

Ref: BMN/MM/ENQ/25-26/068

Date: 20/03/2026

ENQUIRY/RFQ

REQUEST FOR QUOTATION (RFQ)

REPAIR WORKS OF 01 X 80TR WATER COOLED & 02 X 100TR AIR COOLED CHILLER UNITS  
AT BAPL NAGPUR

1. BrahMos Aerospace, Nagpur invites “**TWO Bid System**” sealed tenders for **Repair Works of 01 X 80TR Water Cooled & 02 X 100TR Air Cooled Chiller Units** as per **Scope of work document** attached at **Annexure-I**.

**DUE DATE FOR SUBMISSION OF TENDER: 06 April 2026**

2. **Scope of work:** All the terms and conditions and technical requirements mentioned in **Scope of Work Document attached at Annexure -I (04 Pages)** to be adhered. All raw materials, labour, transport, loading & unloading, any other incidental charges related to work will be in supplier's scope.

3. **Delivery Terms:** The repair works to be completed within **One month** from the date of release of Work Order.

4. **Inspection Agency:** BrahMos Aerospace will be the Inspection Agency. Work will be inspected and accepted after completion at site by BAPL. Work completion & acceptance certificate from BAPL is must for claiming final payment.

5. **SITE VISIT:** The bidders are advised to visit (with prior appointment) and examine the site of works and their surrounding and obtain for himself and on his own responsibility all information that may be necessary for preparation of the bid and entering into contract. The costs of visiting the site shall be at bidders' own expenses. No extra claim on account of non-familiarity of site conditions shall be entertained during execution of work.

6. The quotation should clearly indicate technical specs, price, GST, HSN code, warranty, validity, delivery lead time, any other terms conditions (if any). Item HSN code and GST rate with Supplier GST registration number must be provided with quotation.

7. **Payment terms:** Our organisation being a Joint venture under Ministry of defence generally offers payment terms of **100% payment by RTGS within 45 days after repairs, delivery, installation, commissioning and satisfactory acceptance**, against submission of **GST Invoice, work completion certificate and other related documents** and against submission of **10% warranty BG** for warranty period plus three months claim period. If warranty BG is not submitted 10% amount will be retained for warranty period plus claim period.



8. **Warranty BG:** A BG from an Indian nationalized bank OR Axis/HDFC/ICICI/Kotak Bank for 10% of the total basic PO value valid up to the entire warranty period plus claim period of 03 (Three) months is to be submitted along with the invoice post-delivery of the items.

9. **Liquidity damages:** The Buyer may deduct from the Seller, as agreed, liquidated damages at the rate of **0.5% per week/part thereof**, of value basic cost (excluding taxes and duties on final product) of the delayed stores which the seller has failed to deliver within the period agreed for delivery in the contract subject to **maximum of 10% of the total order value** (excluding taxes and duties on final product). In cases where partial delivery does not help in achieving the objective of the contract, LD shall also be levied on the total cost (excluding taxes and duties on final product) of the ordered quantity delivered by the vendor. This will also include the store(s) supplied within the delivery period that could not be put to use due to late delivery subject to a maximum of 5% of the total order value (inclusive of taxes and duty) of the Contract.

10. **Regret to submit quotation:** In case the supplier regrets to submit quotation, the documents sent with the enquiry are to be returned in as issued condition without any duplication and/or photocopying. In case the vendor is unable to quote, vendor shall send a regret letter/ email without fail. In case of non-receipt of quotations or regret letters/emails for three consecutive enquiries, such vendor is liable to be removed from our vendor list.

11. **TWO BID SYSTEM:** Bidders shall submit the offer in **TWO INNER ENVELOPES** as indicated below which shall be sealed in **One Outer Envelope**.

**Envelope I** - This sealed envelope should contain all the copies of **Technical bid**. This envelope should be clearly marked "**Part I - Technical bid**", indicating Tender No., Due Date and Address & Reference of the Bidder. **Following sequence of documents is desirable:**

- i) Introductory/Covering/Reference letter, list of documents attached.
- ii) Signed & stamped scope of work document **Annexure-I**.
- iii) Stamped and signed Tender/ Enquiry document.
- iv) Earlier work orders, work experience certificates for similar works.

