

K.KATHIRVEL
ADMINISTRATIVE OFFICER

Date: 02.03.26

Ref: MSE/AO/tender-51-2025_2026/

Madras School of Economics invites tender for Fire hydrant down comer system & Standalone smoke & heat detectors to hostel buildings A & D

Sealed tenders are invited for Design, Supply, Installation, Testing & Commissioning of Fire Hydrant Down-Comer system for Hostel blocks A and D and Standalone smoke detection system for floor wise corridors and fire hazard areas.

1. Scope of Work:

Fire Hydrant Down-Comer System (Blocks A & D)

- Electric Fire Pump with Starter Panel
- Vertical Down-Comer MS Piping
- Landing Valve at each floor level
- Fire Hose Box
- Floor-wise Hose Reel
- Necessary Valves, Gauges & Fittings
- Testing & Commissioning
- Assistance for fire department inspection
- Prepare and submit detailed drawings for approval before execution.

Stand-Alone Smoke& Heat Detection System

- Stand-alone smoke & heat detectors with Alkaline Batteries for each floor corridor
- Electrical rooms ,UPS Room/ fire hazard areas
- Testing & commissioning

(Detailed Technical Specification and BOQ attached separately.)

2. Building details:

A Block (G+3) : Width -13.72m, Length – 25.98m, Height – 18m

D Block (G+3) : Width -13.72m, Length – 19.52m, Height – 18m

3. Standards & Compliance:

The system shall comply with relevant standard of Bureau of Indian Standards and applicable norms of Tamil Nadu fire and rescue services.

Applicable ISO and Electrical Safety Standards.

4. Eligibility Criteria:

- Bidder shall have minimum 3–5 years' experience in Fire Fighting / Fire Alarm systems.
- Bidder must have completed at least 2 similar projects.
- Valid GST, PAN, and statutory registrations required.
- Bidder shall submit work completion certificates.
- Non-compliance may lead to rejection.
- The bidder shall ensure that the system is fully operational and compliant with applicable fire safety norms before final handover.

5. Site Visit:

- Site visit is mandatory before submission.
- No extra cost will be entertained later.

6. Completion Time:

Work shall be completed within 60 days from date of Work Order.

7. Liquidated Damages (LD Clause):

- Delay beyond agreed completion period may attract penalty of 0.5% per week of contract value, subject to maximum 10%.
- Any further damage identified during the project execution shall be responsibility of the vendor and must be borne by them.

8. Contractor's Responsibility:

The contractor shall execute the work with minimal damage to existing structure. Any damage caused to civil works, plastering, painting, flooring or building finishes during execution shall be restored to original condition at contractor's cost. No additional payment shall be made for such restoration.

9. Payment Terms:

- 30% after work order
- 50% after installation
- 20% after testing & commissioning
- Retention amount (5–10%) may be deducted for defect liability period.

10. Warranty & Defect Liability:

- Minimum 12 months warranty from commissioning date.
- Any defects shall be rectified free of cost.

11. Testing & Commissioning:

- Hydrostatic pressure testing, pump trial run, and fire alarm demonstration shall be conducted in presence of client representative.
- Test certificates shall be submitted.

12. Statutory Inspection:

Vendor shall assist in inspection by Tamil Nadu Fire and Rescue Services (if applicable).

13. Right to Accept or Reject:

The institution reserves the right to accept or reject any bid without assigning any reason.

14. Instructions:

- Detailed Technical Specifications and BOQ are attached separately.
- Site visit is mandatory before submission of bid.
- The Institution reserves the right to accept or reject any bid without assigning any reason.

15. Tender Format:

The Bid Price must be inclusive of all taxes. The tender from the eligible vendor should reach by post or in person to **“the Director, Madras School of Economics, Gandhi Mandapam Road behind Govt. Data Centre Chennai: 600025”** on or before 18/03/2026, 05.30pm.

We look forward to receiving your competitive bid within the stipulated time.

With Regards,

(K.Kathirvel)

S No	DESCRIPTION	UNIT	QTY	MAKE	SUPPLY		ERECTION	
					RATE	AMOUNT	RATE	AMOUNT
Fire hydrant Down comer System								
1	Supplying, installing, testing and commissioning of electrically driven regular pumpset. KIRLOSKAR 2stage centrifugal pumpset fitted with bronze Impeller, volute type delivery casing as standard scope of supply, 2pole , 450lpm at 60MWC fire fighting motor with IP44 protection, Class B insulation, capable of handling wide voltage fluctuations between 300-440 Volts, suitable for operation on rated voltage, 50Hz, 3Phase AC power supply.	lot	2	kirloskar				
2	Powder coated MS Motor Control Panel with Auto/Manual operation with isolator,contactorMN,Add on block,OLR MN2,SP CONTROL MCB, Digital VA Meter,RYG indication lamp, Start,stop push button,NO,NC Element,A?M Selector Switch, FRP & TB, Cascade Roll with power and control cables & necessary electrical accessories Providing and laying Armoured Cable along with 2runs of 10G bare copper wire for earthing from control panel to motor. The rate shall include the cost of provicing and fixing suitable gland at all terminations complete		2	L& T switch gear Universe Brand				
3	Incoming to panel							
4	4 core 10 sqmm armoured cable incoming to dol starter panel with necessary accessories	mtrs	120	polycab/Orbit				
5	Miniature Circuit Breaker 100 amps with DB Box	Nos	1	Legrand				
6	Outgoing from panel to motor							
7	3 Core 10sqmm Armoured cable Outgoing from dol panel	mtrrs	20	polycab/Orbit				
8	1.5mm thickness earth strip	kg	20	polycab/Orbit				
9	2 core 1.5sqmm cable	mtrs	20	polycab/Orbit				
10								
11	Supplying, laying, testing and commissioning of Class 'C' Heavy duty MS. Pipes conforming to IS 1239 and 3589 including fittings like elbows, tees, flanges, tapers nuts, bolts, , gaskets etc., complete.	Mts						
12	100mm Nominal dia	Rmt	156	JINDAL STAR				
13	80mm Nominal Dia	Rmt	18	JINDAL STAR				
14	25mm nominal dia	Rmt	72	JINDAL STAR				

