



THE INSTITUTE OF CHARTERED ACCOUNTANTS OF INDIA(ICAI)

OFFICE BUILDING AT PLOT NO. 1,
PSP AREA, NEAR AIIMS, BAAGH
SEWANIA, BHOPAL.

ICAI BHAWAN, BHOPAL, (M.P)

REQUEST FOR PROPOSAL (RFP)

FOR

INSTALLATION OF FIRE FIGHTING SYSTEM

PART - II (Price Bid)

Name of Tenderer : _____

Address : _____

Date of Submission : _____

**ABSTRACT OF ESTIMATE FOR PROVIDING AND FIXING OF FIRE
FIGHTING SYSTEM FOR ICAL., BHOPAL.**

S.NO	PARTICULARS	AMOUNT	REMARK
1	FIRE HYDRANT SYSTEM		
2	FIRE ALARM SYSTEM		
3	50000LTR UG WATER TANK		
	TOTAL (Rates shall be inclusive of GST & other taxes as applicable)		

ESTIMATE OF ITEMS FOR PROVIDING AND FIXING OF FIRE FIGHTING SYSTEM FOR ICAL, BHOPAL.

S. No.	Item Description	Unit	Qty.	Rate	Amount
A	FIRE HYDRANT				
1	<p>Supplying, installation, testing and commissioning of Electric driven Main Fire Pump suitable for automatic operation and consisting of following, complete in all respects, as required :</p> <p>(a) Horizontal type, multistage, centrifugal, split casing pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal conforming to IS 1520.</p> <p>(b) Suitable HP Squirrel cage induction motor, TEFC, synchronous speed 1500 RPM, suitable for operation on 415 volts, 3 phase 50 Hz, AC supply with IP 55 protection for enclosure, horizontal foot mounted type with Class-'F' insulation, conforming to IS-325.</p> <p>(c) M.S. fabricated Common base plate, coupling, coupling guard, foundation bolts etc. as required.</p> <p>(d) Suitable cement concrete foundation duly plastered with anti vibration pads.</p> <p>e) 1620 LPM, at 56 Mtr Head</p>	Nos	1.00		
2	<p>Supplying, installation, testing and commissioning of electric driven pressurisation pump suitable for automatic operation and consisting of following, complete in all respects, as required : (Jockey Pump) Horizontal type, multistage, centrifugal pump of cast iron body and bronze impeller with stainless steel shaft, mechanical seal conforming to IS : 1520.</p> <p>Suitable HP squirell cage induction motor TEFC type suitable for operation on 415 volts, 3 phase 50 Hz AC supply with IP 55 class of protection for enclosure, horizontal foot mounted type with Class-'F' insulation, conforming to IS : 325.</p> <p>M.S.fabricated Common base plate, coupling, coupling guard, foundation bolts etc. as required.</p> <p>Suitable cement concrete foundation duly plastered and with anti vibration pads.</p> <p>180 LPM at 56 Mtr head</p>	Nos	1.00		
3	<p>Fabrication, supply, Insallation testing & commissioning of Electrical control panel of cubical construction, floor mounted type, fabricated out of 2mm thick CRCA sheet, compartmentalised with hinged lockable doors, dust and vermin proof, powder coated of approved shade after 7 tank treatment process, cable alley, interconnection</p> <p>with suitable size copper conductor cable/solid copper strip, having switchgears and accessories, mountings and internal wiring, earth terminals, numbering etc. complete in all respect, suitable for main fire pump, pressurisation pump & diesel pump set complete as per CPWD specification with following in coming and Outgoings, suitable for operation on 415V, 3 phase, 50Hz Ac Supply with enclosure protection class IP 42 as required :</p>	Nos	1.00		
4	<p>Providing laying, testing & commissioning of 'C' class heavy duty MS Pipe conforming to IS 1239/3589 i/c fittings like elbows, tees, flanges, tapers, nuts bolts, gaskets etc. in ground including welding, excavation & providing cement concrete blocks as supports, anticorrosive treatment with coaltar/asphalt tape as per IS 10221, refilling the trench etc. of following sizes complete as required</p>				

a)	200 mm dia	Mtr	6.00		
b)	150 mm dia	Mtr	240.00		
5	Providing, laying, testing & commissioning of 'C' class heavy duty MS pipe conforming to IS 3589/IS 1239 including Welding, fittings like elbows, tees, flanges, tapers, nuts bolts, gaskets etc. and fixing the pipe on the wall/ceiling with suitable clamp/support frame and painting with two or more coats of synthetic enamel paint of required shade complete as required				
a)	100 mm dia	Mtr	60.00		
b)	80 mm dia	Mtr	30.00		
c)	65 mm dia	Mtr	15.00		
d)	40 mm dia	Mtr	15.00		
e)	50 mm dia	Mtr	12.00		
f)	25 mm dia	Mtr	108.00		
6	Supplying and fixing single headed internal hydrant valve with instantaneous Gunmetal/Stainless Steel coupling of 63 mm dia with cast iron wheel ISI marked conforming to IS 5290 (Type -A) with blank cap and chain as required :				
a)	63mm dia	Nos.	11.00		
7	Supplying, fixing, testing and commissioning of butterfly valve PN 1.6, with Bronze/Gunmetal seat duly ISI marked complete with Nuts, Bolts, washers, gaskets, confirming to IS 13095, of following sizes as required.				
a)	150 mm dia	Nos.	6.00		
b)	100 mm dia	Nos.	6.00		
c)	65 mm dia	Nos.	1.00		
d)	50 mm dia	Nos.	1.00		
8	Supplying and fixing orifice plate made out of 6 mm thick stainless steel (Grade 304) with orifice of required size to be fitted between flange & landing valve of external and internal hydrants to reduce pressure at the outlet to the level of 3.5 kg/cm ² complete as required.	Nos.	11.00		
9	Providing, installation, testing and commissioning of dual plate non-return valve of following sizes confirming to IS 5312 complete with rubber gasket, GI bolts, nuts, washers etc. as required.				
a)	65mm dia	Nos.	1.00		
b)	100mm dia.	Nos.	2.00		
b)	150mm dia	Nos.	2.00		
10	Providing, fixing, testing & commissioning of installation control valve of cast iron body, brass/bronze working parts comprising of water motor alarm, bronze seat clapper, clapper arm and hydraulically driven mechanical gong bell to sound continuous alarm when the wet riser/sprinkler system activates, pressure gauges, emergency releases, strainer, pressure switch, cock valve complete with drain valve and bypass, test control box, ball valves, MS pipe of required size, flanges, orifice plate, gasket etc of following sizes 10mm	Nos.	1.00		

