



UTTAR PRADESH FIRE SERVICE HEADQUARTER

4th & 5th FLOOR, INDIRA BHAWAN, ASHOK MARG, LUCKNOW

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Caveat: *“The Bidder is expected to examine all instructions, forms, terms and conditions, and specifications in the bidding documents. Failure to furnish all information required by the bidding documents or submission of a bid not substantially responsive to the bidding documents in every respect will be at the Bidder’s risk and may result in rejection of its bid”*



UTTAR PRADESH FIRE SERVICE HEADQUARTER

**4th & 5th FLOOR, INDIRA BHAWAN, ASHOK MARG,
LUCKNOW**

GENERAL TERMS AND CONDITION,S OF BID

1. (a) **Only the manufacturer/ authorized agent/ dealer/ supplier registered with ‘Directorate of Industries’ of Government of India or any State Government will be eligible to participate to bid against present tender notice.**
- (b) Special terms and conditions, if given along with the specifications of a particular tendered item(s) being purchased will be deemed to have superseded the relevant conditions laid down in the ‘General Conditions of Bid’.
- (c) ‘Director General/Addl. Director General of Fire Service Headquarters, U.P., Lucknow’, hereinafter referred to as "the Purchaser" reserves the right to accept or quash/ reject all or any of the bids either in part or full or split up the contract without assigning any reason there of.
- (d) **Bidders should bid separately for each of the item which forms separate serial number in the tender notice but will not be allowed to break-up any such item or bid for only a part of an item.**
- (e) All bids must be F.O.R. various destinations in U.P.
- (f) The Bidder shall bear all costs associated with the preparation and submission of its bid, and the Purchaser, will in no case be responsible or liable for these costs, regardless of the conduct or outcome of the bidding process.
- (g) At any time prior to the deadline for submission of bids, the Purchaser may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder, modify the bidding documents by amendment.
- (h) All prospective bidders who have received the bidding documents will be notified of the amendment in writing or by fax, and will be binding on them.
- (i) In order to allow prospective bidders reasonable time in which to take the amendment into account in preparing their bids, the Purchaser, at its discretion, may extend the deadline for the submission of bids.
- (j) The bid prepared by the Bidder, as well as all correspondence and documents relating to the bid exchanged by the Bidder and the Purchaser shall be written in English language. Supporting documents and printed literature furnished by the Bidder may be in another language provided they are accompanied by an accurate translation of the relevant passages in the English language in which case, for purposes of interpretation of the Bid, the translation shall govern.
- (k) **The Bidder shall furnish, as part of its bid, documents establishing the Bidder's eligibility to bid and its qualifications to perform the Contract if its bid is accepted.**

(l) All bids submitted shall include the legal status, place of registration and principal place of business of the company or firm or partnership, etc. Details of work experience and past performance of the bidder on items offered and on fire fighting vehicles within the past five years and details of current contracts in hand and other commitments. (the bidder should have work experience of ten firefighting vehicles offered Fabricated/ Manufactured in five years.

(i) Actual Production Capacity

(ii) Capacity already committed to offer

(iii) Capacity available for the Tender in question

(iv) Monthly commitment of supply against capacity available for the tender in question under(c)

This could be supplemented with offer certificate / Document to make the position amply clear.

(m) Any bid received by the Purchaser after the deadline for submission of bids prescribed by the Purchaser, will be rejected and/or returned unopened to the Bidder.

(n) The Purchaser will prepare minutes of the bid opening.

(o) "The Supplier" means the individual or firm supplying the Goods and Services under this Contract.

(p) "The Contract" means the agreement entered into between the Purchaser and the Supplier, as recorded in the Contract Form signed by the parties, including all the attachments and appendices thereto and all documents incorporated by reference therein.

(q) "Day" means calendar day.

(r) The tendering firms are required to submit the costing with documentary proof(Like bills and vouchers) compulsorily in support of their rates along with tender (Financial Cover.)

(s) ISI License –Valid copy of License should be attached with tender documents (For ISI marked equipments) failing which offer will be rejected.

B. SUBMITTING THE BID

2. (a) The essential details of specification & instructions are to be followed strictly in accordance with the tender notice. The tendering firms are required to submit their offer in TWO PARTS. The first part will be named as "TECHNICAL BID" and the second part will be called as "FINANCIAL BID".

(b) The Bidder shall prepare two copies of the each bid, clearly marking each "Original Bid" and "Copy Bid", as appropriate. In the event of any discrepancy between them, the original shall govern. The original and all copies of the bid shall be typed or written in indelible ink.

(c) The Bidders shall seal the original and each copy of the bid in separate inner envelopes, duly marking the envelopes as "original" and "copy". All relevant enclosures

should be very clearly indicated on the all envelopes. He shall then place all the inner envelopes in an outer envelope (SEPARATE BIG COVERING ENVELOPE). All properly sealed envelopes should be addressed to 'Director General/Addl. Director General of Fire Service Headquarters, U.P., Lucknow-226 001'.

- (d) Tender notice numbers, date of tender notice and due date of opening should be mentioned on all sealed envelopes.**
- (e) The inner envelopes shall also indicate the name and address of the Bidder to enable the bid to be returned unopened in case it is declared "late".**
- (f) Rates quoted in the technical bid WILL NOT BE ACCEPTED.**
- (g) Special attention of the bidding firms is invited about the receipt of bid in time. In case of hand delivery, please ensure that bid(s) is/ are dropped in the Tender Box before the prescribed date and time. The tender box is kept in the office of the Purchaser.**
- (h) All papers, certificates or documents required to be submitted with the technical & financial bids should also be prepared in duplicate and attached firmly with respective bids. Certificates should be attested by the firm. Original documents to be shown at the time of Technical bid evaluation.**
- (i) All the enclosures enclosed with the respective bids should be valid on the date of opening of the technical and financial bids and as per terms and conditions of bid.**
- (j) Each and every page of technical & financial bid including enclosures, certificates & affidavits or any relevant documents has to be signed by the authorized person with official stamp showing designation on entity. Otherwie bid will be rejected.**
- (k) Each and every page of technical & financial bid including enclosures, certificates, affidavits or any relevant documents to be numbered and list of page wise contents of this has to be prepared and attached at the start of each bid.**
- (l) Every cutting, erasures or overwriting shall be valid only if they have full signature of the persons signing the bid wherever the correction have been done.**
- (m)Manufacturer/ authorized agent/ dealer/ supplier should not have previous records of being blacklisted in any part of India.**
- (n)Clearly mention, if there is any deviation in bid in comparison to that of desired specifications.**
- (o) It shall be the responsibility of the bidding firms to ensure presence of their authorized representatives at the time of opening of technical & financial bid opening and meeting there of and acquaint themselves with shortcomings in their bids, if any. No separate intimation will be sent to the tendering firms in this regard. Further bidder should furnish to his representative a letter of authority bearing representative's attested signatures.**

- (p) Dealer/Agent/Sales agent being bidder, shall have to ensure dispatch of items direct from factory premises to the purchaser.
- (q) 0.5 % discount has to be allowed by the firm if timely payment is made, i.e., within 30 days from the acceptance of items. In the absence of any stipulation contrary to it, it will be presumed that the bidder agrees for this rebate.
- (r) Details of payment condition: 100% payment after receipt, inspection, verification and acceptance of material within 30 days.
- (s) In case any required documents, paper(s) is/ are found short at the time of opening of technical bid then bidder should give valid reasons for non submission of papers in his firm's technical bid. Only certain (not all) documents/ papers may be accepted up to one day before the opening of the financial bids. Decision of PCM (T) will be final in this regard.
- (t) The quantities mentioned in the tender notice shall be deemed to be only approximate and will not in any manner whatsoever be binding on the department.
- (u) Telex, cable or facsimile bids will be rejected.
- (v) When the validity of certain documents called for has expired and renewal has been applied for but issuing authority has not issued the revalidated documents/ license; an affidavit on general stamp paper of Rs.100.00 should accompany the bid. Please do not forget to do this as bid otherwise is liable to be rejected.

(w) Only one Model will be acceptable in one bid. Otherwie bid will be rejected.

3. (a) A certificate of registration of the manufacturer/ authorized agent/ dealer/ supplier with 'Directorate of Industries' of Government of India or any State Government must be enclosed with technical bid.

- (b) Acceptance of 0.5 % discount by the firm on timely payment, i.e., within 30 days from the acceptance of items should be mentioned in Technical Bid itself.
- (c) The make of the items quoted must be clear and specified. Use of words like 'Indian Make' Best Quality, 'X' or equivalent make should be avoided. If any tendered item is 'Q' mark/ ISI mark/ EN standard/ ISO9001:2000 or equivalent, please enclose valid attested copies of 'Q' mark/ ISI mark/ EN standard/ ISO9001:2000 or equivalent registration certificate with technical bid, failing which their bids shall be ignored. If applied for renewal, proof of steps taken must be enclosed with technical bid along with expired license. Other thing being equal, 'Q' marked/ ISI marked/ EN standard or equivalent goods will be given preference.
- (d) If any regulatory Act is applicable in item(s), then enclose copy of clearance certificate of the competent authority with technical bid.

(e) Production capacity, capacity already committed to other parties and capacity available for this bid should be mentioned clearly and separately.

- (f) Bidders should give detailed description and specifications of each items and if required enclose catalogues, pamphlets, leaflets, literature or the articles tendered for (in duplicate). The name and address of the makers and country of manufacturers

should also invariably be stated. The items offered should conform to the latest ISI/ EN/ISO9001:2000 standards or equivalent, wherever applicable.

(g) Give statement if any supply is pending against any earlier order in your favor with technical bid.

(h) Copies of the test reports **of the items of bid.**

(i) In case of U.P. State firms, enclose valid 'sales/ trade tax registration certificate' and 'sales/ trade tax clearance certificate' in the prescribed form from the sales tax department. In case of outside U.P. firms, enclose valid 'C.S.T. registration certificate and 'C.S.T. clearance certificate'. The clearance certificates should not have been issued earlier than 364 days from the date of opening of tender.

(j) Details of the delivery period should be provided in technical bid.

(k) Documents of security, if asked for, have to be enclosed with technical bid.

(l) Details of quality control management system followed by the bidder may also be given with technical bid.

(m) The supplier will supply goods and materials from time to time in such quantities as may be agreed in the contract at the rates set forth in the Price Schedule.

(n) Give any other special relevant information.

4. (a) The financial bid should be submitted in S.P.D.-3 format (in duplicate) duly filled in and signed by the authorized person. Bid not in duplicate shall be rejected. The Bidder shall indicate on the S.P.D.-3 format the unit prices and total bid prices of the goods it proposes to supply under the Contract.

(b) Prices quoted by the Bidder shall be fixed for the Contract period and not subject to variation on any account. A bid submitted with an adjustable price quotation will be treated as non-responsive and rejected.

(c) Prices shall be quoted in Indian Rupees.

(d) Rates, discount, rebates, sales tax, excise duty or any other duties/ taxes should be written both in figures as well as in words and there should be no cuttings or overwriting.

(e) Quoting any conditions on discount which affects the quoted rates shall not be acceptable and such offer shall be rejected. Any discount given on quoted price as a whole shall however be acceptable.

(f) Taxes such as excise, sales/ trade tax and net rates (net rate should include packing, forwarding, insurance, levies and other expenditures, if any) should be recorded separately and very clearly according to proforma of Price Schedule failing which offer may be rejected/ ignored. Any cutting/ corrections if any should be properly attested by the bidder.

(g) After opening of the financial bid, any change in the rates shall not be acceptable.

(h) No representation shall be entertained after opening of financial cover of tender.

C. BID FEES (TENDER FEES)

5. (a) Bid fee should be deposited in the form of demand draft in favor of 'Addl. Director General of Fire Service U.P., Lucknow' payable at Lucknow.
- (b) The bid fee shall be denominated in Indian Rupees.
- (c) **Copy of the bid fee deposited has to be enclosed with technical bid. Bidding firms claiming exemption from bid fee are required to enclose along with their bid, the photocopy of relevant G.O., if any.**
- (d) Bid(s) without bid fees will not be considered.

D. BID SECURITY (EARNEST MONEY)

6. (a) The Bidder shall furnish, as part of its bid, a bid security in the amount as specified in the tender notice. Bid security should be deposited in the form of demand draft in favor of "Addl. Director General of Fire Service U.P., Lucknow" payable at Lucknow.
- (b) Wherever bid security is asked for, the same shall have to be given/ submitted as desired along with the technical bid. Bids without bid security will be rejected.
- (c) The bid security is required to protect the Purchaser against the risk of Bidder's conduct which would warrant the security's forfeiture.
- (d) The bid security shall be denominated in Indian Rupees.
- (e) **The bid security shall be submitted in its original form; copies will not be accepted.**
- (f) The bid security shall remain valid for a period of 45 days beyond the original validity period of bids.
- (g) Unsuccessful bidder's bid security will be discharged/ returned as promptly as possible.
- (h) The successful Bidder's bid security will be discharged upon the Bidder signing the Contract and furnishing the performance security.
- (i) The bid security may be forfeited:
 - (I) if a Bidder (i) withdraws its bid during the period of bid validity specified by the Bidder; or (ii) does not accept the correction of errors or
 - (II) in case of a successful Bidder, if the Bidder fails (i) to sign the Contract; or (ii) to furnish performance security.
- (j) Bidding firms claiming exemption from bid security are required to enclose along with their bid, the photocopy of relevant G.O., if any.
- (K) **If a bidder who is exempted from furnishing bid security withdraws his proposal within the said period, he may, at the discretion of the Purchaser be debarred from tendering for a period decided by the purchaser reckoned from the date of opening the bid.**

E. PERIOD OF VALIDITY OF BIDS

7. Bids shall remain valid for a period mentioned in 'Special Terms and Conditions' mentioned with specifications of the tendered items prescribed by the Purchaser. A bid valid for a shorter period shall be rejected by the Purchaser as non-responsive.
8. In exceptional circumstances, the Purchaser may solicit the Bidder's consent to an extension of the period of validity. The request and the responses thereto shall be made in

writing (or by telex or fax). The bid security provided also has to be suitably extended. A Bidder may refuse the request without forfeiting its bid security. A Bidder granting the request will not be required nor permitted to modify its bid.

F. MODIFICATION AND WITHDRAWAL OF BIDS

9. The Bidder may modify or withdraw its bid after the bid's submission, provided that written notice of the modification or withdrawal is received by the Purchaser prior to the deadline prescribed for submission of bids.
10. The Bidder's modification or withdrawal notice shall be prepared, sealed, marked and dispatched. A withdrawal notice may also be sent by telex or cable or fax but followed by a signed confirmation copy, post marked not later than the deadline for submission of bids.
11. If a bidder withdraws his bids in the interval between the deadline for submission of bids and the expiration of the period of bid validity specified by the Bidder, the Purchaser may agree to allow such withdrawal but in such a case the bid security shall be forfeited. If the Purchaser does not allow such withdrawal and accept the bid and the bidder fails to perform his part of the contract, the bid security deposited shall be forfeited besides other consequences for breach of the contract.
12. No bid may be modified subsequent to the deadline for submission of bids.

G. CLARIFICATION OF BIDS

13. During evaluation of bids, the Purchaser may, at its discretion, ask the Bidder for a clarification of its bid. The request for clarification and the response shall be in writing and no change in prices or substance of the bid shall be sought, offered or permitted.

H. PRELIMINARY EXAMINATION OF BIDS

14. **The Purchaser will examine the bids to determine whether they are complete, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed, and whether the bids are generally in order. Bids from Agents, without proper authorization from the manufacturer, shall be treated as non-responsive and rejected.**
15. If the bid security furnished is inadequate for all the tendered items, the purchaser shall take the price bid into account only to the extent the bid is secured. For this purpose, the extent to which the bid is secured shall be determined by evaluating the requirement of bid security to be furnished for the tendered items included in his bid (offer) in the serial order of the items given in tender notice.
16. Numerical errors will be rectified on the following basis. If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected. If there is a discrepancy between words and figures, the amount in words will prevail. If the supplier does not accept the correction of errors, its bid will be rejected and its bid security may be forfeited.

17. The Purchaser may waive any minor informality or non-conformity or irregularity in a bid which does not constitute a material deviation, provided such a waiver does not prejudice or affect the relative ranking of any Bidder. Decision of PCM (T) will be final in this regard.
18. Prior to the detailed evaluation, the Purchaser will determine the substantial responsiveness of each bid to the bidding documents. A substantially responsive bid is one which conforms to all the general and special terms and conditions of the bidding documents without material deviations. The Purchaser's determination of a bid's responsiveness is to be based on the contents of the bid itself without recourse to extrinsic evidence.
19. If a bid is not substantially responsive, it will be rejected by the Purchaser and may not subsequently be made responsive by the Bidder by correction of the non-conformity.

I. EVALUATION AND COMPARISON OF BIDS

20. The Purchaser will evaluate and compare the bids which have been determined to be substantially responsive.
21. No bid will be considered if the complete requirements covered in the tendered item are not included in the bid. Bidders are allowed the option to bid for any one or more items.
22. The Purchaser's evaluation of a bid will exclude and not take into account in the case of goods manufactured in India or goods of foreign origin already located in India, sales and other similar taxes, which will be payable on the goods if a contract is awarded to the Bidder.
23. Rates and other condition being equal, preference will be given to the manufacturing unit.
24. Price preference will be given in accordance with latest U.P. Government G.O.'s. The price preference can not be claimed as a matter of right. It can only be considered if firm's qualify for the same in terms of various G.O.'s issued by the Government of U.P. from time to time.

J. CONTACTING THE PURCHASER

25. No Bidder shall contact the Purchaser on any matter relating to its bid, from the time of the bid opening to the time the Contract is awarded. If the bidder wishes to bring additional information to the notice of the purchaser, it should do so in writing.
26. Any effort by a Bidder to influence the Purchaser in its decisions on bid evaluation, bid comparison or contract award may result in rejection of the Bidder's bid.

K. NOTIFICATION OF AWARD

27. Prior to the expiration of the period of bid validity, the Purchaser will notify the successful bidder in writing by registered letter or by telex or fax, to be confirmed in writing by registered letter, that its bid has been accepted.
28. The notification of award will constitute the formation of the Contract.

29. Upon the successful Bidder's furnishing of performance security, insurance etc. pursuant to special terms and conditions mentioned with the specifications of the tendered items, the Purchaser will promptly discharge the bid security to all unsuccessful bidders.

L. SIGNING OF CONTRACT

30. At the same time as the Purchaser notifies the successful bidder that its bid has been accepted, the Purchaser will send the bidder the Contract Form incorporating all agreements between the parties.
31. Within 21 days of receipt of the Contract Form, the successful bidder shall sign and date the Contract and return it to the Purchaser.

M. PERFORMANCE SECURITY

32. Within 30 days of the receipt of notification of award from the Purchaser, the successful Bidder shall furnish the performance security in accordance with the 'special terms and conditions' of bid, in such form of 'Bank Guarantee' in favor of 'Inspector General of Fire Service U.P., Lucknow' payable at Lucknow.
33. The Performance Security shall be denominated in Indian Rupees and shall be in one of the forms acceptable to the Purchaser. Bidding firms claiming exemption from performance security are required to enclose along with their bid, the photocopy of relevant G.O., if any.

