

GOVERNMENT OF TELANGANA
STATE DISASTER RESPONSE AND FIRE SERVICES DEPARTMENT

NOTICE INVITING TENDERS (Online Version)

Tender Number : Rc. No. 3997/S1/e-Tender/2015-MPT

Date:14-08-2015.

Tender Subject: Tenders are invited from the Manufacturers and Tender specific Authorized Dealers for Fabrication of (38) Nos. of Multi Purpose Fire Vehicles as per Specifications at Part-C

1.	Department Name	Telangana State Disaster Response and Fire Services
2.	Circle/Division	OFFICE OF THE DIRECTOR GENERAL TELANGANA STATE DISASTER RESPONSE AND FIRE SERVICES 1 ST FLOOR, 'B' 1ST FLOOR, 'B' BLOCK, B.R.K.RAO BHAVAN, TANK BUND ROAD, HYDERABAD
3.	Tender Number	No. 3997/S1/e-Tender/2015-MPT
4.	Tender Subject	Fabrication of Multi Purpose Fire Vehicle on the Chassis to be supplied by the Department as per Specifications at Part-C
5.	Period Of Contract	As per Tender Document
6.	Form Of Contract	As per Tender Document
7.	Tender Type	Open-Rate Contract
8.	Tender Category	Products/Item
9.	Estimated Contract Value (ECV)	152000000.00
10.	EMD Amount	1520000.00
11.	EMD Payable	Demand Draft drawn in favour of <i>Administrative Officer,</i> <i>O/O. DGSDR & FS, Telangana, Hyderabad from any</i> <i>nationalized / Scheduled Bank</i>
12.	Bid Document Downloading Start Date and time	20-08-2015 at 10:30 hours
13.	Bid Document Downloading End Date and time	09-09-2015 at 17:00 hours
14.	Bid Submission Closing Date & Time	10-09-2015 at 17:00 hours
15.	Submission of Documents, separate DDs towards EMD and Process Fee	SCANNED COPY SHOULD BE UPLOADED WHILE BIDDING AND HARD COPY SHOULD BE SUBMITTED WELL BEFORE OPENING OF PRE-QUALIFICATION BID
16.	Firm Inspection	This Departmental Officers will inspect the Workshops of firms from 12-09-2015 to 17-09-2015 for assessing the capabilities of firms for fabrication of Fire Vehicles.
17.	Stages of Inspection	This Departmental Officers will inspect the Fire Vehicles in 3 stages. Details are noted in tender Document.
18.	Delivery location for the items to be supplied	Assistant Equipment Officer, State Stores, Telangana State Fire Services & Civil Defence Training Institute, Gowlidoddi, Vattenagulapally (V), Rajendernagar (M), Ranga Reddy District- 500 008

19.	Pre-Qualification Opening Date & Time	11-09-2015 at 11:30 hours
20.	Technical Bid Opening Date & Time	18-09-2015 at 11:30 hours
21.	Price Bid Opening Date & Time	19-09-2015 at 11:30 hours
22.	Place Of Tender Opening	OFFICE OF THE DIRECTOR GENERAL TELANGANA STATE DISASTER RESPONSE AND FIRE SERVICES 1 ST FLOOR, 'B' 1ST FLOOR, 'B' BLOCK, B.R.K.RAO BHAVAN, TANK BUND ROAD, HYDERABAD
23.	Tender Inviting / Opening authority	Director General, Telangana State Disaster Response and Fire Services ,1 st Floor, 'B'Block,B.R.K.Rao Bhavan, Tankbund Road, Hyderabad
24.	Contact Person	Sri. Lakshmi Prasad, Additional Director, Telangana State Disaster Response and Fire Services Cell. No. 9849906105
25.	E-mail id	(i) lakshmi_prasad50@yahoo.com (ii) ao_general@yahoo.com
26.	Contact Details/Telephone, Fax	Ph. No. 040-23442944/23442955 Fax No. 040- 23260081
27.	Procedure For Offer Submission	The Bidders shall submit their response through Bid submission to the tender on e-procurement platform only at www.eprocurement.gov.in by following the procedure given below. The Bidders would be required to register on the e-procurement market place www.eprocurement.gov.in or https://tender.eprocurement.gov.in and submit their bids online. Offline bids shall not be entertained by the Tender Inviting Authority for the tenders published in eProcurement platform. The Bidders shall submit their eligibility and qualification details, Technical bid, Financial bid etc., in the online standard formats displayed in eProcurement web site. The Bidders shall upload the scanned copies of all the relevant certificates, documents etc., in support of their eligibility criteria/technical bids and other certificates documents in the eProcurement web site. The Bidders shall sign on the statements, documents, certificates, uploaded by them, owning responsibility for their correctness / authenticity. The Bidders shall attach all the required documents for the specific tender after uploading the same during the bid submission as per the Tender Notice and Bid Document.

	<p>1. Registration with e-Procurement platform:</p> <p>For registration and online bid submission Bidders may contact HELP DESK of M/s Vayam technologies Limited or https://tender.eprocurement.gov.in.</p> <p>2. Digital Certificate Authentication:</p> <p>The Bidders shall authenticate the bid with their Digital Certificates for submitting the bid electronically on e.procurement platform and the bids not authenticated by digital certificate of the Bidders will not be accepted on the e.procurement platform</p> <p>3. Submission of Hard Copies:</p> <p>After submission of bid online, the Bidders are requested to submit the originals of DD/BG towards EMD, bid processing fee to the Tender Inviting Authority before opening of the Pre-Qualification Bid and other uploaded documents at the time of concluding agreement. The Bidders shall invariably furnish the original DD/BG to the Tender Inviting Authority before opening of Pre-Qualification bid either personally or through courier or by post and the receipt of the same within the stipulated time shall be the responsibility of Bidders. The department shall not take any responsibility for any delay or non-receipt. If any of the documents furnished by the Bidders are found to be false/fabricated/bogus, such Bidders are liable for blacklisting, forfeiture of the EMD, cancellation of work and criminal prosecution. The Bidders are requested to get a confirmed acknowledgement from the Tender Inviting Authority as a proof of submission of Hardcopies to avoid any discrepancy. The Bidders have to attach the required documents after uploading the same as required by Tender Inviting Authority in the tender conditions.</p> <p>4. Payment Of Transaction Fee:</p> <p>It is mandatory for all the participant Bidders from 1st January 2006 to electronically pay a Non-Refundable Transaction fee of (@ 0.03% Of ECV (estimated contract value) with existing caps for all works + 14.00% Service Tax and Bank Charges payable at the time of bid submission to M/s. APTS, the service provider through "Payment Gateway Service on E-Procurement platform". This is in compliance of G.O.Ms No. 4 IT & C Department dt, 17-02-2005 and G.O. Ms.No. 11 IT & C Department dt, 23-07-2010.</p>
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		<p>5. Corpus Fund:</p> <p>As per GO Ms No. 4, User Departments shall collect 0.04% of ECV (estimated contract value) with a cap of Rs. 10,000 (Rupees Ten Thousand only) for all works with ECV upto Rs. 50 crores and Rs. 25,000/- (Rupees Twenty Five Thousand only) for works with ECV above Rs. 50 crores, from successful Bidders on e.procurement platform before entering into agreement / issue of purchase orders, towards e-Procurement fund in favour of Managing Director, APTS. There shall not be any charge towards e.procurement fund in case of works, goods and services with ECV less than and upto Rs. 10 lakhs.</p> <p>6. Tender Document:</p> <p>The Bidders are requested to download the Tender Document and read all the terms and conditions mentioned in the Tender Document and seek clarification, if any, from the Tender Inviting Authority. Any offline bid submission clause in the tender document could be neglected. The Bidders have to keep track of any changes by viewing the Addenda / Corrigenda issued by the Tender Inviting Authority from time-to-time, in the e.procurement platform. The Department calling for Tenders shall not be responsible for any claims / problems arising out of this</p> <p>7. Bid Submission Acknowledgement:</p> <p>The Bidders shall complete all the processes and steps required for Bid submission. The system will generate an acknowledgement with a unique bid submission number after completing all the prescribed steps and processes by the Bidders. Users may also note that the bids for which an acknowledgement is not generated by the e.procurement system are treated as invalid or not saved in the system. Such invalid bids are not made available to the Tender Inviting Authority for processing the bids. The Government of AP and M/s APTS are not responsible for incomplete bid submission by users.</p>
28	General Terms & Conditions	As per Tender Document

HOW TO APPLY

- Click at www.eprocurement.gov.in or <https://tender.eprocurement.gov.in> to download e-Procurement notification
- Read the complete document, carefully
- Price Bid shall be submitted online only.
- Pay transaction fee of (@ 0.03% of ECV (estimated contract value) with existing caps for all works + 14.00% Service Tax and Bank Charges payable at the time of bid submission to M/s. APTS, the service provider through "Payment Gateway Service on E-Procurement platform". This is in compliance of G.O.Ms No. 4 IT & C Department dt, 17-02-2005 and G.O. Ms.No. 11 IT & C Department dt, 23-07-2010.
- The system will generate an acknowledgement with a unique offer submission number on successful completion of the above process.

For any help or technical support on e-Procurement, Bidders may contact M/s Vayam Technologies Limited over phone or in person or their helpdesk at: e-Procurement Help Desk.

