

BOQ for Pavilion Building Extension Area (Sports club & stadium)

Sr. No.	Work Discretion	Quantity	UOM	Make	Supply Rate/Unit	Supply Total	Installation/Unit	Installation Total	Supply & Installation Total/Unit
A	Hydrant Pipe								
1	Supplying and erecting G.I. pipe 'C' class ERW 150 mm dia with necessary fittings complete as per specification no. FF-PP	32	Meters	Appolo / Jindal H. / J. Surya					
2	Supplying and erecting G.I. pipe 'C' class ERW 100 mm dia with necessary fittings complete as per specification no. FF-PP	36	Meters	Appolo / Jindal H. / J. Surya					
3	Supplying and erecting G.I. pipe 'C' class ERW 80 mm dia with necessary fittings complete as per specification no. FF-PP	12	Meters	Appolo / Jindal H. / J. Surya					
B	Hydrant Valves (HV)								
1	Supplying and erecting stainless steel single outlet hydrant valve fitted with necessary accessories complete as per specification no. FF-VL/HV (SS 304)	7	No's	Newage / AAG / Zoloto					
C	Butterfly Valves (BFV)								
1	Supplying and erecting 150 mm dia. cast iron double flange butterfly valve of size complete with PN16 pressure rating, as per specification no. FF-VL/BFV	2	No's	L&T / Kitz / Zoloto					
2	Supplying and erecting 100 mm dia. cast iron double flange butterfly valve of size complete with PN16 pressure rating, as per specification no. FF-VL/BFV	5	No's	L&T / Kitz / Zoloto					
D	Hose Box & Assembly								
1	Supplying and erecting 63mm dia, controlled percolation (C. P.) hose pipe, 15m in length, fitted with necessary accessories complete as per specification no. FF-FFA/CPH	14	No's	Newage / AAG / Primer					
2	Supplying and erecting M.S./CRCA cabinet for housing single hydrant valve of size (400 x 400 x 400)mm or hose pipe box of size (750 x 600 x 200)mm made from min. 2 mm thick CRCA sheet with angle iron work of min. of size (25 x 25 x 4) mm having front double doors with viewing glass of size (200x150) mm and locking arrangement with necessary fixing material such as rubber bidding etc. duly painted in post box red colour(Code 538 of IS 5)	7	No's	Newage / AAG / Vilas Engg.					
3	Supplying and installing wall mounting swinging hose reel drum fitted with 19 mm dia. 30m long high pressure polypropylene (Polyhose) along with necessary accessories complete as per specification no. FF-FFA/HV (Including 19 mm dia. 30m long poly hose, SS nozzle with 2 nos ball valve all required fittings)	7	No's	Newage / AAG / Safex					
4	Supplying and erecting stainless steel branch pipe 63 mm dia fitted with 20 mm dia detachable hexagonal nozzle complete as per specifications no. FF-FFA/NZ	7	Nos	Newage / AAG / Safex					
E	Extinguishers								
1	Supplying & erecting ABC type fire Extinguisher of 6 kg capacity complete erected with necessary clamp made from M. S. flat with nut & bolts routed in wall complete.	22	No's	Kanex / NAAZ / Safex					
2	Supplying & erecting Carbon Dioxide (CO2) fire extinguisher of 4.5 kg. capacity cartridge type conform to IS 2878 /15683 complete erected with necessary clamp made from 50 x 6 mm. M. S. flat with nut & bolts routed in wall complete.	6	No's	Kanex / NAAZ / Safex					
F	Pump fitting								
1	Supplying and erecting 100 mm dia cast iron double flange NRV complete with PN16 pressure rating, as per specification no. FF-VL/NRV	1	No's	L&T / Normex / Zoloto					
2	Supplying and erecting 100 mm dia Cast Iron end line strainer of Y-type flanged end pattern, PN16 pressure rating, SS screen, end connection with Flanged / Screwed / Socket Weld / Butt Weld End etc with standard OAR (open area Ratio) for positive suction complete as per specification no. FF-VL/ELS	1	No's	L&T / Kitz / Normex					