N. INSURANCE

34. Within 30 days of the receipt of notification of award from the Purchaser, the successful Bidder shall furnish the insurance in accordance with the 'special terms and conditions' of bid, in such form which is acceptable to the Purchaser.
35. Failure of the successful bidder to comply with the requirement of above clauses 32 and 34 shall constitute sufficient grounds for the annulment of the award and forfeiture of the bid security, in which event the Purchaser may make the award to the next evaluated bidder or call for new bids.

O. CORRUPT OR FRAUDULENT PRACTICES

36. The Purchaser requires that Bidders/ Suppliers/ Contractors, observe the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this policy, the Purchaser will reject a proposal for award if it determines that the Bidder recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive or coercive practices in competing for the Contract in question.
37. The Purchaser will sanction a firm or individual, including declaring them ineligible, either indefinitely or for a stated period of time, to participate in tenders of its department if it at any time determines that they have, directly or through an agent, engaged, in corrupt, fraudulent, collusive or coercive practices in competing for, or in executing a contract.

P. SAMPLES, INSPECTIONS AND TESTS

38. Bid samples are not required unless specially called for. Quoting items without samples where these are called for, the bid of the firm may be ignored.
39. **Samples have to be demonstrated if asked for. The goods or materials to be supplied under the contract are to be of the quality or sort in every respect equal and answerable to the patterns or sample sent with the quotations and approved by the Purchaser.**
40. The Purchaser reserves the right to call, by notice in writing, for sample(s) at any time during the realization of the bid. On such a demand, the bidding firms shall have to submit samples within the period prescribed in such number/ quantity as the Purchaser may deem fit. Failure to supply with this request shall make the bid liable to be rejected.
41. The Purchaser, or the indenting officer or any other officer or person duly authorized in writing by the Purchaser shall have power to inspect the stores before during and after manufacture, collection, dispatch transit or arrival and to reject the same or any part of portion, If he or they be not satisfied that the same is equal or according to sample or specification in weights, quantity and number.
42. The Purchaser's right to inspect, test and, where necessary, reject the Goods after the Goods' arrival at Site shall in no way be limited or waived by reason of the Goods having previously been inspected, tested and passed by the Purchaser or its representative prior to the Goods shipment.
43. Goods or materials rejected or refused on the ground of inferior quality or any other ground shall be removed by the supplier at his own risk and expense within seven days after notice has been received by him of such rejection. In the event of non-removal by the supplier as aforesaid within the said period of seven days it shall be lawful for the Purchaser to authorize the indenting officer to sell by public auction any rejected material or goods, and in such case the supplier shall be credited with the sales proceeds thereof but will not be entitled to any loss or damage that may be occasioned by such sale. If the contractor is not satisfied with the decision of the authority rejecting or refusing the goods, he may appeal to the Purchaser within five days of the receipt of such notice, and the decision of the Purchaser will be final in all cases.

Q. PACKING

44. The Supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination as indicated in the Contract. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the Goods' final destination and the absence of heavy handling facilities at all points in transit.
45. The packing, marking and documentation within and outside the packages shall comply strictly with such special requirements as shall be provided for in the Contract including additional requirements specified in any subsequent instructions ordered by the Purchaser.

R. SIGNING OF BID

46. (a) The bid is liable to be ignored if complete information is not given therein. If bidding firms are in disagreement with certain conditions given therein in full or part, they should clearly bring out the same in their bid, failing which it shall be presumed that they agree with all the condition given therein. It may please be noted carefully that till such time a fresh agreement is drawn embodying the agreed conditions the conditions, given in shall govern the contract.
- (b) If the bidders are Agent /Dealer/Supplier, they should submit an authority of their principal (*in prescribed format*) along with proof of manufacturing of principal firm for quoted item(s).
- (c) The individual signing the bid and/or other documents connected with a contract must write his name in block letters under his signatures. He has to sign the bid and all the enclosures on each and every paper submitted by him.
- (d) The individual signing the bids and/or other document should specify whether-
- (i) He is sole proprietor of the firm or constitutes attorney of such sole proprietor,
 - (ii) A partner of the firm if it be a partnership firm, in which case he must have authority to refer to arbitration dispute concerning the business of the partnership by virtue of partnership agreement or a power of attorney.
 - (iii) Constituted attorney of the firm if it is a company under the meaning of Company Law.
 - (iv) Managing director/ president/ chairman /company secretary in case of limited company having authorization for committing the company from its board of directors or as is required under company laws, and
 - (v) President or Secretary in case of registered co-operative society having such powers through laws/by-laws or by special resolution.
 - (vi) **In case of (ii) above, a copy of partnership agreement or general power of attorney, in either case attested by a Notary public should be furnished unless the same has been previously given to the Purchaser or an affidavit on stamped paper of all the partners admitting execution of partnership agreement or general power of attorney should be furnished.**
 - (vii) In case of partnership firms, where no authority to refer disputes concerning the business of the partnership to arbitration has been conferred on any partner, the bid and all documents attached thereto must be signed by each and every partner of the firm.
 - (viii) A person signing the bid form or any documents forming part of the contract on behalf of another shall be deemed to warranty that he has authority to bind such other and if on enquiry it appears that the person so signing had no authority to do so the Purchaser may without prejudice to other civil and criminal remedies, cancel the contract and hold the signatory liable for all costs and damages.
 - (ix) In other cases, the resolution/ authorization/ attorney should be submitted with the bid, if not already done, duly attest by Notary public.

S. PRICES

47. (a) (i) In the case charges being extra, please give the current rates that are applicable on the item(s) quoted.
- (ii) If it is decided by the bidder to charge excise duty extra wherever the duty is leviable on slab basis, the bidding firms should clearly indicate duty that shall be charged by them in case their bid is accepted which shall be paid accordingly. No claim thereafter for extra excise duty shall be tenable on the ground of the bidder having crossed a particular slab.
- In the absence of the information in the bid, if extra duty has been claimed for the purposes of comparison of rates, duty at full rates shall be given into consideration.
- (b) (i) If it is desired by the bidder to ask for sales tax to be paid extra, the same must be specifically stated. In the absence of any such stipulation in the bid it shall be presumed for all purposes that the price quoted by the bidder is inclusive of sales tax and no liability for payment of sales tax will be developed upon the purchaser.
- (ii) Bidders, demanding sales tax extra, will be paid sales tax at the rates prevailing at time of supply.

T. AUTHORITY LETTER

48. (a) **The bidding firms (if not manufacturer of the item) should submit along with their bid an authority letter from their principals (who should be manufacturer) that they are their authorized agents/ dealers/ stockiest. It shall be the duty of the bidder as well as principal to inform the department any material change that takes place in the above agreement during the finalization/ pendency of the contract. Failure to do so may entail civil as well as criminal liability and this is without prejudice to the Purchaser rights to cancel the order or take such necessary action as it may deem fit.**
- (b) The authority letter should be speaking and specific and should clearly bring out the relation of principal and agent/ dealer/ stockists as the case may be. It should speak of territory and acts assigned to the agent/ dealer/ stockists.
- (c) The principal should commit themselves through this authority letter for shortcomings/ defects/sub-standard supplies/supplies not according to norms or law of land etc.
- (d) *Vague authority letters, business letters, shall not be considered as authority letters and such bid may be ignored outright.*

U. GENERAL

49. No assistance for the procurement of Import License for any material will be given by the Purchaser unless otherwise specified in the tender notice.
50. **The contractor shall not sublet or assign this contract with out the written permission of the Purchaser. In the event of the contractor sub-letting or assigning this contract without such permission he shall be considered as having committed a breach of this contract.**
51. In case of non performance in any form or shape of the condition of this contract, the Purchaser shall have power to annul, rescind or cancel the contract and upon his notifying in writing to the supplier that he has done so, this contract shall absolutely

determine. He may also debar the firm for the U.P. Fire Service Head Quarter, U.P., Lucknow contracts for such periods as he thinks fit.

52. Without prejudice to any other remedy provided by law any amount due from the supplier to the governor will be recoverable as arrears of land revenue and may also be recovered by deduction from any amount due from the governor to the supplier on any account under any other transaction.
53. With every dispatch of goods or materials under the arrangement invoices or bills of parcels in duplicate are to be sent by the supplier to the Indenting Officer, the duplicate to be returned by the indenting officer with the quantities or number received duly noted there on.
54. (a) All disputers arising out of this contract shall be subject to the provisions of Indian Arbitration Act, 1940 and subsequent amendments thereof. Disputes not covered under the arbitration provisions shall be subject to the territorial jurisdiction of Lucknow Courts only.
- (b) The contracts shall be governed by the Force Majeure Clause as specified below:
“If at any time during the continuance of this contract the performance in whole or in part by either party of any obligation under this contract shall be prevented or delayed by reasons of any war, hostility, acts of the public enemy, civil commotion, sabotage, fires, floods, strikes, lock-outs, explosions, epidemics quarantine restrictions or other acts of God, King, Government or rural (hereinafter referred to as eventualities) then, provided notice of the happening of any such eventuality is given by either party to the other within 15 days from the date of occurrence thereof neither party shall be reason of such eventuality be entitled to terminate this contract nor shall, either party have any claim for damages against the other in respect of such non-performance or delay in performance; and deliveries under this contract shall be resumed as soon as practicable after such eventuality has come to an end or ceased to exist, and the decision of the Purchaser as to whether the deliveries have to be so resumed shall be final and conclusive.

V. IMPORTANT NOTE

58. Inspection:

Inspection of the item will be done as per terms & condition given in Technical specification.

59. **Any action taken in good faith in the interest of Public Safety will be acceptable to all bidders and can not be challenged in any Court under Jurisdiction causing delay in the process.**
60. In case of imported items, all document of import viz. Bill of landing, custom clearance, shipping, insurance, certificate of country of origin e.t.c shall be submitted to the department along with the Bill for verification.
61. The negotiation would be held with any tenderer as per Govt. order.
62. A Certificate of the registration by N.S.I.C/S.S.I shall be made submitted with the bids
- 63- Bidders should ensure compliance of all the Terms & conditions of **Annexure-A**
- 64- Compliance of paras shown in bold letter is must. Otherwise tender will be rejected.
- 65- Bidder should Fill attached Check List **Annexure-II** (Sl.No. 1 to 13) incomplete information will not be acceptable and bid will be rejected.

(R. K. Singh)
Joint Director,
Fire Service Headquarter
U.P. LUCKNOW

CHECK LIST FOR TENDERERS

**TENDERER SHOULD NOT FORGET TO ENCLOSE THE REQUIRED DOCUMENTS
ALONG WITH YOUR BID, FAILING WHICH THE BID WILL BE REJECTED.**

		YES/NO	Page No. of Bid Document
1	Prescribed Bid/ Tender Fee of Rs..... DD No..... Dt.....		
2(a)	Bid Security (Earnest Money) of Rs..... Bank Guarantee/ DD No..... Dt.....		
2(b)	Proof of waiver of bid fees, bid security, performance security, if any (Photo copy of valid Proof)		
3	Technical bid with all enclosures in duplicate in sealed envelops. (No of enclosures with page No.on each page.)		
4	Financial bid in duplicate in sealed separate envelops.		
5	Page numbering of technical and financial bids including enclosures.(Total page No. of technical bid.)		
6	Signature of authorized persons along with official seal on each and every page of technical bids.		
7	Valid registration certificate of NSIC Directorate of Industries of Government of India/ State Governments.(only for manufacturer)		
8	Attested copy of PAN card./TAN/TIN		
9(a)	Valid Sales/ Trade Tax Registration Certificate (in case of U.P. firms).		
9(b)	Valid CST Registration Certificate (in case of outside U.P. firms).		
10	Acceptance for condition of 0.5% discount if payment is made within 30 days from the date of acceptance of material.		
11 (a)	In case of manufacturer of tendered items, enclose certificate of proof in this regard.		
11 (b)	In case you are not manufacture of tendered items, authorization letter(s) of your principal(s) to participate in this tender whose product(s) has/ have been quoted by you. Name of principal-----address.: ----- Phone No./Mob. No.-----		
11 (c)	In case you are not manufacture of tendered items, certificate from your principal(s) regarding proof of manufacturing of tendered items.		
12	Declaraton -Tenderer must submit an affidavit verified by the Notary on Non Judicial Stamp paper of Rs.100/- stating that the Tenderer /Firm has no criminal Background.		
13	Bid Affidavit on Rs.100/- Non Judicial Stamp paper verified by the Notary.		

S.P.D.(3)**TENDER FORM****GOVERNMENT OF UTTAR PRADESH****DIRECTOR GENERAL OF UTTAR PRADESH FIRE SERVICE, LUCKNOW.****CONDITIONS OF AGREEMENT**

1- The arrangement is to last till but in the event of any breach of the terms of arrangement at any time on the part of the supplier the arrangement shall be determined summarily by the Director General/Addl. Director General of U.P. fire service, without compensation to the supplier.

2- The supplier will supply goods and materials from time to time in such quantities as may be entered in the indents sent at the rates set forth in the Schedule of rates at page(4).

3- The goods and materials to be supplied under the arrangements are to be of the quality or sort in every respect equal and answerable to the patterns or sample sent with the quotations and approved by The Director General/Addl. Director General of U.P. fire service. In the event of supplies not being up to the sealed sample accepted, but good enough for retention, the goods supplied may either be retained at a reduction in cost not exceeding 10 percent of the total value or be returned to the supplier in accordance with paragraph 10 below at the option of the Indenting Officer. The goods may only be retained at a reduction if the supplier agrees.

4- The Director General/Addl. Director General of U.P. fire service may, by notice in writing, call upon the supplier to supply additional goods and materials to serve as sample, and upon such notice in writing the supplier shall be bound to supply additional sample of goods and materials, such additional samples being in all respects of same quality or sort as the sample first supplied.

5. (a) All rates are to be based on delivery, securely packed, and F.O.R. station nearest to suppliers are Indenting Officers as asked for in the tender notice.

(b) Railway freights, If pre-paid, shall be added to original quotations.

(c) When goods are ordered F.O.R. the station nearest to supplier, the Indenting Officer may at his option direct that this shall be booked either by goods train or by passenger train and either at owner's risk or at railway risk. The supplier shall carry out his direction and shall in any case be responsible for the safe delivery of the goods soundly and securely packed to the Railway Administration and shall obtain from such Railway Administration a clear receipt for the goods in evidence thereof. In the absence of a clear receipt the suppliers will be held responsible for all damages or loss caused by breakage or leakage which may occur to the goods while in transit and until they have been delivered to the consignee at Railway station of destination.

(d) When goods are ordered F.O.R. station of destination, the supplier shall be required to bear all risks of loss, leakage or damage and shall deliver the goods in good order to the consignee at railway station of destination, mentioned in the indent, in such quantities or number and within such time and in such manner as the Indenting Officer shall, from time to time, direct.

6. Unless when specially ordered in the order accompanying the indent, all goods must be despatched within 14 days of the receipt of indent by the supplier.

7. With every despatch of goods or materials under the arrangement invoices or bills of parcels in duplicate are to be sent by the supplier to the Indenting Officer, the duplicate to be returned by the Indenting Officer with the quantities or number received duly noted thereon.

8. Conditions as to time for performance whether laid down herein or in the indent, shall be always regarded as the essence of the arrangement.

9. The Director General/Addl. Director General of U.P. fire service or the Indenting Officer or any other Officer or person duly authorized in writing by the Director General/Addl. Director General of U.P. fire service shall have power to inspect the stores before during and after manufacture, collection, despatch transit or arrival and to reject the same or any part or portion, if he or they be not satisfied that the same is equal or according to sample or specification in weights, quantity and number.

10. Goods are materials rejected or refused on the ground of inferior quality or any other ground shall be removed by the supplier at his own risk and expense with in 10 days after notice been received by him of such rejection. In the event of non removal by the supplier as aforesaid with in the said period of 10 days, it shall be law full for the Director General/Addl. Director General of U.P. fire service to authorise the Indenting officer to sell by public auction any rejected materials or goods and in such cases the supplier shall be credited with the sale proceeds there of but will not be entitled to any loss are damage that may be occasioned by such sale. If the contractor is not satisfied with the decision of the authority rejecting or refusing the goods, he may appeal to the Director General/Addl. Director General of U.P. fire service with in 5 days of the receipt of such notice, and the decision of the Director General of Police Fire Service Uttar Pradesh, will be final in all cases.

11. The system of payment shall be as follows:-

Bill in triplicate shall be sent by the supplier to Indenting Officer and on receipt of these the Indenting Officer or his superior officer shall make payment direct. The supplier may , how ever, for their own convenience send an advance intimation for the amount of the bill to the indenting officer but no advance payment shall be made.

Payment shall ordinarily be made with in one month of delivery. All payments shall be subject to the deduction of any amount to which the supplier may be or render him self liable under the terms of this arrangement.

12. Packing cases containers gunny packages etc. which may be used for purposes of packing and which are delivered with stores will be not returned or paid for, unless specially stipulated.

13. The contractor shall not sub let or assign this contract with out the written the permission of the Director General/Addl. Director General of U.P. fire service. In the event of the contractor sub-letting or assigning this contract without such permission he shall be considered as having there by committed a breach of this contract.

14. In the event of the suppliers not being in strict accordance with these conditions or not being delivered with in the time allowed, the Director General/Addl. Director General of U.P. fire service may recover from the contractor as liquidated damages and not by way of penalty the sum of one percent of the value of the said goods or materials for each and every day up to 25 days during which the articles to be supplier are not delivered or bad articles are not replaced. Further, it shall be lawful for the Director General/Addl. Director General of U.P. fire service or the Indenting Officer to purchase the required articles or any suitable quality obtainable in the open market at the risk and cost of the contractor, who in addition to the liquated damages aforesaid shall be liable for any loss or damages caused by the said purchase. The Director General/Addl. Director General of U.P. fire service shall alone be entitled to adjudge upon the penalty or compensation or damages due for delay in performance as also to adjudge upon the advise ability of taking other suitable action. If the delay shall have arisen from any cause which the Director General/Addl. Director General of U.P. fire service may declare in writing to be reasonable, such additional time may be allowed as may be considered necessary in the circumstances of the case. In such a case be may also for ego the whole or any part of the aforesaid liquidated damages but not the other loss or losses.

15. In case of non performance in any form or shape of the condition of this arrangement the Director General/Addl. Director General of U.P. fire service shall have power to annual, rescind or cancel the arrangement and upon his notifying in writing to the supplier that he has so done, this arrangement shall absolutely determine. He may also debar the firm for the U.P. Fire Service Head Quarter Luck now contracts for such periods as he things fit.

