



# BrahMos Aerospace Private Limited

An India-Russia Joint Venture

Web : [www.brahmos.com](http://www.brahmos.com) E-mail : [mail@brahmos.com](mailto:mail@brahmos.com)

BMC/OTE/BAPL-P/25-26/FT

Date: 13 May 25

## **INVITATION OF BIDS FOR PROCUREMENT OF FIRE TENDER FOR BRAHMOS COMPLEX PILANI**

**REQUEST FOR PROPOSAL (RFP) No. BMC/OTE/BAPL-P/25-26/FT dt 13 May 2025**

1. Bids in sealed cover under **Two-Bid System** are hereby invited by BrahMos Aerospace Pvt Ltd for the procurement of Fire Tender for BrahMos Complex Pilani. The detailed scope of work has been brought out in **Part II of this RFP**.

2. The address and contact numbers for sending Bids is given below:

- (a) Bids to be addressed to: Abhishek Panigrahi  
AGM (Commercial)
- (b) Postal address for sending the Bids: BrahMos Aerospace Pvt. Ltd.  
16, Cariappa Marg, Kirby Place,  
Delhi Cantt, New Delhi-110010  
**(referred as Buyer)**
- (c) Contact Nos.: Tel: 011-42285101, 011-42285103  
Fax: 011-42285129  
Email: [contracts@brahmos.com](mailto:contracts@brahmos.com)

3. This RFP is divided into 5 Parts as follows:

- PART I : General Information  
PART II : Essential Details of Items/Services required  
PART III : Standard Terms & Conditions of RFP  
PART IV : Special Conditions of RFP  
PART V : Evaluation Criteria & Price Bid issues



**Abhishek Panigrahi**  
**AGM (Commercial - Production Control)**  
**BrahMos Aerospace**

**PART I – General Information**

4. **Last date and time for depositing the Bids:** The sealed Bids under **Two-Bid system (Techno-Commercial Bid & Price Bid)** should reach at the above given address through post / in person latest by **06 June 2025, 1100 Hrs.** The responsibility to ensure this lies with the Bidder. **Early submission of the Bids is acceptable to the Buyer.**

5. **Manner of depositing the Bids:** Sealed Bids consisting of Techno-Commercial Bid & Price-Bid to be put in a single envelope with the '**Proforma format**', as enclosed, pasted on top, should be dropped in the Tender Box marked as **TENDER BOX NO. 1** so as to reach by the due date and time. Late tenders will not be considered.

6. **Location of the Tender Box:** Tender Box is placed in front of Reception area of BrahMos Aerospace HQ, New Delhi. **Only those Bids that are found in the tender box will be considered and opened.** Bids dropped in the wrong Tender Box will be rendered invalid.

7. **Forwarding of Bids:** Bids forwarded by the Bidder shall also include the following documents along with the technical bid, failing which, bids are liable to be rejected: -

(a) Confirmation of their acceptance of the Standard Terms & Conditions of the RFP mentioned below (refer **Appendix-B**).

(b) An unconditional acceptance of all tender terms and conditions of RFP as per **Appendix –C** to be submitted by BIDDER.

(c) **Past experience.** Past experience Minimum two years' experience out of last three years (i.e. 2022-23, 2023-24 and 2024-25) for supply of Fire Tenders. Copies of relevant and authenticated documents (indent/supply orders/contract documents and completion cert from the buyer etc) supporting the same issued by the Department of Central Government/ State Government or Public Sector Unit, where the bidder has successfully completed the delivery. The bidder must have supplied at least Five (5) Fire Tenders in last Two Financial Years.

(d) **Performance Cert.** Past performance certificate issued by Army/Central Paramilitary Forces/Central Govt/State Govt Departments for last three years for supply of Fire Tenders for personnel of Army/Central Para Military Forces/Central Govt/State Govt departments must be submitted.

(e) **Annual turnover** Average Annual Turnover of last three financial year duly audited by a licensed Chartered Accountant must be submitted along with the bid documents.

(f) **UDYOG Aadhar No. for MSME.** UDYAM Certificate printed on or after 01 April 2024 to be clearly indicated along with supporting documents for MSME/SME (i.e MSME/SME registration certificate) should be uploaded along with the tender.

(g) Ministry of MSME have clarified that all Central Ministries/Departments/Central Public Sector Undertakings may relax condition of prior turnover and prior experience with respect to Micro and Small Enterprises in all public procurements subject to meeting of quality and technical specifications. Exceptions for MSMEs/ SMEs can be accepted only if the MSME/SME is registered with tendered items and the validity of their registration as MSMEs should not be expired till opening of Tech Bid.

(h) If the tenderer/bidder is a registered firm or a company under Company Act, such tenderer/ bidder must submit a **certified true copy of the registration deed** along with the tender. When a tender is submitted by a firm, all the partners of the firm shall be required to sign the tender else power of attorney in favour of the signatory is required to be



submitted along with the tender. A copy of partnership deed will also be submitted along with the tender. **(duly attested by Notary).**

(j) **PAN Card Number** along with clear and legible photocopy **(Self attested).** (refer Appendix-D).

(k) **Photocopy of GST registration certificate clearly specifying the name of the firm/proprietor and GST registration number. Self-attested.** (refer Appendix-D)

(l) The bidder should submit Income Tax Return of last three years. In case of exemption of ITR. The scanned copy of document in support of exemption will have to be uploaded by the bidder along with technical bid, failing which tender is liable to be rejected **(Self attested).**

(m) **Financial Stability Certificate** issued during current financial year (i.e **01 Apr 2024 onwards**) from Scheduled Bank, preferably Nationalised Bank mentioning the approximate value up to which the tenderer is capable of undertaking the contract.

(n) A **latest Power of Attorney** in original (**not more than two years old**) under oath by Oath Commissioner/First Class Magistrate or equivalent (if the tender is not signed by the actual tenderer or the tender is submitted on behalf of a firm) and signature (s) of the signatory (ies) in the tender **duly attested by a Class – I Gazetted Officer or Class-I Magistrate/Notary.**

(o) All bidders are required to submit **Non-Blacklisting** certificate as per Appendix 'E' attached with the RFP along with technical bid documents. **(Self Attested)**

(p) Other relevant documents, which the Bidder wishes to submit.

#### 8. **Pre-Bid clarification:**

(a) Prior to preparation of the **Techno-Commercial Bid**, clarifications regarding the technical terms & conditions, if any, be obtained from the **Additional Director (Production), BRAHMOS Complex, Pilani** mail: [masood@brahmos.com](mailto:masood@brahmos.com), Mobile: +91 90005 77168 within **07 working days** from the date of RFP.

(b) Prior to preparation of the **Techno-Commercial Bid and Price Bid**, clarifications regarding the commercial terms, if any, be obtained from **HoD (Commercial), New Delhi**, mail: [contracts@brahmos.com](mailto:contracts@brahmos.com) within **07 working days** from the date of RFP.

**The Pre-Bid Meeting is mandatory and will be scheduled between 20-21 May 25. Interested Bidders to forward the interest for participation in the meeting on [masood@brahmos.com](mailto:masood@brahmos.com) with a copy to [contracts@brahmos.com](mailto:contracts@brahmos.com).**

9. **Modification and Withdrawal of Bids:** A bidder may modify or withdraw his bid after submission provided that the written notice of modification or withdrawal is received by the Buyer prior to deadline prescribed for submission of bids. A withdrawal notice may be sent by e-mail but it should be followed by a signed confirmation copy to be sent by post and such signed confirmation should reach the purchaser not later than the deadline for submission of bids. No bid shall be modified after the deadline for submission of bids. No bid may be withdrawn in the interval between the deadline for submission of bids and expiration of the period of bid validity specified.

