

RAJKOT MUNICIPAL CORPORATION

Central Workshop, Opp. Sitaram Weigh Bridge,
Bhavnagar Road, Rajkot-360003



E-TENDER No. RMC/FIRE & EMERGENCY/02/2024-25

E-TENDER TECHNICAL BID
FOR

TO DESIGN, MANUFACTURE, SUPPLY AND DELIVERY OF MINI FIRE TENDER ON
SUITABLE CHASIS AS PER TECHNICAL SPECIFICATION.

MILESTONE DATES

Tender available on web site	26/11/2024 To 10/12/2024 up to 18.00 Hours
Last Date & Time for a Query (submitted by E- mail)	03/12/2024 up to 18.00 Hours Send Query on Mail id:- jlshingal@rmc.gov.in
Last Date & Time for downloading the Tender Document	10/12/2024 Upto 18.00 Hours IST
Last date & Time for Online submission of tender	10/12/2024 Upto 18.00 Hours IST
Physical submission of EMD, Tender Fee etc.	Upto 17/12/2024 during office hours. (Through Reg. AD or Speed Post only)
Online Opening of Technical Bid	18/12/2024 at 12.00 Hours IST onwards (If Possible)
Online Opening of Price Bid of the Evaluated Tender	23/12/2024 at 12.00 Hours IST onwards (If Possible)

2024-25

Deputy Commissioner (East Zone)
RAJKOT MUNICIPAL CORPORATION
RAJKOT - (Gujarat)

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RAJKOT MUNICIPAL CORPORATION

CHAPTER – 1

Tender Notice

Online e-tenders with two bid system are invited for To Design, Manufacture, Supply and Delivery of Mini Fire Tender on suitable chassis as per Technical specification." from reputed qualified manufacturers only who have qualifications –

Eligibility criteria:

1. Registration with SSI or Director of Industries.
2. Bidder must have valid GST registration.
3. The bidder must have achieved a minimum Annual Turnover in one year of last seven year Amount of Rs 320Lac. Separate Chartered Accountant's certificate shall be attached along with the Bid.
4. Experience as a manufacturer of this kind of Fire Water Tender /Water/foam Browser of with CE certified / UL Listed / BIS marked pump, minimum value of 128 Laces in any one work of last seven years in single contract for Govt. or Semi Govt. Organization. Performance certificates along with its PO/WO from competitive authorities.
5. OEM authorization certificate of chassis, pumps, Pto, Hydraulic Combtool for this tender.
6. Working Capital must not be less than Rs.80 Lacs.CA certificate must be Attached.

Note: Enhancement factor at 10 % per year for last seven years will be applicable to arrive finalize the magnitude of work done in last seven years.

7.The Bidder must have to submit affidavit over Non judicial stamp paper of Rs.300 for

A) I/We here by Declare that I/We am/are not partner(s) Black Listed /Terminated/Debarred or Concerned with Firm Black listed in any States, CPWD/MES/Railways or any Government ,Semi Government, Autonomous body or Private Body. Also no Complaint is lodged against the Firm Company

B) We, The Partners /Owners of this firm, Hereby give an undertaking that we are jointly and severally responsible to meet all the liabilities ever and above the business of this firm and make good the above financial loss sustained by the Rajkot Municipal Corporation as a result of our abandoning the Works entrusted to us.

C) Documents submitted by us are correct and genuine in every manner.

e-Tender No	Item	Qty. in Nos.	Est. cost in Rs.	EMD at in Rs.	Tender Fee in Rs. (Non refundable)
RMC/FIRE & EMERGENCY/02/2024-25	To Design, Manufacture, Supply and Delivery of Mini Fire Tender on suitable chassis as per Technical specification	4 Nos.	3,20,00,000/-	3,20,000/-	7500/-

An Earnest Money Deposit of Rs. 3,20,000/- in form of Demand draft/NEFT/RTGS/on-line transfer /Bank Guarantee (ICICI Bank A/c No-015305010638, IFSC Code-ICIC0000153, Branch –Jai hind press) and Tender fee of Rs.7,500/- (Non-refundable) in form of Demand Draft in favour of Commissioner, RAJKOT MUNICIPAL CORPORATION, of any Nationalized or Schedule Bank shall send it through speed post on XX-XX-XXXX to XX-XX-XXXX during office hours at Central Workshop, Rajkot Municipal Corporation, Bhavnagar Road, Near Amul circle, Rajkot-360003 and The qualification's documents with sign and stamp must be upload online and price fill online as per milestone date.

Tender will be submitted online through e-tendering up to 18.00 hours IST on dateXX-XX-XXXX and e-tendered Technical Bid will be opened on Date XX-XX-XXXX at 12.00 Hours IST on web site<http://www.nprocure.com>

Municipal Commissioner, Rajkot Municipal Corporation, Rajkot, reserves the right to accept or reject any or all tender(s) without assigning any reason thereof.