16. In the event of any dispute arising out of or concerning this agreement (except as to any matters the decision of which is specifically provided for the this agreement), the same shall be referred to the arbitration of an arbitrator nominated by the Director General/Addl. Director General of U.P. fire service and an arbitrator nominated by the contractor , or in the case of the contractor or the said Director General/Addl. Director General of U.P. fire service failing to nominate an arbitrator with in the time fixed in the notice to be served on him by the said Director General/Addl. Director General of U.P. fire service or the contractor, as the case may be, by the arbitrator nominated by the said Director General/Addl. Director General of U.P. fire service and the contractor or in case of disagreement between the said arbitrators to an umpire appointed by them and the decision of such

arbitrators or arbitrator or umpire, as the case may be, shall be final and binding on the parties. The arbitrators/ arbitrator/umpire may from time to time with the consent of the parties enlarge the time for making and publishing the award.

17-Without prejudice to any other remedy provided by law any amount due from the supplier to the governor will be recoverable as arrears of land revenue and may also be recovered by deduction from any amount due from the governor to the supplier on any account under any other transaction.

18- The suppliers will send to the - The Director General/Addl. Director General of U.P. fire service, Lucknow. quarterly statement of goods they supply under this arrangement in the following form,

QUOTATION

1- I/We hereby quote to supply the goods and materials in the under writing schedule in the manner in which and with in the time specified, as set forth in the conditions of arrangement stated above at the rates given in the schedule below. I/We hereby agree that in the event of tender being accepted, the conditions of pares- I to 17, on pages 1 to 4 and those contained in the acceptance letter will be binding upon me/us and will, along with the quotation, be converted into and shall be deemed to be a completed agreement between me/us and the Governor of U.P. from the date of issue of acceptance letter. I/We hereby further agree that if so required by the Director General/Addl. Director General of U.P. fire service. **I/We shall execute a formal Agreement Deed.**

2.I/We herewith deposit a sum of Rest as earnest money and should I/We fail to execute a fresh deed of agreement if so required, by the Director General/Addl. Director General of U.P. fire service. on behalf of the governor of U.P. and deposit the security as laid down in the tender notice with in 10 days of the acceptance of my/our tender . I/We hereby agree that, a part from my/our liability under the agreement the above sum of earnest money will be forfeited to the governor;

SCHEDULE OF RATES

Taxes

SI no	Item with Unit	Rates per unit	Sales tax	Excise duty	Total	Discount if any
1	2	3	4	5	6	7
	Make and brand					

All rates are for-----

Date the _____ day of _____ 2014/2015

Signature

[illegible]

N.B.-Please do not forget to fill in all the above columns.

Accepted -----

Signed _____

Designation -----

For and on behalf of the Governnor of Uttar Pradesh.

TENDER FORM
GOVERNMENT OF UTTAR PRADESH
DIRECTOR GENERAL OF UTTAR PRADESH FIRE
SERVICE, LUCKNOW.

CONDITIONS OF AGREEMENT

1- The arrangement is to last till but in the event of any breach of the terms of arrangement at any time on the part of the supplier the arrangement shall be determined summarily by the Director General/Addl. Director General of U.P. fire service, without compensation to the supplier.

2- The supplier will supply goods and materials from time to time in such quantities as may be entered in the indents sent at the rates set forth in the Schedule of rates at page(4).

3- The goods and materials to be supplied under the arrangements are to be of the quality or sort in every respect equal and answerable to the patterns or sample sent with the quotations and approved by The Director General/Addl. Director General of U.P. fire service. In the event of supplies not being up to the sealed sample accepted, but good enough for retention, the goods supplied may either be retained at a reduction in cost not exceeding 10 percent of the total value or be returned to the supplier in accordance with paragraph 10 below at the option of the Indenting Officer. The goods may only be retained at a reduction if the supplier agrees.

4- The Director General/Addl. Director General of U.P. fire service may, by notice in writing, call upon the supplier to supply additional goods and materials to serve as sample, and upon such notice in writing the supplier shall be bound to supply additional sample of goods and materials, such additional samples being in all respects of same quality or sort as the sample first supplied.

5- (a) All rates are to be based on delivery, securely packed, and F.O.R. station nearest to suppliers are Indenting Officers as asked for in the tender notice.

(b) Railway freights, If pre-paid, shall be added to original quotations.

(c) When goods are ordered F.O.R. the station nearest to supplier, the Indenting Officer may at his option direct that this shall be booked either by goods train or by passenger train and either at owner's risk or at railway risk. The supplier shall carry out his direction and shall in any case be responsible for the safe delivery of the goods soundly and securely packed to the Railway Administration and shall obtain from such Railway Administration a clear receipt for the goods in evidence thereof. In the absence of a clear receipt the suppliers will be held responsible for all damages or loss caused by breakage or leakage which may occur to the goods while in transit and until they have been delivered to the consignee at Railway station of destination.

(d) When goods are ordered F.O.R. station of destination, the supplier shall be required to bear all risks of loss, leakage or damage and shall deliver the goods in good order to the

consignee at railway station of destination, mentioned in the indent, in such quantities or number and with in such time and in such manner as the Indenting Officer shall, from time to time, direct.

6. Unless when specially ordered in the order accompanying the indent, all goods must be despatched with in 14 days of the receipt of indent by the supplier.

7. With every despatch of goods or materials under the arrangement invoices or bills of parcels in duplicate are to be sent by the supplier to the Indenting Officer, the duplicate to be returned be the Indenting Officer with the quantities or number received duly noted there on.

8. Conditions as to time for performance whether laid down herein or in the indent, shall be always regarded as the essence of the arrangement.

9. The Director General/Addl. Director General of U.P. fire service or the Indenting Officer or any other Officer or person Duly authorized in writing by the Director General/Addl. Director General of U.P. fire service shall have power to inspect the stores before during and after manufacture, collection, despatch transit or arrival and to reject the same or any part of portion, If he or they be not satisfied that the same is equal or according to sample or specification in weights, quantity and number.

10. Goods are materials rejected or refused on the ground of inferior quality or any other ground shall be removed by the supplier at his own risk and expense with in 10 days after notice been received by him of such rejection. In the event of non removal by the supplier as aforesaid with in the said period of 10 days, it shall be law full for the Director General/Addl. Director General of U.P. fire service to authorise the Indenting officer to sell by public auction any rejected materials or goods and in such cases the supplier shall be credited with the sale proceeds there of but will not be entitled to any loss are damage that may be occasioned by such sale. If the contractor is not satisfied with the decision of the authority rejecting or refusing the goods, he may appeal to the Director General/Addl. Director General of U.P. fire service with in 5 days of the receipt of such notice, and the decision of the Director General of Police Fire Service Uttar Pradesh, will be final in all cases.

11. The system of payment shall be as follows:-

Bill in triplicate shall be sent by the supplier to Indenting Officer and on receipt of these the Indenting Officer or his superior officer shall make payment direct. The supplier may , how ever, for their own convenience send an advance intimation for the amount of the bill to the indenting officer but no advance payment shall be made.

Payment shall ordinarily be made with in one month of delivery. All payments shall be subject to the deduction of any amount to which the supplier may be or render him self liable under the terms of this arrangement.

12. Packing cases containers gunny packages etc. which may be used for purposes of packing and which are delivered with stores will be not returned or paid for, unless specially stipulated.

13. The contractor shall not sub let or assign this contract with out the written the permission of the Director General/Addl. Director General of U.P. fire service. In the event of the contractor sub-letting or assigning this contract without such permission he shall be considered as having there by committed a breach of this contract.

14. In the event of the suppliers not being in strict accordance with these conditions or not being delivered within the time allowed, the Director General/Addl. Director General of U.P. fire service may recover from the contractor as liquidated damages and not by way of penalty the sum of one percent of the value of the said goods or materials for each and every day up to 25 days during which the articles to be supplied are not delivered or bad articles are not replaced. Further, it shall be lawful for the Director General/Addl. Director General of U.P. fire service or the Indenting Officer to purchase the required articles or any suitable quality obtainable in the open market at the risk and cost of the contractor, who in addition to the liquidated damages aforesaid shall be liable for any loss or damages caused by the said purchase. The Director General/Addl. Director General of U.P. fire service shall alone be entitled to adjudge upon the penalty or compensation or damages due for delay in performance as also to adjudge upon the advisability of taking other suitable action. If the delay shall have arisen from any cause which the Director General/Addl. Director General of U.P. fire service may declare in writing to be reasonable, such additional time may be allowed as may be considered necessary in the circumstances of the case. In such a case he may also forgo the whole or any part of the aforesaid liquidated damages but not the other loss or losses.

15. In case of non performance in any form or shape of the condition of this arrangement the Director General/Addl. Director General of U.P. fire service shall have power to annul, rescind or cancel the arrangement and upon his notifying in writing to the supplier that he has so done, this arrangement shall absolutely determine. He may also debar the firm for the U.P. Fire Service Head Quarter Lucknow contracts for such periods as he thinks fit.

16. In the event of any dispute arising out of or concerning this agreement (except as to any matters the decision of which is specifically provided for in this agreement), the same shall be referred to the arbitration of an arbitrator nominated by the Director General/Addl. Director General of U.P. fire service and an arbitrator nominated by the contractor, or in the case of the contractor or the said Director General/Addl. Director General of U.P. fire service failing to nominate an arbitrator within the time fixed in the notice to be served on him by the said Director General/Addl. Director General of U.P. fire service or the contractor, as the case may be, by the arbitrator nominated by the said Director General/Addl. Director General of U.P. fire service and the contractor or in case of disagreement between the said arbitrators to an umpire appointed by them and the decision of such arbitrators or arbitrator or umpire, as the case may be, shall be final and binding on the parties. The arbitrators/ arbitrator/umpire may from time to time with the consent of the parties enlarge the time for making and publishing the award.

17-Without prejudice to any other remedy provided by law any amount due from the supplier to the government will be recoverable as arrears of land revenue and may also be recovered by deduction from any amount due from the government to the supplier on any account under any other transaction.

18- The suppliers will send to the - The Director General/Addl. Director General of U.P. fire service, Lucknow. quarterly statement of goods they supply under this arrangement in the following form,

QUOTATION

1- I/We hereby quote to supply the goods and materials in the under writing schedule in the manner in which and with in the time specified, as set forth in the conditions of arrangement stated above at the rates given in the schedule below. I/We hereby agree that in the event of tender being accepted, the conditions of pares- I to 17, on pages 1 to 4 and those contained in the acceptance letter will be binding upon me/us and will, along with the quotation, be converted into and shall be deemed to be a completed agreement between me/us and the Governor of U.P. from the date of issue of acceptance letter. I/We hereby further agree that if so required by the Director General/Addl. Director General of U.P. fire service. I/We shall execute a formal Agreement Deed.

2.I/We herewith deposit a sum of Rest as earnest money and should I/We fail to execute a fresh deed of agreement if so required, by the Director General/Addl. Director General of U.P. fire service. on behalf of the governor of U.P. and deposit the security as laid down in the tender notice with in 10 days of the acceptance of my/our tender . I/We hereby agree that, a part from my/our liability under the agreement the above sum of earnest money will be forfeited to the governor:

SCHEDULE OF RATES

Taxes								

Sl no	Item	with Unit	Rates per unit	Sales tax	Excise duty	Total	Discount if any	Make
and brand								
1	2	3	4	5	6	7	8	9

All rates are for-----

Date the _____ day of _____ 2014/2015
 Signature _____
 Address _____ Name of supplying firm _____

N.B.-Please do not forget to fill in all the above columns.

Accepted -----

Signed -----

Designation -----

For and on behalf of the Governnor of Uttar Pradesh.

Annexure-F

Bid Affidavit

(To be submitted on non judicial stamp paper of Rs.100.00)

To: Addl. Director General of Police,
Fire Service Headquarters,
U.P., Lucknow -226 001

Sir:

Having examined the Bidding Documents (tender notice, general terms & conditions, technical specifications, and special terms & conditions of the tendered items), the receipt of which is hereby duly acknowledged, we, the undersigned, offer to supply and deliver Goods and Services in conformity with the said bidding documents in accordance with the Price Schedule attached with the financial bid and made part of this bid.

We undertake, if our bid is accepted, to deliver the goods in accordance with the delivery schedule specified in the Bidding Documents.

If our bid is accepted, we will obtain the guarantee of a bank in a sum equivalent to 10 percent of the Contract Price for the due performance of the Contract, in the form prescribed by the Purchaser.

We agree to abide by this bid for the Bid validity period and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

Until a formal contract is prepared and executed, this bid, together with your written acceptance thereof and your notification of award shall constitute a binding Contract between us.

We undertake that, in competing for (and, if the award is made to us, in executing) the above contract, we will strictly observe the laws against fraud and corruption in force in India namely "Prevention of Corruption Act 1988".

We understand that you are not bound to accept the lowest or any bid you may receive.

We clarify/ confirm that we comply with the eligibility requirements as per the bidding documents.

Dated this day of 2014/2015

(signature)

(in the capacity of)

Duly authorized to sign Bid for and on behalf of

REVISED MODEL FORM OF BANK GUARANTEE BOND

BG NO.....

DATED.....

AMOUNT Rs.....

In Consideration of the Governor, Uttar Pradesh (herein after called "The Government") having agreed to exempt----- (herein after called " the said constructor(s) from the demand under the terms and conditions of an Agreement dated-----made between-----and -----for

herein after called " the said agreement") of security deposit for the due fulfillment by the said constructor(s) of the terms and conditions contained in the said Agreement, on production of the bank guarantee for Rs ----- (Rupee-----only) (herein after referred to us Bank) of (Indicate the name of the bank).

We request of -----constrictors (s)/do here by under take to pay to the Government an amount not exceeding Rs-----against any loss or damage caused to or suffered or would be caused to or suffered by the Government by reason of any breach by the said contractors (s) of any of the terms and conditions contained in the said Agreement.

2- We -----here by undertake to pay the amount due the payable under (Indicate the name of the bank) this guarantee without any demur, merely on a demand from the government stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by the government by reason of breach by the said constructor(s) of any of the terms and conditions contained in the said Agreement of reason of the constructor(s) failure to perform the said Agreement. Any such demand made on the bank shall be conclusive as regards and amount due and payable by the bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceed in Rs-----

3- We undertake to pay to the Government any money so demanded not with standing any dispute or disputes raised by the constructor(s) in any suit or proceeding pending before any court or tribunal relating there to our liability this present being absolute and under unequivocal.

The payment so made by us under this bond shall be a valid discharge of our liability for payment there under and the contractor (s) supplier (s) shall have no claim against us for making such payment.

4- We-----further agree that the guarantee shall (Indicate the name of the bank) remain in full force and effect during the period that would be taken for the performance of the said agreement and that it shall continue enforceable till all the dues of the Government under or by virtue of the said agreement have been fully paid and its claims satisfied or discharged or field-----office/Department-----certifies that the terms and conditions of the said Agreement, have been fully and properly carried out by the said constructor (s),and accordingly

discharges this guarantee. Unless a demand of a claim under this guarantee is made on us in writing on or before the -----we shall be discharged from all liability under this guarantee there after.

5- We-----further agree with the Government that the Government shall have (Indicate the name of the bank)the fullest liberty without our consent and without affecting in any manner our obligation here under to vary any of the terms and conditions of the said Agreement or to extend time of performance by the said constrictor (s) from time to time or to postponed for any time or from time to time any of the powers Exercisable by terms and conditions relating to the said Agreement and we shall not be Relieved from our liability by reason of any such variation or extension being Granted to the said constrictor (s) or for any forbearance, act' or commission on the part of the Government or any indulgence by the Government to the said constructor (s) or by any such matter or thing whatsoever which under the relation to sureties would but for this provision, have effect of so relieving us.

6- This guarantee will not be discharged due to the change in the constitution of the bank or the constructor (s) .

7- We-----lastly undertake not to revoke this guarantee during(indicate the name of bank) its currency except with the precious consent of the government in writing.

Dated the -----day of-----

For------(indicate the name of Bank)



UTTAR PRADESH FIRE SERVICE HEADQUARTER

4th & 5th FLOOR, INDIRA BHAWAN, ASHOK MARG, LUCKNOW

TENDER NO-XXII-FS(T)-211 -2016

DATE : AUGUST 11 ,
2016

Tenders are invited for supply of the following items on behalf of the Governor of Uttar Pradesh.

SL. No	Name & Description of stores with full specification.	Unit	Quantity	Nature Of contract.
1	Fabrication of Water Tender on 16 Ton Full forward control truck Chassis.	Eac h	19	Q/C till supply is completed.

NOTE:-

- 1 Rates must be quoted exclusive of excise duty, specifying the rates of excise duty if any applicable
- 2 Transportation Charges of chassis (To & Fro) must be included in Basic Price.

DETAILED SPECIFICATION FOR WATER TENDER TYPE 'B'BIG

GENERAL;-

Accepted Deviation
d n

Water Tender type 'B' having 5500 liters capacity Water Tank 1800 LPM capacity Gun metal centrifugal fire pump **VAS/WEBSTER/FIREHAWK OR any UL Certified P.T.O.**, ladder gallows, lockers, First Aid, Hose reel etc. shall be fabricated conforming to this specification as well as IS:950-1980 on 16 Ton Full forward control truck Chassis to be supplied by the U.P. Fire Service Headquarters. **ALL WELDING SHALL BE MIG WELDING.**

WATER TANK;-

(1) Water Tank shall be 5500 liters capacity constructed out of 5 mm M.S. plates with S.S. nuts and bolts to prevent surge when the vehicle is in breaking, cornering or accelerating. The baffle shall be arranged in such a manner to facilitate the passage of a man throughout the tank for cleaning purpose. The Tank shall be mounted on minimum three cross bearers. On the chassis keeping in view the proper load distribution on the axles and counteract act stress caused by chassis flexing and shall be so secured that it can be removed, when required. The Tank and its fittings shall be given adequate phosphating treatment, before painting. Inside coating shall be chloro Rubber paint of approved brand. Date of sandblasting should be informed 05 days in advance. **Radiography of water tank for all joints / welding to be ensured 100% and report of all details should be submitted at the time of second stage of inspection.**

(2) The visual level indicator of the plastic tube shall be provided near the control panel calibrated and full. The Tank shall have one manhole of 65 cm Diameter. The filling orifice on the top cover shall be of not less than 250 mm diameter made of aluminum and screwed cap shall be chained spherical type valve leader make shall be provided wherever a valve if required. Other equipments of the tank shall be same as IS:950-1980 (para 4-3-2 to 4-3-6-). Four lifting eyes shall be provided on the shell of the tank to enable the tank to be lifted off the vehicle whenever required.

PUMP;-

(1) A built in type centrifugal pump 100 mm suction inlet and two nos. 63 mm delivery valve shall be mounted at the rear of the appliance. The pump shall be double stage type. The pump casing, impeller, impeller ring and impeller neck ring shall be lead tin bronze (grade-II) of IS: 319-2007. The Impeller neck ring and the impeller ring shall be review able. Pumps shaft shall be of stainless steel (Grade 94 or 10 Ni of IS:6603-1972) and shall be carried in antifriction bearings made of SKF.