3	Supplying and erecting 20/25mm dia gun metal air release valve, with necessary G.I. coupling to be fitted on top of air vessel with ball valve fitting or on wet riser complete as per specification no. FF-FFA/ARV	2	No's	Zoloto / Kartar / Johnson					
G	Signage boards								
1	Supply and Installation of PASS Signage's (12 inch x 18 inch) on 5mm Aluminum Composite Panel sheet	25	No's	Auto Glow UV printing on 5mm ACP					
2	Supply and Installation of RACE Signage's (12 inch x 18 inch) on 5mm Aluminum Composite Panel sheet	25	No's	Auto Glow UV printing on 5mm ACP					
3	Supply and Installation of Fire Extinguisher Signage's (06 inch x 08 inch) on 5mm Aluminum Composite Panel sheet	25	No's	Auto Glow UV printing on 5mm ACP					
4	Supply and Installation of Other necessary fire safety related Signage's of (16 inch x 18 inch) / standard size on 5mm Aluminum Composite Panel sheet	20	No's	Auto Glow UV printing on 5mm ACP					
H	Dismantling, Shifting and reinstallation items								
1	1) Dismantling of pump suction, inlet, NRV, pump foundation, and 100mm suction pipe with a dummy plate through welding, shifting 7.5 HP pump 3rd floor to the terrace location on the 6th floor. 2) Reinstallation, testing and commissioning of the existing fire booster pump [BP] of a 7.5 HP (900 LPM)	1	No's	NA					
2	Quote rate to install the 100mm 'C' class GI pipe (available on-site), including polishing, painting with yellow primer and red paint, support fabrication, and necessary fitting items.	55	Meters	NA					
3	Other fitting & hardware items (Nut Bolts, fasteners, reducer, pump stand (HILTY), U Clamp GI 100MM (STD), MS Fabrication Support TATA Steel. (Additional Only)	Lump Sum		HILTY / ISI					
I	PUMP Attachments (starter panels, cables, pressure gauges etc.)								
1	Supplying, erecting, testing & commissioning of booster pump control panel (FCP) of cubical construction, fabricated from minimum 2 mm thick CRCA sheet, compartmentalised with hinged lockable doors, with enclosure protection class IP54, duly powder coated or painted with accessories duly painted with two coats of synthetic enamel paint of fire red colour over a coat of primer (ISC code 536 as per IS 2932 of 2003), cable alley, CT and digital amp and volt meter (Adequate MCB and Pole) ABB/Simens make suitable size of adequate size for all power connections having switchgears and accessories, mountings and internal wiring with adequate size copper conductor cable, earth terminals, numbering etc. complete in all respect, suitable for satisfactory operation of Booster Pump following incoming and outgoing, suitable for automatic & manual operation on 415V, 3 phase, 50Hz ac supply as per specifications	1	No's	ABB / Simense / legrand					
2	SITC of Repeater fire booster pump panel (Push start button) set with required MCB, Relay etc. (Adequate capacity of MCB & Pole) ABB/simens/legrand make with all required fittings.	1	No's	ABB / Simense / legrand					
3	Supplying and erecting 100 mm dia. pressure gauge , 0-300 PSI or 0-14 kg per cm square fitted with 12/15 mm dia. pad ball valve, erected with provided G.I. pipe, elbow etc. complete as per specification no. FF-FFA/PG	1	No's	Baumer / H-guru / Shree ji					
4	Supplying and erecting 12/15 mm dia pressure switch with provided ball valve, G.I. nipple, elbow, etc complete as per specification no. FF-FFA/PS	1	No's	DANFOS / Shree JI / H-guru					
J	CABLES								
1	SITC of 6 sq.mm x 4 Core Copper armoured Cable for starter panel incomer cable Polycab make including all fittings (Main incoming up to starter panel)	100	Meters	Polycab / RR / Finolex					
2	SITC of 4 Sq.mm x 4 Core Copper armoured Cable for Starter Polycab make including all fittings. (Starter panel to pump + Panel to push button)	100	Meters	Polycab / RR / Finolex					
3	SITC of 1.5 Sq.mm x 2 Core Copper armoured cable Polycab make including all fittings. (Starter panel to pump pressure switch)	30	Meters	Polycab / RR / Finolex					
	SITC Of Hydrant System Total								