Vayam Technologies Limited
Plot No.107, 1st Floor, Lumbini Enclave, Opp: NIMS Hospital,
Near Hotel Urvasi , Punjagutta,
Hyderabad-500082,
Telangana, India
Ph: +91-40-44426250/51
Fax: +91-40-44426252
E-Mail: helpdesk.eproc@vayamtech.com
Visit: www.eprocurement.gov.in.

Director General,
Telangana State Disaster Response and
Fire Services, Hyderabad

PART-A

Office of the
Director General,
Telangana State Disaster Response and
Fire Services, Hyderabad.
Dated:14-08-2015.

Rc. No.3997/S1/e-Tender/2015-MPT

e-TENDER NOTIFICATION

Tenders are invited through e-procurement platform from the Manufacturers and Tender specific

Authorized dealers for the supply of following items to this Department

Sl. No.	Name of the item to be supplied	Qty	Last date for submission of Tender	EMD Value	Warranty
1	Fabrication of Multi Purpose Fire vehicle on the Chassis to be supplied by the Department	39 Nos	10-09-2015 at 17:00 hours	1520000.00	03 years

The Short Tender system is THREE-BID SYSTEM i.e. “Pre-qualification bid”, “Technical bid” and “Commercial/Financial Bid”. The following is the Tender Schedule.

Sl. No.	Schedule	Date and time
1	Bid Document Downloading Start Date and time from e-Procurement site	20-08-2015 at 10.30 hours
2	Bid Document Downloading End Date and time from e-Procurement site	09-09-2015 at 17.00 hours
3	Bid Submission Closing Date & Time from e-Procurement site	10-09-2015 at 17.00 hours
4	Submission of EMD and other documents	11-09-2015 from 10:30 hours to 11:30 hours
5	Pre-Qualification Bid Opening Date & Time	11-09-2015 at 11.30 hours
6	Technical Bid Opening Date & Time	18-09-2015 at 11.30 hours
7	Price Bid Opening Date & Time	19-09-2015 at 11.30 hours

Tender schedule form and conditions of contract can be downloaded from e-Procurement site, i.e. “www.eprocurement.gov.in” or “http://tender.eprocurement.gov.in”. The last date for submission of Tender online is 10-09-2015 at 17:00 hours.

Director General,
Telangana State Disaster Response and
Fire Services, Hyderabad

Copy to the Commissioner, Telangana Information & Public Relations, A.C. Guards,
Hyderabad to give wide publicity in all the leading daily news papers.
Copy to Assistant Equipment Officer, Telangana States Stores, Hyderabad.

PART-B

SCHEDULE TO TENDER

GOVERNMENT OF TELANGANA
STATE DISASTER RESPONSE AND FIRE SERVICES DEPARTMENT

Schedule to Tender No	No. 3997/S1/e-Tender/2015-MPT
Bid submission Closing date and time from e-Procurement site	10-09-2015 at 17:00 hours
Time and date for opening of Tender (Pre-Qualification Bid)	11-09-2015 at 11:30 hours
Technical Bid opening Date and Time	18-09-2015 at 11:30 hours
Price Bid opening Date and time	19-09-2015 at 11:30 hours
Validity of offer	The Tender shall remain open for acceptance till 31-03-2016 subject to the release of funds by the Government.

Bidders are advised to go through this Tender document carefully before filing the Tender.

Sl. No.	Name of the item to be supplied	Qty	Last date for submission of Tender	EMD Value	Warranty
1	Fabrication of Multi Purpose Fire vehicle on the Chassis to be supplied by the Department	39 Nos	09-09-2015 at 17:00 hours	1520000.00	03 years

SPECIFICATIONS: Specifications for the above items are attached in the Schedule Part-C. The Bidders should adhere to the specifications strictly, failing which their bids will be rejected.

All Tender Documents attached with this Invitation to Tender including the specifications are sacrosanct for considering any offer as complete offer. It is therefore important that each page of the TENDER DOCUMENTS ARE DULY COMPLETED AND SIGNED.

1.	Purchaser and Inspection Authority	:	Director General, Telangana State Disaster Response and Fire Services, Hyderabad.
2.	Inspection Officer	:	Any officer/ officers nominated by the Director General of Telangana State Disaster Response and Fire Services, Hyderabad
3.	Stores required at	:	FREE DELIVERY AT CONSIGNEES LOCATION, i.e. Assistant Equipment Officer, State Stores, Telangana State Fire Services & Civil Defence Training Institute, Gowlidoddi, Vattenagulapally (V), Rajendernagar (M), Ranga Reddy District - 500 008

4.	Delivery required by	:	Within 90 days of placement of Supply order for entire quantity.
5.	Dispatch Instructions	:	Stores are required to be delivered at consignee's location at freight, risk and cost of the supplier.
6.	Payment Terms	:	Full payment after receipt of the stores/supplies as per supply order after being inspected and accepted by the line committee of the Department .

ELIGIBILITY CRITERIA:

1.	All bidders are required to submit their offers as follows:-
A	<u>PRE-QUALIFICATION BID:</u>
1.	Documents
	(i) The hard copies of these documents are to be submitted before the date & time of opening of Pre-Qualification Bid
	(ii) This Departmental Officers will inspect the Workshops of firms from <u>11-09-2015</u> to <u>17-09-2015</u> for accessing the capabilities of firms for fabrication of Fire Vehicles.
2.	Only those Bidders who are in the line of fabrication and are in a position to complete the supplies within the 90 days time should quote.
3.	The Tenderer should possess experience in similar field and have fabricated at least 50 Nos. of Fire Tenders out of which at least 10 Nos. shall be Multi Purpose Fire Vehicles during the last 05 years. Further the tenderer should have experience of fabricating Fire Tenders with aluminum super structure and have manufactured at least 50 Nos. of such tenders in the past 5 years. All these Multi Purpose Fire Vehicles should be in operation satisfactorily as on the date of the Tender opening. They should also have facility for deep-lift test of pump and vehicle stability test as per relevant I.S. The tenderer having the above experience and test facility need only submit their offers. The tenderer shall furnish the details in the relevant schedule along with documentary evidence along with their offer.
4.	The Bidders must produce the following documents pertaining to the Firm for Pre-Qualification Bid along with the Tender.
	i. Company/Firm Registration Certificate.
	ii. Income Tax returns for the period from 01.04.2013 to 31.03.2014.
	iii. VAT Return for the period from 1.04.2013 to 31.03.2014 (or) VAT Clearance Certificate for the period up-to 31-03-2014 certifying the minimum turnover of Rs.1.00 Crore per annum.
	iv. SSI Certificate, if applicable.
	v. NSIC Certificate, if applicable
	vi. EMD Demand Draft.
	vii. Certificates/Orders regarding Previous performance
	viii. Supply Orders regarding similar vehicles supplied elsewhere together with satisfactory certificate.
	ix. Performance statement for last three years in proforma at Part-D

5.	Bidders without E.M.D. or S.S.I/NSIC registration certificate will be rejected at the time of opening of tenders before Bidders by the Tender Committee. A valid SSI/NSIC certificate giving details of items of manufacture along with proof of address of the Firm should be submitted with the tender schedule.
6.	Bidders quoting for the above items should have minimum 3 years of experience and should have supplied the tendered quantity during the total 05 years and produce copies of the Supply orders
7.	An S.S.I./NSIC certificate will be considered in lieu of E.M.D. only when the item quoted by the SSI/NSIC Unit is included as one of the authorized items to be manufactured by the Units as per the Certificate. Otherwise, the SSI/NSIC certificate is not valid.
8.	<p>Earnest Money Deposit</p> <ul style="list-style-type: none"> (i) All Firms are required to deposit Earnest money equivalent to the amount as mentioned in the Tender Schedule, failing which their offer will be summarily rejected. (ii) Earnest Money Deposit amount as specified in the Tender Notification should be submitted in the shape of Demand Draft in favour “Administrative Officer, O/o. DGSDR & FS, Telangana Hyderabad” for Rs.1520000.00 G.O.Ms.No.94 Irrigation and Cad (PW-COD) Department dt, 01-07-2003 @ 1% of the Estimated Contract Value before the opening of Pre-Qualification Bid. (iii) The Successful bidder will pay balance EMD of 1½% of each item contract value at the time of concluding the agreement (iv) The earnest money shall be valid and remain deposited with the purchaser for the period of 90 days from the date of tender opening. If the validity of the tender is extended, the validity of the Earnest money will also be suitably extended by the Bidder, failing which their tender after the expiry of the aforesaid period shall not be considered by the purchaser. (v) No interest shall be payable by the purchaser on the EM deposited by the Bidder. (vi) The Earnest Money deposited is liable to be forfeited if the Bidder withdraws or amends impairs or derogate from the tender in any respect within the period of validity of his tender. (vii) The earnest money of the successful Bidder shall be returned after the Security Deposit as required in terms of the contract is furnished by the Bidder. (viii) If the successful Bidder fails to furnish the Security Deposit as required in the Contract within the stipulated period, the Earnest Money Deposit is liable to be forfeited in favour of the Tender Inviting Authority. (ix) Earnest Money of all the unsuccessful Bidders shall be returned by the Department as early as possible after the expiry of bids validity, Bidders are advised to send a pre receipt challan along with their bids so that refund of Earnest Money can be made in time. (x) Any tender, where the Bidders are required to deposit Earnest Money in terms of Conditions mentioned in preceding paras, not accompanied with Earnest Money in any one of the approved forms acceptable to the purchaser, shall be rejected. (xi) E.M.D. is refunded after successful supply is completed (xii) Except the NSIC certificate holders, all other SSI units located outside the Telangana State should attach EMD along with tender.