Deputy Commissioner
(East Zone)

RAJKOT MUNICIPAL CORPORATION

Signature valid

Signed by Swapnil Khare
Dy Municipal Commissioner
Date: 2024/11/18 19:32:01
+05:30

File No: RMC/MIS/c-file/344/2024/2547/Workshop

Approved By: Dy Municipal Commissioner, General Admin, RMC

Open the document in Adobe Acrobat DC to verify the E-sign



CHAPTER - 2
EMD SCHEDULE

Earnest Money Deposit :- Rs. 3,20,000/-

An Earnest Money Deposit of Rs. 3,20,000/-and Tender fee of Rs. 7500/- (Non-refundable) in form of Demand Draft in favour of "**Rajkot municipal Corporation**", Rajkot, of any Nationalized or Schedule Bank located at RAJKOT shall be send as per milestone date at Central Workshop, Rajkot Municipal Corporation, Bhavnagar Road, Rajkot-360003.

Tender Fee :- 7500/- (Non-refundable)

:: DETAILS TO BE FILLED BY TENDERER ::

Name of e-Tenderer : _____

Address of e-Tenderer : _____

Nature of Business : _____

:: DETAILS OF E.M.D.::

Name of Bank & Branch : _____

D.D. No. & Date : _____

Amount in Rupees : _____

Sign of e-Tenderer.

CHAPTER - 3
TENDER SCHEDULE

e-Tender No	Item	Qty. in Nos.	Est. cost in Rs.	EMD at in Rs.	Tender Fee in Rs. (Non refundable)
RMC/FIRE & EMERGENCY /02/2024-25	To Design, Manufacture, Supply and Delivery of Mini Fire Tender on suitable chassis as per Technical specification	4 Nos.	3,20,00,000/-	3,20,000/-	7500/-

:: General Terms And Conditions For Contract ::

1. 1. Definitions

Unless repugnant to the subject or context thereof, the following expressions herein used shall carry the meaning hereunder respectively assigned to each, namely:

- a. **Approved / Approval** means approved in writing.
- b. **Contract** means the contract entered between RMC and Supplier and as derived from tender documents, agreed variations to the tender documents, supplier's Price Bid and the Purchase Order.
- c. **Contract Document(s)** means individually and collectively the documents constituting the contract.
- d. **Contract Price** means the price payable to the Supplier as specified in the Contract, subject to such additions and adjustments thereto or deductions there from, as may be made pursuant to the Contract
- e. **Day** means calendar day
- f. **Indenter / Employer / Owner / Purchaser** means Rajkot Municipal Corporation / RMC and includes its legal successor.
- g. **Inspectors** means Inspectors nominated, appointed, approved or deputed by RMC for inspection of the goods / stores / material(s)
- h. **IS** means Indian Standards, prescribed by the Bureau of Indian Standards(BIS)
- i. **UL** means Underwriter Laboratories, UL provides safety-related certification, validation, testing, inspection, auditing, advising and training services to a wide range of clients, including manufacturers, retailers, policymakers, regulators, service companies, and consumers.
- j. **CE** means European Conformity, The CE marking is the manufacturer's declaration that the product meets the requirements of the applicable EC Directives.
- k. **Goods / Stores / Material(s)** means any and all raw materials, manufactured articles, equipment, spares and other goods and supplies whatsoever and includes wherever applicable drawings, data, specifications and intellectual property rights and all services (including but not limited to design, fabrication, inspection, delivery and testing) required to be supplied, done, performed, prepared or undertaken to meet the requirements of the Contract.
- l. **Project Management Consultants** means the representative or agency appointed by RMC for managing, coordinating the supply of goods / stores / expediting and / or material(s).
- k. **Purchase Order** means RMC's acceptance of the Supplier's offer / bid and includes any formal or detailed Purchase Order issued by RMC pursuant to the acceptance of the tender.
- l. **Delivery Period** means the date(s) for delivery of the goods / stores / material(s) as stipulated in the Contract and failing such stipulation, shall mean the date(s) for such delivery(ies) as agreed between the Supplier and RMC
- m. **Tender Documents** with reference to the Purchase Order means the instruction & information, general rules and direction for bidders, general terms and conditions of purchase, specification, drawings , the schedules of quantities and tender prices, the formal agreement, special conditions of purchase and all addenda (including corrigendum if any) and attachments related to the above
- n. **Services** means services ancillary to the supply of the material(s), such as transportation and insurance, and any other incidental services, such as installation,

commissioning, provision of technical assistance, training and other obligations of the Supplier covered under the Contract