(2) The Impeller should be dynamically balanced, drain cock plug shall be provided at the bottom of the casing in a way to prevent the cock being opened to vibrations, studs etc. used in the pump casing shall be stainless steel. The gland shall be of the mechanical adjustable type.

(3) The pump shall be designed to give its rated out put of 1800 liters per minute at 7 Kg/Cm² with an engine and pump input shaft speed safe enough to operate the engine. It shall give performance as given in table I of IS:950-1980 and shall be tested in same manner as prescribed there in Para 4-5-4 pump casing and impeller shall also be tested before mounted. **Pump shall be tested to hydraulic pressure of 21kgf/sq. cm to detect any leakage in front of inspection committee at second stage of inspection. Pump should be UL certified.**

PRIMER;-

The primer made of G.M. shall be of reciprocating piston type positive displacement capable of lifting water at least 7 mtr. In not more than 24 seconds. Means shall be provided to limit the speed the engine while the primer is engaged.

POWER TAKE OFF;-

The pump shall be coupled to the prime mover of the chassis through power take off capable of full torque of the engine used for this appliance. A control lever for engaging and disengaging the pump with suitable locking device shall be provided in the driver's cab. The power take off shall be VAS/WEBSTER/FIREHAWK make compatible with torque and RPM of the supplied chassis. PTO should be dynamically balanced. Guarantee Card and Sale Invoice for Specific PTO No. of Manufacturer Should be given at the time of Inspection and delivery.

Torque clause:

The input torque of transmission (PTO) shall be match with the provided chassis engine output torque. At the time of tendering for specific model PTO brouser should be provided for confirmation of input torque of transmission (PTO).

BODY WORK AND STOWAGE:-

- 1- Enclosed accommodation for seven persons with windscreen and shall be provided sliding type windows having size 60x50 cm. for the officer and crew doors and window size 42x42 cm. For up and down glass in aluminum section for driver door. With glass 5mm. thick toughened, moving up and down by heavy duty machine in galvanized channels on each side (single leaf type) shall be provided on the driver cum crew compartment. One peep window on each side (fixed type) be provided on cabin between the both windows matching to them. The door shall be kept light and hinged opening outward (Max 2650) and shall have catch locks and flush type handles cab cum crew compartment flooring shall be made of 10 gauge aluminum chequered plate. Inside dimension of driver cum crew compartment length wise not less than 185 cm. from dish board to back of the crew and width wise as per width of the chassis. The clear height of the cabin rooting from the floor of the cabin should not be less than 1650 mm. Foot board and covered with aluminum 10 gauge pchequered plate. Crab rail shall be provided at the rear of the appliance, for four persons. The front show and screen be properly fabricated to give sufficient strength and shape to the cabin. Width of the windscreen shall not be less than 75 cm. and thickness of the toughened glass shall be 5.5 mm.

SEATS:-

- 1- Adjustable type driver's suitable seat and officer's with bottom cushion of the size 18" x18" and 18"x 20" are to fitted. This should have 4" and 2" thick Don top foam cushion duly covered with best quality foam. Rexene and be fabricated, out of 35x35 mm. angle crew scat in cabin shall be on a full length equipments box be fabricated from, M.S. angle 35x35x5 mm and 16 gauge alum. Minimum Chequered plate with bottom cushion of 2" thick Dunlop and covered with best quality foam Rexene.
- 2- Officer seat and one crew sent should have provision for B.A. set and cylinder fixing at the back of the seat.
- 3- One No. Ladder shall be provided (Fixed type) in the rear of the body to climb on top of the appliance.
- 4- Six lockers shall be provided for secure stowage of all equipments given in IS: 950-1980. **There shall be provision of one locker such that it can house a portable pump (size : length 32" width 22" and height 29" and weight not more than 90 kg can accommodate easily).**
- 5- Double wall type lockers door shall be provided (over hinged type) with provision of automatic internal lighting arrangement with master switch in driver's cab and doors of the locker shall have efficient means for holding then closed by efficient flush fitting spring loaded locks.
- 6- Super structure of the entire body shall be made of 30x30x1.6 mm sq. M.S. tube. **The complete superstructure should be electroplated with ZINC PLATING not less than 18 microns. Then epoxy painting on it must be done after the fabrication.** Wood shall not be used in fabrication work. The roof of driver cabin cum crew compartment shall be covered, with ¼ gauge M.S. sheet of **Tata/Zindal/SAIL and the papers Must be submitting the before inspection team.** With the thermo-cols packing 25 mm. thick and lining of 18 gauge aluminum sheet, outside body paneling shall be 18 gauge aluminum sheet and equipment box shall be made of 18 gauge aluminum sheet and flooring of the same shall be 10 gauge aluminum chequered plats.
- 7- Mudguards shall be of 16 gauges G.I. sheet.
- 8- The parts likely to come in contact with water shall be treated for anticorrosive.
- 9- **Wire mesh shall be provided in front of wind screen.**

SUCTION HOSE:-

Enclosed provision shall be made for keeping 4 nos. suction hose at a convenient place with 10 gauge aluminum chequered plate flooring.

LADDER GALLOWES :-

Provision shall be made for keeping 10.5 m. Aluminum extension ladder at roof Of the body on proper gallows which shall be firmly affixed with the frame work of the roof. Ladder mounting design should be such that it can be taken out or stowed easily by one man, means shall also be provided for securing the ladder stowed.

COOLING SYSTEM:-

A heat exchanger tank made of 18 gauge brass plate having indirect cooling system of open circuit type in a convenient position be provided in front of the engine to ensure efficient

cooling during static running of the pump without over heating the engine /P.T.O. as recommended by manufacturer, Bye-pass water from the pump is fed to the cooling of the heat exchanger tank pass through a copper pipe coils and discharging the water in open. The tank shall be provided with filter, cap and a drain plug at the bottom.

WATER MONITOR:- Suitable capacity water monitor shall be mounted on top of the vehicle with valve to control the water flow connected with fire pump.

TOWING HITCH:-

Drag hitch or eyes shall be fitted to each chassis member at rear for towing a two wheeled trailer weighing approximately one tone. The towing which shall be provided to the chassis with its height center at 600 mm ground level.

TEST AND TRIAL:-

The appliance shall be subjected to the different tests at the manufacturer workshop to check acceleration, performance of fabrication breaking, turning circle, Stability pump and primer tests as per IS requirements governing at the cost and risk of manufacturer and material, grading test if required too. The manufacturer shall provide all testing facilities.

ACCESSORIES-

The following accessories shall be provided in addition to these normally fitted on modern commercial vehicles:-

1-HOSE REEL:- 60 meter first aid hose reel of approved brand with 20 mm. bore rubber hose control valve and nozzle shall be provided at convenient place of the appliance, as given in IS:884-1969.

2- LADDER :- An extension ladder 10.5 mtrs (trussed type) CE/EN/ISI approved shall be provided.

3-WIRE MESSH GUARDS:- Remove able type wire mesh guards of 1"x1" opening 1/10" thick for wind screen and on all windows shall be provided.

4-WORKMAN SHIP AND FINISH:- All parts of the appliance shall have standard quality finish and workman ship, Railing and handle shall be chromium plates of high quality. The appliance shall be painted as per our emblem, size and colour.

5-PAINTING AND MARKING: The appliance shall be painted in FIRE BRIGADE RED COLOUR' and shall be painted as per our emblem, size ISI.

6- INSTRUCTION BOOK: Instruction book as per IS:850-1980.

7- FIRE BELL:- 250mm diameter fire bell shall be mounted on the top of the cabin and shall be capable of being operated from the driving compartment without extending the arms outside. The bell shall be as per IS:1988: 1964 and operated type.

8- REVERSING LIGHT:- Two Nos suitably rear situated to assist reversing (bulb will be 12 v. 25watts.)

9- one emergency light bar : It shall be of Mars Voice Series Blue & Amber

Grand make (with siren and public address system) covered with wire mesh.

10- TRAFFICATORS :- Illuminated with indicating lights on any prominent place as per Motor Vehicles act.

11- SIREN :- Kheraj ½ mile range.

12- SEARCH LIGHT :- Adjustable to give flood of beam light mounted in a convenient position but capable of being readily disconnected and mounted on a tripod away from the appliance complete with tripod and 30 m of PCB cable on a reel mounted on the appliance.

13- SPOT LIGHT:- Adjustable mounted in a convenient position near side of the driving compartment bulb will be 12 volt 30 watts.

14- INSPECTION LAMP:- Protected type on wonder lead with plug. Shocked shall be provided in the central 1 panel in the driver's cab for plugging in the lamp.

15- ELECTRIC CALL BELL:- An electric call bell in driver's cabin with its push button at rear side of the vehicle.

16- CAB:- Instrument panel and lockers shall be provided with lights.

17- A trickle type battery charger shall be provided for recharging the battery in side along with plug, socket and lead wire.

18- **A red pilot lamp indicating:-**

When the batteries are being charged from an external supply shall be provided.

19- **Rear Reflectors :-**

Two Nos.

SCHEDULE OF EQUIPMENT TO BE STOWED IN THE APPLIANCE				
Sl.no.	ITEMS	QNTY.		
1	Suction hose of rubber of 100 mm internal diameter in 2.5 m lengths (IS:3549-1983) fitted with 100 mm suction hose couplings (IS:902-1992)	4 Nos.		
2	3 way suction collecting head 100m size (IS:904 -1983) GM.	1		
3	Suction wrenches for 100m suction coupling (IS:4643 -1984)	2		
4	Suction strainer 100mm size GM (IS:907 -1984)	1		
5	Basket strainer (cylindrical type) (IS:3582 -1984)(CANE)	1		
6	Dividing breeching with hand control instantaneous pattern 63 mm GM (IS:5131 -2002)	1		
7	Collecting breaching instantaneous pattern 63 mm (IS:904 -1983) GM	1		
8	Hydrant – stand pipe one way (IS:571-1970)	1		
9	Combined key for hydrant and bar (IS:910 -1980)	1		
10	multipurpose nozzle as per IS/CE/EN/NFPA or equivalent	1		
11	Ordinary Branch Pipe IS:903-1993, ISI Mark(G.M.) nozzle size 14/16 mm	2		
12	a) Adopter for 100 mm suction female screw	1		

	coupling and 63 mm male instantaneous (GM)	1
	b) Adopter double female instantaneous pattern 63 mm (GM)	
	c) Adopter double male instantaneous pattern 63 mm (GM)	
13	Dragon type torch (LED)	1
14	Delivery hose type A ISI marked 30 meter length each 63 mm Dia with ISI marked SS (Stainless steel) coupling	10
15	Portable fire extinguisher , ABC type 9 kg. (ISI: Mark)	2
16	Foam making branch FB-5x with pick up tube (IS:2097 -1983)	1
17	Rubber gloves (in case) (IS:4770 -1991)	2 pairs
18	Axe, large (IS:703 -1966)	1
19	Pick axe (IS:273 -1990)	1
20	Crow bar (IS:704-1984)	1
21	Steel hammer (IS:841 -1983)	1
22	Revolving Branch Pipe for firefighting use IS: 906: 1988	1
23	Hydraulic jack- not less than 20 ton capacity	1
24	Fire hook (IS:927 -1981) Hook Cluster for upto 50kg. work load.	1
25	First aid box for 10 person	1
26	Bolt Cutter Specification 1-Size: Length 30" 2-Cutting jaws: made of high tensile solid alloy steel, especially heat treated with center cut heads. 3-Handle : With sufficient grip of rubber.	1

- 4- Application :
Suitable for cutting
hard material viz
bolt, iron rod of 10
to 14mm diameter.
- 27 Full body harness 02
EN certified.
- 28 Rope manila type 2 length
20 mm dia. Grade-
1 ISI mark. 110 ft
- 29 Rescue hook- Hook 1
Cluster For upto
50kg work load

30	multipurpose nozzle	1		
31	Specification			
	1-Multipurpose nozzle shall have pistol grip(Anti-slip finger lock rubber moulded) made up of light weight aluminum alloy anodized for resistance with solid bore tip.			
	2-Ball valve operated flow control lever for shutting off.			
	3-inlet with 63mm male inlet conforming to IS:903.			
	4-Selectable variable flow settings: 360-475- 565-755-950 LPM @7 Kg/m2			
	5-spray up to 1200.			
	6- Weight not more than 3.0 Kgs.			
	7-Jet throw Range from 20 meters at 360 LPM to 47 meters at 950 meters.			
	Spark arrester/muffler	1		

	which can be easily attached to vehicle exhaust			
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SPECIAL TERMS AND CONDITION

1. **Validity of bid:** Bid should remain valid for a period of 180 days from the date of opening of financial bid. Validity of bid can be extended with mutual consent.
2. **F.O.R.:** Various destinations in U.P.
- 3.(a) Capacity of Fabrication of WATER TENDER TYPE 'B' BIG on the chassis per month must be quoted.
- 3.(b) **Delivery period** : The successful bidder will have to complete and deliver fabricated vehicles within 100 days from the date of issue of orders for collecting the chassis. This includes maximum 10 days for collection of chassis. The schedule for collection of chassis and inspections will be as below :-
 - (i) **Collection of chassis-** 10 day from date of issue of order for collection of chassis.
 - (ii) Inspection of prototype vehicle and first stage inspection of other vehicle within 30 days of collection of chassis.
 - (iii) Second stage of inspection within 60 days of collection of chassis.
 - (iv) Third and final inspection before 90 days of collection of chassis.
- 3.(c) **In case L-1 is found to have capacity constraints to complete the fabrication work within stipulated time DG/ADG Fire Service reserves the right to offer the contract to L-2 and L-3 at the rate of L-1 with their consent in a ratio of L-1 : L-2 : L-3 :: 55 : 25 : 20 percent.**
- 4.1 **Inspection:**
 - (a) A high level committee may inspect the work/Establishment of the bidders before the finalization of the contract for evaluation/ assessment of capacity of bidders.
 - (b) After award of the contract, inspection will be done by Fire Service Head Quarter Lucknow at supplier's workshop. Inspection will be done in three stages:
 - (1) After fabrication of superstructure and before installation of pump/pto etc.,
 - (2) After fabrication of superstructure and installation of pump/pto etc.,
 - (3) Before delivery.
 - (C) The bidders must have complete testing & trial arrangement regarding fabrication of WATER TENDER TYPE 'B' BIG with them. If third party inspection is required the expenses will be born by the supplier. The bidder

must have testing facility e.g. deep lift test , flow test (v-notch)and tilting test, gradian test facility etc.

- (d) The bidders must describe in technical bid about their past performance for last five years related to fabrication /supply of fire fighting vehicle with documentary proof.
- (e) Insurance against Chassis: All Chassis shall be comprehensively insured (within 10 days from the date of award of contract) by the fabricator/ vender in favor of 'U.P. Fire Service Head Quarter, Lucknow' for full compensation in case of loss by theft and/ or fire or any other way whatsoever for the period after they have been handed over to the fabricator/ vender and till we take possession of these Chassis as water Tender.
- (f) Order for handing over the chassis to the successful bidder will be issued by the Fire Service Headquarters, Lucknow after following requirement is fulfilled by the bidder:-
 - (i) Contract Agreement is signed.
 - (ii) Performance Security is submitted.
 - (iii) Papers of comprehensive insurance cover of the chassis is submitted to Fire Service Headquarters, Lucknow.
 - (iv) List of Drivers with their name, address, two attested photographs, mobile no., copy of Driving Licence, authorization letter with their attested signature is submitted to the Fire Service Headquarters, Lucknow.
- (g) No drilling welding and cutting of the chassis shall be allowed.
- (h) The proto type vehicle shall have to be constructed as per delivery schedule strictly conforming to the specifications and drawing approved by the indenting officer, failing which the advance security money of the firm shall be forfeited.

4.2 Performance Security:

The successful bidders shall have to submit a performance security in shape of Bank Guarantee/ F.D.R., for 10% of the contract value, within 10 days from the date of award of contract, duly pledged to the Director/ Addl. Director General of Police, Fire Service Headquarters, U.P., Lucknow' failing which their tender will be rejected and contract will be awarded to next bidder. The performance security should remain valid till the expiry of the contract.

4.3 Penalty:

Penalty of Rs.500/- (five hundred only) per day per body will be charged for any delay in completion of work or handing over the completed body beyond the stipulated period.

4.4 Warranty:

- (i) Warranty shall be for a period of **24 months** from the date of acceptance of WATER TENDER TYPE 'B' BIG by competent authority.
- (ii) The bidders shall have to remove all manufacturing/ operational or any other defects/ problems detected in the equipment during the **24 months** warranty period within 07 days at their risk and cost, at the station where the machine/ equipment is stationed.
- (iii) **bidder shall furnish rates for 05 (five) years of comprehensive annual maintenance contract (AMC) after the expiry of warranty period.**

5. Miscellaneous:

- (i) Printed leaflet and detailed specifications should be submitted by the bidders along with the technical bid. The details of past supply of tendered items, if any, should also be mentioned.
- (ii) In all dispute concerning specification/quality of fabrication and other technical issues, the decision of technical committee will be final.
- (iii) Delivery period may be extended beyond 100 day from the date of order for collection of chassis on reasonable ground by 'Director General./Addl. Director General of Fire Service .

(R.K. Singh)
Joint Director,
Fire Service Hqrs,
Lucknow.



UTTAR PRADESH FIRE SERVICE HEADQUARTER

4th & 5th FLOOR, INDIRA BHAWAN, ASHOK MARG, LUCKNOW

TENDER NO -XXII- FS(T)-212 -2016

DATE : AUGUST 11 ,
2016

Tenders are invited for supply of the following items on behalf of the Governor of Uttar Pradesh.

SL. No	Name & Description of stores with full specification.	Unit	Quantity	Nature Of contract.
1	Fabrication of Water Tender Type 'B' (Small) on LCV Chassis	Each	16	Q/C till supply is completed.

NOTE:-

- 1 Rates must be quoted exclusive of excise duty, specifying the rates of excise duty if any applicable
- 2 Transportation Charges of chassis (To & Fro) must be included in Basic Price.

DETAILED SPECIFICATION FOR WATER TENDER TYPE 'B' (SMALL)

GENERAL:-

Water Tender type 'B' having **2000 liters** capacity Water Tank, 1200 LPM capacity Gun metal centrifugal fire pump, ladder gallows, lockers, etc. shall be fabricated confirming to this specification as well as IS:950-1980 on the LCV Chassis to be supplied by the U.P. Fire Service Headquarters. ALL WELDING SHALL BE MIG WELDING.

WATER TANK:-

Accepted Deviation

(1) Water Tank shall be **2000 liters** capacity constructed out of **5.0 mm M.S. plates hi-grade in rectangular shape with elliptical bottom and 3.5 mm for top and sides**. Baffle plates shall be min 3mm thick with direction fitted with Stainless steel nuts and bolts to prevent surge when the vehicle is in breaking, cornering or accelerating. The baffle shall be arranged in a manner to facilitate the passage of a man throughout the tank for cleaning purpose. The Tank shall be mounted on min. three cross bearers on the chassis keeping in view the proper load distribution on the axles and counteract stress caused by chassis flexing and shall be so secured that it can be removed, when required. Tank shall be SAND BLASTING and two coating of APPOXY PAINT (date of sandblasting should be informed 05 days in advance). All fittings shall be given hot dip phosphate treatment, not less than 18 microns before painting. Inside coating shall be chloro Rubber paint of approved brand.