B.	<p><u>TECHNICAL BID:</u></p> <p>(i) Item to be as per specifications at Part-C.</p> <p>(ii) Items which are not as per the specification at Part-C will be rejected.</p> <p>(iii) The Firm will be required to demonstrate the Equipments/Products offered by them before a Committee of Officers (to be nominated by the Director General of Fire Services, Telangana Hyderabad) for assessing the technical suitability and performance of the equipment as per the Tender Specifications.</p> <p>(iv) The equipment will be tested in presence Bidder at Fire Services & Civil Defence Training Institute, Vattinagulapalli, Ranga Reddy District on the day of Technical Bid as per the specifications at Part-C.</p> <p>(iv) The offer of the Bidder will be rejected if either the sample(s) is not submitted or the demonstration is found to be not complying to the requirement of the tender.</p>
C	<p><u>COMMERCIAL/ PRICE BID:</u></p> <p>a) Price bids of only those Firms whose technical bid as well as performance of their Equipment/Products so demonstrated are found acceptable as per Tender will be opened. Sample/Product so demonstrated have to be deposited with the purchaser for further comparison with bulk supply which will be returned on request of the Firm after completion of supply. If the supply is found inferior, the entire consignment will be rejected at the cost, risk and freight of the supplier</p> <p>b) <i>Prices are to be quoted in “ online” only</i></p> <p>c) Bidders are required to quote rates on free delivery at Consignee location basis only. Bids received on FOR Destination Stations/ Station of dispatch basis or different rates for different destinations shall be summarily rejected. Rates should be quoted in figures and words clearly INCLUSIVE OF ALL TAXES, DUTIES, DISCOUNTS, if any etc., ON SITE WARRANTY as mentioned in the tender</p> <p>d) Firms should clearly indicate the bid price inclusive of all taxes, duties, transport cost etc., which they propose to charge. Offers with such stipulations like ‘as applicable’ will be treated as vague and are liable to be ignored.</p> <p>e) The price bid of eligible Firms will be opened and order would be awarded to the lowest bidder(s) on item by item basis.</p> <p>f) The acceptance of the tender will be intimated to the successful bidder/s only.</p> <p>g) The decision of Director General of Telangana State Disaster Response and Fire Services, Hyderabad shall be final as regards the acceptability of tendered articles and stores to be supplied by the Bidders.</p>
D	<p><u>SUPPLY ORDER:</u></p> <p><u>Quantity:</u></p> <p>(i) The supply order will be placed on the lowest bidder, subject to availability of funds/release of funds by the Government</p> <p>(ii) Multiple orders on one firm can be placed subject to availability of funds. All the conditions shall apply to each of these multiple orders.</p> <p>(iii) Purchaser reserves the right to increase the quantity up to 25% under the sole discretion of the purchaser and reserves right to reduce the quantity subject to availability of funds/release of funds by the Government.</p> <p>(iv) Purchaser reserves the right to scrap the tender without assigning any reasons at any stage.</p> <p>(v) Supplies should be completed within 90 days from the date of supply Order, otherwise the supply order will be cancelled, besides action will be taken accordingly.</p>

	<p>Security Deposit and Performance Guarantee Security:</p> <ol style="list-style-type: none"> a. As per Article 129 (A) of A.P. Financial Code Vol-I, the successful bidder will be required to furnish a Security Deposit of 20% of the total value of the contract, in two D.Ds of 10% and 10% each. b. The Security Deposit (10%) will be returned after the completion of the supplies within the delivery period to the satisfaction of the consignee. In case of failure of supply within the delivery period, Security Deposit (10%) will be forfeited. c. The remaining (10%) of Security Deposit shall continue to be with the consignee as performance guarantee for 3 three years validity. d. The successful bidder will have to enter into an Agreement with the Director General of Telangana State Disaster Response and Fire Services, Hyderabad on behalf of the Governor of Telangana for the performance of the contract on Rs.100/- stamped paper of Telangana or Government of India, the cost of which has to be borne by the supplier. The agreement bond should be submitted within 7 days from the date of receipt of intimation letter from this office. e. (i) If the article(s) are damaged within the warranty period and not replaced within 30 days, the bidder will be penalized to the extent of twice the cost of damaged articles. (ii) Upon completion of warranty period successfully, Performance Guaranty 10% will be returned to the bidders. f. The bidder shall submit an undertaking for the Performance Guarantee g. The selected Firm should submit Security Deposit along with agreement bond within 7 days from the date of receipt of communication from this office, or otherwise, the proposed Purchase Order will be cancelled and further action taken.
	<p>INSPECTION:</p> <ol style="list-style-type: none"> a) I stage inspection: Structure work of driver cum crew cabin and rest of the Vehicle at the workshop of the firm. b) II Stage inspection: Fabrication of water tank, Mounting of P.T.O & Rear Mounted pump visual inspection and testing the working of pump & PTO and Paint finishing and logo writing at the workshop of the firm c) Final inspection and Road test of the vehicle shall be done at State Stores, Telangana State Fire Service & Civil Defence Training Institute, Gowlidoddi (V), Vattinagulapalli, Rajendra Nagar Mandal, Ranga Reddy District - 500 008.

E.	<p><u>DELIVERY</u></p> <ol style="list-style-type: none"> a. Fire Vehicles supplied shall be strictly as per the approved drawings and specifications. Or else, such they shall be rejected and returned to the Bidder at his own cost for replacement within 30 days. Action will simultaneously be taken either to reduce the rates of the items to be supplied up-to the extent of 10% or to blacklist the Firm besides affecting forfeiture of Earnest Money Deposit and / or Security Deposit amount and initiation of action to obtain supplies from alternative sources at the risk and cost of the Bidder. b. The stores should be delivered to the Assistant Equipment Officer, State Stores, Telangana State Fire Services & Civil Defence Training Institute, Gowlidoddi, Vattenagulapally (V), Rajendernagar (M), Ranga Reddy District- 500 008. c. The date mentioned in the Purchase Order for arranging supplies should be construed as date on or before which supplies should be received by the Consignee and should not be taken as the date for dispatching stores. d. Unless and until prior extension in delivery period is applied for and granted, the execution of the supplies after the delivery date mentioned in this order shall be deemed to constitute breach of contract and shall attract condition No. (a) above e. The stores on their receipt will be inspected by the line committee of the Department. The stores not as per the sample/specification/damaged shall be rejected by the line committee duly recording the reasons for rejection. f. Liquidated Damages: In case the Firm does not complete the supply within delivery period, liquidated damages will be charged @ 5% of the total cost of items ordered on the Bidder and if required, action will be taken against the Firm to Blacklist it and also for forfeiture of its Security Deposit g. If the Bidder fails to deliver the stores or any consignment thereof within the period prescribed for such delivery, the Director General of Telangana State Disaster Response and Fire Services, Hyderabad, shall be entitled at his discretion to the action as under: <ol style="list-style-type: none"> i. Should the bidder fail to supply the materials on or before the stipulated date, the extension of period for supply is purely at the discretion of the Director General of Telangana State Disaster Response and Fire Services, Hyderabad., In such situation, the Director General of Telangana State Disaster Response and Fire Services, Hyderabad will be at liberty to reduce the rates of the articles to be supplied up-to the extent of 10%; ii. To cancel the contract or portion thereof and if so desired to purchase the stores at the risk and cost of the contractor, or iii. To forfeit the Earnest Money Deposit and/or Security Deposit to the extent of the loss incurred by the Government. iv. In the event of action being taken under (i), (ii), and (iii) above the bidder shall be liable for any loss which the Government may sustain on that account but the bidder shall not be entitled to any gain on purchases made against default. h. Advance delivery prior to issue of Purchase Order will not be accepted
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	<p>i. Dispatch Instructions:</p> <p>(i) All the supplies should be delivered to the consignee in the manufacturer's original packing and original markings</p> <p>(ii) The bill of cost inclusive of all taxes, transport etc., should be submitted in triplicate to this office for arranging necessary payment</p> <p>(iii) The Bidders should affix stamp clearly of the concerned Firm on each item supplied by them after issue of Purchase Order while making delivery to this office Central Stores</p>
F.	<u>GENERAL CONDITIONS</u>
1.	The Director General of Telangana State Disaster Response and Fire Services, Hyderabad reserves himself the right to reject any tender which does not comply with the conditions
2.	The Director General reserves the right to obtain the performance reports from the Government organizations to whom the Tenderer supplied the goods previously and reserves the right to reject the Tender.
3.	The Bids will be received by the Director General of Telangana State Disaster Response and Fire Services, Hyderabad, through e-tender system as per the particulars given in the Tender Schedule in three phases, i.e. Pre-qualification, Technical and Financial.
4.	If the date originally scheduled for opening of the Bids gets declared by Government at a later stage as public holiday, the Bids will be opened on the next working day at the same time.
5.	Failure to abide by any of the conditions stated above will result in the Bid being rejected without notice.
6.	The Security Deposit submitted by the bidder against the order or the Earnest Money where no Security Deposit has been made by the bidder is liable to be forfeited to Government in the event of a breach, on the bidders part in respect of the terms and conditions laid down in the Purchase Order. Such forfeiture shall be in addition to the remedies available under condition No.i(iii) (Delivery)
7.	If any dispute arises as to the quality of stores supplied, the decision of the Director General of Telangana State Disaster Response and Fire Services, shall be final and furnish the reasons in writing for rejection of the supplies to that effect. Rejected goods or materials shall be removed at the expenses of bidder within seven days, after the notice has been given to the bidder. If not removed, the Director General of Telangana State Disaster Response and Fire Services, Hyderabad may cause the goods or materials to be removed and penalize the bidder with all expenses incurred in such removal
8.	In case of any breach of contract, Terms of Agreement and Purchase Order and its conditions, the decision of the Director General of Telangana State Disaster Response and Fire Services, Hyderabad is final and binding on the bidder
9.	The contract or any part of it shall not to be transferred or assigned by the bidder directly or indirectly to any other agencies whom-so-ever without the written consent of the Director General of Telangna State Disaster Response and Fire Services, Hyderabad

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10.	In case of any dispute, the matter can be referred to competent Court at Hyderabad city only and not anywhere else.
11.	Payment will be made by this office for all supplies through online NEFT/RTGS only.
12.	Full name and status of the person signing the tender documents must be clearly mentioned in the tender documents.
13.	Before submission of tender, Bidders will check the Check Lists at Part E & F attached to the tender documents for compliance on various stipulations of the tender.

