

**THE ODISHA STATE POLICE HOUSING & WELFARE CORPORATION LTD.**  
**JANAPATH, BHOINAGAR, BHUBANESWAR - 22**  
 [Electrical Division]  
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**PRICE BID FOR THE WORK UNDER SL. NO :- 02 AS PER IFB**

**NAME OF THE WORK :- SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF FIRE FIGHTING & SUPPRESSION SYSTEM AT LIBRARY BUILDING OF M.S LAW UNIVERSITY, CUTTACK.**

**BID REF NO :- 107/PM/ELECT/OPHWC/2022-23**

<b>NAME &amp; ADDRESS OF THE FIRM</b>	
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**SCHEDULE OF WORKS**

Sl. No.	Description of work	Unit	Qty.	Estimated Cost in Rs.	
				RATE IN RS.	AMOUNT IN RS.

**LIBRARY BUILDING , M S LAW UNIVERSITY( G+3), MORE THAN 15 MTR HEIGHT)**

<b>FIRE FIGHTING INSTLLATION BOQ</b>					
	<b>FIRE FIGHTING SYSTEM</b>				
1	<b>Fire Pump</b> Providing , fixing of terrace booster pump of 900 lpm,35meter head volute bronze impeller connected to a TEFC induction motor suitable for 410/440 volts, 3 phase , 50 cycles AC supply as per the details given below. <b>Make:Wilo / Kiloskar Or Lubi</b>	Nos	1	63940.00	63,940.00
2	<b>Pipes Used in Pump Room</b> Supply, Installation, Testing and Commissioning of the following sizes of flange jointed / screwed / welded, M.S. Pipes of Class c (Heavy class) ISI marked including accessories such as MS bracket, U clamps with Anchor fasteners, tees / elbows / reducers / couplings / unions / bends / flanges etc., and laying on the surface including painting with two coats of anticorrosive primer and two coats of approved red enamel paint after laying and testing after Installation etc. as per specifications complete as required. <b>Make:Pipes - Tata/Jindal ,Anchor fastener- Hilti/ Wurth</b>				
a	100mm nominal dia	Meter	42	2090.00	87,780.00
b	80mm nominal dia	Meter	6	1501.00	9,006.00
3	<b>Non Return Valve Or Check Valve</b> Providing and fixing cast iron dual plate check valves of PN1.6 including nuts, bolts, 1.5mm thick compressed asbestos gasket including matching flanges. <b>Make: SANT / ZOLOTO / KARTAR.</b>				
a	100mm nominal dia	NOS	1	5840.00	5,840.00

4	<b>Butterfly Valve</b>				
	Providing and fixing C.I. Butterfly valves conforming to PN 1.6/13095 with nuts, bolts, washers, 3mm thick insertion rubber gasket and two matching flanges.				
a	100mm nominal dia	NOS	3	4540.00	13,620.00
5	<b>Pressure Gauge</b>				
	Providing and fixing dial type pressure gauge with isolation cock and chrome plated copper pipe at hydrant station. Make - H-Guru. Dial diameter 100 mm calibration 0-15 kg/sp.cm	NOS	1	1300.00	1,300.00
6	<b>Pressure Switch</b>				
	Providing and fixing electrically operated dual type pressure switches with threaded connection for a pressure vessel, complete suitable for 0-15 Kg/Sq.cm model IPS-200. <b>Make - Dandfos.</b>	NOS	1	2240.00	2,240.00
7	<b>Ball Valve</b>				
	Providing and fixing brass ball valve with lever and screwed female ends.(20 kg/cm <sup>2</sup> )at all level and position . <b>Make:Zoloto/Kartar.</b>				
a	25mm dia	NOS	5	1129.26	5,646.30
8	<b>Air Release Valve</b>				
	Supplying and fixing approved make 25 mm dia automatic air release valve suitable for 20kg/sqcm working pressure with necessary fittings complete in all respect at all level and position. <b>Make: Zoloto/Kartar.</b>	Each	1	1250.00	1,250.00
9	<b>Fire Brigade Inlet</b>				
	Providing & fixing Gunmetal collecting head with 63 mm dia instantaneous type inlet and 150 mm dia flanged outlet fire brigade connection to fire risers (I.S. 904-1965) complete with companion flange as per table "E" nuts, bolts, gasket included cutting & welding at all level and position. <b>Make:Fire shield / KARTAR</b>				
a	Two way	NOS	1	5730.00	5,730.00
10	<b>Fire Pump Control Panel</b>				
a	Supply , Installation , testing and commissioning of control panel of 450lpm fire pump. <b>Make -ASES/LUBI/GREEN POWER .</b>	NOS	1	18000.00	18,000.00
11	<b>Landing Valve Or Hydrant Valve</b>				
	Providing and fixing SS landing valve conforming to IS-52290 with 63 mm dia. instantaneous female coupling on the outlet with PVC cap with chain, necessary companion flanges ( as per table "E") nuts, bolts, washer and gasket complete as per specification. (ISI marked). <b>Make: SAFE GUARD / KARTAR /</b>	NOS	4	7258.00	29,032.00

