1 No.
2	Pre-heating pump-motor assembly, RN – 12ED000C0069	3 Nos.
3	Installation and commissioning spares (INCO)	3 Sets
4	Onboard spares (OBS)	3 sets
5	Documentation	3 sets

This centrifugal pump is used for supplying freshwater to the pre-heater before supplying it to Diesel engine to avoid cold starting of engine during normal operating conditions. The pump stops when engine is started.

Scope of supply will cover Design, Manufacture, Inspection, Testing, Commissioning, Packaging, and Forwarding & Satisfactory operation on board submarines for all the equipment, fittings & instruments listed in this specification during vessel trials & sailing.

The manufacturer shall provide all information required for integration of the equipment on-board the submarine. The equipment shall be designed and constructed so that it can be fully integrated with the subsystem to which it interfaces. The scope of the supply includes every item for its proper installation, trials and satisfactory operation on-board the submarine.

Instruments: - Safety, control and monitoring devices needed for the functional operation of the pump are to be fitted on equipment as per requirement.

Installation: - Installation will be carried out by Indian Navy on the commissioned boats.

Setting to Work: - Assistance for first starting of the pump and sharing the procedure with the shipyard and Indian Navy. And the procedure shall also include activities proposed by the shipyard or the crew during STW.

Commissioning of pump on board: - To carry out the running test of the pump-motor assembly and prove the performance characteristics of the equipment on-board submarine.

Scope of offer: - The supplier is to supply a minimum of the following information along with his technical offer: -

- i. Weight and outline drawings of the equipment indicating overall dimensions, CG and maintenance envelope.
- ii. Type testing reports
- iii. Details of all pump-motor interfaces with pattern no, seat details, flange details etc.,
- iv. Technical Specification of the equipment.
- v. GA drawing of all equipment & accessories.
- vi. Technical parameters of all equipment & accessories.
- vii. Heat dissipation of the Equipment.
- viii. Details of other ship services required.
- ix. Requirement of Greases, Oils etc., with their equivalents.
- x. Tools required for maintenance.
- xi. Recommended onboard and base spares holding (for 2 years and 5 years operation respectively).
- xii. Periodical maintenance & operational instructions for all units to be indicated.
- xiii. Part Identification List (PIL).
- xiv. List of main equipment included in the standard scope of supply.

- xv. List of accessories included / not included in the standard scope of supply.
- xvi. Reliability parameters as specified.
- xvii. List of previous supplies to Naval Ships/Submarine.
- xviii. Clause wise compliance matrix with the TSP.

B. GENERAL FUNCTIONAL REQUIREMENTS

The following requirements are required to be met while designing of the product: -

- a. Overall weight and dimensions should be less or equal while form, fit and functionality should be matching with those existing onboard.
- b. Power supplies used should be compatible with the available power supply in submarine.
- c. Power consumption of pump should be equal or lesser than the existing units
- d. The performance /accuracy of the equipment should be equal or more than the specifications mentioned in the SOTR.
- e. If required, firm to provide assistance during interfacing pump assembly with IPMS.

C. TECHNICAL SPECIFICATIONS

Sr.No.	Specification / Function	Rating / Criteria	Remarks
A	<i>PUMP CHARACTERISTICS</i>		
1	Fluid	Fresh water	
2	Density	1000 Kg/cu.m	
3	Minimum temp at suction	20°C	
4	Maximum temp at suction	80°C	
5	Flow rate	3 cu.m/hr	Rated
6	Head	20 m	
7	Speed	3450 rpm	
8	Power Drawn	0.81 KW	
9	Suction pressure	1.8 to 2.2 bar	
10	Suction	ISO PN16, pipe OD = 50 mm	As per sample pump repaired earlier
11	Discharge	ISO PN16, pipe OD = 32 mm	As per sample pump repaired earlier
12	Shock resistance	Equivalent Static acceleration – 10g in all directions	Calculations
13	Shock Resistance	Type test as per standard IEC 60068-2-27. Half sine-wave 5g 30ms. 3 successive shocks in each direction i.e 18 shocks in total	
14	Vibrations	Refer table for normal and abnormal environmental conditions	
15	Dynamic balancing of rotating elements	As per standard NF E 90-600, G = 1.5 mm/sec or Norm mentioned in the SQAP	
16	EMI / EMC test	JSS 55555, MIL-STD-461E/F	Type test
17	Life	35 years	
18	Weight	40 Kg +/-5%	Pump + Motor (complete assembly)
19	Pressure testing	Strength / resistance test = 3.5 bar for 30 min	For pump body
20	Pressure testing	Leak test = 2.4 bar for 30 mins	
21	Lubrication	Supplier to specify	Supplier to specify the type of grease
B	<i>MOTOR CHARACTERISTICS</i>		

1	Asynchronous motor	3 phase, 115V-60Hz	Shaft height = 80 mm
2	Nominal power	1.1 KW	
3	Nominal speed	3600 rpm	
4	Winding	Star	
5	Dynamic balancing of rotating elements	G = 1.5 mm/sec, norm – NFE90-600	
6	Water resistance / protection	IP55	
7	Insulation Class & Temperature Rise	F & B	

List of applicable standards

Sr.No.	Standard / Norm	Description
1	Packaging and marking	MIL 2073 or Norm specified in SQAP
2	Standard marking and storage	STANAG 4281
3	Transport and handling	SEFC 17-50-07
4	Shock resistance	IEC 60068-2-27
5	Vibration test	IEC 60068-2-6
6	Acoustic test	BS 3744, MIL-STD-740-1 & MIL-STD-740-2
7	EMI/EMC	MIL STD 461F
8	Environmental test	JSS 55555
9	Paint scheme	DGS 251

D. OPERATING REGIMES / PERFORMANCE

Preheating system is an additional function of fresh water-cooling system of Diesel engine. Preheating of freshwater is needed before starting of engine, which is carried out by an electric heater. Preheating stops when the engine starts.

A thermostat controls the temperature automatically by starting and stopping the electric heater, so that the temperature of fresh water is maintained between 42 °C and 45°C.

The electric power required for the pump are supplied by means of overriding network of 115V/60Hz.

E. DESIGN, PRODUCTION AND ENVIRONMENTAL CONDITION REQUIREMENTS

Materials:- Suitable material to be chosen by the firm based on the application and life.