**Envelope II** - This sealed envelope shall contain **only the price details as per Annexure-II & III. Annexure-III includes the detailed bifurcation of all item-wise prices. Bidders are required to mandatorily fill Annexure-III and submit it along with the Price Bid.** This envelope should be clearly marked "**Part II - Price bid**", indicating Tender No., Due Date and Address & Reference of the Bidder. **It should contain only the duly filled and signed Price bid strictly as per- format of Annexure-II & III.**

12. Both the **envelopes (Part I & II)** shall be put in One cover, **duly sealed**, super scribing as "**Tender for Repair Works of 01 X 80 TR Water Cooled & 02 X 100 TR Air Cooled Chiller Units at BAPL Nagpur site**", Tender No., due date and the address and reference of the Bidder. The above offer should reach this office on or before the **due date i.e. 06.04.2026 & time 11:00 hrs.**



*Tender should not be addressed to any Individuals name but only by designation to:*

**Chief General Manager**

**BrahMos Aerospace Pvt Ltd.**

**DRDO, PJ-10 Complex, Near Mohagaon bus stop,**

**KM 22, Wardha Road, Village: Bothli, PO: Butibori, Nagpur -441108.**

**13. Validity of offer:** The offers for supply shall be kept open for acceptance for a **period of 90 days (ninety days) from the date of opening of the tender (Part I)**. Offers with less validity may be summarily rejected by us.

**14. EVALUATION OF TECHNO-COMMERCIAL BID:** The Techno-Commercial Bid forwarded by the Bidders will be evaluated by a Techno-Commercial Evaluation Committee (TCEC) to confirm that the items being offered meet the requirement. The TCEC will examine the extent of variations/differences, if any, in the technical characteristics of the items offered by Bidder. The Bidder, if required, may also be called for the TCEC meeting for clarification on the Techno-Commercial Bid submitted by them.

**15. EVALUATION OF PRICE BID:**

- (a) The Price Bids of only those Bidders will be opened and evaluated, whose technical bids have been cleared by TCEC. The unopened Price Bids will be returned back to the Bidders by the Buyer on request by the Bidders. The Price Bids will be evaluated on the basis of individual line-item wise basis.
- (b) If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected.
- (c) If there is a discrepancy between words and figures, the amount mentioned in words shall prevail.

**16.** The tender shall be submitted in accordance with these instructions and any tender not confirming the instructions as above is liable to be rejected. These instructions shall form the part of the tender and contract.

**17.** This RFQ is being issued with no financial commitment and BrahMos Aerospace Pvt Ltd (also referred as "BAPL" or "Buyer" ) reserves the right to change or vary any part thereof or foreclose the procurement at any stage. BAPL also reserves the right to disqualify any vendor at any stage, should it be necessary on account of security consideration. **Chief General Manager, BrahMos, reserves the right to reject any tender/bid wholly or partly without assigning any reason at any stage.**

**19. CLARIFICATION REGARDING CONTENTS OF THE BIDS:** During evaluation and comparison of Bids, the Buyer may, at its discretion, ask the Bidder for clarification of his Bids. The request for clarification will be given in writing and no change in prices or substance of the Bids will be sought, offered or permitted. No post-Bid clarification on the initiative of the Bidder will be entertained.



**20. MODIFICATIONS (CHANGE IN SCOPE OF WORK), IF ANY:**

- (a) Should Buyer desire any modifications or improvements, additions or alterations to the design, drawings, specifications, place of delivery etc., the same shall be carried out by the firm.
- (i) Without additional payments: If the modifications or improvements are of minor in nature and are intimated before undertaking of the job as per existing specifications has been carried out.
- (ii) On payment of additional Expenses and extension of delivery schedule on mutual agreement, if modifications or improvements are major in nature.
- (b) The recommendations of Committee / PRC will be considered as the basis for both Minor and Major modifications and for determining the requirements of additions/ reduction in expenditure and time for the contractor.

