

SHRI RAM COLLEGE OF COMMERCE

(UNIVERSITY OF DELHI)
Maurice Nagar, Delhi-110007

Date: 11th January, 2014

NOTICE FOR INVITING TENDER

Sealed Tenders on item rate basis are hereby invited from approved/registered Contractors of Government Departments/PWD/Delhi University, for issue of tender for the following works to be executed inside the premises of **Shri Ram College of Commerce, University of Delhi, Delhi.**

Name of Work

Supply, Installation ,Testing and Commissioning of Fire Fighting Systems at "Shri Ram College of Commerce", University of Delhi, Delhi.

Estimated Cost of Work

Rs. 25 Lakhs

Time allowed for completion of Project/Work

90 days

Certain jobs would need to be executed on priority within limited time frame. At the discretion of the College management, the balance work may extend to the full duration.

E.M.D.

Rs. 50,000.00 (Rupees Fifty thousand only) in the form of DD/banker's Cheque/Pay Order from any nationalized Bank payable at Delhi, in favour of "**Principal, Shri Ram College of Commerce, Delhi**".

Cost of Tender Document

Rs. 500/- (In the form of DD/banker's Cheque/Pay Order from any nationalized Bank) payable at Delhi, in favour of "**Principal, Shri Ram College of Commerce, Delhi**".

Date of sale of Tender Documents

11.01.2014 to 31.01.2014

Timings 10:00 a.m. to 01:00 p.m. and 02:00 p.m. to 04:00 p.m.

Date of submission of Bids

11.01.2014 to 03.02.2014

Timings 10:00 a.m. to 01:00 p.m. and 02:00 p.m. to 04:00 p.m.

***Note:** On the last day of submission, i.e. on 03.02.2014 the Bids will be accepted up to 12.00 noon only.*

Date of opening of Technical Bids

03-02-2014 (Monday) at 3:00 p.m. in the Committee Room at SRCC.

***Note:** Representatives of parties are allowed to be present at the time of opening of Technical Bids.*

Date of opening of Commercial Bid

18-02-2014 (Tuesday) at 3:00 p.m. in the Committee Room at SRCC.

Note: Representatives of parties are allowed to be present at the time of opening of Commercial Bids. The names of eligible bidders for Commercial Bids, on the basis of Technical bids, shall be displayed on the College website.

The Tender Documents can be obtained from and submitted with the "**Administrative Officer, Shri Ram College of Commerce, University of Delhi, Delhi-110007**" during dates and timings for sale and submission of tender documents/bids on payment of tender cost as mentioned above.

The tender documents may be downloaded by contractors/bidders from college website <http://www.srcc.edu> and should be submitted along with the tender cost as a mode of payment indicated above for the tender cost.

Notes :

1. The tender and the earnest money shall be placed in separate sealed envelopes, each marked as "Tender Money" and "Earnest Money" respectively, and enclosed with the Technical Pre-qualification bid.
2. The tender shall be submitted in two "separately sealed" envelopes as follows (1) Technical Pre-qualification bid and (2) Commercial bid

3. The eligibility criteria:

The contractors who fulfill the following requirements shall be eligible to apply:

They shall have completed during the last three years ending 31st March, 2013, three works of similar nature, each of at least 40% value of the estimated cost OR two works of similar nature, each of at least 60 % value of the estimated cost OR one work of similar nature of at least 80% value of the estimated cost. "Work orders" and "Completion Certificates" of such project along with all relevant particulars may be submitted in the "Technical Pre-qualification Bid".

The "Commercial Bids" of only those Pre-qualified bidders shall be opened under intimation to the concerned bidders to enable their presence. All the other Commercial Bids would be returned unopened along with the EMD to the concerned parties.

4. The undersigned reserves the right to accept or reject any or all tenders without assigning any reason whatsoever.
5. Conditional Tenders are liable to be rejected..
6. Interested parties can visit the college premises for Site visit and contact for any queries to our Fire Fighting project Consultant Mr. K B Chandok at 09823025814 ,Email id : kb_chandak@yahoo.co.in
7. Corrigendum or any other information, related to the project shall be notified/released in college website www.srcc.edu. Interested parties are requested to visit the same in future.

PRINCIPAL
Shri Ram College of Commerce

Supply, Installation Testing and Commissioning of

FIRE FIGHTING SYSTEMS

FOR

Shri Ram College of Commerce
at University of Delhi, Maurice Nagar,

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BILL OF QUANTITIES WITH SPECIFICATIONS**

GENERAL TERMS AND CONDITIONS

1. NAME OF WORK

Supply, Installation, Testing & Commissioning of Fire fighting Systems for Shri Ram College of Commerce at University of Delhi, Maurice Nagar.