Pump:- Use of cast iron, brass, asbestos or asbestos based material are strictly forbidden. The material for the casing, impeller and its components shall be in SS. Firm to choose other relevant material accordingly.

Motor:- The Motor/fan cover should be of light alloys and compatible for the application satisfying conditions mentioned in EED-Q-071. The motor shaft to be made of SS316L or SS431 or similar Stainless-steel material and to satisfy conditions mentioned in EED-Q-071.

Environmental conditions: -

Normal Environment

Outside air	-10°C to +40°C Relative humidity : 0 à 100 %	
Seawater temperature	$l < 55 \text{ m}$ 0°C to +32°C	$l \geq 55 \text{ m}$ 0°C to +25°C
Climatic conditions of the cabinet rooms and technical compartments		
Temperature	10°C to 40°C	
Relative humidity	30% to 80%	
Internal pressure	800 mbar $\leq P \leq$ 1200 mbar $\Delta P / \Delta t \leq 100 \text{ mbar/min}$	
Composition of the atmosphere	Partial pressure of oxygen (absolute pressure) : 170 mbar $\leq P_{O2} \leq$ 230 mbar	
Roll	+/- 30° Period 10 seconds	
Pitch	+/- 10° Pseudo period 1 minute	
List (for 10 mins)	+/- 18°	
Trim (for 10 mins)	+/- 30°	
Electromagnetic environment	According to STANAG cited in the PEPP § 5.	
Vibrations	from 0,1 Hz to 1 Hz : amplitude 10 mm from 1 Hz to 50 Hz : acceleration 40 mg vibrations applied at the fixed points of the equipment	

Abnormal Environment

Outside air temperature	-30°C to +70°C	
Seawater temperature	$l < 55 \text{ m}$ -2°C to +35°C	$l \geq 55 \text{ m}$ +0°C to +25°C
Climatic conditions of the cabinet rooms and technical compartments		
Temperature	5°C to 45°C	
Relative humidity	10% to 90 %	
Internal pressure	700 mbar $\leq P \leq$ 1300 mbar $\Delta P / \Delta t \leq 300 \text{ mbar/min}$	
Composition of the atmosphere	Partial pressure of oxygen (absolute pressure) : 170 mbar $\leq P_{O2} \leq$ 250 mbar	
Roll (for 1 hour)	+/- 45° Period 10 seconds	
Pitch (for 1 hour)	+/- 15° Pseudo period 1 minute	
List (for 1 min)	+/- 45°	
Trim (for 5 min)	+/- 45°	
Magnetic induction	Terrestrial magnetic field : $B < 1,5 \cdot 10^{-4} \text{ T}$ When degaussing : $B < 15 \cdot 10^{-4} \text{ T}$	
Vibrations (for 1 hour)	from 0.1 Hz to 1 Hz : amplitude 25 mm from 1 Hz to 5 Hz : acceleration 0.1 mg from 5 Hz to 22 Hz : amplitude 1 mm from 22 Hz to 50 Hz : acceleration 2 g vibrations applied at the fixed points of the equipment	

F. INTERFACE AND OVERALL DIMENSION

The equipment must pass through 800mm diameter and 1 meter length circular opening without dismantling. It must be able to pass through 600 mm wide alleyways and 1500mm x 600 mm doors. If required, wooden mock-up trials for shipping in and out may be carried out before final production. The fitment has to be checked for interfacing with existing fittings / supplies onboard submarine. If required, necessary fitment / installation drawing have to be prepared by the supplier as per actual installation requirements.

G. QUALITY ASSURANCE AND INSPECTIONS

Quality Assurance: -

The detailed design, material and workmanship shall be in accordance with the best engineering practices, to ensure reliability, durability and ease of maintenance, which comply with the ship's

requirements. The design shall be such that weight and size are reduced to the minimum practicable, ensuring no compromise in reliability or significant design criteria. A quality assurance program is to be specified by the manufacturer in his offer.

Quality Assurance Programme.

- a. All equipment shall be inspected as per approved Quality assurance plan (QAP). The QAP should be in compliance with SQAP promulgated by DGQA.
- b. The manufacturer shall submit a quality inspection & control plan for approval prior to commencement of Production.
- c. Details of test equipment, test methods, preliminary qualification tests, etc. are to be indicated in the Quality & Inspection Plan submitted (ATP).
- d. Approval of Quality Assurance Plan and Acceptance Trial Protocol (ATP) will be done post placement of order.

Inspection.

- a. Vendor shall have a system to ensure that all inspection, measuring & test equipment used to produce the product ordered are calibrated & fit for use.
- b. Vendor shall do all that is necessary to comply with purchase order with regard to inspection /quality control requirements, submission of reports, certificates etc; & provide every assistance for inspection / witnessing of tests by purchaser's representatives or by third party inspecting agency.
- c. Vendor shall make available to the inspector all drawings, codes & specification for his reference during inspection free of cost.
- d. Vendor shall provide all sorts of assistance in terms of tools & instruments, manpower required during inspection.
- e. The items supplied will be inspected by the agencies as indicated below & inspection certificate should accompany the supplies.
 - i. For Quality Control : Renowned Third party inspection agency (TPI), SOT (Mb), MDL Mumbai.
And the inspection charges related to TPI shall be borne by the firm.
 - ii. For Receipt Inspection : SOT(Mb) / MDL (MUMBAI)
 - iii. For Submarine Trials : SOT(Mb)/MDL (Mumbai)
- f. The product offered by the manufacturer should conform to Standard Engineering practices. The equipment will be subject to stage inspection and final test and trials by the Naval Inspection Agencies as mutually agreed with the equipment manufactures. By and large, the equipment should have components of indigenous make. In case, replacement of any component is done in subsequent orders, the manufacturer shall inform the customer and the pump will have to be type tested again. Any deviation from the mentioned specifications will have to be brought to the notice of MDL Mumbai and approval to be taken for same. All defects observed or developed during the inspection/ testing are to be rectified free of cost before dispatch to MDL Mumbai.
- g. During workshop tests, all the supplied equipment is to be installed on the test bed and operated in the similar input conditions as that on board the vessel. Any correction applied for different environmental and installation conditions shall be duly notified to concerned Naval agencies for their approval.