Director General,
Telangana State Disaster Response and
Fire Services, Hyderabad

Pg. No. 8/8 of Part-B

PART-C

SPECIFICATIONS OF MULTI PURPOSE FIRE VEHICLE FOR TELANGANA DISASTER RESPONSE AND FIRE SERVICES DEPARTMENT

1 CHASSIS

- 1.1. The Tender calls for supply of Multipurpose Fire Vehicle fabricated on Chassis to be supplied by the Department with Water, Foam and Dry Chemical Powder for Fire Brigade use. The vehicle shall conform to the following specifications and special technical provisions.
 - 1.2 The contractor shall add 3 Nos. Spring leaves on each side of the rear axle and 2 Nos. on each side of the front axle immediately below main spring leaf in order to bear the static load of tender when fully loaded.
 - 1.3 Mild steel channel (s) of size 100 ISMC shall be fitted to the two long members throughout the length of the chassis using 12 mm balata packing and sufficient numbers of galvanized U-bolts of suitable size with washers & nylock nuts. To these mild steel channels, the MPT's mild steel structural cross channels, etc. shall be fitted.
 - 1.4 All the above mild steel channels and other mild steel structural members, including chassis members shall be thoroughly cleaned and painted with two coats of red oxide primer and two coats of coal tar epoxy.
 - 1.5 No part of the Chassis shall be cut or mutilated by the Successful Tenderer without the prior permission of the Director General of Telangana State Disaster Response and Fire Services, Hyderabad.
- 2) GENERAL REQUIREMENTS: The appliance shall incorporate a high low pressure fire pump of 3200 liters per minute capacity against a head of 3 meters at 8.5Kg/cm² & 300 lpm at 30Kg/cm², a S.S.water tank of 4,500 lts capacity, a foam compound tank of 600 litres capacity, 2 Nos of 22.5 kg Co₂ extinguisher Cylinders with common Manifold fitted on one side with 20 meters Hose Pipe with discharge horn and Dry Chemical Powder of 75 Kgs. It shall carry an aluminum extension ladder capable of extending upto to 10.5 metres, and the Vehicle should have towing facility.
- 2.2 The Multipurpose Fire Vehicle shall be fabricated in a manner so as to conform to the following characteristics :
- a) Gross vehicle weight (GVW) : Not to exceed 16200 kg including Crew, water, foam,
Dry Chemical Power and equipment.
FAW : 6000KG
RAW : 10200 KG
 - b) Maximum Speed on level : 72 KM/H
Road, fully laden.
 - c) The appliance shall be capable of being started from rest on a gradient of 1 to 4.

- d) When travelling at 48 Km/h on a level dry surface, the foot brake shall be capable of stopping the vehicle within a distance of 15m from the point at which the brake is applied. The hand brake shall be capable of holding the fully laden appliance on a dry surface gradient of 1 in 4 when in neutral gear.
- e) The appliance shall have the following overall dimensions :
- | | |
|----------------|-----------------------|
| Wheel base | Not more than 4470 mm |
| Turning Circle | Not more than 20 m |
| Road clearance | Not less than 26 Cm |
| Overall Width | Not more than 2.50 m |
- f) Overall length of the body should not exceed 7.4 M, width 2.5 M, over all height 3.3M.

2.3. The general requirement and broad specifications are stated in the following clauses. These specifications describe certain of the requirements to which the tender shall work ;but the fact that everything may not be fully specified and there may be errors and omissions from the specifications, shall not relieve the contractor (successful tenderer) from his obligation to execute the work completely in all respects. Everything necessary to enable the MPTs work satisfactorily shall be supplied.

2.4. The workmanship throughout shall be of the highest class and the materials used shall be of the best quality.

2.5. Tenderer shall adequate facility to carry out the contract work, if awarded. The tenderer shall submit along with their offers, all possible documentary evidence for the same. The details of the tenderer's own workshop facilities, testing facilities, manpower, etc., Shall invariably be furnished.

3) QUALIFYING REQUIREMENTS :-

The Tenderer should possess experience in similar field and have fabricated at least 50 Nos. of Fire Tenders out of which at least 10 Nos. shall be Multi Purpose Fire Vehicles during the last 05 years. Further the tenderer should have experience of fabricating Fire Tenders with aluminum super structure and have manufactured at least 50 Nos. of such tenders in the past 5 years. All these Fire Vehicles should be in operation satisfactorily as on the date of the Tender opening. They should also have facility for deep-lift test of pump and vehicle stability test as per relevant I.S. The tenderer having the above experience and test facility need only submit their offers. The tenderer shall furnish the details in the relevant schedule along with documentary evidence along with their offer.

4) MATERIALS :

- 4.1. The choice of the materials to be used in the construction of the appliance shall be made with a view to combining lightness with strength and durability. The following choice of materials shall be followed. They shall conform to the specifications mentioned against each.
- a) Pump Assembly: The Complete pump assembly made of Gun Metal conforming to IS 318 LTB2 with SS Pump shaft and will be carrying antifriction bearings. Full technical details shall have to be furnished by the fabricator/manufacture of the pump confirms to BIS certifications, details of the same shall have to be furnished in the tender.
 - b) parts which form water ways or come into contact with the water shall be corrosion – resistant material or should be made of material duly treated for anti-corrosion. All metal parts exposed to atmosphere shall either be of corrosion resisting material or treated.
- 4.2. Lubricating nipples shall be provided wherever necessary.

5) DESIGN AND CONSTRUCTION :

5.1 ENGINE :

- 5.1.1 The engine shall be provided with cooling system to permit its continuous stationery running without overheating. Indirect cooling system shall be incorporated, if necessary, which shall be of the open circuit type discharging water to the waste. Arrangement should be made to divert the cooling discharge water to water tank, if necessary.
- 5.1.2. The operating temperature of the engine cooling water shall preferably be thermostatically Controlled.
- 5.1.3. The oil in the oil sump shall be prevented from overheating.
- 5.1.4. Suitable gauge for cooling water and glow lamp for lubricating systems shall be provided in the driver's cab and on the pump panel. This shall be marked with operating temperature.
- 5.1.5. External filter shall be provided for the lubricating system and a tubular dip-stick to gauge the level of oil in the oil sump shall be provided.
- 5.1.6. Rear bumper should be supported with suitable angular to the chassis to strengthen towing assembly.
- 5.1.7 All important electrical circuits shall have separate fuses suitably indicated and shall be grouped into a common fuse-box located in an accessible position in Driver's cab and fitted with means for carrying spare fuses. The wiring shall be single pole and shall not be exposed to the atmosphere. Conduits shall be used wherever necessary.

5.2. WATER TANK :

5.2.1. A tank of 4,500 litres capacity constructed out of Stainless Steel SS 316 grade of 3.15 mm thickness shall be suitably mounted on the chassis in a manner keeping in view the proper load distribution on the axles. The tank shall be suitably baffled to prevent surge when the vehicle is braking, cornering or accelerating. The baffles shall be arranged in a manner to facilitate the passage of a man throughout the tank for cleaning purposes. The tank shall be mounted on three cross bearers to counteract stress caused by chassis flexing and shall be so secured that it can be removed. The body of the tank should be rectangular with all the eight corners in oval shape to reduce surging.

Note :A) The entire tank including the baffled plates shall be of 3.15 mm thickness and made of Stainless Steel SS 316 grade and shall be complete welded construction. The tank shall with stand a Hydraulic pressure of 0.3 Kgs /cm². Suitable stiffeners shall be provided to prevent surge while the vehicle is accelerating cornering and breaking. The manufacturers/ fabricator shall furnish complete fabrication details, design and mounting details, capacity etc.

The entire area above the tank and suction hose lockers shall be covered with 1.60 mm aluminum chequered plates, duly riveted firmly. The joints of the chequered sheet on the top of the water tank should be covered with aluminum beading. The entire area on the rear of the vehicle should also be covered by chequered plate. The inner side portion of the lockers adjoining the water tank wall will be paneled with 18 gauge aluminum chequered plate. Two small aluminum ladders should be provided at the rear side of the water tank to climb to the top of the tank on either side, with two horizontal hand railings to enable the crew to stand and climb on the top of the tank.

B) Tungsten Inert Gas welding electrodes should be used for fabrication of water tank.