15	Supplying, installing, testing and commissioning of Siphon tube and bib cock for Pressure Gauge capable of measuring 0 - 21 Kg	Nos	2	HGURU				
16	Supplying , Installing, testing and commissioning of Pressure Switch with all fixing accessories	Nos	2	WIKA				
17	Supplying, installing, testing and commissioning of Safety Release valve .25mm	Nos	2	zoloto				
18	Supplying, installing, testing and commissioning of Cast Iron Butterfly Valves including matching flanged joints by providing necessary nuts, bolts, Neoprene gaskets etc. complete							
19	100 mm NB - Lever operated	Nos	4	Normex				
20	Supplying, installing, testing and commissioning of ball Type Non-Return Valves including making flanged joints by providing necessary nuts, bolts, Neoprene gaskets etc. All complete							
21	100 mm dia	Nos	4	Normex				
22	Supplying, installing, testing and commissioning of (Fire Brigade inlet) connection with provision for two male instantaneous type for fire fighting system including making connection by providing necessary fittings to the fire storage tank.	Nos	2	Newage				
23	Supply and Erection of MS sheet 10 guage drum type wall mounting hose reels , swiveling 180 degree consisting of 19 mm dia. x 30 meters long armoured rubber hose pipe with 15 mm dia.PVC shut off type jet nozzle on the outlet including making connection to the wet riser, by drilling welding, fixing the hose reel to the wall by providing necessary anchor fasteners/ expansion bolts, etc. complete . LPCB ,EN671 -1 Approved,	Nos	8	Sri/Monsher				
24	Ball valve 25mm with required fittings	Nos	10	zoloto				
25	Ball valve 1/2inch with required fittings	Nos	4	zoloto				
26	Ball valve 3/8 inch with required fittings	Nos	4	zoloto				
27	Supplying of Double Hose cabinet of 600 x 500 x 250 size made out of 16 gauge MS sheet with 4 mm glass in front door with locking arrangement to accommodate 2 lengths of 15 mtr hose with coupling and branch pipe with nozzle including painting with white p	Nos	2	Newage				
28	Fire Hydrant Valve, single outlet, SS-304 (IS: 3444 Gr-1) 75mm N.B. flanged inlet, pull out type lug, ss spindle, 63mm female inst. oblique outlet, complete with ABS blank cap & chain, bearing IS: 5290 mark, flange O.D. 200mm, PCD 160mm, four 19mm dia ho	Nos	2	Newage				

29	Premier brand hose, re-enforced rubber lined (RRL) all synthetic fiber circular woven jacketed,EPDM synthetic rubber lining fire hose, working pressure 14kg/cm2 , proof pressure 22kg/cm2 , burst pressure 38kg/cm2 , bearing IS: 636-88 Type-A, in 15mtr leng	Nos	4	Newage				
30	Branchpipe-short, SS-304 (IS: 3444 Gr-1) having 63mm male inst. inlet, male threaded outlet,fitted with 15 mm bore nozzle, bearing IS: 903 mark	Nos	2	Newage				
31	Supply and Erection of MS Angle, channel support Etc., with all fixing accessories,as per IS 808 tolerance as per 1852	kg	800	Jindal				
32	Supply and Painting the M.S pipe	Lot	2	Asian/Berger				
33	2 Way Fire Brigade with matching flanges and gasket and bolt nut	Nos	2	Newage				
34	Civil work for pump RCC foundation as per Pump Motor Manufacturer requirement of foundation plinth should be constructed to support pum on a floor area free from expansion joints , it should be sufficiently large to absorb vibrations and rigid enough too	Lot	2	RCC				
35	Loading & Unloading of materials,equipments charges	Lot	2					
36	Scaffolding Charges	Lot	2					
37	Core Cutting Charges	Lot	2					
38	Syntax Water Tank 5000 Ltrs with supply and Erection	Nos	2	syntax				
39	Transport	Lot	1					
Stand Alone Smoke & Heat Detector System								
1	Supply, Installation, Testing & Commissioning of wireless smoke cum heat detector with inbuilt sounder and LED indication , Operating on RF communication and powerd by replacable Alkaline Batteries Note:Ceiling Mounted	Nos	22	Honey well				

Note:

Any materials not included in the BOQ but required for completion of work shall be clearly mentioned and quoted seperately by bidder.