- o. **Supplier** means the particular person, firm or Company or Group of firms or Companies or his designated representative to whom the Purchase Order is placed for supplying the goods / stores / material(s) and services under this Contract and includes his legal successors.
 - p. **Contract Value** means total value of the goods / stores / material(s) & services to be supplied as specified in the Purchase Order.
2. Prices should be written clearly in Figure and in Words proper space in "Price Schedule" of e-tender Price Bid of the online only.
 3. Quoted price should be inclusive of all duties like, royalties, octroi, costs, fees, To & Fro, Transportation charges, Transits Insurance, One year full comprehensive insurance, Entry Taxes, other applicable levies, TPI charges RTO passing charges and F.O.R. at RAJKOT MUNICIPAL CORPORATION, RAJKOT-360 003 and exclusive of GST.
 4. An Earnest Money Deposit of Rs.3,20,000/- and Tender fee of Rs.7500/- (Non-refundable) in form of Demand Draft and as per tender notice in favour of "Commissioner, RAJKOT MUNICIPAL CORPORATION", RAJKOT, of any Nationalized or Schedule Bank located at RAJKOT shall accompany on **XX-XX-XXXX** to **XX-XX-XXXX** during office hours. Without E.M.D. and tender fee, e-tender will be rejected.
 5. The award of contract will normally be made within 120 days after the date of opening e-Tender Price Bid.
 6. e-Tender will be submitted online through e-tendering upto 18.00 hours IST on date **XX-XX-XXXX** and e-tendered Technical Bid will be opened on Date:**XX-XX-XXXX** at 12.00 Hours IST on web site <http://www.rmc.nprocure.com>
 7. e-Tenderer should have to offer the firm prices in e-tender Price Bid (online) for the prescribed item as per given in Technical Specification. Offer for the other item will not be considered and tender will be rejected.
 8. **e-Tenderer shall have to submit the qualification document with sign and stamp online as per milestone date.**
 1. Registration with SSI or Director of Industries.
 2. Bidder must have valid GST registration.
 3. The bidder must have submit Separate Chartered Accountant's certificate of turnover last seven year.
 4. Performance certificates for experience along with its PO/WO from competitive authorities.
 5. The bidder must have submit Separate Chartered Accountant's certificate of Working Capital.
 6. OEM authorization certificate of chassis, pumps, Pto, Hydraulic Combtool.
 7. The Bidder must have to submit affidavit over Non judicial stamp paper of Rs.300 for Non blacklisted.
 8. Tender Bond Letter fill up and sign and stamp (Here given as per format in pricebid)
 9. 5 year Back-up Guarantee of Manufacturer for Parts and service of pump, PTO and combi tool.
 10. Fill up properly Technical data sheet with sign and stamp (Here given as per format in Technicalbid).
- If any document not submit online above list then bidder will be disqualify.**
9. Successful e-tenderer shall have to pay the Security Deposit @ 5% of Contract Value in form of Fixed Deposit Receipt or Bank Guarantee of any Nationalized or as per Bank list of Finance department GR given here with last page in technical bid, for a period of 22(Twenty Two) months in the name of "**Municipal Commissioner, Rajkot Municipal Corporation,**" Rajkot, and shall have to enter into an agreement on a stamp paper as per rules security deposit amount must be submitted, and if the contractor fails to

submit the agreement deed with appropriate stamp paper in the stipulated time limit, the E.M.D. for this contract will be forfeited and the contractor will be black listed for this work of RMC. This will be returned only after successful completion of warranty period.

If the contract price offered by the selected bidder is lower than 10% but up to 20% of the estimated project cost then the additional performance security shall be calculated @20% of the difference in the estimated project cost - 10% of the estimated project cost and contract price offered by the selected bidder.

If the contract price offered by the selected bidder is lower than 20% of the estimated project cost then the additional performance security shall be calculated @30% of the difference in the estimated project cost - 10% of the estimated project cost and contract price offered by the selected bidder.

10. E-Tenderer shall have to complete contract within 210 days after getting work order, otherwise penalty will be charged as per penalty clauses.

11. Terms of Payment

The payment shall be made to the Supplier as under:

100% of the invoice amount will be paid within approx 60 days of the delivery of the goods at the destination in good condition (after due testing and acceptance by RMC or third party inspection agency assigned by RMC) and submission of the necessary documents. The payment of the bill shall be made after deducting TDS ,RMC/Government dues, if any Payment .

- 12 Insurance shall be the responsibility of e-Tenderer. E-Tenderer shall provide coverage for all against transits risk, Accident to acquisition, Transport delivery up to destination and accident in trial and testing.

13 Inspection will be carried out by Third Party Inspecting Agency.

a) Preliminary inspection will be carried out by TPI Agency in presence of RMC Engineer at works or factory site before dispatching the machine/vehicle and required stage as per instruction of in-charge engineer. Pump inspection carried out at pump manufacturer site.

b) Final inspection will be carried out at Rajkot Municipal Corporation by TPI Agency in presence of RMC Engineer after reaching the equipment/machine at Rajkot Municipal Corporation during testing and trial period.

c) For pre Inspection of the equipment / machinery/ vehicle the party should give an official call / offer letter / intimation in writing to the RMC before 10 days.

d) Price quoted should be inclusive of TPI charges(0.45% +Applicable Taxes approx or whatever charge by TPI). To & Fro. Travelling with stay charges for two persons. Inspection charges will be borne by the contractor. Third Party inspection agency nominated by RMC.