5.2.2. The tank shall be fitted with a 50 mm bore overflow pipes. A 63 mm instantaneous hydrant connection, incorporating a strainer, shall be provided close to the pump panel control for filling the tank through 50 mm bore pipe work or feeding the hose reel equipment. An 80 mm bore pipe line shall be taken from the tank to the suction inlet of the pump incorporating an 80 mm quick action spherical type valve. Separate valve(s) for performing the function given in 4.3.6 shall be provided to control the flow of water to the hose reel equipment. Drain plugs or drain cocks shall be provided wherever necessary.

5.2.3. The open end of the overflow pipe should be taken down to a point well below the chassis without affecting the effective ground clearance when fully loaded and shall discharge away from the wheels.

5.2.4. Thick toughened glass tube type Water level indicator for the tank shall be provided at the rear side of the water tank indicating the quantity including the readings $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$ and full (preferably calibrated in liters). A gunmetal drain cock shall be fitted at the lower end of the tube.

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5.2.5. The tank shall have a bolted man-hole of 45 cm dia minimum. A cleaning hole of at least 25 cm dia, shall also be provided at the bottom. Water tank should have two inspection man-holes one in front and the other at the rear with 8 inches dia aluminum blank cap on the top of the tank with one drain hole.

Note : A hole of 20 cms. dia. on the lid of man-hole with aluminum blank cap for its closing is to be provided.

5.2.6. The tank shall be connected with the pump and hose reel and valve(s) shall be provided in such a way that any of the following operations are possible:

- a) Hydrant to Tank with male Non Return valve to be fitted at rear pump
- b) Hydrant to Reel
- c) Tank-pump-Reel
- d) Hydrant-pump-Reel / adaptor 100 mm x 63 mm
- e) Pump to tank

5.2.6.1 Suitable lifting eyes shall be provided on the shell of the tank to enable the tank to be lifted off the vehicle for repairs / replacement as necessary.

5.2.7. FOAM COMPOUND TANK:

Foam compound tank shall be of 600 litres (AFFF 3% solution) capacity, fabricated out of stainless steel plates and appropriately designed to ensure load balancing of the tender. The foam compound tank shall be mounted on the chassis. The tank shall be separate and distinct unit which can be removed separately for replacement. Thickness of SS sheets shall be 2.5mm, SS 304 LTB quality material and shall be complete welded construction. Provision of a filler cap with Strainer and a Breather Valve for ventilation shall be provided. Tank shall also be provided a sludge trap. Connection to round the pump proportionate unit having flow control valve. Arrangement for filling from outside with the help of Electrically operated Foam Transfer pump with control valve and also arrangement for supply of Foam Compound for operating external equipment with control valve shall be provided. The tank shall be of rigid type and shall be of stainless steel welded construction. The tank shall withstand a hydraulic pressure of 0.3kg/sqcm. Suitable stiffeners shall be provided to prevent surge while the vehicle is accelerating, cornering and braking. The manufacturer/fabricator shall furnish complete fabrication details, design and mounting details, capacity, etc.,

5.2.7.1. Manhole of 450mm dia on top tank shall be used for foam filling with a removable strainer fitted to it. The strainer shall be of stainless steel and its total screening area shall be adequate to permit quick filling of foam compound into the tank. The filler cap shall be clearly marked "Foam".

5.2.7.2. The foam tank shall have its top of dished/funneling arrangement to enable easy filling from 20 litres drums. Suitable sharp edged punching device should be provided at the foam tank filling orifice for punching the foam compound directly from the drum into the tank without spillage. The design of tank shall incorporate a removable sump fitted with.

5.2.8. FOAM COMPOUND INDUCTOR&FLOW SELECTOR VALVE

Foam compound is required to be mixed with water in 3 per cent proportion for the maximum rated discharge of water from the pump installed. Similarly control system for operating either one or two or three or four units of FB 10 or FB 10-X shall have to be provided. Design of mixing system shall be proven and tested design and fabricator/manufacturer shall have to furnish complete details of the same. The system shall be hydraulically efficient and should ensure minimum loss of water pressure.

5.2.8.1. A variable round the pump proportionate should be fitted between suction and delivery of the fire pump. The Proportionate should have five position selector valves. The off position should isolate the proportionate so that the appliance can be used as water tender.

5.2.9. HOSE REEL FOR WATER (HIGH PRESSURE SYSTEM)

One number of sturdy Hose Reel (for High Pressure systems) is required to be mounted on the Multipurpose Fire Vehicle. Hose length shall be 60 metres of 25mm dia, with control type of nozzle which can discharge water in the form of jet and spray. Manufacturer/ fabricator shall furnish complete details of the Hose Reel and Nozzle in particular.

5.2.10. WATER/FOAM MONITOR

One fixed monitor which shall be capable of delivering water or foam as required, shall be installed on the Multipurpose Tender at a suitable location. It is preferred that fixed monitor shall not have less than 1800/2200 LPM of water and foam discharge capacity. The foam monitor should be capable of traversing 360 degrees in horizontal and elevating to 45 degrees from horizontal. The Fabricator/manufacturer shall have to furnish complete details along with drawing of water or Foam monitor which shall be mounted on the Multipurpose Tender. The monitor and hand lines must employ the self-aspirating type of foam producing system where aeration is done at branch pipe.

5.2.11 DCP EXTINGUISHING SYSTEM

5.2.11.1 The DCP container, Nitrogen cylinder, Hose Reel, and Applicator shall be suitably located in a locker.

5.2.11.2 The DCP container shall be designed to carry 75 kgs of dry chemical powder with a normal working pressure of 14 kg/sqcm. The container shall conform to the relevant clauses of ASME code for unfired pressure vessels. The design of the piping and valves shall be such that it provides the desired flow of gas into the system and minimum amount of restriction from DCP container to hose connections.

5.2.11.3 Provision shall be made for purging of all pipe lines and hose of dry chemical powder after use without discharging the powder remaining in the DCP container. Provision shall also be made for depressurizing of DCP container without loss of remainder powder from the container.

- 5.2.11.4 A check valve shall be provided in the gas piping to prevent the powder from being forced back into the propellant gas line.
- 5.2.11.5 A Pressure relief valve shall be provided for the DCP container and piping to prevent over pressurization in the event of malfunctioning of propellant gas regulator.
- 5.2.11.6 The DCP tank fill opening shall be located so that it will be easily accessible for recharging and require minimum amount of time and effort to open and close.
- 5.2.11.7 The propelling agent shall be dry Nitrogen. Sufficient quantity of the gas shall be provided to expel the entire quantity of the powder in the tank and also to permit the complete purging of all piping and hose lines after each use. The gas cylinder and valves shall conform to relevant ISI specification and approved by Chief Controller of Explosives, Nagpur.
- 5.2.11.8. The pressure regulation shall be so designed that it will automatically reduce the normal gas cylinder pressure and hold the propellant gas pressure at the designed operating pressure of 14kg/sq cm of the DCP container. The pressure regulating device shall be sealed at the designed operating pressure. The pressure regulating devices shall be fitted with spring loaded pressure relief valve to relieve the excess pressure that may develop in the regulator.
- 5.2.11.9. The DCP system shall be provided with one hand hose reel line and nozzle. The hose for the hand line shall have a minimum internal diameter of 25mm and 30Metres long with a test pressure of 3.5kg/sq cm.
- 5.2.11.10 The DCP hand line shall terminate in a nozzle that allows full open to closed position in one simple movement and shall be capable of discharging the powder at a minimum rate of 2.5kg/sec with a throw of not less than 6m. The nozzle shall be fabricated out of gun metal/stainless steel.
- 5.2.12. Co2 Extinguishing System:
2 Nos of 22.5 kg Co2 extinguisher Cylinders with common Manifold fitted on one side with 20 meters Hose Pipe with discharge horn
- 5.3. PUMP : The pump shall be of a reputed make viz. Firefly / Wadia / Brijbasi/ Vijay or equivalent standard.
- 5.3.1. Pump shall be rear mounted, discharging capacity shall be 3200 LPM at 8.5kg/cm² and 300lpm at 30 kg/cm² pressure and should be compact in size. The complete pump assembly made of GM confirming to IS:318 LTB2 with SS pump shaft and will be carrying in anti friction bearings. Full technical details of the pump shall have to be furnished by the fabricator/manufacturer and the pump confirms to certain BIS certifications, details of the same shall have to be furnished in the tender. Pump shall be rear mounted pump reciprocating priming type. The pump shall be fitted with suitable seal of self adjusting type. The pump casing and impeller shall be free from casting defeats such as blow holes etc.

5.3.2. For operating the pump, at required pressure and discharge quantity of water, engine power shall be transferred by providing the Power Take Off arrangement of appropriate capacity and type, lever of transfer of engine power either hydraulic or pneumatic shall be from driver's cabin. Power take off shall be indigenous. Pump PTO ratio should be matched to prevent engine wear and tear. The pump shall be preferably completely covered; however, all the controls on the panel and the gauges shall be uncovered. A control lever for engaging and disengaging the pump, with suitable locking devices, shall be provided in the driver's cab. Cooling system should also be provided to the P.T.O. (Power Take Off).

Note: The propeller shafts should be integral pieces free from joints or welding.