12	<b>RRL Hose Pipe</b>				
	Providing and fixing SS coupling 63 mm dia. 15m long rubberized EPDM lined hose including SS male and female instantaneous type coupling approved by fire authority. <b>Make:SAFE GUARD / KARTAR / SWASTIK</b>	NOS	8	5500.00	44,000.00
13	<b>Branch pipe</b>				
	Providing and fixing standard short size SS branch pipe with SS nozzle 16 mm dia. outlet with standard instantaneous type 63 mm dia. coupling. (ISI marked) . <b>Make:SAFE GUARD / KARTAR / SWASTIK</b>	NOS	4	2090.00	8,360.00
14	<b>Hose Box</b>				
	Providing and fixing fire hose cabinet fabricated from 16 gauge M.S. sheet with locking arrangement and hanging arrangement for accessories painted "Fire Red" with enameled paint "Fire Hose" written on front including suitable supports to place 900 mm above ground level properly anchored, approximately size 750x600x250 mm deep (to house two lengths of canvas hose with couplings, branch pipe with nozzle for external hydrants)	NOS	4	3600.00	14,400.00
15	<b>Hose Reel Drum</b>				
	Providing and fixing first aid fire hose reel drum wall mounting, swinging type fitted with 20mm dia. B129 30m long high pressure rubber hose type -II to IS. 5132 or nylon braided polypropelene hose of approve make with 5 mm outlet S.S. nozzle with shut off valve (IS. 884-1969). <b>Make:SAFE GUARD / KARTAR / SWASTIK</b>	NOS	4	8180.00	32,720.00
16	<b>Structrual Support</b>				
	Providing and fixing M.S. structural work fabricated from standard sections e.g. M.S. Rounds, angles, channels, GI clamps including cutting to size drilling, welding including insert plates or "Hilti/ Wurth fastners of required specification in RCC structural/masonry.	Kg.	18	101.00	1,818.00
17	Supply , Installation , testing and commissioning of 3c x 10sqm aluminium cable. <b>Make-Polycab/Finolex.</b>	RMT	50	173.00	8,650.00
18	<b>Convensational Fire Alarm System</b>				
	Supply ,Installation,testing & Commissioning of convensational Fire Alarm Panel with back up battery. <b>Make - Agni /ASES Or GST.</b>				
a	4zone panel	NOS	1	14990.00	14,990.00
b	Supply ,Installation,testing & Commissioning of convensational Manual Call Point <b>Make - Agni /ASES Or GST.</b>	NOS	4	750.00	3,000.00
c	Supply ,Installation,testing & Commissioning of convensational Hooter . <b>Make - Agni /ASES Or GST.</b>	NOS	4	840.00	3,360.00