2. SCOPE OF WORK

Supply, Erection, Testing and Commissioning of, Fire Hydrant System, Hose Reels, Smoke & Heat Detectors System and One Fire Escape, as per the details given in Technical Specifications Section.

CONSULTANTS

Mr. K.B. Chandok, Nagpur

GENERAL TERMS AND CONDITIONS

3. CONTRACT PRICE

The Client is not concerned with any rise or fall in the prices of any materials. The rates quoted shall include all costs, allowances, taxes/levies/cess or any other charges including any enhanced labor rates etc., which may be enacted from time to time by the State and/or Central Government.

The rates quoted by the CONTRACTORS shall include all eventualities such as heavy rain, sudden floods etc., which may cause damage to the executed work or which may totally wash out the work. Until the completion certificate is issued to the CONTRACTOR, the Client will not be responsible for such damage or wash out of the construction work.

In case where the same item of work is mentioned at one or more places in the Schedule of Quantities, the lowest of the rates quoted by the CONTRACTOR for the item shall be taken for the payment of this item.

Time is the essence of the Contract. The work should be completed in time allowed from the date of commencement of work, as stipulated in the work order. The successful CONTRACTOR will have to give a schedule of various items of work to be done so that the work gets completed within the stipulated time. The rates shall be inclusive of all taxes ,levies ,packing ,transportation .handling etc .Nothing extra shall be paid.

4. EARNEST MONEY

The interested Parties shall deposit with SHRI RAM COLLEGE OF COMMERCE, a sum of Rs. 50,000.00 (Rupees Fifty thousand only) or 2% of the tender cost by Demand draft or Bank guarantee (drawn in favor of SHRI RAM COLLEGE OF COMMERCE. Payable at Delhi) as the Earnest money as a guarantee of good faith which amount shall be forfeited as the liquidated damages in the event of any evasive refusal or delay in signing the Contract.

5. EFFECTIVE DATE

The effective date of Contract will be the date of issue of Letter of Intent.

6. SUBMISSION OF TENDER

Tenders should be submitted in sealed envelope. The name of the work for which quotations are submitted shall be written clearly on the sealed cover. Tenders shall be received in the office of Shri Ram College of Commerce at University of Delhi, Maurice Nagar, up to 3:00 p.m. on _____.

The following information shall be forwarded by the interested parties along with the submission of tender:

- a) A list of works of similar nature executed along with their value and time of completion.
- b) A list of works in hand with status of all such works.
- c) A list of machinery to be deployed for proposed work.
- d) A solvency certificate and proof of deposit of Income Tax upto last financial year.
- e) Normal annual turnover.
- f) Technical staff to be deployed for proposed work.
- g) Brief particulars of the constitution of the Party.
Whether a Proprietorship Firm or a Partnership Firm (Copy of Registered Partnership Deed) or a Pvt. Ltd. Company (Copy of Memorandum and Articles of Association).
- h) Balance Sheet of party for the last three years.
- i) PAN Number, Service Tax No., PF No. & VAT No.
- j) Any other information/document as may be required by Law or by the Client.

The tenderers are advised not to deviate from the technical specifications /items commercial terms and conditions of payment, arbitration, gurantee and escaklation clause as mentioned in the tendor.

The tenderer will not be allowed to withdrew or modify any condition at a time after the technical bids have been accepted and decision to open the bid has been taken.

7. VALIDITY

Validity of quotation should remain open for acceptance of 30 days from the date of opening.

8. ACCEPTANCE OF TENDER

The Client do not bind themselves to accept the lowest or any tender and reserve, to itself, the right to accept or reject any or all tenders either in whole or in part, without assigning any reason for doing so.

9. PERIOD OF COMPLETION

The period of completion shall be 3 (Three) months from the date of issue of Letter of Intent subjected to availability of site. The time allowed for completion is the essence of Contract.

10. LIQUIDATED DAMAGES

In case, the job is not completed in time a penalty will be imposed on the Contractor @ 0.5 % of Work Order value per day subject to maximum of 5% of the Work Order value on pro rata basis.

11. MODE OF PAYMENT

The following percentage of contract rates shall be payable against the stages of work as shown herein :-

S.No.	Stage of Work	Payment Percentage
1	After Initial Inspection of materials (wherever specified) and delivery at site in good condition on pro- rata basis	60 %
2	On completion of pro rata installation	25 %
3	On testing, commissioning and handing over.	10 %
4	Final release of payment after the defect liability period of year..	05 %

12. SECURITY DEPOSIT

Equivalent to 5% of bill shall be deducted as retention, which shall be released after the expiry of defects liability period of 1 (one) year from the date of commissioning of all systems, as mentioned in the v) term of Mode of payments above.

13. TAX DEDUCTION AT SOURCE

Income Tax, Work Contract Tax, ESIC, PF and other Taxes as prescribed by the Legislation shall be deducted from your running account bills as per statutory requirement.