Radiography of water tank for all joints / welding to be ensured 100% and report of all details should be submitted at the time of second stage of inspection.

(2) The visual level indicator of the plastic tube shall be provided near the control panel calibrated and full. The Tank shall have one manhole of 65 cm Diameter separately on top of the tank with placing arrangement of stepni over it. The filling orifice on the top cover shall be of not less than 250 mm diameter made of aluminum and cap 9" diameter 'U' threaded type also of aluminium shall be chained, quick action spherical type valve reputed make shall be provided wherever a valve is required. Other equipments of the tank shall be same as IS:950-1980 (Para 4-3-2 to 4-3-6). Four lifting eyes shall be provided on the shell of the tank to enable the tank for lifting.

PUMP;- (a) A built in type centrifugal pump 100 mm suction inlet and two nos. 63 mm delivery valve shall be mounted at the rear of the appliance. The pump shall be single stage type. The pump casing, impeller, impeller ring and impeller neck ring shall be lead tin bronze (grade-II) of IS: 318-1963. The Impeller neck ring and the impeller ring shall be reviewable. Pumps shaft shall be of stainless steel (Grade 94 or 10 N 1 of IS:6603-1972) and shall be carried in antifriction bearings made of SKF/NBC/TATA.

(b) The Impeller should be dynamically balanced, drain cock plug shall be provided at the bottom of the casing in a way to prevent the cock being opened to vibrations, studs etc. used in the pump casing shall be stainless steel. The gland shall be of the mechanical adjustable type.

(c) The pump shall be designed to give its rated out put of 1200 liters per minute at 7 Kg/Cm² with an engine and pump input shaft speed safe enough to operate the engine. It shall give performance as given in table I of IS:950-1980 and shall be tested in same manner as prescribed there in para 4-5-4 pump casing and impeller shall also be tested before mounted and **pump shall be tested to hydraulic pressure of 21kgf/sq. cm to detect any leakage in front of inspection committee at second stage of inspection. Pump should be UL certified.**

PRIMER;- The primer made of G.M. shall be of reciprocating piston type positive displacement capable of lifting water at least 7 mts in not more than 24 seconds.

POWER TAKE OFF;- The pump shall be coupled to the prime mover of the chassis through power take off capable of full torque of the engine used for this appliance. A control lever for engaging and disengaging the pump with suitable locking device shall be provided in the driver's cab. **The power take off shall be VAS/ WEBSTER / FIREHAWK or any UL certified make compatible with torque and RPM of the supplied chassis . PTO should be dynamically balanced . Guarantee Card and Sale Invoice for Specific PTO No. of Manufacturer Should be given at the time of Inspection and delivery.**

Torque clause:

The input torque of transmission (PTO) shall be match with the provided chassis engine output torque. At the time of tendering for specific model PTO brouser should be provided for confirmation of input torque of transmission (PTO).

BODY WORK AND STOWAGE;-

1- One No Alum. Ladder shall be provided in the rear of the body to climb on top of the appliance.

2- Lockers shall be provided for secure stowage of equipments given in IS:950-1980. **There shall be provision of one locker such that it can house a portable pump (size : length 32"**

width 22" and height 29" and weight not more than 90 kg can accommodate easily).

3- Double wall type lockers door shall be provided (over hinged type) with provision of automatic internal lighting arrangement with master switch in driver's cab and door's of the lockers shall have efficient means for holding them closed by efficient flush fitting spring loaded locks.

4- Super structure of the entire body shall be made of 30x30x1.6 mm sq. Tube; wood shall not be used in fabrication work. The roof of drivers cabin crew compartment shall be covered with 16 gauge. m.s. sheet **Tata/Zindal/SAIL and the papers Must be submitting the before inspection team.** with the thermo cool packing 25 mm. thick and lining of 18 gauge PVC aluminium sheet. Outside body **panelling** and equipment box shall be made of 18 gauge aluminium chequered plates. **There shall be arrangement for hanging two numbers of BA set on the back of the seats. There shall be provision of wire mesh in front of wind screen. The complete superstructure should be electroplated with ZINC PLATING not less than 18 microns. Then epoxy painting on it must be done after the fabrication.**

5- Mud guards shall be of 18 gauge G.I. sheet.

6- The parts likely to come in to contact with water shall be treated for anticorrosive.

7- All metal pipe line chanals shall be hot dip phosphating.

SUCTION HOSE:-

Enclosed provision shall be made for keeping 4 nos. suction hose at convenient place with 16 gauge aluminium chequered plate. (As per design approved)

LADDER GALLOWS:-

Provision shall be made for keeping 7.5 m. Aluminium extension ladder at the roof of the body rope gallows which shall be firmly affixed with the frame work of the roof. Ladder mounting design should be such that it can be taken out or stowed easily by one man, means shall also be provided for securing the ladder stowed.

WATER MONITOR :-

A Suitable capacity water monitor shall be installed on water Tender with valve to control water flow.

COOLING SYSTEM:-

A heat exchanger tank made of 18 gauge brass plate having indirect cooling system of open circuit type in a convenient position in front of the engine to ensure efficient cooling during static running of the pump without over heating the engine /P.T.O. as recommended by manufacturer. Bypass water from the pump is fed to the cooling of the heat exchanger tank pass through a copper pipe coils and discharging the water in open. The tank shall be provided with filter, cap and a drain plug at the bottom.

WORKMANSHIP AND FINISH:-

All parts of the appliance Heavy duty shall have standard quality finish and workmanship. Railing and handle shall be heavy duty chromium plates of high quality. The appliance shall be painted in FIRE BRIGADE RED colour and shall be of dulux paint as per IS and state emblem as per size and colour.

TEST AND TRIAL:-

The appliance accessories and equipments. Shall be subjected to the different tests at the manufacturer workshop to check acceleration, performance of fabrication breaking, turning circle & Stability. Pump and Primer tests as per IS requirements governing the concerned at the cost and risk of manufacturer and material, grading test if required too. All testing facilities shall be provided by the manufacturer.

ACCESSORIES:-

The following accessories shall be provided in addition to those normally fitted on the chassis:-

1-WIRE MESSH GUARDS:-

Removable type wire mesh guard of 1"x1"opening 1/10" thick for wind screen and on all windows shall be provided.

2- LADDER :- An extension ladder 10.5 mtrs truss type CE/EN/ISI approved shall be provided.

3-FIRE BELL:-

250mm diameter as per I.S. specification fire bell shall be mounted on the top of the cabin and shall be capable of being operated from the driving compartment without extending the arms outside. The bell shall be as per IS:1988: 1964 hand operated type.

a-Fire bell: one bell of 250 mm dia mouth "F" natural tone carillon, shall be mounted

externally.

b-Two fog lamp: these shall be low mounted in front of the appliance (25 watts bulb shall

be provided)

c- **one emergency light bar : It shall be of Mars Voice Series Blue & Amber grand make (with siren and public address system) covered with wire mesh**

d-One Reversing light. It shall be suitably situated to assist reversing (25 watts bulb

shall be provided.)

e-Search light: 300 mm diameter halogen bulb (100 watts with flood and beam system arrangement of range 100 m. The searchlight shall have swiveling and both elevation and directional control. The search shall be provided with 30 m long fire retardant PCB cable and be used as portable search light along with a tripod.

f- One spot light: It shall be adjustable and shall be mounted in a convenient position on the roof of the appliance (20 watts)

g- Trafficators : self cancelling with switch in the diver in the compartment (18 w.)

h-Towing arrangement shall be provided at the rear of the appliance.

i-LIGHTS :-Instrument panels and lockers shall be provided with lights.

j-A trickle type battery charger shall be provided for recharging the battery in side along with plug, socket and lead wire.

k-A rear pilot lamp indicator:- When the batteries are being charged from an external supply shall

be provided.

l- Rear Reflectors :- Two nos.

m-INSTRUCTION BOOK:-Functional Requirements as per IS:950: 1980

ACCEPTANCE TESTS:-

The fabricated Water tender shall be subjected to prior acceptance all tests specified in the IS the 10460-1983 and other relevant standards. Before the inspection team at the time of final/third stage inspection. These tests shall be carried out at manufactures works or a place to be mutually agreed upon at the manufactures cost.

INSTRUCTION:-

1-Details/design / drawings with load distribution chart of the appliance must be accompanied with tender.

2-Inspection of the fabrication work will be carried out in three different stages.

WARNING:-

1- No cutting welding and drilling of chassis shall be done and also manufacture will insure that fabrication work will not effect technical parameters of the chassis.

2- The fully laden weight of the vehicle in any case must not exceed the specified G.V.W. for the vehicle. **During third stage inspection GVW of the vehicle shall be checked with full load (with equipment) with crew as per the IS**

3- For all I.S. stated in the specification the latest and revised or

amended will be taken into consideration.

SCHEDULE OF EQUIPMENT TO BE STOWED IN THE APPLIANCE		
Sl.no.	ITEMS	QNTY.
1	Suction hose of rubber of 100 mm internal diameter in 2.5 m lengths (IS:3549-1983) fitted with 100 mm suction hose couplings (IS:902 -1992)	4 Nos.
2	3 way suction collecting head 100m size (IS:904 -1983) GM.	1
3	Suction wrenches for 100m suction coupling (IS:4643 -1984)	2
4	Suction strainer 100mm size GM (IS:907 -1984)	1
5	Basket strainer (cylindrical type)(IS:3582 -1984)(CANE)	1
6	Dividing breeching with hand control instantaneous pattern 63 mm GM (IS:5131 -2002)	1
7	Hydrant – stand pipe one way (IS:571-1970)	1
8	Combined key for hydrant and bar (IS:910 -1980)	1
9	Ordinary Branch Pipe IS:903-1993, ISI Mark(G.M.) (12 and 14 mm)	2
11	a) Adopter for 100 mm suction female screw coupling and 63 mm male instantaneous (GM)	1
	b) Adopter double female instantaneous pattern 63 mm (GM)	1
	c) Adopter double male instantaneous pattern 63 mm (GM)	1
12	Dragon type torch (LED)	1
13	Delivery hose type A ISI marked 30 meter length each 63 mm Dia with ISI marked SS (Stainless steel) coupling	10
14	Portable fire extinguisher , ABC type 9 kg. (ISI: Mark)	2
15	Foam making branch FB-5x with pick up tube (IS:2097 -1983)	1
16	Rubber gloves (in case) (IS:4770 -1991)	2pairs
17	Axe, large (IS:703 -1966)	1
18	Pick axe (IS:273 -1990)	1
19	Crow bar (IS:704-1984)	1
20	Steel hammer (IS:841 -1983)	1
21	Revolving Branch Pipe for firefighting use IS: 906: 1988	1
22	Fire hook (IS:927 -1981) Hook Cluster for upto 50kg. work load.	1
23	First aid box for 10 person	1
24	Bolt Cutter	
	Specification	1
	1-Size: Length 30"	
	2-Cutting jaws: made of high tensile solid alloy steel, especially heat treated with center cut heads.	
	3-Handle : With sufficient grip of rubber.	
	4- Application : Suitable for cutting hard material viz bolt, iron rod of 10 to 14mm diameter.	
25	Full body harness EN certified.	02
26	Rope manila type 20 mm dia. Grade-1 ISI mark. 110 ft	2 length
27	Hydraulic jack-10 ton.	1
28	multipurpose nozzle as per IS/CE/EN/NFPA or equivalent	1
	Specification	
	1-Multipurpose nozzle shall have pistol grip(Anti-slip finger lock rubber moulded) made up of light weight aluminum alloy anodized for resistance with solid bore tip.	
	2-Ball valve operated flow control lever for shutting off.	
	3-inlet with 63mm male inlet conforming to IS:903.	
	4-Selectable variable flow settings: 360-475-565-755-950 LPM @7 Kg/m ²	

5-spray up to 120°.

6- Weight not more than 3.0 Kgs.

7-Jet throw Range from 20 meters at 360 LPM to 47 meters at 950 meters.

29

Spark arrester/muffler which can be easily attached to vehicle exhaust

1

SPECIAL TERMS AND CONDITION

1. **Validity of bid:** Bid should remain valid for a period of 180 days from the date of opening of financial bid. Validity of bid can be extended with mutual consent.
 2. **F.O.R.:** Various destinations in U.P.
 - 3.(a) Capacity of Fabrication of WATER TENDER TYPE 'B' SMALL on the chassis per month must be quoted.
 - 3.(b) **Delivery period** : The successful bidder will have to complete and deliver fabricated vehicles within 100 days from the date of issue of orders for collecting the chassis. This includes maximum 10 days for collection of chassis. The schedule for collection of chassis and inspections will be as below :-
 - (i) **Collection of chassis-** 10 day from date of issue of order for collection of chassis.
 - (ii) Inspection of prototype vehicle and first stage inspection of other vehicle within 30 days of collection of chassis.
 - (iii) Second stage of inspection within 60 days of collection of chassis.
 - (iv) Third and final inspection before 90 days of collection of chassis.
 - 3.(c) **In case L-1 is found to have capacity constraints to complete the fabrication work within stipulated time DG/ADG Fire Service reserves the right to offer the contract to L-2 and L-3 at the rate of L-1 with their consent in a ratio of L-1 : L-2 : L-3 :: 55 : 25 : 20 percent.**
- 4.1 Inspection:**
- (a) A high level committee may inspect the work/Establishment of the bidders before the finalization of the contract for evaluation/ assessment of capacity of bidders.
 - (b) After award of the contract, inspection will be done by Fire Service Head Quarter Lucknow at supplier's workshop. Inspection will be done in three stages:
 - (1) After fabrication of superstructure and before installation of pump/pto etc.,
 - (2) After fabrication of superstructure and installation of pump/pto etc.,
 - (3) Before delivery.
 - (C) The bidders must have complete testing & trial arrangement regarding fabrication of WATER TENDER TYPE 'B' SMALL with them. If third party inspection is required the expenses will be born by the supplier. The bidder

must have testing facility e.g. deep lift test , flow test (v-notch)and tilting test, gradian test facility etc.

- (d) The bidders must describe in technical bid about their past performance for last five years related to fabrication /supply of fire fighting vehicle with documentary proof.
- (e) Insurance against Chassis: All Chassis shall be comprehensively insured (within 10 days from the date of award of contract) by the fabricator/ vender in favor of 'U.P. Fire Service Head Quarter, Lucknow' for full compensation in case of loss by theft and/ or fire or any other way whatsoever for the period after they have been handed over to the fabricator/ vender and till we take possession of these Chassis as water Tender.
- (f) Order for handing over the chassis to the successful bidder will be issued by the Fire Service Headquarters, Lucknow after following requirement is fulfilled by the bidder:-
 - (i) Contract Agreement is signed.
 - (ii) Performance Security is submitted.
 - (iii) Papers of comprehensive insurance cover of the chassis is submitted to Fire Service Headquarters, Lucknow.
 - (iv) List of Drivers with their name, address, two attested photographs, mobile no., copy of Driving Licence, authorization letter with their attested signature is submitted to the Fire Service Headquarters, Lucknow.
- (g) No drilling welding and cutting of the chassis shall be allowed.
- (i) The proto type vehicle shall have to be constructed as per delivery schedule strictly conforming to the specifications and drawing approved by the indenting officer, failing which the advance security money of the firm shall be forfeited.

4.2 Performance Security:

The successful bidders shall have to submit a performance security in shape of Bank Guarantee/ F.D.R., for 10% of the contract value, within 10 days from the date of award of contract, duly pledged to the Director/ Addl. Director General of Police, Fire Service Headquarters, U.P., Lucknow' failing which their tender will be rejected and contract will be awarded to next bidder. The performance security should remain valid till the expiry of the contract.

4.3 Penalty:

Penalty of Rs.500/- (five hundred only) per day per body will be charged for any delay in completion of work or handing over the completed body beyond the stipulated period.

4.4 Warranty:

- (i) Warranty shall be for a period of 24 months from the date of acceptance of WATER TENDER TYPE 'B' SMALL by competent authority.
- (ii) The bidders shall have to remove all manufacturing/ operational or any other defects/ problems detected in the equipment during the 24 months warranty period within 07 days at their risk and cost, at the station where the machine/ equipment is stationed.
- (iii) bidder shall furnish rates for 05 (five) years of comprehensive annual maintenance contract (AMC) after the expiry of warranty period.

5. Miscellaneous:

- (i) Printed leaflet and detailed specifications should be submitted by the bidders along with the technical bid. The details of past supply of tendered items, if any, should also be mentioned.
- (ii) In all dispute concerning specification/quality of fabrication and other technical issues, the decision of technical committee will be final.
- (iii) Delivery period may be extended beyond 100 day from the date of order for collection of chassis on reasonable ground by 'Director General./Addl. Director General of Fire Service .

(R.K. Singh)
Joint Director,
Fire Service Hqrs,
Lucknow.



UTTAR PRADESH FIRE SERVICE HEADQUARTER
4th & 5th FLOOR, INDIRA BHAWAN, ASHOK MARG, LUCKNOW

TENDER NO:XXII-FS(T)-213-2016

DATE : AUGUST 11, 2016

Tenders are invited for supply of the following items on behalf of the Governor of Uttar Pradesh.

SL. No	Name & Description of stores with full specification.	Unit	Quantity	Nature Of contract.
1	Fabrication of Water Bowser on M&M Truxo 25(202 HP) cabin & Chassis BS-III	Each	01	Q/C till supply is completed.

NOTE:-

- 1 Rates must be quoted exclusive of excise duty, specifying the rates of excise duty if any applicable
- 2 Transportation Charges of chassis to the destination place must be included in Basic Price.

DETAILED SPECIFICATION FOR WATER BOWSER 12000 Ltr. :

Accepted Deviation
d

1- CHASSIS GENERAL:

The fabrication of Water Bowser shall be done on 25Ton GVW chassis. The chassis will be supplied by the U.P.F.S. HQRS, Lucknow. Supplied chassis will be cabin or without cabin is clarified at the time

of tendering.

2- **GENERAL:**

2.1 The appliance shall carry a water tank having a capacity **12000 ltrs** of water, fitted with a pump at the rear of the appliance driven through P.T.O. The fabrication shall be done to meet all the provision of this document on 25 Toner Full forward control truck Chassis to be supplied by the U.P.F.S.HQRS. Lucknow. ALL WELDING SHALL BE MIG WELDING.

3. The choice of material to be used in construction of the appliance shall be made with a view to combine lightness with strength and durability.

3.1. The timber shall not be used for body construction.

3.2 All parts which form water ways shall be of corrosion resistance material of suitably treated with corrosion resistance compound. All metal parts exposed to atmosphere shall be hot dip phosphate not less than 18microns. Pipe used for fabrication shall at least be of medium duty and shall withstand two times of maximum working pressure.