- 14 Any modification or any changes in work or technical specifications done by RMC's Engineer-In-Charge or Third Party Inspecting Agency and e-tenderer have to follow these changes without any dispute and argument. (No extra cost will be given for the modifications or changes).
15. E-Tenderer have to furnish all Drawings and Authorized Certificates of dealership and Xerox copies of bills of materials those are required and demanded by Engineer-in-charge of RAJKOT MUNICIPAL CORPORATION or Third Party Inspecting Agency.
16. e-Tenderer should have to fill up price of whole equipment with clearly in e-Price Bid (online) of e-tender (Exclusive of GST, GST will paid extra as per actual apply).
17. **Taxes:**
Successful bidder has to submit Invoice for payment and The Invoice should compliance with GST ACT -2017. If the firm is exempted from the payment of GST the certificate for

the same should be attached. All the transit losses and breakage shall be suppliers risk and cost. Rajkot Municipal Corporations GST No. is 24AAALR0138G1ZD.

18. Unit of rate:

The unit of rate shall be on number basis.

19. Tender offer validity period

The Tender offer for the work shall be valid for a period not less than One Hundred and Twenty (120) days from the date of opening of the Price Bid. The same may be extended by the Bidder for a further period of One Hundred and Twenty, if required by RMC. The bidder shall not be allowed to withdraw or modify the offer on his own during this period. If any bidder withdraws or make any modification or additions in the terms and conditions and tender validity period of his tender offer is not acceptable to the RMC, then the RMC shall without prejudice to any right or remedy, be at liberty to forfeit in full, the said EMD absolutely.

The request and response shall be made in writing or by tele-fax and email. If a Bidder accepts to extend the period of validity, the validity of EMD shall also be extended accordingly. In case of refusal by Bidder for extension of validity period his EMD shall be returned. Any Bidder granting the request of extension of offer validity period will not be permitted to modify his / their Bid.

20. Price Prefence:

No price preference will be given to SSI units or Khadi Gramudhyog Units.

21. Jurisdiction:

In the event of any dispute or difference arising out of this e-tender / contract, the jurisdiction of the Court shall be RAJKOT (Gujarat) only. While executing the agreement, the supplier shall be governed at all times by all laws, regulations etc., in force in Gujarat State.

22. Dispute:

In the event of any problem, dispute or difference arising out of or under this contract, the decision of the Municipal Commissioner, RAJKOT MUNICIPAL CORPORATION, RAJKOT, will be final and binding to the parties to this contract.

23. Non-Blacklisting Bond:

The manufacturer has to furnish the undertaking on the non-judicial stamp paper of Rs.300/- duly Notarized regarding his firm is not black listed in anywhere in India at the time of e-tendering. This undertaking should be submitted online submission of Qualification documents.

24. Conditional offer will not be accepted and same will be treated as non-responsive.

25. Liquidated Damages:

In the event of the failure of the supplier to offer the machines for inspection under the supply order in the stipulated time limit and also in case of the said material not reaching at the destination in the time limit as stipulated in clause 10 above. RAJKOT MUNICIPAL CORPORATION will charge liquidated damages Rs.2500 per vehicle per day subject to maximum of 10% of the total order value shall be charged. The Rajkot municipal corporation also reserves right to cancel the order in such case. The part shall supplied on as and when requirement basic within the specified period mentioned failing which a penalty up to maximum 10% of the order value will be charged and deducted from the pending bills/deposits of the tenderer.

26. E-TENDER AGREEMENT:

The e-tenderer shall be required to enter into an agreement for due performance of the contract. The stamp duty on all documents to be executed in connection with this contract to be entered into shall be borne by supplier. The security deposit (SD) in form of FDR / Bank Guarantee shall be deposited for required value. The contract agreement will have to be executed on a stamp paper of appropriate value as per value orders in force for the time being.

1. EMD of the first lowest firm/company will be forfeited if they fail to enter into agreement within prescribed time limit for entering into agreement.

27. Guarantee/Warranty:

The supplier at the time of entering into contract shall give a guarantee /Warranty against technical and manufacturing defects in materials supplied and free replacement of defective materials at his own cost up to a period of 12 months from the date of receipt of material.

28. Extension for delay:-

If the supply is delayed by (1) Force Majeure, (2) Serious loss or damage by fire, (3) Strike, Bandh, Curfew, Rally, Heavy rains, Flood, Cyclone, Earthquake or Natural Calamities occurs, (4) Electricity staggering, (5) Any other case, which is beyond the control of contractor. Municipal Commissioner will decide period of delay extension.

29. Acceptance of Tender

The tender is liable for rejection due to any of the reasons mentioned below:

1. Non-Submission of tender within stipulated time.
2. Non submission of any qualification document and not qualify pre qualification criteria.
3. The envelopes are not superscripted with details of the tender enquiry and part enclosed.
4. Non-payment of Earnest Money Deposit and tender fee.
5. Non-submission of required documents.
6. Conditional and / or vague offers
7. Unsatisfactory past performance of the bidder.
8. Rates have been shown elsewhere than ONLINE Price Bid
9. Items with major changes / deviations in the specifications / standard / grade / packing /quality are offered in **Technical Bid**.
10. Offering a cheaper accessory not approved / recommended by the manufacturer.
11. Offering an accessory as optional even though it is required to operate the instrument.
12. Submission of misleading / contradictory / false statement or information and fabricated / invalid documents.
13. Tenders not filled up properly
14. Non-submission of Charter Accountant Certificates.