However Service Tax Shall be Payable extra.

14. PROGRAMME OF WORK AND PROGRESS REPORTS

The contractor shall submit within four days from the date of Letter of Intent, detailed schedule showing the programme and order in which the contractor proposed to carry out the work with dates and estimated completion times for various parts of the work in the form of bar charts based on Critical Path Method.

15. CLEARANCE FROM THE FIRE DEPARTMENT

The contractor shall be responsible for getting all approvals and clearance certificates as required from the fire department of Delhi Government and any other necessary & required clearance.

16. **ARBITRATION**

All disputes of difference whatsoever which shall at any time arise between the parties hereto in relation to or connected with this contract (other than those in respect of which the decision of Principal/consultant is by this contract expressed to be final and binding) shall after written notice by either party to the contract to the other of them and to the Appointing Authority hereinbefore mentioned be referred for adjudication to a sole arbitrator to be appointed as herein after provided.

For the purpose of appointing the Sole Arbitrator referred to above, the Appointing Authority will send within thirty days of receipt of the notice to the Contractor a panel of three name persons who shall all the presently unconnected with the organization for which the work is executed.

The Contractor shall on receipt of the name as aforesaid, select any one of the persons named to be appointed as a Sole Arbitrator and communicate his name to the Appointing Authority shall there upon without any delay appoint the said person as the Sole Arbitrator. If the Contractor fails to communicate such selection as provided above within the period specified, the Appointing Authority shall make the selection and appoint the selected person as the Sole Arbitrator.

If the Appointing Authority fails to send to the Contractor the panel of three names as aforesaid within the period specified, the Contractor shall send to the Appointing Authority a panel of three names of persons who shall all be unconnected with either party. The Appointing Authority shall on receipt of the names as aforesaid select any one of the persons named and appoint him as the Sole Arbitrator. If the Appointing Authority fails to select the person and appoint him as the Sole Arbitrator within 30 days of receipt of the panel and inform the Contractor accordingly, the Contractor shall be entitled to appoint one of the persons from the panel as the Sole Arbitrator and communicate his name to the Appointing Authority.

If the Arbitrator so appointed is unable or unwilling to act or resigns his appointment or vacates his office due to any reason whatsoever, another Sole Arbitrator shall be appointed as aforesaid.

The Work under the Contract shall, however continue during the Arbitration proceedings and no payment due or payable to the Contractor shall be with held on account of such proceedings.

The Arbitrator shall be deemed to have entered on the reference on the date he issues notice to both the parties fixing the date of the first hearing.

The Arbitrator may, from time to time, with the consent of the parties, enlarge the time for making and publishing the award.

The venue of arbitration shall be in Delhi

The fee, if any, of the Arbitrator shall, if required to be paid before the award is made and published, be paid half and half by each of the parties. The costs of the reference and of the award including the fee, if any, of the Arbitrator shall be in the discretion

of the Arbitrator who may direct to and by whom and in what manner, such costs or any part thereof shall be paid and may fix to settle the amount of costs to be so paid.

The award of the Arbitrator shall be final and binding on both the parties.

The provisions of the Indian Arbitration and Conciliation Act, 1996 (26 of 1996) or any statutory modification or re-enactment thereof and the rules made there under and for the time being in force, shall apply to the arbitration proceeding under this clause.

17. **LABOUR CONDITION**

Compliance with Labour Laws:

Contractor shall comply with all laws and statutory regulations dealing with the employment of labour such as.

- i) The Payment of Wages Act, 1936.
- ii) The Minimum Wages Act, 1938.
- iii) The Workmen's Compensation Act, 1923.
- iv) The Contract Labour (Regulations and Abolishing) Act.
- v) Employer's Liability Act, 1938.
- vi) Industrial Disputes Act, 1947.
- vii) Maternity Benefit Act, 1961.
- viii) Mines Act.
- ix) The Employees State Insurance Act, 1948.
- x) Employees Provided Fund act

Safety Codes, Labour Welfare Acts or Rules or any modifications thereof, any other Laws and Regulations framed by the Competent Legislative Authorities from time to time.

18. **JURISDICTION**

This Contract shall be subject to the jurisdiction of the N.C.T of Delhi

19. **SAFETY MEASURES**

It shall be the sole responsibility of the Contractor to ensure all safety measures giving proper prior notices etc. and obtaining prior permission from concerned local authorities as per bye-laws or directions issued by them all at his own cost. No claim of the contractor in this regard shall be entertained.

20. **SUB-STANDARD MATERIALS**

The material brought at site shall be approved by Principal / Consultant or person authorized by the Principal before use in the work .In case during execution any material used is found not as per the agreement specifications Principal may issue instruction to the contractor to remove material from site and the contractor is bound to do so.