10. **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.**

11. **Rejection of Bids:** Canvassing by the Bidder in any form, unsolicited letter and post-tender correction may invoke summary rejection. Conditional tenders will be rejected.

12. **Validity of Bids:** The Bids should remain valid till **3 months** from the last date of submission of the Bids.

13. **Conditions under which this RFP is issued:** This RFP is being issued with **no financial commitment**. The Buyer reserves the right to withdraw the RFP and change or vary any part thereof or foreclose the procurement case at any stage. The Buyer also reserves the right to disqualify the Bidder, should it be so necessary at any stage.



**PART II – Essential Details of Items/Services required**

14. **Scope of Work**. As per the attached **Appendix-A**.
15. **Warranty**: 1 Year from completion of work.
16. **Quality**: The items supplied must of latest manufacture & should conform to current production standards. The vehicle selected must be of 2025 vintage and must be a brand new vehicle. All manufactured components must be fabricated strictly as per the Scope of Work outlined in the scope of work placed at Appendix-'A'
17. **Inspection Agency**: Third Part Inspection (TPI): Prior to dispatch of the vehicle, stage wise and final inspection & testing will be carried out by the bidder to complete satisfaction of (TPI) agency without any extra cost to BrahMos Aerospace Private Limited. Third Party Inspection will be carried out either by M/s Lloyds, M/s EIL, M/s DNV, M/s RITES, M/s ICL or any other government certified agencies.



**PART III –STANDARD TERMS & CONDITIONS**

The Bidder is required to give confirmation of their acceptance of the Standard Terms & Conditions of the RFP mentioned below (refer **Appendix-B**) which will automatically be considered as part of the Contract concluded with the successful Bidder (i.e. Seller in the Contract) as selected by the Buyer. **Failure to do so may result in rejection of the Bid submitted by the Bidder.**

18. **Law:** The Contract shall be considered and made in accordance with the laws of the Republic of India. The contract shall be governed by and interpreted in accordance with the laws of the Republic of India.

19. **Effective Date of the Contract:** The contract shall come into effect on the date of placement of Purchase Order and shall remain valid until the completion of the obligations of the parties under the contract. The deliveries and supplies shall commence from the effective date of the contract.

20. **Arbitration:** All disputes or differences arising out of or in connection with the Contract shall be settled by bilateral discussions. Any dispute, disagreement or question arising out of or relating to the Contract or relating to construction or performance, which cannot be settled amicably, may be resolved through arbitration.

21. **Penalty for use of Undue influence:** The Seller shall undertake that he has not given, offered or promised to give, directly or indirectly, any gift, consideration, reward, commission, fees, brokerage or inducement to any person in service of the Buyer or otherwise in procuring the Contracts or forbearing to show favour or disfavour to any person in relation to the present Contract or any other Contract with the Buyer. Any breach of the aforesaid undertaking by the Seller or any one employed by him or acting on his behalf (whether with or without the knowledge of the Seller) or the commission of any offers by the Seller or any one employed by him or acting on his behalf, as defined in the Bhartiya Nyaya Sanhita (BNS), 2023 or the Prevention of Corruption Act, 1988 or any other Act enacted for the prevention of corruption shall entitle the Buyer to cancel the contract and all or any other contracts with the Seller and recover from the Seller the amount of any loss arising from such cancellation. A decision of the Buyer or his nominee to the effect that a breach of the undertaking had been committed shall be final and binding on the Seller. Giving or offering of any gift, bribe or inducement or any attempt at any such act on behalf of the Seller towards any officer/employee of the Buyer or to any other person in a position to influence any officer/employee of the Buyer for showing any favour in relation to this or any other contract, shall render the Seller to such liability/ penalty as the Buyer may deem proper, including but not limited to termination of the contract, imposition of penal damages, forfeiture of the Bank Guarantee and refund of the amounts paid by the Buyer.

22. **Non-disclosure of Contract documents:** Except with the written consent of the Buyer/Seller, other party shall not disclose the contract or any provision, specification, plan, design, pattern, sample or information thereof to any third party.

23. **Termination of Contract:** The Buyer shall have the right to terminate this Contract in part or in full in any of the following cases:

- (a) The delivery of the material is delayed for causes not attributable to Force Majeure for more than **02 months** after the scheduled date of delivery.
- (b) The Seller is declared bankrupt or becomes insolvent
- (c) The delivery of material is delayed due to causes of Force Majeure by more than **02 months** provided Force Majeure clause is included in contract.
- (d) As per decision of the Arbitration.



24. **Notices:** Any notice required or permitted by the contract shall be written in the English language and may be delivered personally or may be sent by FAX or registered pre-paid mail/airmail, addressed to the last known address of the party to whom it is sent.

25. **Transfer and Sub-letting:** The Seller shall have no right to give, bargain, sell, assign or sublet or otherwise dispose of the Contract or any part thereof, as well as to give or to let a third party take benefit or advantage of the present Contract or any part thereof.

26. **Risk and Expense Clause:**

(a) Should the stores or any instalment thereof not be delivered within the time or times specified in the contract documents, or if defective delivery is made in respect of the stores or any instalment thereof, the Buyer shall after granting the Seller 45 days to cure the breach, be at liberty, without prejudice to the right to recover liquidated damages as a remedy for breach of contract, to declare the contract as cancelled either wholly or to the extent of such default.

(b) In case of a material breach that was not remedied within 45 days, the BUYER shall, having given the right of first refusal to the SELLER be at liberty to purchase, manufacture, or procure from any other source as he thinks fit, other stores of the same or similar description to make good:-

(i) Such default

(ii) In the event of the contract being wholly determined the balance of the stores remaining to be delivered thereunder.

27. **Force Majeure clause:** Should any Force Majeure circumstances arise, each of the contracting party shall be excused for the non-fulfillment or for the delayed fulfillment of any of its contractual obligations, if the affected party within **30 (Thirty) days** of its occurrence informs in a written form the other party. Force Majeure shall mean fires, floods, natural disasters or other acts, that are unanticipated or unforeseeable, and not brought about at the instance of, the party claiming to be affected by such event, or which, if anticipated or foreseeable, could not be avoided or provided for, and which has caused the non-performance or delay in performance, such as war, turmoil, strikes, sabotage, explosions, quarantine restriction beyond the control of either party. A party claiming Force Majeure shall exercise reasonable diligence to seek to overcome the Force Majeure event and to mitigate the effects thereof on the performance of its obligations under this contract. **A meeting with reps of BUYER and SELLER will be conducted before invoking Force Majeure Clause.**

28. **Packing and Marking:** The deliverables shall be packed in standard containers / packets as recommended by the manufacturer for storage and transportation. The packing of the item shall conform to the requirements of specifications and standards in force in India. Following Marking to be stenciled on one side of each container / bottle: -

- (a) Description of Contents
- (b) Place of Factory, Address
- (c) Date of Manufacture
- (d) Net Weight of contents
- (e) Name of Manufacturer
- (f) Warranty Period



**PART IV – SPECIAL TERMS & CONDITIONS**

The Bidder is required to give confirmation of their acceptance of Commercial Terms & Conditions of the RFP mentioned below (refer **Appendix-B**) which will automatically be considered as part of the Contract concluded with the successful Bidder (i.e. Seller in the Contract) as selected by the Buyer. **Failure to do so may result in rejection of Bid submitted by the Bidder.**

29. **Payment Terms:** 100% of the order value plus applicable GST will be paid only after satisfactory delivery duly certified by BAPL rep & submission of Invoice in Original.