30 Future Requirement:-

As of now we have requirement of afore said quantity, but if we have further requirement of this equipment/machine in next 12 month, agency has to supply the same at the approved rate, if there are any changes in taxation same will be paid extra to agency, agency has to provide necessary supporting documents for the same.

31 Clarification of bidding document:

A prospective bidder requiring any clarification of the bidding documents may notify the RMC in writing at jlshingala@rmc.gov.in As per Milestone date. Any Query or Demands after that date will not be considered.

Municipal Commissioner, RAJKOT MUNICIPAL CORPORATION, RAJKOT, reserves the right to accept or reject any or all the e-tender(s) without assigning any reasons thereof.

32. E-Technical Bid will be opened online on Date As per Milestone date And after evaluation of e-Technical Bid, e-Price Bid will be opened only of those e-tenderers who will be qualified in e-Technical Bid evaluation. Date of opening of e-Price bid will be As per milestone date, only of those e-tenderers who will be qualified in e-technical bid evaluation.

33. Training:

Post-delivery, supplier shall have to train personnel nominated by purchaser for on free of cost basis. Training held at manufacturing site or at Rajkot Municipal corporation site,

**Deputy Commissioner
(East Zone)
RAJKOT MUNICIPAL CORPORATION**

Signature valid

Signed by: Swapnil Khare
Dy Municipal Commissioner
Date: 2024-11-18 19:32:01
+05:30

File No: RMC/MIS/e-file/344/2024/2547/Workshop
Approved By: Dy Municipal Commissioner, General Admin, RMC
Open the document in Adobe Acrobat DC to verify the E-sign



SPECIAL CONDITIONS OF CONTRACT

1. It will be the responsibility of the tenderer to order, payment and collect the chassis from the regional sales office of the manufacturer or their authorized dealer and transport the same to their workshop. Any charges applicable for the same shall be included in the quoted price of tender.
2. It will be the responsibility of the tenderer to deliver the vehicle after the completion of the fabrication of the equipment to RMC, RAJKOT.
3. The prices for the equipment shall be inclusive of all duties mainly, Entry tax, Transit insurance, Transportation charges, One year full comprehensive Insurance, R.T.O. registration charges, TPI charges, incidental and other expenses, extra fitment, etc.
4. After satisfactory inspection & testing of water Tender, done by RMC's Engineers or third party inspection agency at your works, successful tenderer should be responsible for supply & delivery of of water Tender from works to Rajkot Municipal Corporation, Rajkot, Gujarat at his risk and expenses like e.g. temporary R.T.O. passing, transportation, drivers, diesel, Road insurance for R.T.O. Registration etc.
5. R.T.O. registration of vehicle will be done by tenderer. Successful bidder must provide body builder certificate, Form No.-22, 22-A and all other necessary documents required for R.T.O. registration at Rajkot. All the procedure for the registration with the RTO, RAJKOT should be done by tenderer, whenever sign & seal required of Municipal Corporation of Rajkot will be done by authorized person of R.M.C.

Sign of e-Tenderer.

TECHNICAL SPECIFICATIONS AND TERMS

Name of work:- To Design, Manufacture, Supply and Delivery of Mini Fire Tender on suitable chassis as per Technical specification

Tender No:- RMC/FIRE & EMERGENCY/02/2024-25

General

- a) The Ultra High Pressure Mini Fire Tender will be fabricated on suitable 6.2 Ton GVW chassis with wheel base of 3200 mm to 3500mm.
- b) The vehicle shall comply with latest emission norms at the time of registration.
Cabin Chassis
- c) A spare wheel shall also be provided. The vehicle shall have front and rear towing facility.

Chassis Details:

The Mini Fire Tender (UHP) will be fabricated on a suitable latest emission norms as per below Chassis specification. Drag hook or eye of adequate strength and design will be provided at the rear & front of chassis by the vendor

Power Output (in HP Minimum)	98 HP
Maximum Torque (in Nm Minimum)	285Nm@ rpm
Gross vehicle weight (in kg Min.)	6200
Pay load (in kg, Minimum)	3700
Wheel base (in mm Min.)	3200 to 3500

The Bidder must have to submit OEM authorization certificate with technical specification.

Design & Construction:

The Mini Fire Tender vehicle shall be designed to be as compact as possible with ease of accessibility to all service parts. Pump & other equipment controls shall be so arranged that user can operate them easily & conveniently. Lever type valves shall be preferred unless impractical in any way. Material of construction shall be used with a view to combine lightness with strength & durability. No form of wood, shall be used anywhere. All parts which form water ways, come in contact with water/foam or are made from materials prone to corrosion, shall be Treated with a good quality anti-corrosion system/treatment/paint/zinc coating.