- h. For testing and mounting arrangement of better or equal stiffness are to be provided than the expected one for the ship structure where the unit will be seating.
- i. The schedule for inspection, test & trials should be drawn up in such a way that all inspections including component level inspection, trials of subassemblies, etc., should be, as far as practicable performed at the corresponding stage of manufacture. Detailed measurements should be carried out at the appropriate stage of manufacture.
- j. The manufacturer is to formulate and submit a trial/test schedule for FATS as well as HATS/SATS in the offer. The schedule will be approved /formalized post placement of order by SOT (Mb)/MDL Mumbai.

H. TEST AND TRIALS

- a. Shock Resistance Test: - Type test as per standard IEC 60068-2-27. Half sine-wave 5g 30ms. 3 successive shocks in each direction i.e 18 shocks in total
- b. Noise and Vibration Test: - The pump assembly to be mounted directly on the seating and vibration at bearing pads, flanges, at suction and discharge to be measured. The vibration measurements will be made according to IEC 60068-2-6
- c. The maximum admissible level of acoustic power to be as per the repaired pump or lower. The measurements will be made according to BS 3744, MIL-STD-740-1 & MIL-STD-740-2.
- d. Pressure test: -
 - i. Strength test at =3.5 bar for 30 min. This test is for the pump body. No permanent distortion will be accepted.
 - ii. Leak / tightness test at 2.4 bar for 30 min. No leak will be allowed.
- e. Endurance test: - The test will last for 4 hours for production pump. The pump operation should be normal and parameters or duty points should be as per requirement. For prototype the endurance test will be conducted for 100 hours cycles of start & stop will be mutually discussed and agreed upon during QAP approval.
- f. Running test on empty: - The motor will be supplied with a nominal voltage of 115V . During the test the start-up intensity ID is measured. After 15 min of empty running the levels of intensity and power absorbed are recorded. The phases should be balanced by measuring the current over 2 phases.
- g. Performance test: - Clean fresh water at ambient temperature will be used test fluid. The following parameters will be recorded during this test (5 points minimum over the complete flow range): -
 - i. Differential pressure
 - ii. Absolute static pressure at suction pipe
 - iii. Rotational speed
 - iv. Intensity and power absorbed by the pump
 - v. Total elevation height depending on flow rate
 - vi. Power efficiency depending on flow rate
- h. Running test on an inclined surface: - The test will be carried out on all 4 quadrants for 10 minutes.
- i. Various other test: - Dimensional check with the defined drawing. And equipment to be weighed to a tolerance of +/- 1 Kg.

I. ONBOARD TRIAL & COMMISSIONING

On Board Trials & Commissioning. On successful completion of the trials at manufacturer's premises and the shock test trials, the equipment is to be installed on board the ship, and tested. The equipment and system is to be flushed after partial / final assembly.

INSTALLATION:

(a) Material. Supplier shall supply all the installation material required during installation of pump on board mounting bolts, jack bolts, gaskets, gases, oil Seals etc.

(b) Equipment. Interfacing with existing systems on board & successful commissioning of pump on board is in Indian Navy's scope. However, if needed supplier may be called for rectification and guidance, if any.

Harbour Acceptance Trials and Sea Acceptance Trials (HATS/SATS)

(a) Draft HATS/SATS documents are to be supplied for approval of IHQ/P75. HATS/SATS are to be carried out to the satisfaction of Naval agencies. Special tools/Accessories, test equipment required for trials are to be intimated to the yard well in advance and are to be provided by the manufacturer if required.

(b) All documentation for operation, testing, tuning and setting to work is to be provided and a mutually agreed program for their supply is to be made for the same.

Commissioning Consumables. The supplier is to supply the following & it shall also be part of his offer:

(a) Commissioning Material, Consumables & any other testing material required during commissioning of pump on board.

(b) All Jigs, Fixtures and Special Tools for Installation and Alignment are to be supplied by vendor.

(c) First charge of oil & lubricant required for pump commissioning on board.

(d) Any other consumable required for pump commissioning is to be supplied by vendor shall be part of supplies.

(e) Any instrument/apparatus required to be calibrated at time of commissioning of pump shall be carried out by vendor.

J. WARRANTY & PRODUCT SUPPORT

Any equipment supplied under this contract including its spares and Onboard spares must be supportable and obsolescence management support for 30 years.

The OEM should provide a warranty of 36 months from delivery and 12 months from the date of commissioning of the equipment onboard the ship whichever is earlier.

Defect rectification by the OEM during warranty period will include the following at the cost of manufacturer: -

Cost of all consumables, spares and assemblies / sub-assemblies, if required for defect rectification

Service and labor charges

Boarding / loading, air/train fare etc for deputation of service engineer or any other direct or indirect cost for any defect rectification or servicing.

K. MAINTENANCE REQUIREMENTS

Reliability. Reliability shall be achieved by designing equipment, which is robust and simple. The equipment is to be designed for minimum maintenance and for ease of such essential maintenance as is required, incorporating facilities to allow ease of visual inspection so that the internal components are not disturbed.

The manufacturer shall define the following reliability criteria for the equipment /sub-system:

- (i) MTBD – Mean Time between Defects
- (ii) MTBO – Mean Time between Overhauls
- (iii) MTTR – Mean Time to Repair
- (iv) Planned Life
- (v) Life at maximum continuous rating.

Maintenance Policy / ILS Requirement. The planned maintenance should be scheduled for a minimum of 24 months between refits each refit of approximately 3 months duration, including a dry-docking of 3 weeks.

All maintenance and repair between major overhauls should be carried out in situ. The design therefore is to provide accessibility to all working parts. The manufacturer shall define along with a maintenance schedule the planned maintenance intervals and procedure for the equipment.

L. DRAWING & DOCUMENTATION

Drawing.

Preliminary drawings will be submitted by the firm to MDL after order placement along with draft QAP and ATP for approval. After making necessary changes the firm needs to submit the final to MDL for approval 15 days before delivery of pump assembly. The final set of documentation will have:-

(a) Six copies of the drawings showing cross section of the detailed assembly drawings, detailed part list and bill of material are to be submitted to MDL/IHQ for approval. Manufacture of the item is to be undertaken only after drawings are stamped approved.

(b) The manufacture of all the items is to be strictly as per the specifications and the requirements stated above. Any deviation, however minor, must meet the prior approval of MDL/IHQ.