K	Fire Alarm System (Addressable)								
1	SITC of FR, XLPE armoured cable 2 core 1.5 sq.mm. copper conductor complete erected on wall/ ceiling complete as per specification no. CB-LT/CU	2200	Meters	Polycab / RR / Finolex					
2	SITC of addressable optical smoke detector, single/twin LED's with 360 degree view, suitable for low voltage 15 to 32 V DC two wires supply, in-built locking mechanism to check the removal and pilferage of the detector, in built isolation mode, start up current 300µA and alarm condition current shall be maximum 6.5 mA, operating temperature 0°C to 50°C, humidity 0-95% RH, IP 41, conforming to IS 2189: 2008, 11360_1985_Reff2020 EN 54 or UL Approved with 3 years equipment replacement warranty FF-AFAS/SD.	225	No's	Honeywell / Bosch / Eaton					
3	SITC of addressable manual call points (break glass type/pull station type), made of addressable break glass plastic square in shape surface/flush mounted with "Break Glass" message embedded on the glass, complete erected with mounting base and required accessories conforming to EN 54 or UL listed with 3 years equipment replacement warranty FF-AFAS/MCP.	30	No's	Honeywell / Bosch / Eaton					
4	SITC of addressable horn cum strobe sound/ hooter, output frequency 500 to 1000 Hz with dB as per Chart given in IS 15908:2021, with flashing at 1 Hz over the strobe's entire operating voltage range EN 54, conforming to IS 2189: 2008, IS 15908:2021 standards with 3 years equipment replacement warranty FF-AFAS/SSH.	30	No's	Honeywell / Bosch / Eaton					
5	SITC of addressable fire isolator module complete as required. EN 54 /FM or UL Listed with 3 years equipment replacement warranty conforming to IS 5051Part 2 (Sec 1 to 3) : 1982 Reed relays FF-AFAS/ISM	9	No's	Honeywell / Bosch / Eaton					
6	Supplying, installing, testing and commissioning of addressable fire control/relay module complete as required, with 3 years equipment replacement warranty conforming to IS 5051Part 2 (Sec 1 to 3) : 1982 reed relays, EN 54 or UL Listed FF-AFAS/CRM	9	No's	Honeywell / Bosch / Eaton					
7	Supplying, installing, testing and commissioning of addressable fire monitor module complete as required. EN 54 or UL Listed with 3 years equipment replacement warranty conforming to IS 5051Part 2 (Sec 1 to 3) : 1982 Reed relays FF-AFAS/MM	9	No's	Honeywell / Bosch / Eaton					
8	SITC of micro processor based intelligent addressable main fire alarm panel, central processing unit with the 2 loop capacity and capable of supporting upto 250 devices and detectors per loop, with on-board LCD display with min 16 lines of text, operating at 230 V 50 HZ - AC with inbuilt Battery Backup of a minimum 24 hours in normal condition and 30 min in alarm condition, suitable provision for network connectivity, interfacing with third party equipment via a MODBUS/ OPC/ L-ON interface etc. conforming to IS 15908:2021, IS 2189: 2008, EN 54 & VDS / FM/ UL 864 (10th edition) with 3 years replacement warranty FF-AFAS/CP.	1	No's	Honeywell / Bosch / Eaton					
SITC of Fire Alarm System Total									
Supply Total A to K									
Installation Total A to K									
Total (Supply & Installation) A to K									
SGST 9%									
CGST 9%									
Supply & Installation Total With GST									

Note:

- Conventional fire alarm system is available on a total of 5 floors. We can also reuse the old cabling by cabling from the last detector of each zone of the same system to the first detector of the next zone.

- Required Exavation, scaffolding, crain/hydra, other equipments, core cutting, transportation, fitting & hardware items like Nut Bolts, fasteners, reducer, steel, primer,paint etc, and other fittings are considered with concerned installation.

- SITC (Supplying, installing, testing and commissioning)

- Every contractor/company should clearly mention things like project timeline, payment terms, warranty and maintenance, quality and adherence to standards along with the quotation.

- It is madetory for every contractor to visit the site prior submitting quotation