5.3.3. PUMP TEST :

The pump shall be run for a period of four hours non-stop delivering the rated output at 8.5 kg/cm² with a lift of 3m. During the test, the water shall not be replenished for the cooling system and the temperature of the engine oil should not exceed 115⁰C or of the engine manufacturer rated temperature for continuous working whichever is less. The engine should show no sign of stress during the test. The temperature of the cooling water (radiator water) tank shall not exceed 85⁰C. The P.T.O. pump oil temperature shall not exceed 100 percent of the manufacturers recommended temperature for the grade of oil used.

5.3.4. Cable Winch:

An electrically operated cable winch of Not less than 6.5 tons pulling capacity (single layer) shall be provided. The winch unit should be complete with minimum 5.5 hp, 12v or 24v DC series wound electric reversible motor for pulling operations. The motor and solenoids shall be grounded to the battery. It shall have an automatic load holding brake system for holding the load. For free spooling the clutch design shall be easy to use type with spring loaded pull and rotate system. The gear system should be 3 stage planetary type for faster line speed and the gear reduction ratio shall Not be more than 300:1 for maximum duty cycle, the rope drum shall Not be of more than 8 inches diameter and shall be supplied with minimum 90 ft heavy duty galvanized wire rope with replaceable self locking clevis hook and shall be mounted on the front bumper of the vehicle with suitable strong supports and a 4 way roller fairlead. Weather resistant clutch housing and solenoid assembly for maximum durability under any weather should be provided. Winch shall be provided with a wireless remote control mechanism for ease of operation.

5.3.5 Telescopic Light Masts:

A Pneumatic telescopic mast should be mounted on the vehicle. It should be manufactured from Anodized aluminum 6063 T6 alloy tubes, have a max diameter of 115 mm diameter on its base, and complete with a footplate Ø 150 with up to six fixing holes for bolts. The temperature range shall be from -40 deg. C up to 60 deg. C, with anti-twist lock, with safety valve and drainage outlet valve.

- (i) The telescopic mast should be extremely strong and designed with a minimum of 6 sections and it will be equipped with a special plastic locking system placed on the ring between the first and the second section meant to eliminate any backlash between all the sections, once the mast is retracted. The mast will be equipped with an internal spiraled electrical cable with 9 wires with a section each of 1.5 mm² and 13 wires with a section each of 0.22 mm², the group of 13 wires will be screened. Each section of the mast should have a thickness of Not less than 3.5 mm². For a better movement of the internal cable, the last three internal pistons will be threaded to the corresponding sections. The maximum height of the mast when deployed should be minimum 6000 mm (from the ground), the retracted height should be of maximum 1.900 mm: heights both are meant with the integrated tilt & turn unit. The working pressure cannot be less than 2.5 bar and more than 3.5 bar.
- (ii) An electro-pneumatic group of valves must be supplied and mounted at the bottom of the mast with the possibility to regulate the extension speed and the retraction speed separately.
- (iii) The Light mast will have 4 x 1000 Watt Halogen flood light projectors in weatherproof casing. The floodlights on the top should have a minimum electrical rotation of 365° and a tilt of 310°, by means of a tilt and turn unit with an ABS cover for inspection. An electronic PCB (printed circuit board) will be placed inside the tilt & turn unit, controlling all the functions of the mast, like pneumatic up/down, lights on/off, turning, tilting, emergency stop and automatic restore; still inside the tilt & turn unit, but separated from the PCB will be placed the relays for the lighting and switching off of the lights. The lights will be switched on and off in groups of 2+2. Suitable connections for taking permanent Power Supply from generator set through an internal spiral wire mounted inside the mast should be provided.
- (iv) All the functions of the mast, including extension and return to the original position, lights on/off, automatic restore should be capable of being done through a wired remote control. The same remote control must work without wire (wireless mode) through a male/female connector IP68 which keeps the battery under charge, whenever the remote is plugged and there is tension on the electrical circuit. Every single input given by the user, No matter which, will be confirmed by a visual led and an additional led will confirm the battery status; every single group of 2 lights when switched on will have a corresponding led light on the remote control that will go off only when the lights will be switched off. Every single input given by the user on the remote control will make the whole remote keyboard alight for Not less than 15 seconds.
- (v) A 5 KVA portable Petrol engine operated GENSET shall be installed at a suitable location in the rear locker and necessary wiring /connections shall be given to the light mast.

5.4. SUCTION INLET AND DELIVERY VALVES

- 5.4.1. The pump shall have suction inlet(s) having 100 mm standard suction connection (see IS 902/1974) with internal strainer(s) and blank cap(s). The strainer(s) shall be retained firmly when in use but shall be easily removable.
- 5.4.2. The pump shall be provided with two delivery valves having 63 mm standard hose couplings (see IS 903/1975) with screwed type quick closing clock valve (see IS 4928/1968) blank caps fastened with chains and incorporating means to relieve pressure between the valve and the cap shall be provided one for each delivery valve.

5.5. PRIMER :

- 5.5.1. The primer shall be capable of lifting water at least from 7 Metres depth at a rate not less than 30cms/sec and shall be any of the following three types a) Water Ring b) Reciprocating c) Exhaust ejector.
- 5.5.2. The primer of reciprocating type shall be made from gun metal and means shall be provided to limit the speed of engine automatically when primer is engaged.
- 5.5.3. In case of reciprocating type primer, the selection of materials shall be made with view that no major part is required to be replaced in course of service and the material used for those parts shall be phosphor bronze and stainless steel depending upon their respective strength and use. The caps of primer should be gun metal one's and springs shall be properly secured. The primer lever shall be easily accessible from the operator(s) position. There must be gun metal caps to the pistons of rear mounted pump instead of aluminum.
- 5.5.4. In case of water ring primer, means shall be provided to automatically disengage the primer, when the pump is primed.
- 5.5.5. Cooling system; In addition to radiator cooling, an indirect cooling system of the open circuit type shall be provided discharging water to the waste. This shall enable full power output to be maintained during continuous stationary running of the engine without overheating.
- 5.5.6. The oil in the oil sump shall be prevented from overheating and the pump characteristics shall be chosen in a manner so that the engine does not run at its maximum speed for giving maximum output.
- 5.5.7. The cooling water out let from PTO and additional cooling tank should be connected through G. I. pipe and brought back near the pump panel. A flexible rubber pipe at least 5 meters long shall be connected to the open end of the pipe through a threaded adpopter so that waste cooling water could be discharged away from the vehicle.

5.6. CONTROL PANELS :

5.6.1 Adequately illuminated control panel shall be provided and positioned as follows:-

- (a) Rear mounted pump – one control panel at the rear of the appliance.

5.6.2. The control panel(s) shall include the following:

- (a) Throttle control for engine.
- (b) Pressure gauge – 0 to 40 Kgf/cm²
- (c) Compound gauge calibrated as under:
 - Vacuum – 0 to 75 cm Hq. Preferably in RED.
 - Pressure – 0 to 4Kgf/ cm², preferably in BLACK.
- (d) Primer control (if the primer is not fully automatic)
- (e) Cooling water circuit control.
- (f) Selector valve
- (g) Control valve for auxiliary foam connection
- (h) Ball valve / Butterfly valve for tank to Pump.
- (i) Valve for Engine cooling.
- (j) Foam tank to inductor and Pump to inductor isolating ball valves.
- (k) Valve for Hose reel Control.
- (l) Valve for direct filling of tank.
- (m) Ball valve for monitor operation.
- (n) Two 63 mm Female instantaneous delivery outlets of pump with wheel type quick Closing clock valve
- (o) Control for flushing out foam making equipment and its plumbing
- (P) Glow lamp for engine lubricating system
- (q) Temperature gauge for engine radiator.

5.6.3 The following shall also be provided at a convenient position near the control panel(s)

- (a) Water level indicator (see 4.3.4.)
- (b) Five way control valve (see 4.3.6.)
- (c) Hydrant connections.

5.7. BODY WORK AND STOWAGE:

5.7.1. Body shall provide an enclosed accommodation for six persons in the Driver-cab-cum-crew compartment including the Driver and the in-charge of the crew. Driver cabin shall provide maximum possible vision and driver seat shall be adjustable type. Provision for fixing two Breathing Apparatus sets shall be provided in the cabin. Entire body work shall be done with MS pressed channels and steel members. External panels shall be of aluminum sheets. The exposed surface of Multipurpose Fire Vehicle shall be fitted with aluminum chequered plates. Similarly entire flooring shall be fitted with aluminum chequered plates.

5.7.2. Arrangement for storage of all equipment to be carried on the Multipurpose Fire Vehicle shall have to be provided in a systematic order. Where required suitable stands, holder clips, bolts, etc., shall have to be provided. All lockers shall have external access and weather proof release all water flowing wash down. The locker will be fitted with internal lighting which shall be capable of being switched "ON &OFF" by opening and closing of doors, Aluminum rolling shutters shall be preferred for lockers. One removable spark arrestor of approved design shall be fitted on the exhaust pipe rigidly. Opening and closing doors on each side shall be provided on the Driver-cab-cum-crew compartment. The doors shall be hinged opening outwards and shall be hung forward and shall have catch locks and flush type handles. Battery charger 5 Amps should be provided (24 volts D.C.) 2X12 chequer plate should be provided on the top of the cabin. There should be 18 gauge aluminum sheet with quoting for cabin ceiling instead of upholstery. Single step should be provided inside the cabin for the rear doors fitted with 10 gauge Aluminum chequered plate for entry into the cabin. Hand railing should be provided in the cabin with leather straps to hold it by the crew.