Documentation.

(a) The format and content of documentation being provided should be as per IHQ specifications. Documentation shall be presented for the per ship set as per the table below

DESCRIPTION	CONTENT	<i>COPIES</i>
Technical Manuals	Technical and Operating Instruction Manual	3
	On-board Maintenance Manual	3
	Field and Depot Maintenance Manual	3
Technical Data	Installation Drawings	3
	As fitted Drawings	3
	Certified Test Report	3
All documentation	CD-ROM	2

(b) All associated documentation, drawings and equipment list applicable must be in English language. All drawings and documents shall contain dimensions and other parameters in metric units (SI Units). The drawing and documentation shall be complete to permit installation, operation and testing of equipment on board. The technical manuals and drawings (preferably in AutoCAD 2010) shall be provided in both hardcopy form and on CD-ROM.

(c) The technical documentation should clearly specify the operation procedures viz., starting precautions, necessary checks for starting and shutdown. All maintenance till the end of service life, including procedures to carry out such maintenance should be clearly specified. All mandatory replacement parts required for maintenance is to be indicated. The documents should cover the aspects of operation and maintenance, catering from daily routines upto major overhaul, replacement of major assemblies/components and 'Fault analysis'.

M. SPARES & CONSUMABLES

Spares. The supplier is to recommend & supply Commissioning Spares, On-board spares, Base & Depot spares and test equipment also cost of each item. Such recommendations are to be commensurate with the reliability of critical components used in the system. Special tools and test equipment are to be supplied for on-board maintenance. The supplier is to provide complete details / part no. of vendors and sub-vendors for the spares.

Commissioning Spares. Spares including consumables required for Setting to Work and commissioning of the pump are to be supplied by the supplier.

Any spares required to be changed post commissioning / sea trial of pump on board & prior to handing over ship to owner is in supplier scope.

On Board Spares. An itemised list indicating cost of each item of OBS, special tools and special test equipment, which will be supplied with the main equipment, is to be furnished along with the quotation for the main equipment. The OBS and special tools are to cater for all on board maintenance routines and possible repair requirements. The OBS and tools should include following: -

- (a) All spares required for exploitation up to 2 years.
- (b) One set of important assemblies to effect "repair by replacement".
- (c) One set of general-purpose maintenance tools along with each pump.
- (d) One set of special tools required for dis-assembling/assembling of components to effect "repair by replacement".

Five-year Base Depot spares. Base spares recommendation is to cover maintenance / overhaul requirements for 5 years including two refits. Recommendations for insurance holding of long lead items, if any, are also to be indicated. Itemised cost of B&D spares are to be forwarded with the offer.

The details of the spares should be provided in the Integrated Logistics Management System (ILMS) format attached at Annexure XI.

N. PRESERVATION & SHIPPING REQUIREMENTS

Preservation / Packing / Conditioning. Initial preservation/packing is to be carried out at the manufacturer's works for a period of 24 months and made suitable for tropical conditions and protected against high humidity. If the storage is to be extended beyond a period of 24 months, re-preservation is to be carried out for 12-month extensions. The conditions and cost should be stated in the offer. Details of the preservative used and the procedure for de-preservation and re-preservation are to be indicated in the proposal.

Shipping. All equipment shall be adequately packed and protected with supports to ensure adequate protection during all methods of transportation. Each unit within a package/container shall be clearly marked for identification. The container shall clearly indicate the commodity description with caution marks, weight, size, etc., A separate document giving complete details and instructions for storage, preservation, handling and transportation after delivery is to be supplied. The supplier should indicate the delivery schedule, port of embarkation, transport, packing, preservation, insurance, etc.

O. SPECIAL REQUIREMENTS

Handling: - Provide with eyebolts to handle pump to handle it by means of atleast 02 slings, so that to avoid excessive tilting.

Shock and tilt sensor: - Firm to fit 2 on-off type of shock sensors 10g and 15g to the pump to guard against any shocks suffered during handling or transport. Along with shock sensor, 2 tilt sensors are also to be fitted on the pump with their arrow to the top and on 2-planes at 90° to one another.

Firm to fit 2 shock sensors on even on the crate of 15g and 25g sensitivity. Also 2 tilt sensors are to positioned on vertical walls and at walls oriented at 90° to one another.

P. SERVICE LIFE

Sr.No.	Service	Time Period
1	Continuous Fail free operation at all regimes	1500 hrs
2	MTBF	10000 hrs
3	Total service life	35 years

RATE SHEET**TENDER ENQUIRY NO.: GEM/2026/B/8150499**

Sr.No	Item Description	Qty (Nos./Set)	Basic unit Price (Rs)	Total basic Price (Rs)	Total Price including tax (Rs)	GST %	HSN /SAC Code	Quoted/ Not quoted
100	Type tested Pre-heating fresh water pump BX system pump assembly a) Yellow banded.	01 Nos						
200	PREHEATING FRESH WATER PUMP, RN- 12ED000C0069	03 Set						
300	Installation and commissioning (INCO) spares for BX pump INCO one set consist of i) Mechanical seal, o-rings & seal faces - 1 set ii) Set of gaskets - 1 set The list is tentative, actual list of INCO spares	03 Set						
400	Onboard spares (OBS) for BX pump assembly OBS one set consist of i) Mechanical seal - 1 no. ii) Set of gaskets - 1 set iii) set of bearings (Motor) - 1 set iv) Impeller Nut - 1 no. v) Parallel Key - 1 no. The list is tentative, actual list of OBS will be decided based on OFFER and TNC	03 Set						
500	Documentation of BX Pump assembly 3 hardcopies and 2 soft copies on CD-ROM consisting of:- a) Technical and Operating Instruction Manual b) On-board Maintenance Manual c) Field and Depot Maintenance Manual d) Installation Drawings e) As fitted Drawings f) Certified Test Report	01 Set						
Total (Rs)								

Note: -

- 1) Firm to quote prices inclusive of all i.e., taxes & duties (if any) on non-exceeding basis on GEM portal only. Break up for the same to be shared post price bid opening. GST will be paid at actuals on non-exceeding basis.
- 2) Firm to submit blank rate sheet with applicable GST rate and HSN code.