30. **Invoice Preparation:** All Invoices shall contain the following information:

(a) All Invoices shall be raised and submitted to DGM (Finance), BAPL, Pilani with a copy to HoD (Commercial), BAPL, New Delhi. The address of BRAHMOS Complex, Pilani is:

BrahMos Aerospace Pvt. Ltd.

BrahMos Complex,

Pilani, Post Dulania

District: Jhunjhunu

Rajasthan

Pin: 333031

(b) GSTIN No. for Pilani unit is 08AABCR8269E1Z5 and the same shall be mentioned in all invoices as applicable.

31. **Documents to be submitted for claiming payment:** The following documents need to be submitted to DGM (Finance), BRAHMOS Complex, Pilani by SELLER for claiming payment:

(i) Ink signed copy of Commercial Invoice.

(ii) Copy of Order placed on SELLER by BUYER

(iii) Certificate of Acceptance issued by the Buyer / or its nominated inspector (original) during PDI at site

32. **Price:** The price is required to be submitted separately in the Price Bid (**Appendix-F**). Rates will not be indicated in the technical bid and if indicated, then the tender will be considered invalid.

33. **Taxes and Duties:** GST applicable at the time of dispatch will be paid extra by the Buyer. GST will be paid when ITC is available to BAPL in GSTIN site.

34. **Liquidated Damages:** Will be at the rate of 0.5% per week of delay and part thereof subject to maximum of 10% of order value on failure to complete the work within the need date as mentioned in the Purchase Order.



**PART-V - Evaluation Criteria & Price Bid issues**

35. The Bidder is required to submit **detailed Techno-Commercial Bid containing all Terms & Conditions as enumerated at Part II, Part III and Part IV of this RFP** and give confirmation of their acceptance of all Terms & Conditions (refer **Appendix-B**) which will automatically be considered as part of the Contract concluded with the successful Bidder (i.e. Seller in the Contract) as selected by the Buyer. The deviations, if any, may be clearly indicated in the Techno-Commercial Bid along with the Compliance Statement. **Failure to do so may result in rejection of Bid submitted by the Bidder.**

36. **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. This would be a paper evaluation comprising of scrutiny of all documents, technical literatures, certificates, compliance statements etc submitted by the bidders and any document asked by the TEC. 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.**

37. **Evaluation of Price Bid.** The Price Bids of only those Bidders will be evaluated, **whose technical bids have been cleared by TCEC.** The price negotiation will be carried out by a Price Negotiation Committee (PNC). The Price Bid will be opened in front of TCEC qualified Bidders and negotiation will be carried out with the L1 Bidder. The Price Bids will be evaluated on the basis of total scope.

38. List of Documents to be submitted by BIDDER / SELLER at various stages of execution of order:

<b>Sl No.</b>	<b>Documents</b>	<b>Reference in RFP</b>	<b>Remarks</b>
1.	Techno-Commercial BID	Para 1 of RFP	As part of Techno-Commercial BID
2.	Price BID	Para 1 of RFP & Appendix-F	
3.	Compliance Statement (along with soft copy in excel sheet in .xlsx)	Appendix-B	
4.	Acceptance of Terms & Conditions of Tender	Appendix-C	
5.	Electronic Payment System Mandate Form	Appendix-D	
6.	Non-Blacklisting Certificate	Appendix-E	
7.	Bidder Registration / Assessment Document	Para 7 of RFP	
8.	Documents for Claiming Payment	Para 31 of RFP	During payment claim

39. Please acknowledge receipt of this RFP.

Thanking You,

Yours sincerely  
For BrahMos Aerospace Pvt. Ltd.



Abhishek Panigrahi  
Additional General Manager (Commercial)



**Abhishek Panigrahi**  
**AGM (Commercial - Production Control)**  
**BrahMos Aerospace**

**1. INTRODUCTION:****APPENDIX-A**

- a) These specifications cover the requirements regarding design, procurement, fabrication, testing & supply of Water and Foam Fire tender, complete in all respects, to be used for firefighting at BrahMos Aerospace Private Limited, Pilani, Rajasthan.
- b) The scope of supply will be inclusive of, but not limited to the following:
- Chassis, Tank and Foam Proportioner
  - A centrifugal type firewater pump
  - Power Take Off (PTO) unit
  - Water Tank with capacity of 5000L & Foam capacity of 1000L
  - Body Fabrication
  - Accessories and spares
  - Piping, necessary controls complete in all respects
  - Cooling system of indirect type with open circuit
- c) The Chassis for the water tender shall be procured by the bidder, the bidder shall be responsible for supplying all equipment and accessories after properly integrating them onto the chassis, as described in these specs.
- d) Any additional details or requirements not explicitly mentioned but necessary for the completion of the water tender and/or to fulfill operational and performance requirements shall be provided by the bidder.
- e) The bidder shall ensure the complete design and construction of the appliance to the full satisfaction of BrahMos Aerospace private Limited, Pilani Rajasthan.
- f) The fire tender should be fabricated using the materials specified against each subsystem in present scope of work, using the best quality materials and workmanship, ensuring effective and efficient operation.
- g) The fire tender shall generally conform to IS 950 Part 1, Part 2 and Part 3, IS:950-2012 standards (Functional requirements for water tender, for fire brigade use) and IS:10460 for foam tender.



BrahMos Aerospace  
AGM (Commercial - Production Control)  
Ajay Singh Panigrahi

**2. BASIC REQUIREMENTS:**

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- a. The water Tender, including all accessories, shall be designed, manufactured and tested as per relevant Indian and international standards, wherever applicable.
- b. All equipment and accessories shall be:
  - Installed in compact and neat manner.
  - Positioned to ensure ease of access for operation & maintenance.
  - Installed to keep the vehicle's center of gravity as low as possible.



### 3. CHASSIS

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- a) The fabrication of Fire Tender shall be done on TATA / EICHER / ASHOK LEYLAND BS VI 18.5 Ton Chassis having GVW of 18,500.00 KG.
- b) Engine will be capable of developing at least 120BHP at 2400 RPM
- c) Bidders should offer a complete package including the cost of the chassis. Chassis shall be mounted with 5KL Water Tank in SS304 and 1 KL Foam Tank in SS304, along with 2250 LPM @10 kg/cm2 multi- pressure pump.
- d) Chassis should be complete with standard features and accessories provided by the manufacturer. Additional provisions, indicated in these specifications are also to be installed by the BIDDER.
- e) The BIDDER will arrange necessary temporary registration/permit & insurance till vehicle is delivered at BrahMos Aerospace Private Limited, Pilani, Rajasthan.
- f) The Bidder will confirm the proposed TATA/ASHOK/EICHER chassis can take the payload indicated by the bidder and will be able to meet the duty requirements. Any restrictions on performance of chassis, observed during execution of order due to increase by the BIDDER in payload and other duty parameters will have to be corrected by the bidder in consultation with BrahMos Aerospace Private Limited & Chassis supplier. Such corrections will be at no extra cost to BrahMos Aerospace Private Limited.
- g) Drag Hook or eye of adequate strength and design shall be provided at the rear and front of the chassis.