NOTE : Sufficient space to be provided to keep one portable Diesel pump in cab-cum-crew compartment behind the seat of the Driver Operator with necessary clamps. The flooring shall be provided over the cross members with 10 gauge chequered Aluminum sheet. The complete floor plate shall be rigidly fixed to cross members with G.I. Bolts and nuts and joints soldered. The floor shall be completely airtight. Drain holes of 13mm size and trap doors shall be provided wherever necessary.

- (i) Bonnet hood (Base) and Bonnet Extension shall be cancelled properly.
- (ii) Cabin rattling sound to be arrested while finishing the Aluminum Chequer Sheet
- (iii) All Doors to be provided with wind Screen canopies to avoid water entry in to the Cabin.
- (iv) Wind Screen corners blinds to be minimized to provide sufficient vision to Driver.

The frame work of the complete body except floor shall be of 14 gauge MS pressed sections rigidly welded to super structure and covered. Externally with 16 gauge Aluminum sheet and internally with 16 gauge Aluminum sheet. Bolts or similar packing shall be provided between the cross members and chassis. No drilling with the chassis shall be permitted. The body shall be fixed with the chassis numbers with UJ clamps of adequate size and strength. On top of the original M.S. Cabin floor of the chassis, 16 gauge Aluminum chequered plate should be fitted including area under driver and officers seat. The top of the cabin shall be of 10 gauge Aluminum sheet and or top of this 18" width gage chequered plate shall be fixed on both sides of Aluminum extension ladder for the entire length of the cabin.

- 5.7.3. The cab and lockers should be of composite construction with sufficient rigidity and reinforcement and shall be kept as light as possible. Pressed sections of sufficient strength shall be used for the superstructure. Equipment lockers should be provided along the length of the water tank extending from behind the driver/crew cabin up to the rear end of the water tender on either side i.e., officer side and driver side. The lockers shall be through and through and should be provided with three hinged doors on both sides of the vehicle and the doors shall open upwards. The inside width of the lockers shall be 16 ½ inches and minimum inside height shall be 24 inches The inside paneling of all lockers shall be in 18 (eighteen) gauge Aluminum sheet duly painted with cream color. The bottom (floor) or all the lockers should be with 10 (ten) gauge 3 mm Aluminum chequered plate.
- 5.7.4. Lockers shall be provided for secure storage of all equipment. The height of the lockers from the bottom to the top of the opening shall be not less than 600 mm and the depth not less than 600 mm.
- 5.7.5. All lockers shall be provided with internal automatic lighting arrangement with the master switch in the cab. The doors of the lockers shall have efficient means for holding them closed by efficient flush fitting spring loaded locks. The doors of all the lockers shall be hinged so as to move up-wards. All lockers handles should be opened to the right only with Aluminum sticker indicator. All locker-handles should be of good quality of aluminum material.
- NOTE: All the hinges and locks used should be of heavy duty and strong. In the cabin the back rest cushion lining should be provided and back panel should be 18 gauges Aluminum sheet duly painted. All internal paneling for doors etc., in the cabin shall be 16 gauges Aluminum sheet.
- 5.7.6. Hose tunnels shall be provided to carry four 2.5.m length of suction hose in convenient location, on either side walls of the tank with proper closing arrangements. Drain holes shall upward with hinges of heavy duty. Paneling of suction hose tunnels should be with 18 gauge Aluminum sheet.
- 5.7.7 Six aluminium hooks for keeping the uniform clothing shall be provided in crew compartment.
- 5.7.8. One strong holding bar shall be provided on the roof, across the width with seven straps.
- 5.7.9 Wireless set bracket: One box made from 14 gauge aluminium sheet with lid shall be provided just in front of the officer's seat, with 1/2" wooden plank for fitting the wireless set bracket.
- 5.7.10 Breathing Apparatus (B.A) Set locker: The breathing Apparatus (B.A)Set locker shall be provided just behind the crew compartment. The opening of this locker shall be from inside the cabin with aluminium rolling shutter(s).
- 5.7.11 Lockers to be provided on either side as follows:
- 5.7.12 Two vertical lockers, one just after the crew cabin and the other at the rear end. Out of these lockers, the locker just behind the crew cabin on the left side shall be designed with sliding tray to carry the portable pump of the following dimensions:

Length	: 65 cms.
Breadth	: 60 cms
Height	: 70 cms
Weight	: Not exceeding 105 kgs.

- (ii) Provision to carry ASKA light of the following dimensions shall be made on the left rear end vertical Locker with sliding tray.

Length	: 90 cms.
Breadth	: 65 cms
Height	: 65 cms
Weight	: Not exceeding 60 kgs.

- (iii) The platform of all the lockers/trays should have proper reinforcement to carry heavy equipments.

5.7.13. EXTENSION LADDER WITH GALLOWS :

Extension ladder with gallows shall be provided to carry a 10.5 m Aluminum extension ladder. The design shall be such that ladder can be released without difficulty from a reasonably accessible position and shall embody rollers to permit easy withdrawal by one man. Means shall be provided for locking the ladder, when stored.

NOTE : The mounted ladder should not obstruct the full opening of the water tank lid cap.

5.7.14 TOOL KIT CONTAINER :

Space shall be provided under crew seat for tools.

5.7.15. STABILITY :

The stability of the appliance shall be such that when under fully equipped and loaded conditions (but excluding crew), if the surface on which the appliance stands is tilted to either side, the point at which over-turning occurs is not passed at an angle of 30 degrees from the horizontal.

6) INSTRUCTION BOOK – ACCESSORIES AND EQUIPMENT

- 6.1 Instruction book or books – instruction book for the guidance of the user(s), including both operating and normal maintenance procedure shall be supplied. The book shall include an itemized and illustrated spare parts list giving reference number of all the wearing parts.

6.2 ACCESSORIES :

- 6.2.1 The following accessories shall be provided in addition to those normally fitted on modern commercial vehicles.

- a) Fire Bells – 250 mm diameter fire bell shall be mounted externally. The bell shall be of hand operating type.
- b) Head Lamps - Two
- c) Fog Lamps – Two
- d) Reversing Lights – Two – Lamp suitably situated to assist reversing.
- e) Red Revolving Light – situated on the Head of the driving compartment.
- f) Trafficators – Illuminated with indicating lights of instrument panel or in any other prominent position in driving compartment.
- g) Wind screen wipers with assembly should be fitted at the bottom.
- h) Search Light : Adjustable to give flood or beam light, mounted in a convenient position but capable of being readily disconnected and mounted on a tripped away from the appliance; complete with tripod and with not less than 30 m of TRS cable on a reel mounted on the appliance.

- i) Spot Light: Adjustable, mounted in convenient position on the rear side of the driving compartment.
- j) Tail Lamps – Two or combined stop and tail.
- k) Rear reflectors.
- l) Cab, instrument panel and lockers, light.
- m) Rear view mirror big and two piece adjustable.
- n) 1 KM range Electric Siren – 1no.
- o) F.B. 10 X – 2 Nos.
- p) Light weight Hand controlled Nozzles of a reputed make (Jet, spray and fog) – 2 Nos.
- q) Tool Kit: Screw Drivers, Wrenches, Cutting Pliers, Pana Kit, Jock with Rod, Triangle Signal board, First aid box, Greece Gun and Tyre Lever.

7) MARKING :

7.1. Each appliance shall be clearly and permanently marked with the following information :

- a) Manufacturer's name or trade-mark if any;
- b) Capacity of the pump in liters /minutes, and of the water tank in liters, and
- c) Year of manufacture.

7.2 The words “TELANGANA STATE DISASTER RESPONSE AND FIRE SERVICES” shall be painted in English on one side and in Telugu on the other.

a) Engine No.

b) Chassis No.....

- i) The fabricated vehicle should be provided with necessary protective mesh guards for wind screen glasses (fitted with hinges) side doors, windows, head lights, number plates, danger lights wherever required.
- ii) The contractor shall give Bank Guarantee for trouble free performance and against the manufacturing defect for a period of three years from the date of supply of the fabricated Water Tender.
- iii) The wind shield glasses shall be of flat type. Separate glasses should be provided at the corner for side vision. All the glass shall be tough ended safety glass.
- iv) All seats, viz. Driver operator, Officer and crew and back rest should be fitted with good quality foam with strong and durable sponge covered by good quality rexine.
- v) Officer and Driver Operator seat should be provided with adjustable system for upward, downward, forward and backward movement with strong frame.
- vi) Hand railing to the dash board should be provided to the Officer seat.
- vii) Vertical hand railing to all the four doors of cabin should be provided externally to enable the crew to step into the cabin.

- viii) Foot rests are to be provided at the bottom of the front mudguards on either side of the vehicle to enable the Driver and Officer to mount into the vehicle.
- ix) Rear foot board and rear bumper should be very strong to take the load of the standing crew and equipment and also with heavy duty towing assembly to enable for towing a large trailer pump. The rear foot board and complete area under the two small M.S. ladders should be covered with 10 gauge Aluminum chequered plate.
- x) Glasses: All glasses fixed should be of superior quality. All the glass shall be toughened safety glass with stone guards.
- xi) The door glass should be fitted with sliding type to have side movement of winding type with stone guards.
- xii) Extinguishers Brackets: Adequate brackets for fixing the extinguishers of 4.5 Kg Co² type should be provided near the officer's seat.
- xiii) The fabricated vehicle should be provided with 3 Nos. of SUCTION HOSE (with couplings) 4" dia, each of 3 Metres length along with Metal Strainer, Basket Strainer and Wrenches.