d	Providing,fixing,testing and commissioning of 2cx1.5sqmm pvc cable with condute.	MTRS	150	124.00	18,600.00
19	<b>FIRE EXTINGUISHERS</b>				
	<b>Fire Extinguisher . Make -Fire shield/Kanex/Safex .</b>				
a	Providing and fixing Carbon-di-oxide fire extinguishers. Capacity 4.5 kg. ISI Marked.	NOS	4	6270.00	25,080.00
b	Providing and fixing stored pressure portable (powder type) ABC - 6.0 kg fire extinguishers including all accessories as per latest IS with wall bracket and rawl plug .	NOS	12	3300.00	39,600.00
20	<b>Sand Bucket .</b>				
a	Sand Bucket as per IS specification .	NOS	3	500.00	1,500.00
b	Bucket stand to store 3nos of Bucket also having aluminium sheet above the atand to prevent the sand from rain/Sunset.	NOS	1	2820.00	2,820.00
21	<b>SUPPLY &amp; INSTALLATION OF SIGNAGE LIGHTING</b>				
	<b>PART-F FIRE EXIT SIGNAGES</b>				
	Supply and fixing of wall mounting type Auto glow signages of different type like, fire exit with one side arrow /do not use lift in case of fire/Emergency Exit/Staircase Indicating Arrow etc . Sizes :-300x150mm . type .	NOS	8	690.00	5,520.00
1	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes conforming to IS:15778,having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge.				
a	50 mm dia Pipe (CPVC)	MTR	25	900.48	22,512.00
a	40 mm dia Pipe (CPVC)	MTR	15	588.36	8,825.40
2	Cutting holes through existing brick work including making good the same in cement mortar (1:4) for taking GI/PVC pipes and fittings etc all complete as per specification.				
a	250 mm thick wall (10")	NOS	4	46.35	185.40
3	Cutting hole in R.C.C floors and roofs upto 19 cm thick for passing G.I / P.V.C pipes and fittings etc and repairing the holes after insertion of pipes etc with cement concrete (1:2:4) including finishing complete so as to make it leak proof.				
a	Detail cost per I hole of size (15cmX15cmX25cm)	NOS	4	154.63	618.52
4	Fixing of U.P.V.C Ball Valve of 50 mm diameter conforming to the following nominal sizes with wheel as per specification complete.(solvent welded with metal ball)as per the direction of EIC.				
	50 mm dia U.P.V.C Ball Valve	NOS	2	2415.30	4,830.60

5	Fixing Rotational moulded polyethylene cylindrical vertical water storage tanks conforming to IS : 12701--1996 including cutting holes through the tank and fixing mild steel tubes and fittings and providing extra sockets and jam nuts, fixing ball valve etc, including hoisting upto a height of 5 metres above ground level and placing the tank to the required position etc all complete as per specification and direction of the E.I.C.				
	Double Layer Cylindrical Vertical water storage tanks	LTR	20000	10.71	214,200.00
6	Extra over item No 25 for hoisting Rotational moulded polyethylene cylindrical vertical water storage tanks of the following size for every additional height of 5 metres or part there of (Excluding ground floor).				
	Cost for hoisting the water tank above 5 meter (for each addl. 1 Mtr)	MTR	60	34.20	2,052.00
7	Construction of Valve Chamber for sluice Valve of size 1000 x 1000 x1200 mm with 230 mm thick brick wall and MS chequered plate.(Pump House for Terrece) (SUBJECT TO ACTUAL)	JOB	1	15,000.00	15,000.00
GRAND TOTAL RS.					<b>736,026.22</b>
Total Estimated Cost					<b>736,026.22</b>
Total Estimated Cost in Figures					<b>736,026.00</b>
EXCESS	<input type="text"/> LESS <input type="text"/> (Please Tick)	_____ %			
Quoted Amount in Figure					
Quoted Amount in words					

N:B- The Estimated cost is exclusive of GST .

**Signature of Tenderer with seal**

Sd/-  
Asst. Project Manager [Elect.]

Sd/-  
APM (Elect.) Hqr.

Sd/-  
Project Manager (Elect.)