21. ALTERATIONS ADDITIONS AND OMISSIONS

The Principal / Consultant can make any variation of the form, quality or quantity of the works or any part thereof that may, in his opinion be necessary and for that purpose, or if for any other reason it shall, in his opinion be desirable, he shall have power to order in writing the contractor to do and the contractor shall do any of the following:

- a) Increase or decrease in the quantity of any work included in the contract in which case the value of contract may be increased or decreased.
- b) Omit any such work.
- c) Change the levels, lines, position and dimension of any part of the works and
- d) Execute additional work of any kind necessary for the completion of the works and no such variation shall in any way vitiate or invalidate the contract, but the value, if any of all such variations shall be taken into account in ascertaining the amount of the Contract Price.
- e) The contractor shall not affect any of the aforementioned changes without the written order of the Engineer.

In respect of any additional items ordered to be executed, the rates payable shall be derived from market rates, supporting documents/Vouchers and 20% will be added thereon for Contractor's profits and overheads including all taxes, ESI, P.F. water, electricity etc.

The quoted price shall indicate breakup cost of materials and labour required for the proper completion of jobs, to the entire satisfaction of the Principal / Consultant.

22. CONSTRUCTION MATERIALS

All materials supplied to the contractor shall remain the absolute property of the SRCC, which shall not, on any account, be removed from the site of work and shall at all times be open for inspection to the Consultant. The responsibility for loss, damage or theft of the materials after they have been issued to the contractor will that be of the contractor.

- d) Execute additional work of any kind necessary for the completion of the works and no such variation shall in any way vitiate or invalidate the contract, but the value, if any of all such variations shall be taken into account in ascertaining the amount of the Contract Price.
- e) The contractor shall not affect any of the aforementioned changes without the written order of the Principal.

23. **MEASUREMENT**

Unless otherwise specified, the method of measurement shall be according to IS with up to date corrections.

24. **GUARANTEES**

Contractor shall guarantee the complete system to provide the specified flow and pressure under all conditions and outlets for his work for one year.

The equipments shall be guaranteed for a period of 12 months from date of acceptance and complete handover. The equipment or component or any part thereof so found defective during the guarantee period shall be repaired or replaced free of cost to the satisfaction of the Principal.

25. **STORAGE OF MATERIAL**

The Contractor will provide storage space on the site, in designated areas, for all materials likely to be deteriorated through exposure to weather. Space requirements as directed by Engineer.

26. **ELECTRICITY AND WATER SUPPLY**

The contractor shall be supplied Water and electric power at Single Point. Contractor should make his own arrangements for Backup

27. **FEES, PERMITS & TESTS**

The Contractor shall pay for any fees and permits required for the installation / testing of work. Any Liaoning / permissions / payments required with local authorities during currency of work shall be sole responsibility of contractor.

28. **RECORD DRAWINGS (AS BUILT DRAWINGS)**

Contractor shall provide four sets of as built drawings with catalogues and maintenance manual along with soft copies of drawing and catalogue.

29. **INSPECTION AND TESTING**

The Principal / Consultant shall have full power to inspect drawings of any portion of the equipment or examine the material and workmanship of the system at the manufacturer work or at any place from which the materials or equipment is obtained. Acceptance of any material or equipment shall in no way relieve the contractor of his responsibility for meeting the requirements of the specifications. The cost of any special tests and / or analysis not called for in this specification shall be borne by the manufacturer / supplier. The various items of equipment shall be preformatted at the Contractor's cost and test certificate to be furnished by the manufacturer / supplier.

30. **TERMINATION OF CONTRACT BY EMPLOYER**

If the contractor being a company go into liquidation whether voluntary or compulsory or being a firm shall be dissolved or being an individual shall be adjudicated insolvent or shall make an assignment or a composition for the benefit of