**4. WATER & FOAM TANK:**

The capacity and specifications for the water tank is specified below:

Capacity	5000 lit
Material	SS 304
Thickness Bottom, Top, Side and Baffle	B – 5mm rest all 4 mm and Baffle 3 mm
Overflow	100mm
Manhole	1 no. of 450-500mm
Cleaning Hole	100 mm
Drain cock and a pipe	75 mm
Hydrant	2 no. of 63 mm NRV
Connections	a. Hydrant - tank, b. Hydrant - reel, c. Tank – pump – hose reels, d. Tank - Pump - Monitor

**FOAM TANK:**

Capacity	1000 lit
Material	SS 304
Thickness Bottom, Top, Side and Baffle	B – 5mm rest all 4 mm and Baffle 3 mm
Manhole	1 no. of 450-500mm
Cleaning Hole	100 mm
Drain cock and a pipe	75 mm

- a) Foam proportioner: Around the pump foam propitiating system with variable Setting valve for 3% TO 6% concentration.
- b) A calibrated dip tape will be provided on the tank to measure the tank level.
- c) The water tank will be of weldable construction & will be suitable stiffened with angles/flats so as to avoid buckling & distortion.
- d) The tank will be provided with anti-vortex device at the nozzle for pumping suction.
- e) An inspection manhole of 450-500mm size will be provided on the top with a hinged & bolt able cover with suitable gasket.
- f) Suitable lifting lugs will be provided on the tank to enable it to be lifted off the vehicle for repairs/replacement.
- g) The tank will be fitted with sludge trap. The bottom of the tank will have a slight slop towards the sludge trap.
- h) 100mm cleaning hole should be there, the drain hole will be fitted with 50mm drain pipe having ISI marked gate valve.
- i) Tank would be mounted on chassis on a manner, keeping in view the proper load distribution on the axles. Tank would be rectangular in shape.
- j) A dial gauge water level indicator will be provided in driver's cabin.
- k) A suitably protected water level indicator of the graduated glass tube will be provided close to the control panel. Isolation valve will be provided just after the tap off point near the water tank for level indicator.



- l) The tank will be fitted by means of suitably sized water feeding line from pressurised hydrants mains 4x63mm, SS instantaneous male connectors (2 on rear side and one on each side of tender) will be connected to the filling line. The inlet lines will have suitable NRV's.
- m) The tank will be fitted with one filling orifice, the filling orifice should not have less than 250mm diameter and will be fitted with an inspection manhole on top of water tank.
- n) A 150 mm diameter pipeline will be taken from the tank to the suction inlet of the pump incorporating a SS ball valve. Separate Valves for performing different functions will be provided to control the flow of water.



## **5. PUMP:**

### **1.1 Pump type: (HP/LP)**

A single stage pump shall be mounted suitable at rear of the vehicle. The fire pump shall be compiling to latest addition to NFPA 1901 and EN1028 rear mounted, high- and low-pressure CE&UL marked and UL classified with priming arrangement, And well renowned make. The make of the pump should be specifically mentioned in the technical bid, else liable to be rejected. The pump shall be of multi pressure type (High & Low pressure). The Low-pressure section shall be single stage centrifugal and the High-pressure section shall be single stage having regenerative type impeller. The pump shall meet international standards as per UL Standards. The relevant pump certificate of CE&UL marking shall be enclosed with technical bid.

### **5.2 - Pump Performance**

**The pump shall perform the following duties:**

- 1) Normal pressure output not less than - 2250 lpm@10kg/cm<sup>2</sup>
  - 2) High pressure output: 300 lpm@ 35-40 kg/cm<sup>2</sup> and above through 2 high pressure guns.
  - 3) Maximum pressure in normal pressure mode: 10 kg/cm<sup>2</sup>.
  - 4) Maximum pressure in high pressure mode: 40 kg/cm<sup>2</sup>.
  - 5) Deep lift test of the pump from 7m within 24 seconds.
- The authorization certificate from OEM/ manufacturer and UL certifications shall be provided at the time of bid submission else concerned applicant bid shall be liable to be rejected.

### **5.3 -Material of Construction:**

A single stage pump shall be mounted suitable at rear of the vehicle. The fire pump shall be compiling to latest addition to NFPA 1901 and EN1028 rear mounted, high- and low-pressure CE&UL marked and UL classified with priming arrangement, And well renowned make. The pump conforming to the EN 1028 standards/specifications shall be of centrifugal type and designed so as to provide easy access to the impeller and the fire pump shall be of well renowned make and CE&UL marked. The pump casing shall be made of Gun metal conforming to Grade 2 to IS 318 :1981. Impeller will be closed type and will be made of Bronze. The pump shaft shall be made of stainless-steel conforming to 04 Cr Ni 10 of IS 6603/ SS of 304. The pump shaft shall be supported by anti-friction bearing external to the casing. All stud/bolts coming in contact with water shall be made from SS.

The mechanical carbon seal self-adjusting type or radial sear of standard approved source shall be provided. The impeller neck ring in the pump casing shall be renewable and manufactured from high quality bronze. The impeller must be dynamically balanced. A stainless-steel drain plug shall be provided at the bottom of the casing.

### **5.4- Pump construction**

- 1) The normal pressure and high-pressure impeller shall be mounted on a single shaft. The low-pressure impeller shall be dynamically balanced.
- 2) The pump shall have a self-adjusting mechanical carbon seal with carbon to mar chrome interface.
- 3) The pump shall have an inbuilt filter removable type, which shall filter water before entering the high-pressure stage impeller.
- 4) The pump shall have an inbuilt Pressure Release Valve which would operate automatically and would not allow the high pressure to increase beyond 40-45 bars. The high-pressure outlet size shall be 25mm.
- 5) The pump shall have a thermal relief valve which shall help to control the temperature of pump



water it shall operate if the water temperature inside exceeds 50 degrees Celsius when both deliveries High pressure and Low pressure are shut-off for a long time.

6) The pump shall have one suction inlet of 100mm having round threads conforming to IS 902:1974 and 4 no's delivery outlets of 63mm having screw down type valves fitted with Gun Metal /SS couplings as per IS 903:1993. The delivery valve screw will have no gland. The high-pressure outlet shall not be less than 19mm and minimum of 01 outlets shall be provided for high pressure hose-reel.

7) PRIMERTEST: The priming system shall be tested for the requirements This shall be carried out immediately after pump output test.

8) All accessories supplied shall be tested in accordance with relevant IS code whichever is applicable.

9) The pump shall have one suction inlet of 100mm size on rear side and shall be provided from the strainer, which shall be easily removable. The suction port shall have 30 degrees drop towards ground to facilitate easy connection to suction hose.

10) The pump will have self-adjusting, maintenance free mechanical seal, which will be capable of running dry for minimum one minute.

11) The pump discharge should be routed to:

- Two number outlets (rear side) each fitted with SS audco make ball valves and ending in ISI marked 63mm SS female coupling fitted with SS end caps.
- Water monitor fitted on top of vehicle.
- Hose reels of high and normal pressure.

12) The pump will be capable of taking suction from:

- Water mounted tank on chassis (normal conditions).
- Open water source through flexible suction hoses up to the suction lift of 7.5m deep with the help of reciprocating primer.
- Hydrant system inside the BrahMos complex.

13) Pump spares:

- Impeller for 2000LPM pump 1Nos.
- Mechanical seal completes with sleeve and gland plate etc. 2 Nos.
- Coupling between PTO unit & pump 2 Nos.
- Water ON-OFF Valve (Delivery Valves) 2Nos.