TEF ACCEPTANCE FORMAT
(Bidder requested to fill complete details as)

To
MAZAGON DOCK SHIPBUILDERS LIMITED
PROJECT COMMERCIAL DEPARTMENT
4TH FLOOR, SSA BUILDING.

TENDER ENQUIRY NO.: GEM/2026/B/8150499

TEF CLAUSE No.	BIDDER'S REMARK	TEF CLAUSE No.	BIDDER'S REMARK	TEF CLAUSE No.	BIDDER'S REMARK
	ACC/DEV		ACC/DEV		ACC/DEV
1.		2.		3.	
4.	Not Applicable	5.		6.	
7.		8.		9.	
10.		11.		12.	
13.		14.		15.	
16.		17.		18.	
19.		20.		21.	
22.					

COMPANY'S NAME & ADDRESS :

SIGNATURE:
DATE:
NAME:
DESIGNATION:
BIDDER'S COMPANY SEAL:

NOTES:

1. Bidder should carefully read the Terms & Conditions of the Tender Enquiry Form (TEF) prior to filling up this acceptance format.
2. This format should be properly filled, signed and returned by the bidder(s) along with their technical offer for considering their Bid.
3. Bidder should indicate "ACC" for Accepted, "DEV" for Deviation Taken for each clause number in the above table.
4. Bidder to attach Separate Sheet indicating all relevant details such as Number & description of the Clause, Reasons for Deviation and Alternative suggested for any deviations taken by them.
5. Clause numbers shown in the above format also includes the sub-clauses under these clauses. For example, Clause no. '3' means – Clause nos. 3.1, 3.1.1, 3.1.2-----

DEVIATION FORMAT**(Bidder to fill, sign, stamp and RETURN this form in bid)**

To,
MAZAGON DOCK SHIPBUILDERS LIMITED
PROJECT COMMERCIAL DEPARTMENT
4TH FLOOR, SSA BUILDING.

TENDER ENQUIRY NO.: GEM/2026/B/8150499

Deviation Sr. No.	Page Sr. No. or Enclosure Reference of the Tender Enquiry	Clause Number for Which the Deviation is Sought	Brief Text Description of the Clause	Reasons for Deviation	Suggested Alternative
1.					
2.					
& so on...					

COMPANY'S NAME & ADDRESS :

SIGNATURE :
DATE :
NAME :
DESIGNATION:
BIDDER'S COMPANY SEAL:

FORM OF WARRANTY CERTIFICATE

In accordance with the Order N°..... Dated placed by MAZAGON DOCK SHIPBUILDERS LIMITED on _____(Name of firm)

Description of Spares /Item(s) and Manufacturer's Serial Number (OR any other such ID No) as per packing list no..... datedenclosed herewith

Bill of Lading/Air Way Bill no /Delivery Challan No. & Date.....

Covered by _____ (Name of firm) Invoice No & Date..... are warranted according to the terms and conditions as specified in the order.

The Date of issue of the certificate: DD/MM/YYYY

The Date of the end of validity of the guarantee: DD/MM/YYYY

For and on behalf of

COMPANY'S NAME & ADDRESS:

SIGNATURE :
DATE :
NAME :
DESIGNATION :
SUPPLIER'S COMPANY SEAL:

PROFORMA BANK GUARANTEE FOR PERFORMANCE
(ILLUSTRATIVE FORMAT)

(On Non-Judicial stamp paper of value Rs. 500/-. However, the value of stamp paper to be confirmed from Legal Department, MDL.)

IN CONSIDERATION OF MAZAGON DOCK SHIPBUILDERS LIMITED, a company incorporated under the Companies Act 1956 and having its registered office at Dockyard Road, Mumbai 400010 (hereinafter referred to as the "the Purchaser" which expression shall, unless it be repugnant or contrary to the subject or context thereof, be deemed to mean and include its successors and assigns) having placed an order on Messers a partnership firm/sole proprietor business/a company registered under the Companies Act, 1956 having its Registered office at (hereinafter called the Contractor/ Supplier which expression shall, unless it be repugnant or contrary to the subject or context thereof, be deemed to mean and include its successors and assigns) vide order No..... dated..... (hereinafter called "the order" which expression shall include any amendments/alterations to "the order" issued by "the Purchaser") for the supply , delivery at site, installation and commissioning of certain equipment, item/services/civil works etc. as stated in the said Order and the Purchaser having agreed that the Contractor / Supplier shall furnish a security for the performance of the Contractor's / Supplier's obligations and/or discharge of the Contractor's / Supplier's liability in connection with the said order and the Purchaser having agreed with the Contractor/Supplier to accept a performance guarantee, We, Bank having office at (hereinafter referred to as "the Bank" which expression shall includes its successors and assigns) hereby agree to pay to the Purchaser without any demur on first demand an amount not exceeding Rs..... (Rupees.....only) being **3%** of the order value against any loss or damage, costs, charges and expenses caused to or suffered by the Purchaser by reason of non-performance and non-fulfilment or for any breach on the part of the Contractor / Supplier of any of the terms and conditions of the said order.

2. We, Bank further agree that the Purchaser shall be sole judge whether the said Contractor/Supplier has failed to perform or fulfil the said order in terms thereof or committed breach of any terms and conditions of the order and the extent of loss, damage, cost, charges and expenses suffered or incurred or would be suffered or incurred by the Purchaser on account thereof and we waive in the favour of the Purchaser all the rights and defences to which we as guarantors may be entitled to.

3. We, Bank further agree that the amount demanded by the Purchaser as such shall be final and binding on the Bank as to the Bank 's liability to pay and the amount demanded and the Bank undertake to pay the Purchaser the amount so demanded on first demand and without any demur notwithstanding any dispute raised by the Contractor/Supplier or any suit or other legal proceedings including arbitration pending before any court, tribunal or arbitrator relating thereto, our liability under this guarantee being absolute and unconditional.

4. We, Bank further agree with the Purchaser that the Purchaser shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said order/or to extend time of performance by the Supplier from time to time or to postpone for any time to time any of the powers exercisable by the Purchaser against the Contractor/Supplier and to forbear to enforce any of the terms and conditions relating to the order and we shall not be relieved from our liability by reason of any such variation or extension being granted to the Contractor/ Supplier or for any forbearance, act or omission on the part of the Purchaser or any indulgence by the Purchaser to the Contractor/Supplier or by any such matter or things whatsoever which under the law relating to sureties would have the effect of relieving us.