the greater part, in number or amount of his creditors or shall enter into a Deed or arrangement with his creditors, or if the Official Assignee in insolvency, or the Receiver of the contractor in insolvency, shall repudiate the contract, or if a Receiver of the contractor's firm appointed by the court shall be unable, within fourteen days after notice to him requiring him to do so, to show to the reasonable satisfaction of the employer that he is able to carry out and fulfill the contract and if so required by the employer to give reasonable security thereof, or if the contractor shall suffer execution to be issued, or shall suffer any payment under this contract to be attached by or on behalf of and of the creditors of the contractor, or shall assign, charge or encumber this contract or any payments due or which may become due to the contractor, there under, or shall neglect or fail to observe and perform all or any of the acts matters of things by this contract, to be observed and perform by the contractor within three clear days after the notice shall have been given to the contractor in manner hereinafter mentioned requiring the contractor to observe or perform the same or shall use improper materials or workmanship in carrying on the works, or shall in the opinion of the employer not exercised such due diligence and make such due progress as would enable the work to be completed within due time agreed upon and shall fail to proceed to the satisfaction of the employer after three clear days notice requiring the contractor so to do shall have been given to the contractor as hereinafter mentioned, or shall abandon he contract, then and in any of the said cases, the Employer may notwithstanding previous waiver determine the contract by a notice in writing to the effect as hereinafter mentioned, but without thereby affecting the powers of employer of the obligations and liabilities of the contractor the whole of which shall continue in force as fully as if the contract, had not been so determined and as or the works subsequently executed had been executed by or on behalf of the contractor (without thereby creating any trust in favor of the contractor) further the employer or his agent, or servants, may enter upon and take possession of the work and all plants, tools, scaffolding, sheds, machinery, steam and other power, utensils and materials lying upon premises or the adjoining lands or roads and sell the same as his own property or may employ the same by means of his own servants and workmen in carrying on completing the works or by employing any other contractors or other persons and person to complete the works, and the contractor shall not in any way interrupt or do any act, matter of thing to prevent or hinder such other contractor or other persons or person employed from completing and finishing or using the materials and plants for the works when the works shall be completed, or as soon thereafter as conveniently may be, the employer shall give notice in writing to the contractor to remove his surplus materials and plants and should the contractor fail to do so within a period of 14 days after receipt by him the employer may sell the same by Public Auction and shall give credit to the contractor for the amount so realized. Any expenses or losses incurred by the employer in getting the works carried out by other contractors shall be adjusted against the amount payable to the contractor by way of selling his tools and plants or due on account of work carried out by the contractor prior to engaging other contractor or against Security Deposit.

Signature of the CONTRACTOR

Authorized signatory

TECHNICAL SPECIFICATIONS FOR FIRE SUPPRESSION SYSTEM

A] Fire Hydrant System

- 1) Fire Hydrant System will be erected as per the drawing/layout given by consultant.
- 2) The proposed Fire Hydrant System is extension for college and hostel buildings from Existing Hydrant System erected for new stadium.
- 3) Underground hydrant line will be laid one meter below the ground level.
- 4) Underground hydrant line pipe will be painted by one coat of primer and then it will be wrapped with anti corrosive tape 4mm thick of good quality IWL or STP or equivalent.
- 5) Above ground pipeline will have two coats of primer and then two coats of Postman Red Paint.
- 6) Rates for hydrant line will be for, supply, erection & welding, coating/painting, and laying/fixing the hydrant line inclusive of civil work of trenches for underground lines and good making after erection, flanges, gaskets, nuts bolts etc. required for erection. Bends/L-bows in pipe line shall be measured as pipe length.
- 7) Contractor will have to give successful hydraulic test of erected pipeline at 12Kg.pressure in presence of our representative.
- 8) For the sluice valves to be erected underground, chambers will be constructed. The Chambers will be of 1mx1m in size with depth of one meter and fixed with cover of MS pate in MS frame. Chamber will be in RCC and Brick work. Contractor should quote unit rate for chamber and final bill be number of chambers constructed.

Scope of Work

The contractor shall be responsible for Providing, Laying, Jointing, installing and testing of following materials conforming to IS with all accessories like all fittings including tees ,elbows ,reducers ,flanges ,rubber gaskets ,nuts ,bolts ,washer as required for welded joints and fixing of pipe on floor /wall ceilings with suitable size clamps ,fasteners, structural steel or any civil work for making of pipe supports .

Prepare drawings showing total scope of work based on which final billing BOQ shall be prepared upon taking and paid for measurements accurate to the BOQ after certificate by Engineer/Consultant.

Approximate quantity of various items required to be supplied and erected by contractor will be as in BOQ in Annexure A (with possible variation 10%)

Specifications Required

A] HYDRANT MAINS

Contractor shall supply MS Pipe of appropriate Make conforming to IS 1239 or IS 3589 Class B.

1. 150 MM Dia(For Hydrant mains)
2. 100 MM Dia (For Hydrant mains)
3. 80 MM Dia (For Stand Post and Mains)
4. Hume Pipes (300 MM ID)-At Road Crossing of hydrant Line
5. Sluice Valve (100 MM dia) IS 780, PN1
6. Hydrant valve IS 5290 (80mm inlet & 63mm outlet ,Brass or SS Oblique type)
7. Branch Pipes IS 903
8. Hose Pipes IS 8423
With Coupling IS 903
RRL Type 63mm dia. Fitted with
Gunmetal or SS male-female couplings
9. Hose Boxes (To accommodate two hoses of 15 mts length and one branch pipe)

B] Hose Reels

Contractor shall supply and install the hose reels. (Locations shall be given at the time of layout) Above ground pipeline will have two coats of primer and then one coat of Postman Red Paint.