**6. PUMP PRIMER:**

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- The pump will be fitted with independent priming system made of Gun metal.
- reciprocating primer shall be fitted to the pump. The priming system shall be fully automatic in action and shall require no attention whatsoever from the pump operator other than throttling the engine once the pressure is achieved in the pump. This type of primer shall work from 800-1000 rpm to 2000-2500 rpm. Pump priming shall be accomplished even at the engine idle speed.
- The primer shall disengage automatically at a pump pressure of 1.5 to 2.0 bars.
- The primer should be capable of lifting water up to at least 7.5 meters depth (suction lift) & discharge the same at designed full capacity within 20 seconds.



**7. POWER TAKE OFF UNIT (PTO):**

- a) Heavy duty full torque PTO unit will be fitted behind the engine gear box, to drive the main pump at the rear. The lever of the PTO unit will be fitted in the driver's cabin. A suitable cooling system (copper coil) will be inbuilt in the PTO to cool the oil in the PTO. Max. through torque of PTO will not be less than the max through torque of the chassis engine. The PTO will be connected to the chassis gear box & the pump through heavy duty propeller shafts & center bearings etc. The PTO will be capable of being manually operated. (Make: VAS/Shall/Webster Harper or equivalent)
- b) Bidder will submit a sketch of the arrangement of PTO unit for taking power from main engine on chassis to water pump.
- c) The drive assembly components (shafts, couplings etc.) will be dynamically balances and vibration of any parts would be minimum as per standards.
- d) Necessary support for PTO unit, propeller shaft and couplings & universal joints etc. will be provided.
- e) The PTO will have an inbuilt cooling system. The driving shaft between the main transmission & the PTO will be fully universal type with provision for lubrication & will have spline & socket system.



**8. WATER MONITOR:**

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- a) A monitor shall be provided at suitable location on the top of fire tender and having minimum capacity of 1750 GPM @ 7 kg/cm<sup>2</sup> with an effective throw/ jet of minimum 70 Mtrs (Horizontal) & 50m (Vertical) in still air condition.
- b) Monitor shall be capable of rotating / traversing 360-degree horizontal plane and not less than +75(degree) and -15 (degree) vertically, with a controlling valve near the pump. The complete monitor including the nozzle will be made of hard anodized aluminum alloy (as per IS:617) nozzle with arrangement for foam induction, with water Jet-spray without any restriction should be fitted on the top of vehicle at suitable location. (Make: ESI/AAAG/GC).
- c) Size of monitor should be 100mm, Body Barrels of seamless heavy pipe, GM swivel joint (Gear Type) for horizontal & vertical motor manual operation



**9. HOSE REEL:**

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- Two nos. of high-pressure hose reels to be fitted. The 20 mm inner dia. approx. hose shall be of reputed make and having length of the hose shall be 60 m with manual operated mechanism to roll with Hi Pressure gauge.



**10. BODY WORK/STORAGE/CABIN:**

- a) Pressed section of sufficient strength will be used for super structure. The entire structure of appliance including that of driver's cabin would be a welded structure made of 14/17 SWG pressed section square tubes, angles and channels with aluminum paneling. The complete structure MS will be zinc plated & then painted with zinc rich primer & epoxy paint for corrosion resistance.
- b) Enclosed accommodation with double compartment for six persons with driver and Officer in the front and a crew at the rear shall be provided. The driver seat shall be of adjustable type. The design of the cab shall be such that it affords max. possible vision. Four hinged doors shall be provided on both side of the appliance for easy access to driver and crew. All doors shall open outward and hung forward. The locking arrangement shall be with double catch striking plate. Non slip step and grab rails coated with plastic shall be provided to assist the driver and crew to get in and out. All the seats shall be fitted with 100mm thick foam cushion. All windows shall have safety glasses and all glasses be fitted with winding type regulator. Two number sun visors shall be provided one on each side. The construction of cab shall be such that the roof shall support the weight of two men without damage.
- c) The cab and lockers should be composite construction with sufficient rigidity reinforcement and to be kept as light as possible. The entire structure should be made of MS 30 × 30 × 1.6 mm square tube 16-gauge aluminum sheet shall be „used for exterior paneling work all over. For inner wall of the lockers, 16-gauge mild steel sheets shall be used. 2.5 mm thick aluminum checker plate shall be used for locker & cab floor. Suitable lockers will be provided for storage of equipment's & accessories if required. Size and number of lockers shall be decided at the time of stage inspections. The lockers shall be composite construction. The doors of the lockers shall have efficient means for holding them closed by efficient flush fitting spring loaded locks and hinged at sides. Inner walls of the locker shall be of 16-gauge MS and 2.5 mm thick aluminum checker plate for flooring.
- d) Storage: There should be also adequate lockers space on both sides for stowage of Hose pipes, GM parts, tools & tackles etc. Access to the Diesel tank should be through an opening near diesel tank for filling by a cut out inside paneling and also to facilitated measurement of the Diesel in the tank.
- e) Lockers with roller shutters: Sufficient number of lockers will be provided for storage of equipment as required. Locker on both sides shall be covered with Aluminum rolling shutters. The locker will be provided with drawers as per the latest international standards.
- f) No part of bodywork shall reduce ground clearance of vehicle to less than 36cm. The highest part of the appliance with the ladder & monitor mounted on it will not exceed 3.60m from the ground level.



- g) Reflective stripes will be affixed to the perimeter of the apparatus. The strip or combination of stripes will be minimum of 4" (100mm) in total width.
- h) First Aid Box with fiberglass will be provided & fitted in the cabin at suitable location.
- i) Non-slip type steps and rails will be provided in the cabin to assist the crew members to get in & out.
- j) Provisions will be made in cabin crew to mount 2 nos. BA sets in vertical position with valve down.
- k) The crew structure shall be designed so as to avoid any vibrations/rattling/ deformation in the intended usage.
- l) The frame work on chassis & crew cabin will be welded construction and made from 30x30xs, 1.6mm hollow MS square cross section & distance between each horizontal & vertical sq. will be max. 400mm.
- m) The entire roof of the vehicle including the crew top, entire rear, crew cabin floor, locker floor & sides will be made from 2 mm thick sheets of MS & shall be bolted to the frame for ease in removal of tank for repairs.
- n) Proper draining arrangements will be provided on the entire roof and crew cabin.
- o) Area around the monitor operation will be provided with 17SWG anodized aluminium chequered plate (in addition to 2mm MS sheets) & will be bolted to the frame.
- p) The roof of the cabin should be rigid enough to take the weight of 3 persons 200Kgs without any deformation.
- q) Proper ladder access with Grab rails and non-skid steps will be provided to give access to the roof.
- r) Access handrails constructed/covered by non-slippery materials will be provided wherever steps or ladders for climbing are located.
- s) Water piping will be of SS pipe, fittings and valves in the water circuit which will come in contact with the water solution will be of SS. All piping will be designed to have minimum pressure drop and achieve the required pressure & flow at various locations. All piping shall be hydraulically tested at 1.5 times the design. Pressure however in no case will the lines be hydraulically tested at less than 18Kgf/cm<sup>2</sup> & will be able to hold the pressure for minimum 2 hours



**11. PAINT, FINISH & MARKINGS:**

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- a) The entire appliance shall be painted in two coats of zinc phosphate epoxy primer and PO RED Glossy Paint DUPONT/ ASIAN make confirming to shade No. 536 of IS: 5-1978. The thickness of paint shall be 0.15 to 0.2 mm using double coat spray painting on outer body. At least two coats of anticorrosive paint shall be applied before painting. The paint shall confirm to IS: 2932 - 1974 and service lettering shall be of golden colors. Radium reflectors shall be provided on front & rear bumpers.
- b) Water lines should be painted in red color.
- c) The chassis frame will be painted black & wheel arch will be painted white.
- d) Under frame of chassis will be painted with chlorinated rubber paint.
- e) The appliance will have the following marks at suitable locations:
  - Manufacturers name and trade mark
  - Year of manufacture.
  - Engine & Chassis number
  - Pump serial number & capacity
  - Capacity of Water tank
  - All instruments control & valves will be identified with properly itched metallic nameplates.