**21. UNDERTAKING FROM THE BIDDERS:** Bidder/firm/company/vendor will submit an undertaking that in the past they have never been banned/debarred for doing business dealings with Ministry of Defence/Govt. of India/any other Govt. organization and that there is no enquiry going on by CBI/ED/any other Govt. agency against them.

**22. CONFIDENTIALITY OF INFORMATION:** No party shall disclose any information to any 'Third Party' concerning the matters under this RFP generally. In particular, any information identified as 'Proprietary' in nature by the disclosing party shall be kept strictly confidential by the receiving party and shall not be disclosed to any third party without the prior written consent of the original disclosing party. This clause shall apply to the sub-contractors, consultants, advisors or the employees engaged by a party with equal force.

**23.** Any Clarification may be sought from undersigned on a working day either on telephone or by personal visit to the site. **Project officer/ Contact Person for this tender is: Mr. Ritesh Tiwari, LL: (07103-282765 /741).** The receipt of the RFP may please be acknowledged.

Thanking you.



**FOR BrahMos Aerospace Private Limited**

(Authorized Signatory)  
**Kaustubh M. Kulkarni**  
Sr. Systems Manager (MM)  
BrahMos Aerospace

**ENCL:**

- 1. Annexures-I : Scope of Work.**
- 2. Annexure -II: Price Bid Format.**
- 3. Annexure-III: Detailed bifurcation of all item-wise prices**

**Annexure-II****Ref. Enquiry No. BMN/MM/ENQ/25-26/068 dtd 20/03/2026****PRICE BID FORMAT****QUOTATION FOR REPAIR WORKS OF 01 X 80TR WATER COOLED & 02 X 100TR AIR COOLED  
CHILLER UNITS AT BAPL, NAGPUR**

Sr. No	Item description/Work Description	Qty	UoM	Quoted Unit Price (Rs.)	Total Amount(Rs.)
1	Repair & Servicing of 80 TR capacity Water-cooled Chiller (as per the scope of work attached)	01	No.		
2	Repair & Servicing of 100 TR capacity Air-cooled Chiller (as per the scope of work attached)	02	No's		
<b>Total Basic amount (Rs.):</b>					
<b>Taxes :</b>					
<b>Gross Total amount (Rs.):</b>					
<b>Amount in words (Rs.):</b>					
Delivery destination: <b>F.O.R. BrahMos Nagpur</b>					
Validity of offer: <b>90 Days</b> from opening of bid.					
Payment terms: 100% payment by RTGS within 45 days after delivery and satisfactory acceptance and against submission of GST Invoice, work completion certificate and other related documents					
Warranty BG: 10% on total PO basic value applicable					
Work Completion:					
Warranty/Guaranty: One Year					
LD Clause: Applicable as per tender enquiry					

**Note: Other terms conditions agreed as per Tender enquiry.****Signature & Seal of Supplier**

**Annexure-III****Ref. Enquiry No. BMN/MM/ENQ/25-26/068 dtd 20/03/2026****DETAILED BIFURCATION FOR REPAIR WORKS OF 01 X 80TR WATER COOLED & 02 X 100TR AIR COOLED CHILLER UNITS AT BAPL, NAGPUR**