Rates will be for, supply, erection, painting, and laying/fixing the hose reel line inclusive of any civil work required good making after erection, flanges, gaskets, nuts bolts etc. required for erection. Bends/L-bows in pipe line shall be measured as pipe length.

Approximate quantity of various items required to be supplied and erected by contractor will be as under (with possible variation 10-15 %)

Sr. no	Item	Specification	Qty (Approx)
1.	Hose reels 20 Nos. Complete with 30 Meters long hose of IS Marked 1” pipe clamped and with SS/Bras nozzle & Drum		20nos.
2.	MS Pipe 250 mm dia	IS 1239 or IS 3589 Class B	300 mts
3.	Gun Metal Cut off Valves 25 mm IS Marked	----	40 Nos.

Hose reel drum shall be fabricated from 16SWG CRCA sheets well painted with red colour stove enameled paint. Hose reel drum shall be provided with 36 kg/sqcm bursting pressure 20 mm dia nominal bore high pressure 30 m long rubber tube, shut-off nozzle. Hose reel shall be connected directly to the wet riser. Hose reel shall conform to IS 884.

C] Smoke & Heat Detectors System

All rooms of college building (Class Rooms, Tutorial Rooms, Library, Computer Rooms, office etc) will be provided with detection system.

Required quantity of various items is estimated as,

Detectors (smoke)	160 Nos.
Manual Call Points	10 Nos.
Hooters	08 Nos.
Panel (12 Zone)	01 Nos.
Wiring	As required

For proper estimation, contractor may inspect the college building before submission of his quote and may submit quote with his estimation of quantity and can add any other item required. Contractor should submit item wise rate offer for supply and erection.

D] Fire Extinguishers

Following Fire Extinguishers will be required for complete building (with possible variation 10%)

Co2 Type 4.5 Kg. capacity
 ABC Type 5 kg. capacity
 Water Co2 Type 9 liters capacity

All the extinguishers will be ISI Marked. (Not as per IS)
 Contractor should quote rates for supply and erection.

E] Fire Escape Staircase

One Fire Escape Staircase is on backside of Classroom Block having G+1 floor structure. MS Angle fabricated staircase suiting the overall building aesthetics & time period of construction with width of 1.2 meters as per approved drawing.

Contractor should visit the college premise and can collect the required details before submitting the offer.

F] Hydrant Pumps /Motor pumps /Diesel Engine Pump

Required Pumps would be arranged by the College in the working condition as required for working of implemented fire fighting system. However, Contractor should visit the college premise and can collect the required details before submitting the proposal for integration.

TENDER FORM (To be filled by the contractor)

SHRI RAM COLLEGE OF COMMERCE.

**University of Delhi,
Maurice Nagar, Delhi-110017.**

Project: Implementation of Fire Fighting system at “SHRI RAM COLLEGE OF COMMERCE.”, University of Delhi, Maurice Nagar, Delhi-110017.

Dear Sirs,

I/We, the undersigned have carefully gone through and clearly understood the Tender Drawings and Tender Documents comprising of the tender form, General Conditions of Contract, Special Conditions, Specifications, Schedule of Probable Quantities prepared by your Consultants:

Mr. K.B. Chandok ,Nagpur.

I/We do hereby undertake to execute and complete the whole or part of the work (as desired by you) at the respective rates which I/We have quoted for all the items of the Probable Bill of Quantities and at which rates the items specified amount to Rs.

.....
I/We have deposited as Earnest Money, a sum of Rs. by B.G. / Demand Draft no. _____ dated _____, drawn on _____ Bank, for due execution of the work at my/our tendered rates together with any adjustments that may be made by **SHRI RAM COLLEGE OF COMMERCE** on our tendered rates.

In the event of this Tender being accepted, I/We agree to submit a Performance Guarantee and enter into an Agreement as and when required and execute the contract according to your Form of Agreement in default whereof, I/We do hereby bind myself/ourselves to forfeit the aforesaid deposit.

I/We further agree to complete the work included in the said Schedule of Quantities as per other terms and conditions of contract within (time as per work order) from the date of the Letter of Intent issued to commence the same.

I/We agree to pay Government, General and Sales Tax (State & Central), VAT, Service Tax ,Excise and Octroi duties WCT, levies, cess, insurance and all other taxes etc., as prevailing from time to time, on such items for which the same are levy able and the rates quoted by me/us are inclusive of the same.