5. We, Bank further undertake not to revoke this guarantee during its currency except with the previous consent of the Purchaser in writing.

6. We, Bank also agree that the Bank's liability under this guarantee shall not be affected by any change in the constitution of the Contractor / Supplier or dissolution.....

7. Notwithstanding anything contained herein above:

i) Our liability under this guarantee shall not exceed Rs.....

ii) This Bank Guarantee shall be valid upto and including; and
iii) We are liable to pay the guarantee amount or any part thereof under this Bank Guarantee only and only if you serve upon us a written claim or demand on or before (validity + ---weeks from the date of expiry of this guarantee).
8. This Guarantee shall be governed by Indian laws and the Courts at Mumbai, India shall have the exclusive jurisdiction.

IN WITNESS WHEREOF the Bank has executed this document on this..... day of
.....

For Bank
(by its constituted attorney)

(Signature of a person authorized
to sign on behalf of "the Bank")

Order (Public Procurement No.4) dtd 23 Feb 2023 on Restrictions under Rule 144 (xi) of the General Financial Rules (GFRs), 2017

GoI vide Order (Public Procurement No.4) dtd 23 Feb 2023 has imposed Restrictions under Rule 144 (xi) of the General Financial Rules (GFRs), 2017 on bidders from a country which shares a land border with India. Accordingly, following shall be complied by the Bidders while submitting bids.

A) Any bidder from a country which shares a land border with India will be eligible to bid in this tender, whether of goods or services (including consultancy services and non-consultancy services) only if the bidder is registered with the Competent Authority. Further, any bidder (including an Indian bidder) who has a Specified Transfer of Technology (ToT) arrangement with an entity from a country which shares a land border with India will be eligible to bid in any procurement whether of goods or services (including consultancy services and non-consultancy services) only if the bidder is registered with the Competent Authority.

B) The Competent Authority for the purpose of registration under this Order shall be the Registration Committee constituted by the Department for Promotion of Industry and Internal Trade (DPIIT). **The Bidder shall submit declaration / certificate as per Annexure "C" towards compliance of Public Order on Restrictions under Rule 144 (xi) of the General Financial Rules (GFRs), 2017.** Any false declaration and non-compliance of the above would be a ground for debarment and further legal action in accordance with law.

C) Validity of registration: In respect of tenders, registration shall be valid at the time of submission of bids and at the time of acceptance of bids. In respect of supply otherwise than by tender, registration should be valid at the time of placement of order. If the bidder was validly registered at the time of acceptance / placement of order, registration shall not be a relevant consideration during contract execution

D) This order will not be applicable for cases stipulated in the Order (Public Procurement No.4) (as amended from time to time)

E) "Bidder" for the purpose of this Order (Public Procurement No.4) (including the term 'tenderer', 'consultant' 'vendor' or 'service provider' in certain contexts) means any person or firm or company, including any member of a consortium or joint venture (that is an association of several persons, or firms or companies), every artificial juridical person not falling in any of the descriptions of bidders stated hereinbefore, including any agency, branch or office controlled by such person, participating in a procurement process.

F) "Bidder from a country which shares a land border with India" for the purpose of this Order (Public Procurement No.4) means

- a) An entity incorporated, established or registered in such a country; or
- b) A subsidiary of an entity incorporated, established or registered in such a country; or
- c) An entity substantially controlled through entities incorporated, established or registered in such a country; or
- d) An entity whose beneficial owner is situated in such a country; or
- e) An Indian (or other) agent of such an entity; or
- f) A natural person who is a citizen of such a country; or

g) A consortium or joint venture where any member of the consortium or joint venture falls under any of the above

Note: "Beneficial owner" for the purpose of above paragraph (C) will be as under:

(i) In case of a company or Limited Liability Partnership, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person(s), has a controlling ownership interest or who exercises control through other means.

Explanation-

a. "Controlling ownership interest" means ownership of, or entitlement to, more than twenty-five per cent of shares or capital or profits of the company;

b. "Control" shall include the right to appoint the majority of the directors or to control the management or policy decisions, including by virtue of their shareholding or management rights or shareholder's agreements or voting agreements;

(ii) In case of a partnership firm, the beneficial owner is the natural person(s) who, whether acting alone or together, or through one or more juridical person, has ownership or entitlement to more than fifteen percent of capital or profits of the partnership;

(iii) In case of an unincorporated association or body of individuals, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has ownership or entitlement to more than fifteen percent of the property or capital or profits of such association or body of individuals;

(iv) Where no natural person is identified under (i) or (ii) or (iii) above, the beneficial owner is the relevant natural person who holds the position of senior managing official;

(v) In case of a trust, the identification of beneficial owner(s) shall include identification of the author of the trust, the trustee, the beneficiaries with fifteen percent or more interest in the trust and any other natural person exercising ultimate effective control over the trust through a chain of control or ownership.

G) "Agent" for the purpose of this Order (Public Procurement No.4) dtd 23 Feb 2023 is a person employed to do any act for another, or to represent another in dealings with third persons.

I) "Transfer of Technology" means dissemination and transfer of all forms of commercially usable knowledge such as transfer of know-how, skills, technical expertise, designs, processes and procedures, trade secrets, which enables the acquirer of such technology to perform activities using the transferred technology independently.

J) In works contracts, including turnkey contracts, contractors shall not be allowed to sub-contract works to any contractor from a country which shares a land border with India unless such contractor is registered with the Competent Authority.

To be included in Liabe for Rejection Clause

Bidders not furnishing declaration / certificate as per Annexure "C" towards compliance of Public Order on Restrictions under Rule 144 (xi) of the General Financial Rules (GFRs), within given period and associated documents.

Declaration of Compliance of Order (Public Procurement No.4) dtd 23 Feb 2023 on Restrictions under Rule 144 (xi) of the General Financial Rules (GFRs), 2017

This declaration must form part of all tenders & it contains general information and serves as a declaration form for all bidders. (Before completing this declaration, bidders must study the General Conditions, Definitions, Govt Directives applicable in respect of Public Procurement No.4) dtd 23 Feb 2023 on Restrictions under Rule 144 (xi) of the General Financial Rules (GFRs), 2017 & prescribed tender conditions).