Sl. No	Material Description	UOM	Qty	Unit Price (Rs.)	Total Price (Rs.)
<b>01</b>	<b>80TR Water Cooled Chiller (York Make)</b>				
i)	Expansion Valve, Make: Danfoss	No.	01		
ii)	Nitrogen pressure testing, Vaccumizing, gas charging & re-commissioning	Lot.	01		
iii)	Refrigerant R-22	Kg	51		
<b>02</b>	<b>BOM for 100TR Air Cooled Chiller (Carrier Make)</b>				
i)	Compressor oil as required	Lot	02		
ii)	R-134a Refrigerant (Virgin)p	Kg	240		
iii)	Oil Filter	Set	02		
iv)	Drier Core	Set	02		
v)	Dismantling, Loading / Unloading & transportation of 06T compressor to Service center (if required)*	Lot	02		
vi)	Inspection, rewinding & overhauling of compressor along with bearing of 06T compressor.	Lot	02		
vii)	Recovery of refrigerant into empty cylinder, flushing of system with Nitrogen, replacement of consumables including O-rings.	Lot	02		
viii)	Chiller sub parts de-hydration, like evaporator,	Lot	02		
ix)	Blocking of leaked tubes	Nos	03		
x)	Eddy current testing and videoscopy of tube to check health & extent of damage to evaporator	Lot	02		
xi)	Flow switch for chiller	Nos	04		
xii)	Pressure testing, Vacuuming, gas charging & recommissioning of chiller post repair of	Lot	02		
xiii)	Functional test of Chiller post repairs	No	02		
xiv)	Expansion Valve (if required)*	No	02		
xv)	Economizer Valve (if required)*	No	02		

\*Any Other requirements please specify

**Signature & Seal of Supplier**

Regd. Office: BrahMos,  
Kirby Place, Delhi Cantt-110 010, INDIA  
Ph: 91-11-33123000, Fax: 91-11- 2568 4827.

Email: mm.ngp@brahmos.com, varaprasad.beram@brahmos.com  
Website: [www.brahmos.com](http://www.brahmos.com)

CIN – U74899DL1995PTC074334

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**BrahMos Aerospace Pvt. Ltd**  
An Indian-Russian Joint Venture

**Scope of Work for Repairs of 01 x 80 TR Water Cooled & 02 x 100 TR Air Cooled Chiller Units at BAPL, Nagpur**

01. **Scope of work towards replacement of expansion valve of 80 TR Water cooled chiller (Make: York) to ensure leak free installation and optimal performance.**

**Preparation and Refrigerant Recovery:**

- Isolation of refrigerant circuit. Pump out the R-22 gas into clean recovery cylinder by means of certified recovery machine.
- Removal of Non-functional Expansion Valve by following un-brazing process with adequate precaution.
- Supply, Installation and Interconnection of Danfoss make expansion valve. Brazing to be done for joining of new expansion valve by means of brazing method and after brazing allow the joints to air cool naturally.
- Post installation, nitrogen pressure leak testing to be carried out.
- Evacuation and dehydration (24 Hrs vacuum hold test to ensure the system is "Tight and Dry") to be carried out.
- Charge the system with virgin or recovered R-22 refrigerant, as per the 80 TR specifications. Ensure new expansion valve is feeding the evaporator properly and running smoothly without undue vibrations.

02. **Scope of work towards Tube leak rectification, Dehydration of all gas lines and compressor overhauling of 2 No 100 TR Air cooled chillers (Make: Carrier).**

**(i) Pipeline Rectification and leak Repair:**

- Dismantle both site cooler Dish end.
- Descale the Cooler.
- Eddy current testing to check tubes condition
- Pressurise the System by Nitrogen to identify / Rectify the Leakage
- Once identified, the damaged tube can be plugged at both ends using tapered plugs or as per the OEM standards.
- Final validation of all rectified joints to be done under pressure. No leak allowed.

**(ii) Compressor Overhauling:**

- Carefully disconnect piping and mounting bolts, then remove the compressor unit.
- Disassemble the compressor step-by-step, accessing internal components like Winding Screw, rotors, bearings.
- clean all components to remove dirt, and contaminants.

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- Inspect every part for wear, corrosion, or damage, measuring clearances as per Design. Check bearings (thrust and journal), rotors, the slide valve mechanism, and all O-rings.
- Replace all worn or damaged parts with new or refurbished components (e.g., bearings, seals, gaskets, filter cartridges).
- Carryout re-winding, if necessary.
- Reassemble the compressor according to OEM standards.
- Replace the oil filter and oil & Consumable.
- Carryout Nitrogen leak test to ensure the integrity of re-assembled casing.
- Verify motor rotation, oil flow and sensor activity.