Yours faithfully,

CONTRACTOR's Address

Authorized Signatory

LIST OF APPROVED MAKES OF MATERIAL FOR FIRE FIGHTING MATERIAL MAKES

Fire Pumps	: Kirloskar / KSB / Mather Platt
Motors	: Kirlosker
Diesel engine	: Kirlosker Cummins/ Ashok Leyland
G.I. and M.S. Pipes	: TATA / JINDAL Hissar
G.I. fittings (Upto 50 mm dia)	: Unik / R Brand /C Brand Fabricated
Gate Valve	: Zoloto / Leader
Butterfly valve above 50 mm dia	: Advance / C&R /Castle
Non return valves (G.M.)	: Zoloto / Kartar
Mechanical seal	: Sealo / Burgman
Underground Piping Coat	: IWL
Flanges	: Table E
Pressure Gauges	: H Guru / Fiebig
Fire Hose Cabinet	: Fabricated to approved detail
Landing Valve	: Safeguard/Newage
C.I. Y type Stainer	: Sant / Advance/Zoloto
Hose Reel Drum	: Safeguard/Newage
Fire Brigade inlet / Outlet Conn.	: Safeguard/Newage
Branch Pipe	: Safeguard/Newage
Rubber Hose	: Jyoti / Dozz
RRL Hose	: Safeguard/Newage/Padmini
Fire Extinguisher	: Safeguard/Safex
Fire Automatic Sprinkler	: HD/Newgae
Manual Call Points /Call Points/Panels	Agni / Edward/Apollo

ELECTRICAL ITEMS FOR FIRE FIGHTING

S.No.	Material	Makes
1.	MCCB	L & T / Siemens / Group Schneider
2.	Contractor & Starter	L & T GE / Siemens
3.	Change over switches	HH Elcon / HPL Socomec
4.	Timer	L & T / MDs / siemens
5.	Push Button	L & T / BCH / Siemens
6.	Indicating Lamps	BCH / L & T Siemens
7.	Voltmeter	AE / IMP
8.	Ammeter	AE / IMP
9.	Current Transformer	AE / KAPPA / indocoil
10.	Potential Transformer	AE / KAPPA / indocoil
11.	Selector Switch and Rotary Switches	Kaycee / L & T
12.	Power Cable	CCI / Unistar / Fort Gloster / Havells
13.	Wires	National / Skyline / ISI Marked
14.	Cable Termination	Dowells / Elemex
15.	Cable Gland	Dowells
16.	PVC Rigid Conduits	BEC / AKG / POLYPARK
17.	Indicating instrument	AE / Rish
18.	Relays	L & T / Alsoton
19.	Batter Charger	AE
20.	Anti vibration Mounting	Dunlop / Resistoflux
21.	Foot valve	Kirlosker / BENDCO

ESTIMATE FOR FIRE FIGHTING WORKS AT SRCC , DELHI UNIVERSITY

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1	Providing, laying, jointing and testing of following sizes of pipes conforming to IS-1239 with all accessories like all fittings including tees, elbows, reducers, flanges, rubber gaskets, nuts bolts, washer as required for welded joints And fixing the pipe on floor / wall /ceiling with suitable size clamps, fasteners . Structural steel or any civil work for making of Pipe supports to be paid extra as per specification. complete in all respects.				
	For Ring Main and Interconnections				
	a)25 mm dia	60	RM		
	e) 65 mm dia	12	RM		
	f) 80 mm dia	80	RM		
	g)100 mm dia	750	RM		
	h)150 mm dia	150	RM		
2	Prividing two coats of synthetic enamel paint of approved shade over a coat of primer. Including painting of legends both direction arrow as per the approval of the architects / consultants.				
	a)25 mm dia	60	RM		
	e) 65 mm dia	2	RM		
	f) 80 mm dia	72	RM		
	g)100 mm dia	600	RM		
	h)150 mm dia	90	RM		
3	Excavation of trenches in soft soil for laying of MS pipes upto 150 mm dia and backfilling the same after laying of pipes & 'Providing protection to embedded M.S pipes and fittings by wrapping by 4 mm thick bitumen coating , including proper overlaps on joints.				
	e) 65 mm dia	10	RM		
	a) 80 mm dia	8	RM		
	b) 100 mm dia	150	RM		
	c) 150 mm dia	50	RM		
4	Providing and fixing gun metal ball valve suitable for pressure 15 Kg/Cm2 and confirming to IS: 778 of the following size including providing necessary union / flange.				
	a) 25 mm dia	10	NOS.		
	b) 50 mm dia				
		0	NOS.		