HIGH PRESSURE PUMP-

The pump shall be of $150 \pm 5\%$ LPM at $100 \pm 5\%$ bar capacity. It shall be a Six plunger positive displacement type pump, working to its capacity at not more than

1000 RPM. A by-pass for letting the water back to the suction in take shall be provided to release excess pressure generated due to shutting of the hand lines or while discharging from only one of the two outlets (75 LPM @100 bar) individually. The pump shall be guaranteed for a min. life of 2000 hours or 2 years of operation whichever is earlier. The pump will have double seal on each plunger with low pressure intermediate

chamber to keep the water seals cool & lubricated. This system will also permit here circulation of any leakage from the high pressure back to the pump inlet. The pump will have synthesized pistons of super-hard ceramic. The connecting rods shall be of special alloys with low attrition coefficient, high wear resistance & high anti-seize properties. The hydraulic structure shall be designed to simplify scheduled maintenance procedures like gasket & valve replacement. The pump suction line will have inline mesh filters. The pump will deliver water to the hose reels & cooling system. The main components shall be produced by the pump manufacturer only. Pump shall be UDAR or PRATISSOLI POMPE Spa, Italy or woma or Myers make only.

The Bidder must have to submit OEM authorization certificate and Back-up Guarantee of 5 years of Manufacturer with technical bid.

Piping & Valves:

Complete pipe line circuit on the vehicle including water lines & fittings will be of SS304 material. All valves up to 2" size will be lever operated SS304 ball valves & all valves above 2" size shall be butterfly valves of SS304. Seats of the valves shall be easily replaceable, readily available. All socket welded lines shall be Dye Penetration (DP) tested and all the butt welded joints shall be radio graphically tested. All the lines shall be tested hydraulically for at least 3 times the working pressure of 1.5 times the working Pressure of the pump.

Cooling System:

In addition to the radiator cooling, an indirect cooling system of the open circuit type shall be provided (if required) to keep the engine from overheating during extended use in tropical climates & when the ambient temperature is over 40°C. The cooling system shall be so designed that the full power output of the engine can be maintained during continuous stationary running without overheating. The operating temperature of the engine cooling water shall be thermostatically controlled. The oil in the sump shall be prevented from overheating & the pump characteristics shall be chosen in a manner so that the engine does not run at its maximum speed for the required output. The cooling water outlet pipe from P.T.O. & additional cooling tank shall be connected through a suitable diameter pipe. The end of the pipe shall terminate in a threaded connector.

Water Tank:

The Water tank shall be of minimum 2000 Ltrs. capacity & shall be suitably mounted on the chassis in such a way that the weight distribution is optimized. In addition a 3% expansion space shall be made in the tank over & above the water capacity. The tank will be fabricated out of SS 304 material of min. 4 mm thick all around plates which shall be of 4 mm. The tank shall be of welded construction & will be die-pressed in all sides to prevent distortion & to ensure torsion rigidity. Due care should be taken to ensure that butt-weld joints are mized. Wherever butt joints are unavoidable, they shall be radio-graphically/DP tested. All other joints shall be DP tested for soundness of weld joints. Complete welding shall be done using argon welding.

Baffles

The tank will be suitably baffled to prevent surge when the vehicle is cornering or braking. The baffle plates shall be of min. 3 mm thickness SS 304 & shall be fixed type. The fasteners used shall be of SS material only. The baffles should be so designed that they do not distort / buckle under any circumstances during braking & cornering.

Mounting:

A tank shall be provided at each mounting support i.e. 100x50x6mm MS channel. A mounting support shall be bolted properly with sandwich pad i.e. 10mm & 12 mm thick M.S. plate. Upper & Lower respectively in middle of that Rubber a packing 25mm thick shall be provided. Tank bottom should vertically supported by 10 mm thick gusset plate. Tanker mountings should be fabricated as per our instructions. The bottom of the tank shall be sloped towards rear. Suitable hooks/lifting eyes shall be provided on top of the tank to enable it to be lifted off the vehicle for maintenance/repairs.

Connections for Filling:

The tank shall be having a filling orifice of 250mm with a removable conical strainer & an inspection & maintenance manhole of 450 to 550 mm at the top. The cover for this port shall be of hinged or threaded type as per the manufacturer's standard design & will be clearly marked with "WATER" (either etched or raised). This will be used for filling water tank from overhead storage tanks. One filling connection will also be provided on the tank, terminating in a 63mm male instantaneous coupling of GM/SS incorporated with strainer. The line will be designed to ensure that inflow of water into the tank is sufficient to maintain the output of the pump while the tank is being replenished from other vehicles or from hydrant lines.

Draining, Cleaning & Repairs:-

A 50mm diameter drain line with a Flange ended ball/butterfly valve will also be provided to drain the tank for maintenance / cleaning / repairs etc. A cleaning hole of 250mm will be provided at the bottom of the tank. The connection shall ensure that the water is discharged as far away from the wheels of the vehicle as possible, to reduce the chance of tire slippage. Suitable lifting lugs shall be provided on the shell of the tank to enable it to be lifted off the vehicle for repairs/replacement as necessary.

Overflow:

One overflow pipe of suitable diameter shall be fitted to the tank. The diameter of the overflow pipe shall be determined as per the filling connection provided. However it shall not be less than 50mm diameter in any case. The overflow pipe will be taken up to 2 inches higher than the top of the vehicle from inside of the tank & shall be cut at an angle of approx. 45 degrees. The pipe shall be covered by a suitable flanged cover above the tank to ensure no spillage of water during movement of the vehicle.