4- **TANK:**

WATER TANK:-

(1) Water Tank shall be 12000 liters capacity constructed out of 5 mm M.S. plates with S.S. nuts and bolts to prevent surge when the vehicle is in breaking, cornering or accelerating. The baffle shall be arranged in such a manner to facilitate the passage of a man throughout the tank for cleaning purpose. The Tank shall be mounted on minimum three cross bearers. On the chassis keeping in view the proper load distribution on the axles and counteract stress caused by chassis flexing and shall be so secured that it can be removed, when required. The Tank and its fittings shall be given adequate phosphate treatment, before painting. Inside coating shall be chlorinated Rubber paint of approved brand. The tank shall be suitably abrasive blasted before given the epoxy treatment. **Radiography of water tank for all joints / welding to be ensured 100% and report of all details should be submitted at the time of second stage of inspection.**

Suitable arrangement using channel/turf shall be provided on the top water tank (all along the length) for channelizing the spilled water to the rear of the tank and thereafter to the ground using suitable pipe.

(2) The visual level indicator of the plastic tube shall be provided near the control panel and duly calibrated. The Tank shall have one manhole of 650 mm diameter. The filling orifice on the top cover shall be not less than 250 mm diameter made of aluminum. The orifice shall have a screwed cap with chained spherical type valve of Leader make. Other equipments of the tank shall be same as IS: 950-1980

(para 4-3-2 to 4-3-6-). Four lifting eyes shall be provided on the shell of the tank to enable the tank to be lifted off the vehicle whenever required.

(3) The tank shall be fitted with three man holes of 450 mm. dia. on the top of the tank. The cover of the man hole shall be hinged type. The drain pipe shall not be less than 50mm diameter through out and shall be taken down to point well-below the chassis without reducing effective ground clearance. When fully loaded it shall discharge away from the wheel.

(4) One over flow pipe not less than 100 mm. dia. shall be fitted to the tank and taken down to the point well below the chassis without reducing the effective Ground clearance when the vehicle is fully loaded. The Pipe shall be so arranged that the water will overflow while refilling the tank and no water shall overflow when appliance is in motion.

(5) Two filling pipe (hydrant connection) of not less than 63mm shall be fitted to the tank. This shall be fitted with 63mm male instantaneous coupling. This connection shall be fitted with gate valve to prevent water leaking through the filling pipe.

A draw-off connection 100mm dia. with 100mm female suction coupling along with isolation valve shall be provided on one side of the appliance for drawing water in case of failure of main pump. In addition to this a draw-off connection of 75 mm dia with 75 mm female suction coupling with gate valve/butterfly valve shall be provided on the other side of the appliance.

(6) The tank shall be provided with two cleaning holes, at the bottom, of not less than 250 mm dia. and shall be fitted with bolted cover. The plumbing between the tank and the pump shall have clear and unobstructed water way of not less 100mm.

(7) The water tank with all its fitments shall withstand hydraulic pressure of 0.5 kgf/ cm².

(8) All plumbing shall be reasonably accessible for maintenance purpose. Screw bends, sharp flange joints shall be avoided as far as possible.

(9) The tank shall be suitably abrasive blasted before giving an EPOXY PAINT. The epoxy treatment shall consist of two coats of primer with two coats of EPOXY finish.

(10) Radiography of water tank for all joints / welding to be ensured 100% and report of all details shall be submitted at the time of second stage of inspection.

(11) The tank shall be provided with filter, cap and a drain plug at the bottom

5 - PUMP (HIGH-LOW PRESSURE TYPE)

Fire Pump: - The pump mounted on the appliance shall be multipurpose high- low pressure pump of “UL approved” (with two year warranty) or complying EN 1028 and confirming to following features:

Fire pump shall be made of Gun Metal construction and shall be mounted at the rear of the vehicle driven by vehicle engine through a power take off (PTO) of suitable ratio to ensure maximum rated hydraulic efficiency of the pump. The pump shall be compact and of modular design having one suction inlet of not more than 140mm with round threads as per IS 902 with a removable strainer and four 63mm deliveries shall be fitted with instantaneous delivery coupling as per IS 901. The discharge manifold shall have inbuilt provision for monitor and tank-filling piping. The entire high pressure section of the pump shall be made of stainless steel.

The low/high pressure centrifugal impeller shall be made up of stainless steel and shall be dynamically balanced. The high pressure impeller of regenerative type shall be made up of stainless steel, both the low and high pressure impellers shall be mounted on a single stainless steel shaft. The pump shaft shall be held in heavy duty ball/roller bearings running in oil bath. The pump shall have a self-adjusting mechanical carbon seal.

The pump shall be capable of simultaneous high & low pressure operations and operation of high pressure shall be controlled by an easily accessible single changeover lever. There shall be four outlets for low pressure of not less than 63 mm size and two outlets for Hose reel.

The pump shall have an inbuilt pressure relief valve to control the high pressure within specified limits and a suitably sized thermal relief valve shall also be provided to ensure that the pump water temperature does not exceed 60° C while operating under closed discharge conditions.

The pump shall be able to perform the following duties-

- a) Low pressure- 4000 lpm @ 10 bar
when tested at a suction lift of 3.0 mtrs
at NTP conditions
- b) High pressure 400 lpm @ 40 bar

Deep lift test from 7 meter.

The primer shall be capable of priming from a depth of 7.0m(seven) after considering the allowances as per IS 950-1980 or latest within 24 seconds. The entire pump assembly with all its fittings and priming system shall be hydraulically tested at 21.0 bar for not less than five

minutes.

(All the above tests shall be carried out at either pump manufacturer's facility or finally on appliances)

6-PRIMER:

The Primer will be fully automatic.

7-Pump Priming System-

The pump shall be fitted with inbuilt twin piston reciprocating type priming system capable of priming the pump from 7 meters within 24 seconds when tested with the 125 mm suction hose at NTP conditions.

The entire priming system shall be constructed in stainless steel and deactivation shall be controlled directly by a pump pressure sensing device. Priming system driven by any external belts/chain is not acceptable. It shall be actuated by an electromagnetic clutch immersed in oil bath of pump's bearing housing. Arrangement shall be made to actuate the primer in a semi-automatic manner where in the primer will engage only when needed by pressing a button and will disengage automatically at a pump pressure of not more than 0.8 bar.

Note: Bidder must produce manufacturers (OEM) authorization letter along with Technical bid otherwise offer will be liable to reject. Details of pump such as its make and model with full technical features, supported with catalogues, brochures, drawing etc. shall be attached with the offer. The drawing showing the pump performance curve at low and high pressure shall be enclosed. Any deviation found in the given specifications the offer shall not be considered.

8-HIGH PRESSURE HOSE REEL:

Two high-pressure hose reels shall be provided at appropriate location of the vehicle to facilitate operation of the high-pressure section of the Fire Pump. The hose will be prevented from kink. Working pressure of hose will not be less than 100 bar and the hose diameter shall not be less than 20 mm. The high-pressure hose reel will hold 60 meter of hose in one length, terminating in a high-pressure AWG/Rosenbauer/Firefly or UL Listed make Jet / Fog gun. Plumbing between the pump and hose reel will have clean and unobstructed waterway of not less than 25 mm throughout without any restriction.

9- POWER TAKE OFF –

MOUNTING OF POWER TAKE OFF

Split shaft power take off shall be mounted at a suitable location on the chassis. The power take off shall be mounted preferably on a three

point type foundation using rubber /flexible mounts to isolate the PTO vibrations from the chassis and shall be designed to carry the unit weight and torque reactions, to constrain the PTO so as not to move significantly out of position, to allow chassis flexion. In no case welding/drilling shall be allowed on the chassis while mounting the PTO. Suitable sized U bolts may however be used for this purpose. The PTO alignment shall be in line with the existing drive line as far as possible. The new propeller shafts shall be free from welds and a spine and yoke arrangement shall be used. A general layout drawing of the PTO mounting shall be enclosed with the technical offer without which the tender shall not be considered. All the propeller shafts on the throughput side as well as at the pump drive side must be balanced to suitable standards.

10- POWER TAKE OFF UNIT:

The power take off unit shall be of either WEBSTER or FIREHAWK or Kozmaksan or UL Listed make. The PTO shall have a suitable input to output ratio so as to keep the engine rpm within the maximum torque range specified by the chassis/engine manufacturer. The PTO shall have inbuilt water cooling arrangement to enable the usage of PTO in harsh environments on continuous basis. The PTO unit shall have provision to judge the oil level reasonably and shall be fitted with a drain plug along with breather and oil filter cap. Oil seals used shall be of highest quality and rotary seals/water slingers shall be used over & above the oil seals to prevent dust/water entering into the oil seals. The gear shifting shall be achieved pneumatically with the aid of vehicle's air tank and an illuminated indication shall be given near the driver to indicate the completion of PTO engagement. A rope type flexible manual over ride for rear shifting shall also be provided near the driver's seat in case of loss of air pressure.

The design of the PTO shall be such that all the gears/oil seals/bearings etc. on the drive and driven side can be removed from the casing in situ (without taking the PTO down from the vehicle), this is particularly important to reduce the down time of the vehicle under maintenance.

Operation/workshop maintenance manual depicting all the spares and dismantling/ assembly procedure shall be supplied by the PTO manufacturer.

Torque clause:

The input torque of transmission (PTO) shall match with the provided chassis engine output torque. At the time of tendering for specific model PTO brouser should be provided for confirmation of

input torque of transmission (PTO).

11- COOLING SYSTEM: A heat exchanger tank made of brass plate having indirect cooling system of open circuit type to be conveniently provided in front of the engine. By pass water from the pump is fed to the cooling of the heat exchanger tank, pass through the cold and discharging to the waste. The tank should be provided filler cap and drain plug at the bottom.

12-MONITOR :-

A long range water monitor shall be fitted on the top of the tank and will be capable of delivering 1400 LPM@ 7kg/cm² having arrangement for both Water Jet and Water Spray. The monitor capable for traversing 360° in horizontal position and would be capable of elevation up to 85° and depression up to 15°. The monitor would be connected to high capacity fire pump. The monitor would be capable of throwing water at a distance not less than 40 mts in still air.

13- Multipurpose nozzle as per IS/CE/EN/NFPA or equivalent (No. 1)

1-Multipurpose nozzle shall have pistol grip (Anti-slip finger lock rubber moulded) made up of light aluminum alloy anodized for resistance with solid bore tip.

2-Ball valve operated flow control lever for shutting off.

3-Inlet with 63mm male inlet conforming to IS:903.

4-Selectable variable flow settings: 360-475-565-755-950 LPM@7 Kg/m²

5-Spray up to 120°

6-Weight not more than 3.0 kgs.

7-Jet throw Range from 20 meters at 360 LPM to 47 meters at 950 meters.

Items	Quantity	Accepted	Deviation
1- One number Ladder shall be provided (Fixed type) in the rear of the body to climb on top of the appliance.			
2- Double wall type lockers door shall be provided (over hinged type) with provision of automatic internal lighting arrangement with master switch in driver's cab. One locker capable of housing a Portable Pump and second locker shall be provided for accommodating minimum 5 number of delivery hose pipes of 30 meter length.			
3- Super structure of the entire body shall be made of 30x30x1.6 mm sq. M.S. tube. The complete			

superstructure should be electroplated with ZINC PLATING not less than 18 microns. Then epoxy painting on it must be done after the fabrication. Wood shall not be used in fabrication work. The roof of driver cabin cum crew compartment shall be covered, with 1/4 gauge M.S. sheet of **Tata/Zindal/SAIL and the papers Must be submitting the before inspection team.** with the thermo-cols packing 25 mm. thick and lining of 18 gauge aluminum sheet, outside body paneling shall be 18 gauge aluminum sheet and equipment box shall be made of 18 gauge aluminum sheet and flooring of the same shall be 10 gauge aluminum chequered plats.

4- Mudguards shall be of 16 gauges G.I. sheet.

5- The parts likely to come in contact with water shall be treated for anticorrosive treatment.

6- Wire mesh shall be provided in front of wind screen, officer's as well as driver's side window.

7- Warning signal

7.1 One Emergency Light Bar : It shall be of Mars Voice Series Blue & Amber grand make or equivalent (with siren and public address system) covered with wire mesh

8- ACCESSORIES

- | | | |
|----|---|----------|
| 1 | Portable Pump 275 LPM at 4 kgf/cm ² (As Per IS 942-1982 as detailed in annexure-A of this document) | 1 No. |
| 2 | Suction hose of rubber of 125 mm internal diameter in 2.5 m lengths (IS:3549-1983) fitted with 125 mm suction hose couplings (IS:902 -1992) | 4 Nos. |
| 3 | Suction wrenches for 125 mm suction coupling (IS:4643 -1984) | 2 |
| 4 | Suction strainer 125 mm size GM (IS:907 -1984) | 1 |
| 5 | Basket strainer (cylindrical type) (IS:3582 -1984)(CANE) | 1 |
| 6 | Dividing breeching with hand control instantaneous pattern 63 mm GM (IS:5131 -2002) | 1 |
| 7 | Ordinary Branch Pipe IS:903-1993, ISI Mark(G.M.) | 2 |
| 8 | a) Adopter for 125 mm suction female screw coupling and 63 mm male instantaneous (GM) | 1 |
| 9 | Dragon type torch (LED) | 1 |
| 10 | Rubber gloves (in case) (IS:4770 -1991) | 2 pairs |
| 11 | Hydraulic jack- not less than 12 ton capacity | 1 |
| 12 | First aid box for 10 person | 1 |
| 13 | Rope manila type 20 mm dia. Grade-1 ISI mark. 110 ft | 2 length |
| 14 | Aluminum Extension Ladder 10.5 meter Truss type | 1 |

(Simplex/King's make, CE/EN marked)

- 15 **NOTE: Gross Vehicle Weight (GVW) should not exceed beyond GVW of chassis. Wight certificate of fully laden vehicle should be provided at the time of final delivery.**

14

WORKMANSHIP AND FINISH:

14-1 All parts of the appliance shall be of good workmanship and shall have streamline finish. All mechanical and other parts shall be such that parts normally required to be replaced can be supplied and fit correctly.

14-2 The appliance will be painted fire red two coats confirming shade 536 of IS: 5-1978 and paint confirming to IS: 2932. Necessary anti corrosion and primer coat shall be applied before painting in order to achieve gloss finish. The under chassis shall be painted black.

14.3 The Stability Test of the appliance shall be done in such a manner that (when under fully equipped and loaded condition) if the surface on which the appliance stands is virtually lifted to either side at an angle of 27 and a half degree from the horizontal, the point at which overturning occurs is not passed.

14.4 Fire service insignia shall be painted on both side of the appliance and golden and black and lettering "Uttar Pradesh Fire Service" shall be done either side of appliance in gold and black paint.

15 MANUFACTURER GUARANTEE CERTIFICATE:

15.1 The manufacturer shall furnish a guarantee for the material Workmanship and performance of the appliance for a period of one year from the date of receipt of equipment.

15.2 The manufacture shall be responsible for replacing any part which may become unserviceable during the above period due to substandard material/ bad workmanship, free of all charges.

16.0 NOTE:

16.1 The manufacture may take note of the following points before submitting the tender document.

16.2 The vehicle shall be inspected in two stages-

- (a) After completion of basic frame, water tank ready but not mounted, structural work.
- (b) Acceptance test as per I.S. once the vehicle is ready in all respect before delivery.

16.3 The fabricated vehicle shall meet all the regulation with respect to motor vehicle act/RTO regulation enforced and in no case exceeds the manufacturer specification w.r.t. chassis.

16.4 The accepted vehicle shall be delivered at the U.P.F.S. fire stations by the vendor.

Annexure-A

SPECIFICATION OF PORTABLE PUMP

Particulars of Portable Pump

	Accepted	Deviation
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The Pump shall consist of a Single stage centrifugal pump with diesel engine having capacity of not less than 275 LPM at a pressure of 4 Kg/cm² fitted on tubular steel frame with anti-vibration pad. The complete unit shall be of light weight construction so that it can be easily carried by two men.

ENGINE:-

Single cylinder, air cooled vertical H.S.D, Kirloskar/Greaves/lombardini. Engine not less than 8HP (Industrial Application) having well designed hand starting device. Engine should be tested as per IS 1001: 1981 and should have BIS certification. Proof of the same is to be submitted in Technical Bid.

PUMP:-

The Pump casing (body), Impeller, Impeller ring, shall be made of good quality aluminium alloy and other material accordingly with Aluminum alloy pump body and hard anodized impeller. The Pump shall be provided with 75 mm suction inlet and 63 mm delivery coupling with caps.

PRIMER:- Primer can draw water from 4.5 Meters depth in 45 Seconds.

WEIGHT:- The total weight of the unit with full Fuel shall not exceed 80 Kgs tank.

EQUIPMENT:-

1. 75mm suction hose conforming to I.S.: 3549-1983 type 2 or latest in 4.5 meter length with 75 mm suction hose with coupling as per I.S.:902-1992 or latest.....2 No s.
2. Suction Wrenches universal conforming to I.S.: 4643-1984 or latest 2 No s.
3. Suction strainer 75 mm made of leaded tin Bronze conforming to IS:907-1984 or latest.....1 No
4. Basket strainer for item 2 conforming to I.S.: 3582- 1984 or latest1 No.
5. Suction Adaptor 75mm made of leaded tin Bronze.... 1 No.
6. Tool kit consisting of the following tools :-
 - (1) D.E .wrench setOne set
 - (2) Spanner adjustable 8” One No.
 - (3) Pliers One No.
 - (4) Screw Driver 6” & 12”One each
 - (5) HammerOne No.
 - (All made of Gedore or Taparia company)
 - (6) Spare Carbon sealFour No.

REMARK:

1. Test and trial at the workshop of manufacturer on their cost and risk.
2. Guarantee shall be for a period of 12 months. The supplier will remove all manufacturing or other defects detected in the machine equipment during the guarantee period of 12 months within 7 days at his

1. FIRE BELL: 250 mm. dia. Fire bell shall be mounted externally and shall be capable of being operated from the crew cabin the bell shall be as per IS-28-1984 hand operated type.
2. FOG LAMP: Bulb shall be 12V. 25 Watts-Two at front.
3. REVERSING LIGHT: 2 suitable situated to assist reversing (bulb shall be 12 V. 18 watts)
4. REVERSE PARKING CAMERA: Reverse parking camera shall be provided with 7" LCD display in Driver's cabin.
5. BLUE-AMBER (MARS VOICE SERIES – GRAND MAKE) LIGHT: situated on the head of the driving compartment. Bulb shall be 12 V, 18 watts-one.
6. SIREN: Battery operated on 12v.-one with sound of Ringing Bell
7. TRAFFICATORS: illustrated with indicating lights on any prominent position in driving compartment.
8. WIND SCREEN WIPER: To be provided.
9. TOOLS: All tools required for normal routine maintenance of the appliance and which are not included in the kit for the chassis.
10. SEARCH LIGHT: Adjustable to give floor of beam light mounted in a convenient position but capable of being readily disconnected and mounted on a tripod away from the appliance complete with tripod and with not less than 30 m. of T.R.S. cable on a reel mounted in the appliance.
11. INSPECTION LAMP: A protected type or wonder lead with plug. A socket shall be provided in the control panel in the drivers cabin for plugging in the lamp.
12. SPOT LIGHT: Adjustable mounted in a convenient position on the rear side of the driving compartment.
13. Cab, instrument panel and lockers shall be provided with lights.
14. GLASS PROTECTION SCREEN: A detachable welded wire frame shall be provided for front wind screen and cabin windows as provided in the police van.