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
5	Providing & fixing of butterfly valve suitable for pressure 15 Kg/Sqcm. with flanges, nut bolts & gaskets complete required.				
	a) 65 mm dia	0	NOS.		
	b) 80 mm dia	0	NOS		
	c) 100 mm dia	4	NOS		
	d) 150 mm dia	2	NOS		
6	Providing and fixing of C.I. wafer type check valve suitable for pressure 15 Kg/Sqcm. with flanges, Nut, bolts & washers, painting etc. complete as required.				
	a) 80 mm dia	0	NOS.		
	b) 100 mm dia	0	NO.		
	c) 150 mm dia	0	NOS		
7	Providing & fixing single acting air release valve with brass gate valve, flanges/ union, Suitable for sprinkler/ wet riser system with all necessary connections.				
	a. 25 mm dia	2	NOS.		
8	Providing & fixing SS fire hydrant valve with 100 mm N.B. flanged inlet, brass spindal, one no. 63 mm dia female instantaneous outlet type. G.M. coupling, blank cap, chain. Conforming to IS:5290. Including tapping from wet riser complete as required.	17	NOS		
9	Providing & fixing swinging type First Aid hose reel in red colour with 30 mts long and 20 mm dia heavy duty rubber water hose, 20 mm dia globe valve stop cock, terminating with G.M. coupling & nozzle of 5mm outlet with shut off valve conforming to IS 8090 - 1976 complete with drum and brackets for fixing on wall, bolts & nuts conforming to IS:884-1969 complete as required.	10	NOS		
10	Providing and Fixing Hose pipe, 63 mm dia and 15 mts long, duly reinforced, rubber lined s conforming to IS 636-1988 type A with SS heavy duty instantaneous type coupling (Pair male & female parts) conforming to IS 903. Complete as required (two nos. for each hydrant)	34	NOS		
11	Providing and Fixing 63 mm dia instantaneous pattern branch short SS pipe, 16 mm dia nozzle conforming to IS 903, suitable for inter connection to hose pipe coupling complete as required.	20	NOS		

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
12	Providing and fixing standard firemans axe with heavy rubber handle.	17	NOS		
13	Providing and fixing inlet breaching having C.I. body four way gun metal 63 mm dia instantaneous inlets conforming to IS 903 fitted with non return valves, 25 mm dia gun metal drain cock, blank cap, brass chains and 150 mm dia flanges with all accessories suitable for local fire tender complete as required.	2	NOS		
14	Providing and fixing of G.M. Fire Brigade adopter assembly with 150 mm dia outlet, suitable for local fire tender complete as required.	1	NO.		
15	Providing and fixing weather proof cabinet of size not less than 0.75 x 0.6 x 0.3 mtr made out of M.S. sheet not less than 1.5 mm thick having central opening and 4 mm thick glazed glass doors (Two nos.) suitably marked on the outside 'with the letters "FIRE HOSE" including necessary locking arrangement and painting in red colour suitable to accomodate, external yard hydrant valve, 2 nos 15 mtr long Hose pipe, branch pipe, nozzle and fire man's axe. It shall be mounted on boundary wall complete as required.	17	NOS		
16	Brick works for making of Pipe Supports with necessary excavation , clean Plastering and Painting	5	Cu Mtrs		
17	MS Fabrication works including supply and erection of MS sections / angle / channels etc and painting for making of various Pipe supports or other structures as required	150	Kgs		
18	Breaking of Floors (Flooring with Interlocking Tiles , PCC) for making of pipe trenches and remaking the same as required . Breaking of RCC shall be paid extra	30	Mtrs		
19	Breaking of holes in Brick walls for pipe in laying and remaking the same Size (150 mm x 150 mm)	12	No.s		
20	Making Chases in Brick Walls for laying of Conduits of dia 25 mm dia and remaking the same as required	200	Mtrs		

21	Providing fixing testing and commisioning of conventional type Smoke detectors with Bases.	121	No.s		
S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
22	Providing fixing testing and commisioning of conventional type Heat detectors with Bases.	10			
23	Providing fixing testing and commisioning of Mannual call points in MS steel casing	10	No.s		
24	Providing fixing testing and commisioning of Hooter in MS steel casing	8	No.s		
25	Providing fixing testing and commisioning of 12 Zone conventional Fire Control Panel with provisions for isolation , alarm and Battery , Battery Charger	1	No.s		
26	Providing and laying of ISI Marked Flexible wires 1.5 mm for fire alarms	1200	Mtrs		
27	Providing and laying of MS Conduits 25 mm dia	350	Mtrs		
28	Providing and Laying of control Cable 9 core x 1.5 mm Armored ISI marked	35	Mtrs		
29	Providing, fixing, testing and commissioning of A Type 9 Ltr water CO2 type ISI marked Fire Extinguishers	15	NOS		
30	Providing, fixing, testing and commissioning of ABC Type 5 Kg type ISI marked Fire Extinguishers	20	NOS		
31	Providing, fixing, testing and commissioning of CO2 4.5 Kg BC type ISI marked Fire Extinguisher .	6	NOS		
32	Rates for re connections of Existing electrical Fire MCC Panel	1	Set		
33	Providing ,Fabricating and Fixing staircase as per standard MS members including two coats of paint with primer complete as per the drawing	4000	Kg		
TOTAL CARRIED TO SUMMARY					-