High Pressure Hose Reel:

The high-pressure pump shall operate through 2 separate hose reels of 60- meter length each, and shall be provided at a suitable place on the appliance, one on each side. The hose used for the hose reels should be R2 type rated for a minimum working pressure of 250 bars & shall be of min. 16 mm ID. The unit shall be equipped with two Fog Guns which shall be capable of discharging 65- 75 LPM @ 100bar in mist mode. The jet range shall be approx. 15 - 20 Mtrs. (in still air condition). This Fog Gun shall have a Jet as well as Fog mode.

PTO Unit:

A gear box mounted PTO shall be installed for operating the pump. This PTO shall be of a proper gear ratio to drive the pump at required RPM without loss of power & prevent the engine from overheating. The PTO shall be of suitable make as per the recommendations of the transmission manufacturer. Cooling system (if required) shall be provided to maintain operating temperature of the PTO. PTO shall be VAS/Webster/Kozmaksan make only.

The Bidder must have to submit OEM authorization certificate.

Body Work:

Enclosed accommodation for driver & officer in charge would be provided in the single compartment driver's cabin. If the vehicle is without company manufacturer driver's cabin. One extra separate cabin will be fabricated behind of company manufacturer driver's cabin. The cabin would be internally lined with good quality materials. The floor of the cabin shall be provided with a good quality anti-skid type vinyl matting. A first aid box shall be suitably mounted in the cabin at easily accessible location. The driver & officer seat shall be adjustable type. These at would have foam cushions & will be covered with good quality Rexene. The entire structure will be welded structure made from galvanized/MS pressed sections, angles, channels and square tubes of minimum 2mm thickness. Angles & channels used for the structure shall be min 3mm thick. The outer paneling will be done from 1.6 mm & internal paneling will be done from 1.2 mm aluminum sheets. The complete top of the cabin & the rear super structure would be covered with 1 mm aluminum sheets / chequered plates / suitable anti-skid material. The sheets of the outer paneling will be bonded / glued to the skeleton framework. Rivets/screws not be allowed. The doors of the cabin will be fitted with safety/Tafan glass & winding type regulators or sliding type window. The driver will be provided with large size rear view mirrors on both & left to right. The cabin will be as ergonomic as possible so that the crew members are comfortable in transit as well as are able to use the vehicle in an efficient & comfortable manner. The lockers shall have aluminum roll up shutters. Systematic stowage Arrangement shall be made for all the loose equipment and accessories.

Instruments and Controls:

Instruments & Controls: Adequately illuminated pump control panel shall be provided on the appliance housing the RPM meter & panel light. The panel shall be compact & have the following additional controls & gauges:

- a. Pump pressure gauge.
- b. Pump room light switch
- c. Auxiliary throttle control.
- d. Panel light.
- e. Pressure regulator.
- f. Plastic tube type level gauge
- g. RPM Meter

Electrical Accessories:

Following accessories will be provided on the appliance:

- a) Two Spot lights on top
- b) Two Fog lamps on Bumper
- c) Four Blinker-type traffic indicators (OEM).
- d) One Search Light
- e) LED Light bar with hooter ,amplifier & speakers

Equipment:

The equipment to be supplied on the appliance will be as per list attached below per Mini fire fighter:

Sr	Description	Qty
1.	Aluminum Trussed ladder 7.5Mtrs	1
2.	Combi Tool	1
3.	Fire helmet	15
4.	Electric chain saw (wood cutter)	1
5.	FB-5X Foam making Branch Nozzel 225 LPM conform to IS 2097-2012 latest amedment	5

Combi Tool:

The tool is a designed hydraulically activated piston with two equal, opposite blade arms that are symmetrically opened/closed by mechanical joints, thereby spreading, squeezing, pulling or cutting objects. The body of the tool shall be made of anti-corrosive light aluminum alloy for its lightweight, strength and long life.

The blades of the tool shall be of a straight serrated edge design for maximum cutting performance. The blades shall have integral tips for spreading applications.

The blades of the tool shall contain shackle holes for pulling applications. The blades of the tool should be attached to the piston rod via removable links. for ease of repair. efficient power transmission and smooth operation.

The blades shall be made of investment cast dropped-forged steel glass pearl blasted for long-life and quality. The blades are re-grindable. The pivot points of the blades shall have a rubber bootted hand guard for safety purposes.

The specification of Hydraulic Combi Tool shall be strictly as below:

- Spreading distance shall not be less than 365mm.
- Max Spreading force not less than 150 ton.
Spreading force at 25mm from tips when the arms are closed shall not be less than 3.5Ton.
- Spreading force at 25mm from tips when the arms are closed shall not be less than 3.5Ton.
- Pulling length not less than 380mm.
- Pulling force not less than 6Ton.
- Max cutting force shall not be less than 48 Ton
- Capable of cutting round steel bar of diameter not less than 35mm as per NFPA standards.
- Weight shall not exceed 15Kg
- Operating be -20C to +55C
- Oil requirement shall not be more than 110cm³
- Max Working pressure shall not exceed 700 Bar
- Shall be as per NFPA Class A7/B8/C7/D8/E7
- Shall comply EN cutting performance 1I-2J-3I-4J-5J
- The tool shall have a dead man handle with accurate spring return to neutral position preferably with a star grip control. The tool shall have a quick coupler connected to the tool with a pigtail hose. The hoses used to connect the tool with the hydraulic power pack shall be in a pair running side by side and not "Hose in Hose" type or

coaxial hoses in any case.