NOTE:- one locker should be provided to keep all the above accessories and 10 numbers of delivery hose pipes safety

SPECIAL TERMS AND CONDITION

1. **Validity of bid**: Bid should remain valid for a period of 180 days from the date of opening of financial bid. Validity of bid can be extended with mutual consent.
2. **F.O.R.**: Various destinations in U.P.
- 3.(a) Capacity of Fabrication of WATER BOWSER on the chassis per month must be quoted.
- 3.(b) **Delivery period** : The successful bidder will have to complete and deliver fabricated vehicles within 100 days from the date of issue of orders for collecting the chassis. This includes maximum 10 days for collection of chassis. The schedule for collection of chassis and inspections will be as below :-
 - (i) **Collection of chassis**- 10 day from date of issue of order for collection of chassis.
 - (ii) Inspection of prototype vehicle and first stage inspection of other vehicle within 30 days of collection of chassis.
 - (iii) Second stage of inspection within 60 days of collection of chassis.

(iv) Third and final inspection before 90 days of collection of chassis.

3.(c) In case L-1 is found to have capacity constraints to complete the fabrication work within stipulated time DG/ADG Fire Service reserves the right to offer the contract to L-2 and L-3 at the rate of L-1 with their consent in a ratio of L-1 : L-2 : L-3 :: 55 : 25 : 20 percent.

4.1 Inspection:

- (a) A high level committee may inspect the work/Establishment of the bidders before the finalization of the contract for evaluation/ assessment of capacity of bidders.
- (b) After award of the contract, inspection will be done by Fire Service Head Quarter Lucknow at supplier's workshop. Inspection will be done in three stages:
 - (1) After fabrication of superstructure and before installation of pump/pto etc.,
 - (2) After fabrication of superstructure and installation of pump/pto etc.,
 - (3) Before delivery.
- (C) The bidders must have complete testing & trial arrangement regarding fabrication of WATER BOWSER with them. If third party inspection is required the expenses will be born by the supplier. The bidder must have testing facility e.g. deep lift test , flow test (v-notch)and tilting test, gradian test facility etc.
- (d) The bidders must describe in technical bid about their past performance for last five years related to fabrication /supply of fire fighting vehicle with documentary proof.
- (e) Insurance against Chassis: All Chassis shall be comprehensively insured (within 10 days from the date of award of contract) by the fabricator/ vender in favor of 'U.P. Fire Service Head Quarter, Lucknow' for full compensation in case of loss by theft and/ or fire or any other way whatsoever for the period after they have been handed over to the fabricator/ vender and till we take possession of these Chassis as water Tender.
- (f) Order for handing over the chassis to the successful bidder will be issued by the Fire Service Headquarters, Lucknow after following requirement is fulfilled by the bidder:-
 - (i) Contract Agreement is signed.
 - (ii) Performance Security is submitted.
 - (iii) Papers of comprehensive insurance cover of the chassis is submitted to Fire Service Headquarters, Lucknow.

- (iv) List of Drivers with their name, address, two attested photographs, mobile no., copy of Driving Licence, authorization letter with their attested signature is submitted to the Fire Service Headquarters, Lucknow.
- (g) No drilling welding and cutting of the chassis shall be allowed.
- (j) The proto type vehicle shall have to be constructed as per delivery schedule strictly conforming to the specifications and drawing approved by the indenting officer, failing which the advance security money of the firm shall be forfeited.

4.2 Performance Security:

The successful bidders shall have to submit a performance security in shape of Bank Guarantee/ F.D.R., for 10% of the contract value, within 10 days from the date of award of contract, duly pledged to the Director/ Addl. Director General of Police, Fire Service Headquarters, U.P., Lucknow' failing which their tender will be rejected and contract will be awarded to next bidder. The performance security should remain valid till the expiry of the contract.

4.3 Penalty:

Penalty of Rs.500/- (five hundred only) per day per body will be charged for any delay in completion of work or handing over the completed body beyond the stipulated period.

4.4 Warranty:

(i) Warranty shall be for a period of 24 months from the date of acceptance of WATER BOWSER by competent authority.

(ii) The bidders shall have to remove all manufacturing/ operational or any other defects/ problems detected in the equipment during the 24 months warranty period within 07 days at their risk and cost, at the station where the machine/ equipment is stationed.

(iii) Bidder shall furnish rates for 05 (five) years of comprehensive annual maintenance contract (AMC) after the expiry of warranty period.

5. Miscellaneous:

(i) Printed leaflet and detailed specifications should be submitted by the bidders along with the technical bid. The details of past supply of tendered items, if any, should also be mentioned.

(ii) In all dispute concerning specification/quality of fabrication and other technical issues, the decision of technical committee will be final.

(iii) Delivery period may be extended beyond 100 day from the date of order for collection of chassis on reasonable ground by 'Director General./Addl. Director General of Fire Service'.

(R.K. Singh)
Joint Director,
Fire Service Hqrs,
Lucknow.



TENDER NO -XXII-FS(T)-217 -2016

DATE : AUGUST 11 , 2016

Specifications

Fire Fighting Helmet-ISI Mark. (NO. 1154)

Specification	Accept	Deviation
Non- metal Fire Fighting Helmet for firemen and civil defense personnel Bearing I.S. 2745-1983 Mark(Second revision) or latest		

(R. K. SINGH)
Joint Director,
Fire Service Headquarter
U.P. LUCKNOW



UTTAR PRADESH FIRE SERVICE HEADQUARTER

4th & 5th FLOOR, INDIRA BHAWAN, ASHOK MARG, LUCKNOW

TENDER NO –XXII-FS(T)- 219 -2016

DATE : AUGUST 11 , 2016

Specification of Foam Concentrate Compound (AFFF) 3% - 2500Ltr.

Specification

Accept Deviation

(A)Foam Concentrate Compound (AFFF) 3% for Producing mechanical foam for fire fighting I.S.I. Marked. I.S.:4989-2006 With ISI Mark)

(B)Polyethylene Container for Foam Compound (Capacity 20Liters)As

Per

I.S. No.7959-1987 OR Latest.Polyethylene Container for Foam Compound.

Guarantee/Warranty – One year

SPECIAL TERMS AND CONDITION:-

- 1- Validity of bid: Bid should remain valid for a period of 180 days from the date of opening of financial bid. Validity of bid can be extended with mutual consent.
2. F.O.R.: destinations in U.P.

3.1 Inspection:

(a) A high level committee may inspect the works/ establishment of the bidders before the finalization of the contract for evaluation/ assessment of bidders.

(b) After award of the contract, inspection may be done by FSHQ Lucknow at supplier's workshop. All the expenses and cost of the inspection including travel, boarding and lodging as per entitlement etc. will be borne by the supplier

© The bidders must describe in technical bid about their past performance for last five years related to supply of **Foam Concentrate Compound (AFFF) 3%** with documentary proof.

3.2 Supply:-

1. Performance Security: The successful bidders shall have to submit a performance security in shape of Bank Guarantee/ F.D.R., for 10% of the contract value, within 07 days from the date of award of contract, duly pledged to the '**Director/ Addl. Director General of Police**, Fire Service Headquarters, U.P., Lucknow' failing which their tender will be rejected and contract will be awarded to next bidder. The performance security should remain valid till the expiry of the contract.

2. Delivery period: Delivery of equipment shall be made within 45 days for imported equipment and 30 days for Indigenous from the date of purchase agreement.

- 3. Penalty** of Rs.100/- (one hundred only)per day per equipment will be charged for any delay in completion of work or handing over the completed equipment beyond the stipulated period.
- 4. Warranty:** Warranty shall be for a period of **60** months from the date of acceptance of equipment by competent authority.
- 5. Bidder shall furnish rates for 05 (five) years of comprehensive annual maintenance contract (AMC) after the expiry of warranty period.**
6. The bidders shall have to remove all manufacturing/operational or any other defects/problems detected in the foam compound during the **60** months warranty period within 07 days at their risk and cost at the station where the foam compound is stored.
7. Printed leaflet and detailed specifications should be submitted by the bidders along with the technical bid. The details of past supply of tendered items, if any, should also be mentioned.
8. The decision of technical committee will be final.
- 9. Delivery period** may be extended on reasonable ground by 'Director General,/Addl. Director_General of Fire Service .

(R.K. SINGH)
Joint Director,
Fire Service Headquarter
U.P. LUCKNOW.



UTTAR PRADESH FIRE SERVICE HEADQUARTER

4th & 5th FLOOR, INDIRA BHAWAN, ASHOK MARG, LUCKNOW

TENDER NO:XXII-FS(T)- 220 -2016

DATE : AUGUST 11 , 2016

Specification of multipurpose nozzle -115 Nos.

Specification	Accept	Deviati on
1-Multipurpose nozzle shall have pistol grip(Anti-slip finger lock rubber moulded) made up of light weight aluminum alloy anodized for resistance with solid bore tip as per IS/CE/EN/NFPA or equivalent.		
2-Ball valve operated flow control lever for shutting off.		
3-inlet with 63mm male inlet conforming to IS:903.		
4-Selectable variable flow settings: 360-475-565-755-950 LPM @7 Kg/m ²		
5-spray up to 120°.		
6- Weight not more than 3.0 Kgs.		
7-Jet throw Range from 20 meters at 360 LPM to 47 meters at 950 meters.		

SPECIAL TERMS AND CONDITION:-

1. Validity of bid: Bid should remain valid for a period of 180 days from the date of opening of financial bid. Validity of bid can be extended with mutual consent.
2. F.O.R.: destinations in U.P.

3.1 Inspection:

- (a) A high level committee may inspect the works/ establishment of the bidders before the finalization of the contract for evaluation/ assessment of bidders.
- (b) After award of the contract, inspection will be done by indenting department at supplier's workshop. All the expenses and cost of the inspection including travel, boarding and lodging as per entitlement etc. will be borne by the supplier.
- © The bidders must describe in technical bid about their past performance for last five years related to supply of multipurpose nozzle with documentary proof.

3.2 Supply:-

1. **Performance Security:** The successful bidders shall have to submit a performance security in shape of Bank Guarantee/ F.D.R., for 10% of the contract value, within 07 days from the date of award of contract, duly pledged to the "Director/ Addl Director General of Police, Fire Service Headquarters, U.P., Lucknow" failing which their tender will be rejected and contract will be awarded to next bidder. The performance security should remain valid till the expiry of the contract.
2. **Delivery period:** Delivery of equipment shall be made within 45 days for imported equipment and 30 days for Indigenous from the date of purchase agreement.
3. **Penalty** of Rs.100/- (one hundred only) per day per equipment will be charged for any delay in completion of work or handing over the completed equipment beyond the stipulated period.
4. **Warranty:** Warranty shall be for a period of 12 months from the date of acceptance of equipment by competent authority.
5. bidder shall furnish rates for 05 (five) years of comprehensive annual maintenance contract (AMC) after the expiry of warranty period.
6. The bidders shall have to remove all manufacturing/ operational or any other defects/ problems detected in the equipment during the 12 months warranty period within 07 days at their risk and cost, at the station where the machine/ equipment is stationed.
7. Printed leaflet and detailed specifications should be submitted by the bidders along with the technical bid. The details of past supply of tendered items, if any, should also be mentioned.
8. The decision of technical committee will be final.

9. Delivery period may be extended on reasonable ground by 'Director General,/Addl. Director_General of Fire Service .

(R.K. SINGH)
Joint Director,
Fire Service Headquarter
U.P. LUCKNOW.



UTTAR PRADESH FIRE SERVICE HEADQUARTER

4th & 5th FLOOR, INDIRA BHAWAN, ASHOK MARG, LUCKNOW

TENDER NO –XXII-FS(T)-221 -2016

DATE : AUGUST 11 , 2016

Specification of Rechargeable Long Range LED Search Light- 102 Nos.

Specification	Accept	Deviation
1-Rechargeable not less than 5 watt long range LED search light with variable light modes with SOS signal.		
2- With full glow time not less than three hours. High power spot light should not less than 300 meters. With Low glow time not less Six hours.		
3- AC and DC charger with car plug adapter.		
4- Battery shall not be less than 4 Ah , 6 volt and shall have battery status indicator.		
5. Made from high impact ABS Thermoplastic housing with rubberized impact bumpers and scratched resistant lens cushion grip handle, CE approved.		

SPECIAL TERMS AND CONDITION:-

1. Validity of bid: Bid should remain valid for a period of 180 days from the date of opening of financial bid. Validity of bid can be extended with mutual consent.
2. F.O.R.: destinations in U.P.

3.1 Inspection:

- (a) A high level committee may inspect the works/ establishment of the bidders before the finalization of the contract for evaluation/ assessment of bidders.
 - (b) After award of the contract, inspection will be done by indenting department at supplier's workshop. All the expenses and cost of the inspection including travel, boarding and lodging as per entitlement etc. will be borne by the supplier.
- © The bidders must describe in technical bid about their past performance for last five years related to supply of Rechargeable Long Range LED Search Light with documentary proof.

3.2 Supply:

- 1. Performance Security:** The successful bidders shall have to submit a performance security in shape of Bank Guarantee/ F.D.R., for 10% of the contract value, within 07 days from the date of award of contract, duly pledged to the ‘ **Director/ Addl. Director General of Police**, Fire Service Headquarters, U.P., Lucknow’ failing which their tender will be rejected and contract will be awarded to next bidder. The performance security should remain valid till the expiry of the contract.
- 2. Delivery period:** Delivery of equipment shall be made within 45 days for imported equipment and 30 days for Indigenous from the date of purchase agreement.
- 3. Penalty** of Rs.100/- (one hundred only)per day per equipment will be charged for any delay in completion of work or handing over the completed equipment beyond the stipulated period.
- 4. Warranty:** Warranty shall be for a period of 12 months from the date of acceptance of equipment by competent authority.
- 5. bidder shall furnish rates for 05 (five) years of comprehensive annual maintenance contract (AMC) after the expiry of warranty period.**
- 6.The bidders shall have to remove all manufacturing/ operational or any other defects/ problems detected in the equipment during the 12 months warranty period within 07 days at their risk and cost, at the station where the machine/ equipment is stationed.
7. Printed leaflet and detailed specifications should be submitted by the bidders along with the technical bid. The details of past supply of tendered items, if any, should also be mentioned.
8. The decision of technical committee will be final.
- 9. Delivery period** may be extended on reasonable ground by ‘Director General,/Addl. Director_General of Fire Service .

(R.K. SINGH)
Joint Director,
Fire Service Headquarter
U.P. LUCKNOW.



UTTAR PRADESH FIRE SERVICE HEADQUARTER

4th & 5th FLOOR, INDIRA BHAWAN, ASHOK MARG, LUCKNOW

TENDER NO:XXII-FS(T)- 222 -2016

DATE : AUGUST 11 , 2016

SPECIFICATON OF Foam Making Branch FB 5X -47 Nos.

Specification	Accept	Deviation
Foam Making Branch FB 5X - IS: 2097:1983 OR Latest		

SPECIAL TERMS AND CONDITION:-

- 1- Validity of bid: Bid should remain valid for a period of 180 days from the date of opening of financial bid. Validity of bid can be extended with mutual consent.
2. F.O.R.: destinations in U.P.

3.1 Inspection:

- (a) A high level committee may inspect the works/ establishment of the bidders before the finalization of the contract for evaluation/ assessment of bidders.
- (b) After award of the contract, inspection may be done by FSHQ Lucknow at supplier's workshop. All the expenses and cost of the inspection including travel, boarding and lodging as per entitlement etc. will be borne by the supplier .

© The bidders must describe in technical bid about their past performance for last five years related to supply of Foam Making Branch FB 5X with documentary proof.

3.2 Supply:-

- 1. Performance Security:** The successful bidders shall have to submit a performance security in shape of Bank Guarantee/ F.D.R., for 10% of the contract value, within 07 days from the date of award of contract, duly pledged to the 'Director/'Addl. Director General of Police , Fire Service Headquarters, U.P., Lucknow' failing which their tender will be rejected and contract will be awarded to next bidder. The performance security should remain valid till the expiry of the contract.
- 2. Delivery period:** Delivery of equipment shall be made within 45 days for imported equipment and 30 days for Indigenous from the date of purchase agreement.
- 3. Penalty** of Rs.100/- (one hundred only)per day per equipment will be charged for any delay in completion of work or handing over the completed equipment beyond the stipulated period.
- 4. Warranty:** Warranty shall be for a period of 12 months from the date of acceptance of equipment by competent authority.
- 5. bidder shall furnish rates for 05 (five) years of comprehensive annual maintenance contract (AMC) after the expiry of warranty period.**
- 6.The bidders shall have to remove all manufacturing/ operational or any other defects/ problems detected in the equipment during the 12 months warranty period within 07 days at their risk and cost, at the station where the machine/ equipment is stationed.
7. Printed leaflet and detailed specifications should be submitted by the bidders along with the technical bid. The details of past supply of tendered items, if any, should also be mentioned.
8. The decision of technical committee will be final.
- 9. Delivery period** may be extended on reasonable ground by 'Director General, /Addl. Director_General of Fire Service .

(R.K. SINGH)
Joint Director,
Fire Service Headquarter
U.P. LUCKNOW.



UTTAR PRADESH FIRE SERVICE HEADQUARTER

4th & 5th FLOOR, INDIRA BHAWAN, ASHOK MARG, LUCKNOW

TENDER NO-XXII-FS(T)- 223 -2016

DATE : AUGUST 11 , 2016

SPECIFICATION OF CHEMICAL AND GAS TIGHT SUIT LEVEL – A - 10 Nos.

Accepted Deviation
s

Chemical and Gas Tight Suit

- 1- Level Level-A gas tight suit
- 2- Suitability Suitable to be used with Breathing Apparatus Set
- 3- Resistance Resistant against a wide range of chemicals like acids,
Gaseous flames, liquids etc.
- 4- Conformity EN 943-2: 2002 standard or Equivalent (NFPA:1991 Standard). **all suit shall be leak -tightness tested EN464 prior to dispatch.**
- 5- Certificate Copy of certificates showing conformity to stated standard

SPECIAL TERMS AND CONDITION:-

1. **Validity of bid:** Bid should remain valid for a period of 180 days from the date of opening of financial bid. Validity of bid can be extended with mutual consent.