**12. LADDER GALLOW:**

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- a) Ladder gallows shall be provided for carrying 35 Ft. aluminum extension ladder. The design shall be such that the ladder can be released without difficulty from reasonable access position and shall embody rollers/bearing to permit easy withdrawal by one man. Means shall also be provided for locking the ladders when stored.
- b) Aluminum extension ladder (35Ft trussed type) will be mounted on suitable gallows fitted with rollers and designed to facilitate easy and quick removal of ladder.



**13. CONTROL PANEL:**

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**An adequately illuminated pump-operating panel will be provided at the rear side of the appliance with following features:**

- Auxiliary throttle control for engine.
- Vacuum (compound) gauge.
- Pressure gauge for both (Normal and High pressure) calibrated to designated pressure for pump discharge.
- Threaded suction inlet of water pump with blank cap.
- Engine Temperature gauge
- Engine oil pressure gauge.
- Quick opening main valve
- Level gauge for water tanks.
- Priming valve for water pump.
- System Schematic etched in SS plate.
- Operating Instruction plate.
- Cooling system valve.
- Valve for hose reels. In addition to above, the successful bidder will provide any other item that the successful bidder may find essential. Each lever, switch, gauge, outlet/inlet etc. will have identifications made on metal plate and duly riveted.
- Amplifier & flashing light beacon system with strobe shall be provided.
- A light bar of 1700mm long operated on 12 V battery having 2 nos. rotating red beacon lights, 4 nos. strobe lights, hooter and PA system in built amplifier and a microphone shall be provided in front of officer's seat in the driver's cabin.



#### **14. ELECTRICAL SYSTEM:**

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- Blinker lights 2 nos. should be in center of the cabin roof of tender duly covered by wire mesh.
- Two number head lights will be fitted on each side.
- Two number wiper blades bigger size to be provided with appropriate type of machine.
- The entire floor of the cabin should be provided with 6mm thick 3M make vinyl matting.
- Cabin will have one roof light & two side lights.
- Windows glasses should move up-down only for closing/opening of the windows.
- Light Bar with PA System. – 01 Nos
- Head lamps – 02 Nos.
- Fog lamps – 02 Nos.
- Search Light with 30 Mtrs. cable reel – 01 No.
- Reversing light - Lamp suitably situated to assist reversing.
- Wind screen wipers - 1 Set
- Spot light: Adjustable, mounted in a convenient position on the near side of the driving compartment. – 02 Nos.
- All wirings should be properly fixed in position and shall be protected against heat oil and physical damage, wiring shall pass through PVC sleeves, wherever necessary.



**15. DCP & CO2 FIRE EXTINGUISHERS**

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**15.1 DCP Extinguishers:** - 2 X 50 Kgs. Capacity each DCP Fire Extinguisher will be provided at convenient position on the appliance. DCP extinguishing system will have 5 Mtrs. hose with nozzle. The DCP extinguisher will be filled with Co2 cylinder for expelling the DCP.

**15.2 CO2 Extinguishers:** - 2 X 22.5 Kgs.Co2 cylinder will be provided with 5 Mtrs. Hose.



**16. ACCESSORIES**

Sr.No.	Description	Qty.	Unit
1.	Aluminum Double Extension Ladder 10.5 Mtrs. Length as per IS 4571- 1977 of as per IS: 10460/ 1983 requirement	1	No.
2.	Heavy Duty Suction Hose "PVC DUTRON" make for Fire Brigade Use complete with coupling to suit the pump inlet 2.5 mtr long	4	Lengths
3.	Delivery Hose 63mm RRL Type-B (converted into Type-III) IS: 636-1988 in 15 m lengths complete with S.S. instantaneous coupling duly ISI marked only	4	Lengths
4.	Suction Strainer for item 2 made of gunmetal	1	No.
5.	Basket Strainer for item 2	1	No.
6.	Branch pipe SS	2	Nos.
7.	Non-percolating type delivery rubber lined hose 63mm X15m	4	Nos.
8.	Hand Lamp LED <ul style="list-style-type: none"> <li>- For use in hazardous atmospheres</li> <li>- Waterproof, IP67</li> </ul> rating Safety Ratings <ul style="list-style-type: none"> <li>- UL Protection Methods</li> <li>- Intrinsically Safe</li> <li>- Division 1 &amp; 2</li> <li>- Class I, II, III Div. 1 Groups A-G</li> <li>- Class I, II, III Div. 2 Groups A-G</li> </ul> Operating Temp T5	2	Nos.
9.	Breathing apparatus complete (compressed air normal air type) 45 minutes duration with Carbon composite cylinder of Drager/MSA/Scott	1	Nos.
10.	Rubber Gloves (1000 V)	1	Pair
11.	Asbestos gauntlet	1	Pair
12.	Axe drift and rescue	1	Pair.
13.	Axe felling	1	No.
14.	Fireman axe with belt and pouch	5	No.
15.	Quick release knife	5	No.
16.	Crow Bar with chisel and claws	1	No.
17.	Sledge Hammer 6.5 kg	1	No.
18.	Fire hook	1	No.
19.	Carpenter saw 60 cm	1	No.



Sr.No.	Description	Qty.	Unit
20.	Hydraulic jack with Tommy bar (Size: 35-ton capacity),	1	No.
21.	Tool Box: - TAPARIA/GEDORE or equivalent make with tools. i. Adjustable wrench (Size:12 inches) – 02 Nos. ii. Adjustable wrench (Size: 08 inches) – 02 Nos. iii. Pipe wrench (Size: 18 inches) – 01 Nos. iv. Double ended spanner (Size: 6 to 32). – 01 Nos v. Rings spanner (Size: 6 to 32). – 01 Nos. vi. Screw Drivers (Size: 6 inches, 8 inches & 12 inches, each 2-nos). vii. Hammer with handle (Size: ½ Kg and 1.2 kg.) each-01 no.	1	No.
	Nose pliers with insulated handle. – 02 Nos. Cutting pliers with insulated handle. – 02 Nos. Hack saw Frame (Size: 18 inches) – 01 Nos. Hack saw blades. (Size:01 inches) – 24 Nos.		
22.	Dividing Breaching	2	No.
23.	Collecting Breaching	2	No.
24.	Pair of Suction Wrench	2	No.
25.	Hose Clamps	6	No.
26.	a) Adapter for 100 mm suction female screw coupling and 63 mm male instantaneous	2	No.
	b) Adaptor double female instantaneous 63 mm	2	No.
	c) Adaptor double male instantaneous 63 mm	2	No.
27.	Three Layered Aluminized Fire proximity overall Suit extra-large with Boots and Gloves (Set). EN 11612/ EN 531 certified. With pouch	1	No.
28.	Long line, 50 mm circumference, 30 m long	2	No.
29.	Short line, 50 mm circumference, 15 m long	2	No.
30.	Hose Bandages Rubberized	12	No.
31.	Hydrant Valve Key & Bar (Set)	1	No.
32.	Nozzle Spanners	2	No.
33.	Electric Hand Lamp with Rechargeable Battery	2	No.