**(iii) De-Hydration of Chiller units:**

- Perform a triple evacuation or use a Nitrogen purging to pull the moisture out of the system before re-charging.

**(iv) Refrigerant R-134a Recharging:**

- Charge the system with virgin / recovered R-134a refrigerant, as per the 100 TR specifications.

**(v) Final Testing and commissioning:**

- Install the overhauled compressor into the system,
- Pressurize the System & hold 24 hours.
- leaks test for Using leak detector or soap solution.
- Vacuumize the System (500 to 700 Micron)
- Charge the system with the refrigerant with qty as per design (refer point. (iv)).
- Start the compressor and monitor all operating parameters of chiller and associated parts.
- Testing high pressure cut-outs, low pressure cut-outs and anti-freeze thermostats. Ensure the chiller achieves the required temperature difference across the evaporator.

**03. Spares / Consumables (tentative)**

Raw material procurement, transportation of compressor, repairs & replacements of for ibid repair shall be entirely in vendor's scope. All consumables / activities have to be carried out as per OEM specification & standards. The tentative material required for repairs of chiller is tabulated below:

Sl. No	Material Description	UOM	Qty
<b>BOM for 80TR Water Cooled Chiller (York Make)</b>			
01	Expansion Valve, Make: Danfoss	No	01
02	Nitrogen pressure testing, Vaccumizing, gas charging & re-commissioning	Lot	01
03	Refrigerant R-22	Kg	51

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<b>BOM for 100TR Air Cooled Chiller (Carrier Make)</b>			
01	Compressor oil as required	Lot	02
02	R-134a Refrigerant (Virgin)	Kg	240
03	Oil Filter	Set	02
04	Drier Core	Set	02
05	Dismantling, Loading / Unloading & transportation of 06T compressor to Service center (if required)*	Lot	02
06	Inspection, rewinding & overhauling of compressor along with bearing of 06T compressor.	Lot	02
07	Recovery of refrigerant into empty cylinder, flushing of system with Nitrogen, replacement of consumables including O-rings.	Lot	02
08	Chiller sub parts de-hydration, like evaporator, pipelines, etc.	Lot	02
09	Blocking of leaked tubes	Nos	03
10	Eddy current testing and videoscopy of tube to check health & extent of damage to evaporator	Lot	02
11	Flow switch for chiller	Nos	04
12	Pressure testing, Vacuuming, gas charging & recommissioning of chiller post repair of compressor.	Lot	02
13	Functional test of Chiller post repairs	No	02
14	Expansion Valve (if required)*	No	02
15	Economizer Valve (if required)*	No	02

(\*) Final decision will be taken by BAPL, Nagpur after technical evaluation.

04. **Testing and Inspection:** Chiller testing after compressor overhaul and tube repair follow a logical sequence from Pressure integrity to full load thermodynamic performance as per OEM standards.

**(i) Mechanical & Pressure Integrity Tests**

- Positive Pressure Test
- Vacuum Hold Test
- Alignment & Balancing

**(ii) Electrical & safety control verification**

- Insulation Resistance
- Safety Cut-outs
- Phase Rotation

**(iii) Initial Start-up & Running Parameters**

- Oil System Performance
- Amperage & Voltage



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- Vibration & Noise

**(iv) Thermodynamic Performance Testing**

- Approach Temperature
- Delta T
- Efficiency Calculation (kW/Ton)

**05. Acceptance Criteria**

The acceptance of the Chiller repairs is subject to the following criteria:

- Supply of OEM specified spares & consumables. Submission of Certificate of Conformance for equivalent materials.
- All satisfactory pressure test & functional test reports as per OEM standards.
- Installation and Commissioning of the overhauled compressor with actual chiller will be done by vendor in presence of BPAL or authorized representative. Any alteration during fitment will be under vendor's scope.

**06. Warranty**

12 months from the date of final acceptance of chiller.



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02/03/2026

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