2. F.O.R.: Various destinations in U.P.

3.1 Inspection:

- (a) A high level committee may inspect the works/ establishment of the bidders before the finalization of the contract for evaluation/ assessment of bidders.
- (b) After award of the contract, inspection may be done by FSHQ Lucknow at supplier's workshop. All the expenses and cost of the inspection including travel, boarding and lodging as per entitlement etc. will be borne by the supplier.
- (c) The bidders must describe in technical bid about their past performance for last five years related to supply of **CHEMICAL AND GAS TIGHT SUIT** with documentary proof.

3.2 Supply:-

1. **Performance Security:** The successful bidders shall have to submit a performance security in shape of Bank Guarantee/ F.D.R., for 10% of the contract value, within 07 days from the date of award of contract, duly pledged to the **Addl/Director Director General of Police, Fire Service Headquarters, U.P., Lucknow** failing which their tender will be rejected and contract will be awarded to next bidder. The performance security should remain valid till the expiry of the contract.
2. **Delivery period:** Delivery of equipment shall be made within 45 days for imported equipment and 30 days for Indigenous from the date of purchase agreement.
3. **Penalty** of Rs.100/- (One hundred only) per day per **CHEMICAL AND GAS TIGHT SUIT** will be charged for any delay in completion of work or handing over the completed equipment beyond the stipulated period.

4. **Warranty** : Warranty shall be for a period of 12 months from the date of acceptance of equipment by competent authority.
5. bidder shall furnish rates for 05 (five) years of comprehensive annual maintenance contract (AMC) after the expiry of warranty period.
6. The bidders shall have to remove all manufacturing/ operational or any other defects/ problems detected in the equipment during the 12 months warranty period within 07 days at their risk and cost, at the station where the machine/ equipment is stationed.
7. Printed leaflet and detailed specifications should be submitted by the bidders along with the technical bid. The details of past supply of tendered items, if any, should also be mentioned.
8. The decision of technical committee will be final.
9. **Delivery period** may be extended on reasonable ground by 'Director General,/Addl. Director General of Fire Service .
10. The onus of liability lies on the bidder to attach an updated copy of any standard like BIS /Europion etc., mentioned in the tender document.

(R.K. Singh)
Joint Director,
Fire Service Hqrs,
Lucknow.



UTTAR PRADESH FIRE SERVICE HEADQUARTER

4th & 5th FLOOR, INDIRA BHAWAN, ASHOK
MARG, LUCKNOW

TENDER NO –XXII-FS(T)- 224 -2016

DATE : AUGUST 11 , 2016

Manila Rope 20 mm Diameter grade -1 791 Kg.

Specification of Manila Rope

Specification

Accept Deviation

Manila Rope 20 mm Diameter grade -1, I.S. No. 1084-2005 (ISI

Marked)

SPECIAL TERMS AND CONDITION:-

1. **Validity of bid:** Bid should remain valid for a period of 180 days from the date of opening of financial bid. Validity of bid can be extended with mutual consent.
2. **F.O.R.:** Various destinations in U.P.
- 3.1 **Inspection:**
 - (a) A high level committee may inspect the works/ establishment of the bidders before the finalization of the contract for evaluation/ assessment of bidders.
 - (b) After award of the contract, inspection may be done by FSHQ Lucknow at supplier's workshop. All the expenses and cost of the inspection including travel, boarding and lodging as per entitlement etc. will be borne by the supplier.
 - (c) The bidders must have complete testing & trial arrangement regarding supply of items with them. If third party inspection is required the expenses will be born by the supplier the bidder must have testing facility.

(d) The bidders must describe in technical bid about their past performance for last five years related to supply of item with documentary proof.

3.2 Supply:

1. Performance Security: The successful bidders shall have to submit a performance security in shape of Bank Guarantee/ F.D.R., for 10% of the contract value, within 7 days from the date of award of contract, duly pledged to the '**Director/Addl. Director General of Police**, Fire Service Headquarters, U.P., Lucknow' failing which their tender will be rejected and contract will be awarded to next bidder. The performance security should remain valid till the expiry of the contract.

2. Delivery period: Delivery of equipment shall be made within 45 days for imported equipment and 30 days for Indigenous from the date of purchase agreement.

3. Penalty of Rs.100/- (one hundred only) per day per item will be charged for any delay in completion of work or handing over the completed item beyond the stipulated period.

4. Warranty: Warranty shall be for a period of 12 months from the date of acceptance of equipment by competent authority.

5. The bidders shall have to remove all manufacturing/operational or any other defects/problems detected in the item during the 12 months warranty period within 07 days at their risk and cost, at the station where the item is stationed.

6. Bidder shall furnish rates for 05 (five) years of comprehensive annual maintenance contract (AMC) after the expiry of warranty period.

7. Printed leaflet and detailed specifications should be submitted by the bidders along with the technical bid. The details of past supply of tendered items, if any, should also be mentioned.

8. The decision of technical committee will be final.

9. A sample piece shall be supplied with technical offer.

10. Delivery period may be extended on reasonable ground by 'Director General,/Addl.

Director

General of Fire Service .

(R.K SINGH)
Joint Director,
Fire Service Headquarter
U.P. LUCKNOW



UTTAR PRADESH FIRE SERVICE HEADQUARTER

4th & 5th FLOOR, INDIRA BHAWAN, ASHOK MARG,
LUCKNOW

TENDER NO –XXII-FS(T)-225 -2016

DATE : AUGUST 11 , 2016

SPECIFICATION OF Rescue Cluster(Hook) (77 Nos.)

Specification —
Hook Cluster For upto 100kg work load.

Accept Deviation

(R.K. SINGH)
Joint Director,
Fire Service Headquarter
U.P. LUCKNOW.



UTTAR PRADESH FIRE SERVICE HEADQUARTER

4th & 5th FLOOR, INDIRA BHAWAN, ASHOK MARG, LUCKNOW

Specification of Bolt Cutter Size: Length not less than 36” (64 Nos..)

Specification	Accept	Deviation
CONFIRMING TO IS 5200:1998-900		
Size: Length not less than 36”		
Cutting jaws: made of high tensile solid alloy steel , especially heat treated with center cut heads.		
Handle : With sufficient grip of rubber		
Application : Suitable for cutting hard material viz bolt, iron rod of 10 to 14mm diameter.		

SPECIAL TERMS AND CONDITION:-

1. Validity of bid: Bid should remain valid for a period of 180 days from the date of opening of financial bid.

Validity of bid can be extended with mutual consent.

2. F.O.R.: Various destinations in U.P.

3. Inspection:

(a) A high level committee may inspect the works/ establishment of the bidders before the finalization of the contract for evaluation/ assessment of bidders.

(b) After award of the contract, inspection may be done by FSHQ Lucknow at supplier's workshop. All the expenses and cost of the inspection including travel, boarding and lodging as per entitlement etc. will be borne by the supplier.

(c) The bidders must have complete testing & trial arrangement regarding supply of items with them. If third party inspection is required the expenses will be born by the supplier the bidder must have testing facility.

(d) The bidders must describe in technical bid about their past performance for last five years related to supply of item with documentary proof.

4. Supply:-

1. Performance Security: The successful bidders shall have to submit a performance security in shape of

Bank Guarantee/ F.D.R., for 10% of the contract value, within 7 days from the date of award of contract,

duly pledged to the '**Director/Addl. Director General of Police**, Fire Service Headquarters, U.P., Lucknow'

failing which their tender will be rejected and contract will be awarded to next bidder. The performance

security should remain valid till the expiry of the contract.

2.Delivery period: Delivery of equipment shall be made within 45 days for imported equipment and 30 days for Indigenous from the date of purchase agreement.

3. Penalty of Rs.100/- (one hundred only) per day per item will be charged for any delay in completion of work or handing over the completed item beyond the stipulated period.

4.Warranty: Warranty shall be for a period of 12 months from the date of acceptance of equipment by competent authority.

5. Bidder shall furnish rates for 05 (five) years of comprehensive annual maintenance contract (AMC) after the expiry of warranty period.

6. The bidders shall have to remove all manufacturing/operational or any other defects/problems detected in the item during the 12 months warranty period within 07 days at their risk and cost, at the station where the item is stationed.

7. Printed leaflet and detailed specifications should be submitted by the bidders along with the technical bid. The details of past supply of tendered items, if any, should also be mentioned.

8. The decision of technical committee will be final.

9. A sample piece shall be supplied with technical offer.

10. Delivery period may be extended on reasonable ground by 'Director General,/Addl. Director General of Fire Service .

(R.K. SINGH)

Joint Director,

Fire Service Headquarter

U.P. LUCKNOW.



UTTAR PRADESH FIRE SERVICE HEADQUARTER

4th & 5th FLOOR, INDIRA BHAWAN, ASHOK MARG, LUCKNOW

TENDER NO: XXII-FS(T)-228 -2016

DATE : AUGUST 11 ,2016

Specification of Fire Resistant Over All 1154 Pairs

Specification __

Acceptance
Deviation
t

The single layer Nomex(R) fire resistance overall garments will have the following broad Specification:-

The garment should be as per NFPA-2112 AND EN-11612, Certified from Govt. approved lab with below mentioned standard and specification:-

- The composition of the fabric would have 93% Meta Aramid (Nomex(R)), 5% para aramid (Kevlar (R)), and 2% P-140 Antistatic fiber .
- The garment should be made of Nomex IIIA 220 GSM fabric.
- The fabric should pass the vertical flame test result as per FTMS 191A, 5903.1
- The fabric should be inherently flame Retardant and not coated/ Treated for Fire Retardant Properties.
- The fabric should have very good static charge dissipative properties (antistatic Properties) and this should be effective even at low humidity levels as low as 20% relative humidity.
- The accessories used for the garments like zip, threads, reflective etc.

should be fire Retardant. The inside lining of the pockets should also be made of Nomex IIIA fabric and bidder need to furnish test certification of each and every trim measure.

- g) The garment should be able to withstand at least 125 wash cycles without losing the fire Retardant properties.
- h) The staple fiber used to make the fabric should have the following properties of Fiber D tex: 1.7 D Tex, Break Tenacity: CN/Tex: 31, Break Elongation %: 30, Fiber Length, mm:50.
- i) The fabric would be certified as per EN ISO11612:, wherein it is tested as per the Following.
 - 1) Limited Flame Spread (Code letter A1) ,(As per Test method ISO15025:2000).
 - 2) Convective Heat (Code letter B) (As pretest method ISO9151:1995).
 - 3) Radiant Heat (Code letter C) (As per test method ISO 6942:2002 method B).
 - 4) Contact Heat (Code letter F) (As per test method ISO 12127:1996)
- J) Fabric will treated and finished with OWR finishes up to 20 washes with standard : IS 390-1975 with minimum requirement of 90.
- K) The bidder has to furnish the composite mill certificate and certification from fiber manufacture as well and genuinity certification and well as authorization letter from mill as well as fiber supplier.
- L) Bidder has to furnish NFPA 2112 Certification from recognized labotry from Indian or across globe.
- M) Stitching thread should be Govt. approved lab.
- N) Florescent strip 3” wide at both arms and knee level and at waist.
- O) Pockets: i) One pen pocket
 - ii) Oone wireless pocket
 - iii) One pocket of size 6”X4” above chest level
 - iv) Fire Service logo on above pocket size 6”X4”.
- P) At back side semi circle for rank strip of about 2” wide.
- Q) Colour of garments:
 - i) Upper waist colour orange
 - ii) Lower waist colour blue.

SPECIAL TERMS AND CONDITION:-

- 1- **Validity of bid:** Bid should remain valid for a period of 180 days from the date of opening of financial bid. Validity of bid can be extended with mutual consent.
- 2. F.O.R.: Various destinations in U.P.

3.1 Inspection:

- (a) A high level committee may inspect the works/ establishment of the bidders before the finalization of the contract for evaluation/ assessment of bidders .
- (b) After award of the contract, inspection may be done by FSHQ Lucknow at supplier’s workshop. All the expenses and cost of the inspection including travel, boarding and lodging as per entitlement etc. will be borne by the supplier.

(c) The bidders must have complete testing & trial arrangement regarding supply of items. If third party inspection is required the expenses will be born by the supplier the bidder must have testing facility.

(d) The bidders must describe in technical bid about their past performance for last five years related to supply of item with documentary proof.

3.2 Supply:-

1. Performance Security: The successful bidders shall have to submit a performance security in shape of Bank Guarantee/ F.D.R., for 10% of the contract value, within 3 days from the date of award of contract, duly pledged to the the '**Director/Addl. Director General of Police,** Fire Service Headquarters, U.P., Lucknow' failing which their tender will be rejected and contract will be awarded to next bidder. The performance security should remain valid till the expiry of the contract.

2.Delivery period: Delivery of equipment shall be made within 45 days for imported equipment and 30 days for Indigenous from the date of purchase agreement.

3.Penalty of Rs.100/- (one hundred only) per day per equipment will be charged for any delay in completion of work or handing over the completed equipment beyond the stipulated period.

4.Warranty : Warranty shall be for a period of 12 months from the date of acceptance of equipment by competent authority.

5. Bidder shall furnish rates for 05 (five) years of comprehensive annual maintenance contract (AMC) after the expiry of warranty period.

6.The bidders shall have to remove all manufacturing/ operational or any other defects/ problems detected in the equipment during the 12 months warranty period within 07 days at their risk and cost, at the station where the machine/ equipment is stationed.

7.Printed leaflet and detailed specifications should be submitted by the bidders along with the technical bid. The details of past supply of tendered items, if any, should also be mentioned.

8.The decision of technical committee will be final.

9.Sample of the items must be supplied with technical offer.

10.Delivery period may be extended on reasonable ground by 'Director General,/Addl. Director General of Fire Service .

11.The onus of liability lies on the bidder to attatch an updated copy of any standard like BIS /Europion etc., mentioned in the tender document.

(R.K. SINGH)
Joint Director,
Fire Service Headquarter
U.P. LUCKNOW.



UTTAR PRADESH FIRE SERVICE HEADQUARTER

4th & 5th FLOOR, INDIRA BHAWAN, ASHOK MARG, LUCKNOW

TENDER NO: XXII-FS(T)-218 -2016

DATE : AUGUST 11 ,2016

SPECIFICATION FOR FIREMEN'S GUM BOOT 1154 Pairs

Specification	Accept	Deviation
1. SCOPE This specification .Specifies requirements for lined industrial vulcanized- rubber knee 2. height boots.		
2. DESIGN REQUIREMENTS 2.1 Boot upper/Lining a. Black rubber compound with yellow strips in the upper edge. b. Two handles (Black colour) are incorporated in the top for quick fit. c. Lining -100% fire retardant textile		

Specification	Accept	Deviation
2.2 Sole thickness Requirement of thickness should be as per IS: 15298 (part 2).		
2.3 Steel Toe cap Steel Toe Cap shall be according to EN ISO 20345		
2.4 The boots shall not weigh more than 2.5 kg. per pair for size 8. This mass may increase & decrease cumulatively by 125 g for each size.		
2.5 Reflective material/tape of silver colour of min width of 20mm each shall be applied from the back of the upper extending to the out sides of the boot at ankle height to increase the amount of passive Fire protection.		

3. REQUIREMENT

3.1 Metal

components

No metal component used shall be of aluminium, magnesium or titanium; neither shall any alloy containing one or more of these constituents be used unless both the total content of these three constituents does not exceed 15 % by mass, and the content of magnesium and titanium together does not exceed 6 %by mass.

Specification —
**3.2 Breaking force of the
boot upper lining**

Accept

Deviation

Woven material
Knitted fabric

**3.3 Resistance to flexing
of boot upper after
ageing (as per ISO-
2023)**

Number of flexes
Hand Built Type
110 000

**3.4 Tensile strength and
elongation at break
of Uotsole and heel
(as oer ISO-2023)**

Tensile St at break
(min.)MPa
8.0

**3.5 Changes in value of
tensile strength and
elongation at break
after ageing of
Outsole and heel (as
per ISO-2023)
Ageing treatment**

168hat70°C+ -1 "Gin - 30 %
to accordance with + 20 % of
+ 10 % of , ISO 188 air-oven
met.hod

**3.5 Compression set of
heel (as per ISO-
2023)**

When tested in accordance
with ISO 815 at70 uC+l"C
for 24 h using tubricated
small test pieces samples
taken from the heel shall
have a compression set of
not more than 50 %.

7. Boot Height

325 to 350 mm to be
measured at the back
from the heel seat.

**3.8 Sole Abrasion (as
per ISI5298 part1)**

Specification	Accept	Deviation
<p>Abrasion resistance shall not be more than 150mm³.</p> <p>3.9 Sole Flexing (as per ISI5298 part1)</p> <p>Sole Flexing (as per 1815298 part1) Flexing resistance of sole, The cut growth shall not be more than 4 mm after 30000 cycles.</p> <p>3.10 Tear resistance of sole, (as per ISI5298 part1)</p> <p>Tear resistance of sole shall not be less than 8KN/m .</p> <p>3.11 Impact & compression test on Toe Cap (as per 1S-1S298part1)</p> <p>When safety boots are tested in accordance with the method described in IS 15298 part2 / 2011 vide clause 5.3.2.3 at an impact energy of at least 200 J, the clearance under the toe cap at the moment of impact shall be in accordance with Table 6 of IS 15298- part 2/2011.</p> <p>When safety boots are tested in accordance with IS 15298 part - 2 / 2011, vide clause 5.3.2.4, the clearance under the toe cap at a compression load of 15 KN shall be in accordance with table 6 of clause 5.3.2.4 of IS</p>		

3.12 Intemallength

oftoe cap

For safety / protective boots, intemallength of the toe cap shall meet clause 5.3.2.2 of IS 15298 - part 2/ 2011 and will meetTable 5 of the said specification

3.13 In-sock

In-sock will be of EVA moulded (min 4.Omm thickness) with high arch support covered with Cambrelle lining.

3.14 Flammability

(lining)

When tested in accordance with method (150150256), Lining shall neither flame more than2s (after flame time) nor glow more than 2s (after glow time).

4. LEAKAGE AND IMMERSION REQUIREMENTS (AS PER150-2023)

4.1 Requirement

When boots are tested as described in 4.2, there shall be no leakage of air. In the case of ankle boots, leakage of air in the vicinity of either the eyelets or gusset shall not constitute a failure but such boots shall then be

Specification __

Accept

Deviation

subjected to an immersion test as described in 4.3, when there shall be no water penetration to the inside of the boot.

4.2 Leakage test

procedure

Seal the top of the boots and force air into the boot at a pressure of 10 kPa.

Immerse the boot Up to 75 mm depth in water and examine the boot for escape of air bubbles.

4.3 Immersion test

for ankle boots

Immerse the boot Up to 75 mm depth in water for a period of 16 h. Remove the boot and examine to see if water has penetrated to the inside

5. CHEMICAL TEST

5.1 Cadmium content should be less than 0.005% when tested as per DIN EN 1122:

2002.

5.2 Lead content should be less than 0.05% when tested as per DIN EN 1122: 2002.

5.3 The phthalate content of the rubber should be less than 0.05%

6. TESTING

Testing will be done by FDDI HQ, Noida (Gautambuddh nagar), UP. All the

Specification	Accept	Deviation

expenses will be borne by the supplier.		

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