Sr.No.	Description	Qty.	Unit																																
34.	Hand held nozzle made of Extruded Aluminum Construction having Discharge capacity of 800 LPM at 7-8 kg/cm2 pressure and horizontal reach up to 45m. Duly hard anodized for corrosion resistance, click stop mechanism for discharge, jet, spray, fog twist type molded grip, pistol grip handle also facility for working at emergency low pressure mode.	2	No.																																
35.	<b>FIRST RESPONDER KIT FOR MULTIPLE INCIDENTS – Fire, Chemical, Electrical and Confined Spaces.</b>  Content List: - BAG 1 (Trolley Bag) i. Carry Sheet stretcher ii. <b>Container No. 1 - SHIELDUP SAFETY GEAR (Safety Mask)</b>	1	No.																																
	<b>iii. Container 2- SURVIVAL EQUIPMENT SETS (Rescue products)</b> <table><tr><th>Contents</th><th>Qty</th></tr><tr><td>CPR MASK</td><td>01</td></tr><tr><td>Green Nitrile Gloves for chemical</td><td>02</td></tr><tr><td>Hand Sanitizer</td><td>01</td></tr><tr><td>Emergency Oxy Pack</td><td>01</td></tr><tr><td>Chemical Splash Goggles</td><td>01</td></tr><tr><td>Abdominal Pad</td><td>02</td></tr><tr><td>Portable Eye wash Bottle</td><td>01</td></tr><tr><td>Instant Cold Pack</td><td>04</td></tr><tr><td>Foil Blanket</td><td>02</td></tr><tr><td>Aluminized Hood</td><td>02</td></tr><tr><td>Scissor</td><td>01</td></tr><tr><td>Torch</td><td>01</td></tr><tr><td>Rescue Whistle</td><td>02</td></tr><tr><td>User manual</td><td>01</td></tr><tr><td></td><td></td></tr></table>	Contents	Qty	CPR MASK	01	Green Nitrile Gloves for chemical	02	Hand Sanitizer	01	Emergency Oxy Pack	01	Chemical Splash Goggles	01	Abdominal Pad	02	Portable Eye wash Bottle	01	Instant Cold Pack	04	Foil Blanket	02	Aluminized Hood	02	Scissor	01	Torch	01	Rescue Whistle	02	User manual	01				
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User manual	01																																		
	<b>iv. Container No. 3 - LIFESAVER MEDICAL EQUIPMENTS (First- Aid)</b> <table><tr><th>Serial</th><th>Contents</th><th>Qty</th></tr><tr><td>1</td><td>Small Size Sterilized Dressing</td><td>12</td></tr><tr><td>2</td><td>Medium Size Sterilized Dressing</td><td>08</td></tr><tr><td>3</td><td>Large Size Sterilized Dressing</td><td>08</td></tr><tr><td>4</td><td>Large Size Burn Dressings</td><td>10</td></tr><tr><td>5</td><td>Antiseptic Solution 100ml</td><td>01</td></tr><tr><td>6</td><td>Burn Ointment 200gm</td><td>01</td></tr><tr><td>7</td><td>Eye Pad</td><td>10</td></tr></table>	Serial	Contents	Qty	1	Small Size Sterilized Dressing	12	2	Medium Size Sterilized Dressing	08	3	Large Size Sterilized Dressing	08	4	Large Size Burn Dressings	10	5	Antiseptic Solution 100ml	01	6	Burn Ointment 200gm	01	7	Eye Pad	10	1	No.								
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4	Large Size Burn Dressings	10																																	
5	Antiseptic Solution 100ml	01																																	
6	Burn Ointment 200gm	01																																	
7	Eye Pad	10																																	



Sr.No.	Description	Qty.	Unit
8	Band-Aid Regular	50	
9	Band-Aid Square	20	
10	Band-Aid Knuckle	10	
11	Band-Aid Round	20	
12	Alcohol Wipes	10	
13	Cotton Wool 100gm	01	
14	Adhesive Tape 1/2"	02	
15	Adhesive Tape 1"	02	
16	Roller Bandage 5cm	10	
17	Roller Bandage 10cm	10	
18	Triangular Bandage	02	
19	ORS Powder	05	
20	Aspirin Tab	10	
21	Paracetamol Tab 500mg	10	
22	Dusting Powder	01	
23	Safety Pins	10	
24	Safety Mask	10	
25	Nitrile Examination Gloves	04	
	<b>BAG 2 (shoulder Bag)</b> <ul style="list-style-type: none"> <li>• Non-Conductive Gloves-33 KV</li> <li>• Non-conductive Stick-33KV</li> <li>• Non-Conductive Mat-33KV</li> <li>• Ambu Bag</li> </ul> <b>The Bidder must upload OEM Authority Letter mentioning the tender reference number confirming the specifications as mentioned above</b>		
36.	<b>4-Fold Stretchers</b> <ol style="list-style-type: none"> <li>1) Aluminized pole 32mm OD &amp; 28mm ID</li> <li>2) 550 GSM, Vinyl Coated Synthetic Fabric</li> <li>3) 2 Heavy duty nylon belts attached with the stretcher</li> <li>4) Heavy Duty Buckles which are safe and easily attachable and detachable</li> <li>5) 2 side expandable bars for strength and proper stretch while folding, unfolding</li> <li>6) Aluminized bar stands with 25.4mm width &amp; 4.76mm thick at all four sides of stretcher.</li> </ol>	1	No.



Sr.No.	Description	Qty.	Unit
	<p>7) Length: Unfolded: 210*53*13cm(L*W*H)</p> <p>8) Self-Weight - 7.2Kgs</p> <p>9) Gross weight- 7.5Kgs</p> <p>10) Load Bearing capacity: 160 kgs</p> <p><b>The Bidder must upload OEM Authority Letter mentioning the tender reference number confirming the specifications as mentioned above with detailed catalogue should be attached.</b></p>		



### **17. COOLING SYSTEM**

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Indirect cooling system of open circuit type consisting of special heat exchanger has to be provided to enable full power output during pump operations without heating of engine and PTO.