8) WORKMANSHIP AND FINISH :

- (i) All parts of the appliance shall be of good workmanship and shall have streamlined finish. Aluminum beading should be fixed through the body above and below the lockers. Aluminum hand-railing starting from the rear foot board up to the roof of the cabin on both sides should be provided. Fastly secured. Body hand railing should be of 1 ½ inch dia. The railing should not be of plastic.
- (ii) The appliance shall be spray painted with POST OFFICE REDPAINT (double coat) of good quality. After fabrication, number plate should be provided to the vehicle. The Underside of vehicle and chassis shall be painted block.
- (iii) Workmanship executed shall be of the highest order. All rivets and bolt holes shall have a coat of approved paint on both surfaces before riveting or bolting or welding. All steel screws, bolts, nuts, rivets etc. shall be zinc coated or shall have rust proof coats by recognized process.
- (iv) The roof joints shall be subjected to rigid water test at the tenderer's working in the presence of the Director General State Disaster Response and Fire Services Department, A.P., Hyderabad. All the directions and instructions (oral or written) on all points related to the fabrication shall be executed whenever given by the Director General State Disaster Response and Fire Services Department, A.P., Hyderabad for quality workmanship with quality.
- (v) All the material to be used in the fabrication of the body work shall be of indigenous make and good quality or approved make and type. All equipment and material shall comply with the requirements of the latest relevant I.S. specifications. The structure of vehicle shall be rattling free and noiseless while in motion.

NOTE:

- ❖ All the above equipment should be supplied with Operating, Technical / Service manuals.
- ❖ All the above equipment should be supplied with essential/standard accessories.
- ❖ Comprehensive AMC charges for base equipment (includes natural calamities) should be quoted separately.
- ❖ Cost of equipment should be quoted inclusive taxes in rupee payment and also Dollar payment with Custom duty exemption.
- ❖ List of essential spares with their cost may be furnished separately.
- ❖ The specifications are general in nature and the department reserve the right to go for better specifications among the tenderers.
- ❖ The tenderer clearly specify the Make and Model including technical specifications enclosing detailed brochure for the equipment offered among with technical bid.
- ❖ All the tenderers should arrange live demonstration of the equipment offered with in two day from the date of opening of the tenders.

- i. Signature of the Tenderer:
- ii. Name of the Tenderer:
- iii. Designation and status of the Tenderer:
- iv. Name and address of the firm:

9) INSPECTION:

- 9.1 The successful tenderer shall have the work inspected and approved at the following stages by the Director General of State Disaster Response and Fire Services along with authorized agencies to be selected by the Department among the following:-
 - i) Director General of Supplies & Disposal (DGS&D)
 - ii) Under writers Laboratories Inc. (UI India Private Limited)
 - iii) Indian Register of Shipping (IRS Inspection services)
 - iv) Any other specialized Organized agencies approved by the Government.
- 9.2 The firm should meet the inspection charges and travel expenses of the officers of the above agencies. The acceptance of the items is subject to inspection by officers of A.P. State Disaster Response and Fire Services Department and the representatives of the one of the above agencies, in stages as suggested above and in the Specification.

- a) I stage inspection: Structure work of driver cum crew cabin and rest of the Vehicle at the workshop of the firm.
- b) II Stage - inspection: Fabrication of water tank, Mounting of P.T.O & Rear Mounted pump visual inspection and testing the working of pump & PTO and Paint finishing and logo writing at the workshop of the firm
- c) Final inspection and Road test of the vehicle shall be done at State Stores, Telangana State Fire Services & Civil Defence Training Institute, Gowlidoddi (V), Vattinagulapalli, Rajendra Nagar Mandal, Ranga Reddy District - 500 008.

NOTE: *i) Importance shall be given to providing a good finish to fabrication and to avoid sharp edges.*

ii) Any Suggestion/ minor Modifications suggested during the Stage Inspections and also at the time of Final Inspection, apart from the specification laid down above, must be incorporated at the time of Final Delivery/acceptance.

Director General,
Telangana State Disaster Response and
Fire Services, Hyderabad

PART-D

PERFORMANCE STATEMENT FOR LAST THREE YEARS

Name of Firm _____

Sl. No.	Name of Organization to whom supplied	Purchase Order No. & Date	Description of Stores	Quantity on Order	Value (Rs. in lakhs)	Original Delivery Period (DP)	Qty. Supplied within Original Delivery Period (DP)	Final Extended DP	Reasons for Delay in supplies (if any)	Purchase Order enclosed or not	Satisfaction report of the Stores enclosed or not
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											

Signature of the Bidder

Director General,
Telangana State Disaster Response and
Fire Services, Hyderabad

PART-E (CHECK LIST FOR TECHNICAL BID)

(The Hard copies of the supported documents shall be notarized and submit to this Office, before Pre-Qualification Bid)

Name of Firm _____

Sl. No.	Details	Remarks of the Bidder
1	Are you enclosed the technical details of supplied items along with brochures	
2	Are you willing to execute agreement bond within 04 days from the date of receipt of order	
3	Name of the person and official status authorized to enter agreement.	
4	Validity Offer	
5	(a) Are you reputed manufacturer having BIS/ISO Certificate (b) If so, the details of Licence, BIS/ISO Certificate	
6	Are you having the own facilities for testing / Manufacture of for the items to be supplied	
7	Have you fabricated / Supplied at least 50 Nos. of Fire Tenders out of which at least 10 Nos. shall be Multi Purpose Fire Vehicles during the last 05 years to Government Departments / Public under taking sectors etc	
9	Are you having own facilities to manufacture, Rear Mounted Pump, Reciprocating Primer, Couplings, Branch Pipes and other accessories.	
10	Are you having crane facility and various types of weeding equipment for quality welding of joints of SS Mild Steel Water Tank if 4,500 Ltrs. Capacity and other joints in pipe line system	
11	Are you having Drawings & Designing facility of CAD & CAM	
12	Are you having Dynamic Balancing Machine to test alignment of shafts	
13	Are you having valid Registration Certificate issued by Controllerate of Quality Assurance (Fire Fighting Equipment) Directorate General of Quality Assurance Ministry of Defence, Government of India valid up to date	
14	Are you having all facilities for testing of fabricated Fire Vehicles	
15	Are you having machinery and Equipment for body fabrication, Seats, upholstery and assembling	
16	Are you having sand blasting / shot blasting facilities for Water Tanks	
17	Are you having Dynamic balancing of Propeller shafts for PTO and Pump	

Signature of the Bidder

Director General,
Telangana State Disaster Response and
Fire Services, Hyderabad

PART - F

Check list for Bidders/Suggestive

(Bidders should check following requirements for compliance before submission of the tender documents)

Sl. No.	Requirements to be checked by the Bidders before submission of the tender.	Compliance (To be indicated by the tenderer with "YES" after compliance of the requirements)
1.	Bidders should mention quantity for which they have quoted. This should be mentioned in the covering/ forwarding letter head of the technical bid.	
2.	Whether Bidder have deposited required Earnest Money Deposit.	
3.	Bidders should confirm that their equipment/products conform to the governing specifications of the quoted stores as per Tender.	
4.	Bidders should mention their monthly manufacturing/ supplying capacity.	
5.	Bidders should mention in the Tender that they accept the Departments delivery terms i.e. they agree to supply stores at consignees' locations at freight, risk and cost of the Bidders.	
6.	Bidders should mention that their offer is valid up to 31-03-2016	
7.	Bidders should mention their Delivery Period clearly.	
8.	Bidders should mention that they agree to all the conditions of the Tender.	
9.	Bidders should give their past performance in the specified format Part-D given in the Tender Document	
10.	Bidders should mention whether fabricated / Supplied at least 50 Nos. of Fire Tenders out of which at least 10 Nos. shall be Multi Purpose Fire Vehicles during the last 05 years to Government Departments / Public under taking sectors etc.	
11.	Bidders should mention that Business dealing with their Firms has not been banned by any Govt/Private agencies.	
12.	Bidders should ensure that witness has signed at appropriate places of the Tender documents and full name and address of the witness has been mentioned clearly.	

13.	Bidder should ensure to sign each page of the Tender documents with name, designation, seal and address of the signatory.				
14.	If the Bidders want to mention any specific condition, it should be mentioned on the covering/forwarding letter only which will be placed on the first page of the technical bid. Such condition mentioned in any other document shall not be given any consideration.				
15.	Bidders should mention their address for communication with Telephone and Fax Number.				
16.	i.	Company/Firm Registration Certificate.			
	ii.	Proof showing manufacturing of tender stores.			
	iii.	Proof showing authorized dealership with date(s) validity etc.,			
	iv.	Income Tax return for the period from 01.04.2013 to 31.03.2014			
	v.	VAT Return for the period from 1.04.2013 to 31.03.2014 OR VAT Clearance Certificate for the period up-to 31-03-2014 .			
	vi.	SSI Certificate, if applicable.			
	vii.	NSIC Certificate, if applicable.			
	viii.	EMD Demand Draft			
	ix.	Details of minimum turnover of Rs.1.00 Crore per annum is required :-Name of the Item	Average turnover for the last 3 financial years of the present business	Average turnover for the last 3 financial years of the Specific Equipment	
x.	Certificates/Orders regarding Previous performance				
xi.	Purchase Orders regarding similar items supplied elsewhere together with satisfactory certificate.				

Signature of the Bidder