DECLARATION BY AUTHORISED SIGNATORY OF THE FIRM

I, the undersigned, (full names),
do hereby declare, in my capacity as
of M/s (name of bidder entity), that:

1) The facts contained herein are within my own personal knowledge.

2) I have read the Order (Public Procurement No.4) dtd 23 Feb 2023 on the subject of Restrictions under Rule 144 (xi) of the General Financial Rules (GFRs), 2017 regarding restrictions on procurement from a bidder of a country which shares a land border with India and comply to all the provisions of the Order.

3) I certify that M/s (name of bidder entity) **is not from such a country and does not have any specified Transfer of Technology (ToT) from such a country / is from such a country or if having specified ToT from such country, has been registered with the Competent Authority (strike out whichever is not applicable).** I hereby certify that this SUPPLIER fulfills all requirements in this regard and is eligible to be considered. [Where applicable, evidence of valid registration by the Competent Authority is attached]

4) I certify that M/s (name of bidder entity) **is not from such a country or, if from such a country, has been registered with the Competent Authority (strike out whichever is not applicable)** and will not sub-contract any work to a contractor from such countries unless such contractor is registered with the Competent Authority. I hereby certify that this bidder fulfills all requirements in this regard and is eligible to be considered. [Where applicable, evidence of valid registration by the Competent Authority shall be attached.]

5) I understand that the submission of incorrect data and / or if certificate / declaration given by M/s (name of bidder entity) is found to be false, this would be a ground for immediate termination and further legal action in accordance with law as per Clause 18 of the Public Order on Restrictions under Rule 144 (xi) of the General Financial Rules (GFRs), 2017

AUTHORISED SIGNATURE: _____

DATE: _____

Seal / Stamp of Bidder

Shelf Life Details of Items

(To be submitted by bidder along with offer)

Item Sr. No.	Item Description	Part No.	Shelf Life Period	Remarks with respect to relevant storage conditions
100				
200				
So on..				

Notes: Supplier shall ensure that:-

- a. Minimum 80% residual Shelf Life is available to MDL at the time of delivery.
- b. Date of Manufacture & Date of Expiry are indicated on the product as well as in the packing list of shelf life items.

For and on behalf of

COMPANY'S NAME & ADDRESS:

SIGNATURE :

DATE :

NAME :

DESIGNATION :

SUPPLIER'S COMPANY

SEAL:

DECLARATION CERTIFICATION FOR LOCAL CONTENT

This declaration must form of all tenders & it contain general information and serves as a declaration form for all bidders (Before completing this declaration, bidders must study the General Condition, Definition, Govt Directives applicable in respect of Local Content & prescribed tender conditions).

LOCAL CONTENT DECLARATION BY CHIEF FINANCIAL OFFICER OR OTHER LEGALLY RESPONSIBLE PERSON NOMINATED IN WRITING BY THE CHIEF EXECUTIVE OR EXECUTIVE OR SENIOR MEMBER / PERSON WITH MANAGEMENT RESPONSIBILITY (CORPORATION, PARTNERSHIP OR INDIVIDUAL)

IN RESPECT OF BID / TENDER No.....
ISSUED BY: (Name of Firm)

NB: The obligation to complete, duly sign and submit this declaration cannot be transferred to an external authorized representative, auditor or any other third party acting on behalf of the bidder.

I, the undersigned, (full names), do hereby declare, in my capacity as of (name of bidder entity), the following:

- (a) The facts contained herein are within my own personal knowledge.
- (b) I have read and understood the requirement of local content (LC) and same is specified as percentage calculated in accordance with the definition provide at clause 2 of revised Public Procurement (preference to Make in India) Order 2017.

 "Local content" as per above order means the amount of value added in India which shall be the total value of items procured (excluding net domestic indirect taxes) minus the value of imported content in the item (including all customs duties) as a proportion of the total value in percent.
- (c) I have satisfied myself that the goods / services / works to be delivered in terms of the above specified bid comply with the local content requirement as specified in the tender for 'Class- I Local Supplier' / 'Class-II Local Supplier', and as above.
- (d) I understand that a bidder can seek benefit of either Public Procurement Policy for MSEs – Order 2012 or Public Procurement (preference to make in India) Order 2017 and not both and once the option is declared / selected it is not permitted to be modified subsequently Accordingly, I seek the benefit from the below declared purchase preference policy only.

i) I seek benefits against the following policy only (Select only one Option):

1) PPP MSE Order
2012

(applicable for MSE
manufacturers)

2) PPP MII 2017

(applicable for Class I suppliers
as well as MSE manufacturers)

(Note: if not declared / selected it shall be deemed that purchase preference benefit is sought under PPP MII 2017 policy. However, selection of both the options will be treated as ambiguous and will result in rejection of bid)

e) The local content calculated using the definition given above are as under:

Tender item Sr No	Local content calculated as above %	Location of Local value addition (Location shall be the specified as name of city or district etc. Location as name of country will be considered as ambiguous and such bids shall be rejected.)

Attach separate sheet duly signed if space is not sufficient.

NB: Local content percentage shall be declared item wise or tender wise strictly as per the terms of the tender.

f) I accept that the Procurement Authority / Institution / MDL / Nodal Ministry has the right to request that the local content be verified in terms of the requirements of revised Public Procurement (preference to Make in India) Order 2017 dated 16.09.2020 and I shall furnish the document / information on demand. Failure on my part to furnish the data will be treated as false declaration as per PPP MII Order 2017. In case of contract being awarded, I undertake to retain the relevant documents for 7 years from date of execution.

g) I understand that the submission of incorrect data, or data that are not verifiable as described in revised Public Procurement (preference to make in India) Order 2017 dated 16.09.2020

SIGNATURE:

DATE:

.....

Seal / Stamp of Bidder

ACTUAL LOCAL CONTENT CERTIFICATE

Note 1: This certificate shall be submitted by the successful bidder post execution of the contract.

LOCAL CONTENT DECLARATION (post execution of contract / PO). THE SUPPLIER SHALL PROVIDE THIS CERTIFICATE FROM STATUTORY AUDITOR OR COST AUDITOR OF THE COMPANY (IN CASE OF COMPANIES) OR FROM A PRACTICING COST ACCOUNTANT OR PRACTICING CHARTED ACCOUNTANT (IN RESPECT OF SUPPLIER OTHER THAN COMPANIES) GIVING THE PERCENTAGE OF LOCAL CONTENT.