**18. INSPECTION & TESTING**

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- a) Third Part Inspection (TPI): Prior to dispatch of the vehicle, stage wise and final inspection & testing will be carried out by the bidder to complete satisfaction of (TPI) agency without any extra cost to BrahMos Aerospace Private Limited. Third Party Inspection will be carried out either by M/s Lloyds, M/s EIL, M/s DNV, M/s RITES, M/s ICL or any other government certified agencies.
- b) All consumables e.g., Diesel Engine Oil, water etc. for the inspection will be arranged by the bidder at his cost. The bidder shall arrange all facilities to carry out inspection & testing.
- c) Our representative will have access at all reasonable times to the tenderer's works, when the appliance or its accessories are being fabricated & tested.
- d) Drawings and Quality Assurance Plans (QAP) will be approved by TPI or BrahMos Aerospace private Limited. No supply will be accepted unless drawings and QAP are finally approved by BrahMos Aerospace Private Limited.
- e) Third Party will carry out inspection based upon final approved drawing & QAP.
- f) Stage wise test and final test/inspection for completed vehicle will be witnessed by our representative along the TPI agency. Stage wise inspection will be carried out as under:
  - 1<sup>st</sup> Stage: Construction of super structure, water tank and PTO chassis.
  - 2<sup>nd</sup> Stage: Placement of tanks, pumps, and other fittings.
  - 3<sup>rd</sup> Stage: Final acceptance/inspection will be carried out as per IS 10460, where applicable following performance tests will be carried out:
    - ROAD TEST
    - STABILITY TEST
    - PUMP TEST
    - PRIMER TEST
    - COMPLETE BODY WORK INSPECTION INCLUDING CABIN CREW
    - MONITOR PERFORMANCE TEST WITH WATER
    - LADDER & OTHER ACCESSORIES INSPECTION TEST



**19. GENERAL REQUIREMENTS/DELIVERY SCHEDULE:**

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- The vehicle will conform to all aspects of provisions contained in the MV Act 1988 & MV rules or to any other static modification or re-enactment thereon from time to time.
- Calibration certificates with proper due dates has to be ensured for all the pressure measuring & other devices.
- **Information/Documents required from the vendor:**
  - As Built drawings of the fire tender
  - As built drawing of water tank
  - Flow diagrams
  - As built drawings for installation of PTO unit.
  - Line diagrams for Electrical circuits.
  - Cross section drawings, characteristics curve and other details for water pump proportionator.
  - All inspection and testing records of valves, tanks, pumps, PTO, monitor etc.
  - Calibration certificates of pressure and vacuum gauges.
- **Items to be delivered within 120-180 days from the date of placement of Purchase Order.**



**APPENDIX-B****COMPLIANCE STATEMENT**

Sl. No.	Clause	RFP Requirement	Comments by Bidder
	<b>Part I</b>	<b>General Instructions</b>	
	Sl. No. of Clause as per RFP	Terms & Conditions as per RFP	Complied (Yes / No) If No, give details
	<b>Part II</b>	<b>Essential Details of Items / Services required</b>	
	Sl. No. of Clause as per RFP	Terms & Conditions as per RFP	Complied (Yes / No) If No, give details
	<b>Part III</b>	<b>Standard Terms and Conditions of RFP</b>	
	Sl. No. of Clause as per RFP	Terms & Conditions as per RFP	Complied (Yes / No) If No, give details
	<b>Part IV</b>	<b>Special Terms &amp; Conditions of RFP</b>	
	Sl. No. of Clause as per RFP	Terms & Conditions as per RFP	Complied (Yes / No) If No, give details
	<b>Part V</b>	<b>Evaluation Criteria &amp; Price Bid issues</b>	
	Sl. No. of Clause as per RFP	Terms & Conditions as per RFP	Complied (Yes / No) If No, give details

Based on the requirement the Bidder needs to submit the Compliance to the Bid in excel sheet format (.xlsx) in soft copy.



**APPENDIX -C**

(refer para 7 of Part -I of RFP)

**ACCEPTANCE OF TERMS & CONDITIONS OF TENDER**

(To be given on Company Letter Head)

To,  
HoD (Commercial)  
M/s BrahMos Aerospace Pvt Ltd,  
16 Cariappa Marg, Kirby Place,  
Delhi Cantt, New Delhi – 110010

**ACCEPTANCE OF TERMS & CONDITIONS OF TENDER**

Tender Reference No. \_\_\_\_\_

Name of Tender: \_\_\_\_\_

Dear Sir,

1. I / We have obtained the tender document(s) for the above mentioned 'Tender/Work' from your office namely: -

\_\_\_\_\_  
\_\_\_\_\_ as per your advertisement / RFP, given above.

2. I / We hereby certify that I / we read entire terms and conditions of the tender documents from Page No. \_\_ to \_\_ (including all documents like annexure(s), schedule(s), etc.), which form part of the contract agreement and I / we shall abide hereby the terms / conditions / clauses contained therein.

3. The corrigendum(s) issued from time to time by your department / organizations too have also been taken into consideration, while submitting this acceptance letter.

4. I / We hereby unconditionally accept the tender conditions of above mentioned tender document(s) / corrigendum(s) in its totality / entirety.

5. The Tech Bid and its enclosures as submitted in physical form as mentioned in part-I of RFP.

6. In case any provisions of this tender are found violated, your department / organization shall be at liberty to reject this tender / bid absolutely and we shall not have any claim / right against dept in satisfaction of this condition.

Yours Faithfully,

(Signature of the Bidder, with Official Seal)



**APPENDIX-D**  
(refer para 07 of RFP)**ELECTRONIC PAYMENT SYSTEM MANDATE FORM**

<b>SI No</b>	<b>Description</b>	<b>Details</b>
1	Name of the Firm & Address	
2	Email ID	
3	PAN No.	
4	Name of the Bank	
5	Name of Branch & Address	
6	Branch IFSC Code	
7	MICR Code	
8	Type of Account	
9	Bank Account No.	
10	Type of EPS	

I, hereby declare that the particulars given above are correct and complete. If the transaction is delayed or not effected at all for reasons of incomplete or incorrect information, I would not hold the institution responsible.

(Signature of the Bidder, with Official Seal)

Date:

Certified that the particulars furnished above are correct as per our records.

Bank Stamp:

Date:

(Signature of Authorized Official from the Bank)



**APPENDIX-E**  
(refer para 07 of RFP)

**NON BLACK LISTING CERTIFICATE**  
(To be given on Company Letter Head)

1. I, \_\_\_\_\_ son of Shri \_\_\_\_\_ age about \_\_\_\_\_ by profession proprietor/ partner of M/s \_\_\_\_\_ having registered office at \_\_\_\_\_ do hereby solemnly affirms and declare as under: -

(c) Undertakes to the effect that the firm/I represent is not blacklisted by any Government Organization.

(d) I am not Proprietor/ Partners/ Director of any other firm or business organization with whom Government has banned/ suspended business dealing.

(e) I do not have any concern/ subsidiaries with any business organization or agency blacklisted by Government Organization.

Company Seal

(Authorised Signatory of Company)

Place:

Dated:

Signature of Bidder & Stamp



**APPENDIX – F**  
(refer Para 32 of RFP)

**FORMAT FOR PRICE-BID**

Price-Bid to be submitted as per the format below: -

Sl No.	System Description	UOM	HSN Code	Unit Basic Cost (Rs.)	GST Cost (Rs.)	Total Cost (Rs.)
1	Design, Fabrication, Installation, Testing and Supply of Fire Tender	01				

**Note:** BIDDER to submit Price-BID as per the aforementioned format only.



**2025-00040A**

TENDER ID

**LAST DATE OF SUBMISSION**

**06-Jun-25      1100 HRS**

TENDER BOX

NO.

**1**

TENDER FOR

**RFP for Procurement of Fire Tender for BrahMos**

**Complex Pilani**

RFP NO.

**BMC/OTE/BAPL-P/25-26/FT**

RFP DATE

**13-May-25**

VENDOR

VENDOR SEAL

TENDER OPEN DATE

**06-Jun-25  
1430 HRS**

**NOTE: THE BID (SINGLE / 2-BID) SHOULD BE PUT IN ONE ENVELOPE AND THIS PROFORMA SHOULD BE PASTED ON TOP. THE TENDER (SEALED ENVELOPE) SHOULD BE DROPPED IN THE BOX (BOX NO. SHOWN AT THE TOP RIGHT CORNER) ONLY, WITHIN THE LAST DATE OF SUBMISSION.**