- The combi tool shall be supplied with all accessories like pulling chains, chain adapters etc. The tool shall be new and duly certified for compliance with EN standards as well as NFPA standard either from TUV Germany/FM USA/EIL Delhi only
- For spreading, the tool shall be equipped with removable heads with innovative "shark-tooth tips" ensure as lip-proof "bite" at all times.
- Door opener tips set shall be provide with tool.
- (1)set of chain and shackle package for pulling operations
- The OEM must have NFPA compliant manufacturing facility for Rescue Tools here in India. The tool should be assembled or Made in India.
- Manufacturing facility shall be certified by TUV Germany / FM USA / EIL Delhi and relevant document in support to this shall be submitted at the time of bidding.
- Factory shall have capability of manufacturing and servicing and testing of Hydraulic Hose line Rescue tools and shall support spares availability for at least 5 years.

Make: Lukas/Webber/Hurst only

OEM authorization with proof of NFPA compliant manufacturing /service facility in INDIA.

PAINTING AND MARKING:

The basic structure material should be zinc plated and thereafter it should be prepared by grinding the welded surfaces, priming the finished material with a zinc rich primer and then finally coated with a two pack epoxy based paint. Once the paneling is completed, all the outside surfaces should be painted with a good quality paint system. This should be polyurethane (PU)/Auto based paint with a life of minimum 5 years. The whole of the chassis and the body shall be coated from under with 2 coats of anti corrosive paint

ACCEPTANCE TESTS:

The following acceptance test will be given to the complete satisfaction of the owner. All the testing parameters should be carried out at the manufacturer's premises and the details of the testing infrastructure shall be provided. The Bidder will offer proof of having these facilities at his works shop failing which the tender is liable for rejection.

GRADIENT:

The vehicle will be tested on a test ramp which has an angle of 1Mtrs in every 4 Mtrs of distance travelled. This test will be done as per the Indian standards.

LONGRUNNING TEST:

The rating of pump would be min. 4 hrs. The pump will be tested for a continuous period off four hours and the water will not be replenished in the radiator during this test.

ARTICULATIONTEST:

The vehicles will be tested for articulation and will not show any signs of stress during this test. Also the clearances in the wheel wells will be checked for tolerances.

SHOWERTEST:

After completion of the fabrication, the vehicle will be subjected to shower test as per the norms laid down under BIS. The appliance will not show any signs of leakages during this test.

GUARANTEE/WARANTEE PERIOD:

The vehicles shall be guaranteed for a period of minimum 1 year for all manufacturing defects. During this period if any defects are found in the vehicle the same will be repaired or replaced free of charge.

: TECHNICAL DATA SHEET ::

The following technical details shall be furnished in the e-Technical Bid:

To Design, Manufacture, Supply and Delivery of Fire Water Tender on suitable chassis as per Technical specification

(A)chassis

Name of manufacturer	
GVW	
Engine HP & No. of Cylinder	
Max Torque @ RPM	
Emission norms	

(B) Split Shaft P.T.O.:

Name of manufacturer (Back-up Guarantee of Manufacturer to be furnished)	
Gear Ratio	
H.P. Available at end of P.T.O. at R.P.M.	

(C)Tank: water

Capacity in Liters	
Thickness of wall in mm	
Material of Tank & Baffles	
Baffles Thickness in mm	
Level indicator size	

(D)High/Low Pressure Pump

Make and Model (Back-up Guarantee of Manufacturer to be furnished)	
Pressures in Bar	
Delivery in L.P.M.	
Number of Plunger	
Number of outlets.	

(E) Hydraulic combi tool.

Make & Model	
Compliance with standard.	
Spreading distance in MM	
cutting force in TON	
Capable of cutting round steel bar of diameter inn mm	

Sign of e-Tenderer.

:: DETAILS OF TENDERER DATA SHEET ::

1	a	Name of Tenderer	
	b	Address of the office(s) and Factory	
	c	Date of incorporation and/or commencement of business	
2		Brief description of the Tenderer's main lines of business	
3		Details of individual(s) who will serve as the point of contact / communication for RMC with the tenderer	
	a	Name	
	b	Designation	
	c	Company / firm	
	d	Address	
	e	Telephone number	
	f	e-mail address	
	g	Fax number	
	h	Mobile number	
4		Name, Designation, Address and Phone Numbers of authorized signatory of the tenderer.	
	a	Name	
	b	Designation	
	c	Company / firm	
	d	Address	
	e	Telephone number	
	f	e-mail address	
	g	Fax number	
	h	Mobile number	

Sign of e-Tenderer.