IN RESPECT OF CONTRACT No./ PO No......

ISSUED BY: (Name of Firm):.....

I, the undersigned, (full names),
do hereby declare, in my capacity as
of (name of bidder entity),
that:

(a) The facts contained herein are within my own personal knowledge.

(b) My/our company had declared the local content at the time of tender as under

Tender Item Sr No	Local content calculated as above %	Location of local value addition

(c) My / our company has completed the above referred contract and the actual local content of the delivered item/s calculated using the definition in the declaration given at the time of Bid is as under:

Tender Item Sr No	Declared minimum Local content at the time of bidding (%)	Achieved Local content of delivered items (%)

NB: Local content percentage shall strictly be declared item wise or tender wise as was declared at the time of bid / tender.

(d) I accept that the Procurement Authority / Institution / MDL / Nodal Ministry has the right to request that the local content be verified in terms of the requirements of revised Public Procurement (preference to Make in India) Order 2017 dated 16.09.2020 and I shall furnish the document / information on demand. Failure on my part to furnish the data will be treated as false declaration as per PPP MII Order 2017. I undertake to retain the relevant documents for 7 years from date of execution.

(e) I understand that the submission of incorrect data, or data that are not verifiable as described in revised Public Procurement (preference to Make in India) Order 2017, may result in the Procurement Authority / Nodal Ministry / MDL imposing any or all of the remedies as provided for in Clause 9 of the Revised Public Procurement (preference to Make in India) Order 2017 dated 16.09.2020.

SIGNATURE : _____
of Competent Authority

DATE: _____

Stamp / Seal of the company

EXTRACT OF PROVISIONS OF THE OFFICIAL SECRETS ACT, 1923

SECTION 2(B): "PROHIBITED PLACE"

It is defined as the place of any work of Defence Dockyard and other so belonging or occupied and used for the purpose of building, repairing, making or storing any ammunitions of war.

For the purpose of the above definition, sketch includes any photograph or other mode of representing any place or thing.

SECTION 3: "PENALTIES FOR SPYING"

If any person unlawfully - approaches, inspects, passes over or is in the vicinity of any clear place; or make any sketches intended to be directly or indirectly useful to an enemy ; or c) Obtains collects records or communicates to any other person any secret official code.

Shall be liable for imprisonment of 14 years in case of Defence Installation.

SECTION 4: "COMMUNICATION WITH FOREIGN AGENTS"

If any person has been in communication with or attempted to communicate with foreign agents regarding the vital information of any "PROHIBITED PLACE" would be guilty of violating the provisions of this Act.

SECTION 5: "WRONGFUL COMMUNICATION OF INFORMATION"

If any person having in his possession or control any official document;

- a) Willfully communicates to any person, other than a person, who is authorised to communicate it.
- b) Used the information in his possession for the benefit of any foreign power.
- c) Retain in his possession when he has no power to retain it
- d) Fails to take reasonable care of it.

Shall be guilty of an offence under this Act.

SECTION 6: "UNAUTHORISED USE OF UNIFORMS"

If any person for the purpose of gaining admission or of assisting any other person to gain admission to a "PROHIBITED PLACE" wears uniforms without lawful authority shall be guilty of offence under this Section.

SECTION 7: "INTERFERING WITH OFFICERS OF POLICE"

No person in the vicinity of any "PROHIBITED PLACE" shall abstract any Police Officer engaged on guard, sentry or similar duty. If any people move in the provisions of this section, shall be punishable with imprisonment, which may extend up to 3 years.

SECTION 8: "DUTY OF GIVING INFORMATION"

It shall be duty of every person to give on demand to a superintendent of Police or any other Police Officer not below the rank of Inspector, any information in his power relating to an offence under this Act. If any person fails to give such information, shall be punishable with imprisonment to 3 years or fine or with both.

SECTION 9: "INCITEMENT"

Any person who attempts to commit or debate the commission of an offence under this Act shall be punishable with the same punishment and be liable to be proceeded against in the same manner as if he had committed such offence.

SECTION 10: "PENALTY FOR HARBOURING SPIES"

If any person whom he knows or has reasonable grounds for supposing to be person who is about to commit or who has committed offence under this Act shall be guilty of offence under this Section.

SECTION 11: "SEARCH WARRANTS"

If a presidency Magistrate, Magistrate First Class or Sub-Divisional magistrate is satisfied with the information that there is reasonable ground for suspecting that an offence under this Act has been or is about to be committed, he may grant search warrant to any Police Officer to enter at any time any premises to force to search premises or the places.

We accept and comply by the above clauses of EXTRACT OF PROVISIONS OF THE OFFICIAL SECRETS ACT, 1923.

Bidder's Signature.....

Bidder's Name.....

Company Seal.....

ILMS FORMAT- DETAILS OF ITEMS FOR INCATING																				
Sr. no.	Propack Code	B&D Spare Description (60 characters only)	Main Equipment model No	Main Equipment Description	OEM NAME OEM details to be given and not that of the Firm/Shipyard supplying equipment	OEM Address - To include Tele Numbers & E-mail Ids	OEM Part Number (Old) As per Equipment Technicial Manual (24 characters only)	OEM Part Number As per ILMS Data Provided for SM-1 to SM-3 (if applicable)	Supplier's Part Number (Current) If different from Column H	OEM Part Number (Current) If different from Column H, I and J	Consumable/ Repairable/ Permanent (CRP) category	VED Category (Under 10% - Vital Under 20% - Essential Under 80% - Desirable)	EASK Type (Complete Equipment - E Assembly - A Sub- Assembly - S Spare Part - K)	Component Number of Part Identification List(PIL)/ Drawing Reference & Details of Items	Numbers in each equipment- Applicable for assembly, sub-assembly & Below	Quantity OBS	Qty B&D for 3SM/5yrs	SI Unit (eg. Kg, m, No. etc)	PRICE IN CURRENCY	PRICE REFERENE (WITH COPY)
Hint: As given in tender	Hint: As given in tender	Hint: As given in tender	Hint: Detail of Main item to be given, of which this particular spare is a part of (RN number or any other ref number)					Hint: To be left blank if itemnot supplied under B&D order for SM1-SM3		Hint: Respective spare's OEM's Part no if different from H, I and J										