11	Providing, installation, testing and commissioning of stainless steel Y-strainer fabricated out of 1.6 mm thick stainless steel, Grade 304, sheet with 3 mm dia holes with stainless steel flange. 200mm				
a)	150 mm dia	Nos.	2.00		
12	Providing and fixing following dia, 15 mtr long RRL hose pipe with following dia male and female stainless steel couplings duly binded with GI wire, rivets etc. confirming to IS 636 (type-A) as required.				
a)	63 mm dia	Nos.	14.00		
13	Supplying and fixing first-aid Hose Reel with MS construction spray painted in post office red, conforming to IS 884 complete with the following as required. 20 mm nominal internal dia water hose thermoplastic (Textile reinforced) type -2 as per IS: 12585 20 mm nominal internal dia gun metal globe valve & nozzle. Drum and brackets for fixing the equipments on wall. Connections from riser with 25 mm dia stop gun metal valve & M.S. Pipe and socket.				
		Nos.	5.00		
14	Providing and fixing 63mm stainless steel branch pipe with 20 mm (nominal internal diameter) size stainless steel nozzle conforming to IS 903, suitable for instantaneous connection to interconnect hose pipe coupling as required.				
		Nos.	6.00		
15	Providing and fixing 2 way fire brigade connection (FBC) of cast iron body with 2 nos. gun metal male instantaneous inlet couplings complete with cap and chain as required. For 150mm dia MS pipe connection, confirming to IS 904 as required.				
		Nos.	1.00		
16	Supplying and fixing air vessel made of 250 mm dia, 8 mm thick MS sheet, 1200 mm in height with air release valve on top and flanged connection to riser, drain arrangement with 25 mm dia gun metal wheel valve with required accessories, pressure gauge and painting with synthetic enamel paint of approved shade as required.				
		Nos.	1.00		

17	Providing, fixing and commissioning of 15mm size quartzoid bulb type sprinklers. Set to operate at 68degree centigrade. Pendant type type with required accessories complete as directed by engineer in charge	Nos.	45.00		
18	Providing and fixing Pressure switch in the MS pipe Line including connection etc. as required.	Nos.	2.00		
19	Supplying, installation, testing & commissioning of sprinkler flexible pipe (UL Listed) of stainless steel complete with 15 NPT on reducer thread with maximum working pressure of 175 PSI test pressure of 875 PSI (Burst) with branch line (Inlet) 25mm NPT male thread to sprinkler head (Outlet) 15mm NPT female thread with reducer, nipple, 2 side brackets, center bracket, stockbar of sizes 1200mm complete as required.	Nos.	45.00		
20	Providing, installation, testing & commissioning of adjustable rosette plate for 15mm dia in white finish UL Listed or FM approved complete as required.	Nos.	45.00		
21	Providing and fixing of carbon-di-oxide type fire extinguishers consisting of welded M.S. cylindrical body, squeeze lever discharge valve fitted with pressure indicating guage internal discharge tube 30 cms long high pressure discharge hose, discharge nozzle, suspension bracket confirming to IS:15683 finished externally with red enamel paint and fied to wall with brackets complete with internal charge.				
	Capacity 4.5 Kg.	Nos.	20.00		
22	Providing and fixing of ABC Powder type fire extinguishers consisting of welded M.S. cylindrical body, squeeze lever discharge valve fitted with pressure indicating guage internal discharge tube 30 cms long high pressure discharge hose, discharge nozzle, suspension bracket confirming to IS:15683 finished externally with red enamel paint and fied to wall with brackets complete with internal charge.				
	Capacity 6 Kg.	Nos.	40.00		
23	Supply, installation and testing of weather prof fire Hose Cabinets fabricated from heavy M.S. Sheets with full front glass door and locking arangement suitable to accommodate 2 Nos 15 Mtr long hoses and 1 No Branch pipe, dully painted	Each	11.00		

24	Providing and fixing & connecting D.G. Set with the main fire pump for automatic switch well in case of power failure. Including 10sqm 4 core armoured necessary 150 runnibg metre cable change we switch conduct bends joints etc complete in all respect including in change necessary civil works as per th instruction of Architect/Engineer in charge	Nos	1.00		
TOTAL A				TOTAL	
B	FIRE ALARM SYSTEM				
25	Supply, installation and testing of 6 zone microprocessor based automatic main fire alarm control panel- Make System Sensor/ honeywell Approved	Each	1.00		
26	Supply, installation and testing of Heat detectors - Make System Sensor/honeywell Approved	Each	5.00		
27	Supply, installation and testing of Smoke detectors - Make System Sensor/honeywell Approved	Each	102.00		
28	Supply, installation and testing of manual call points Make-Agni	Each	7.00		
29	Supply, installation and testing of 24V Hooter with Strobe light- Make - Agni	Each	7.00		
30	Cable : Supply, Installation, Testing & Commissioning of 600/1000 V grade 2X1.5 sq. mm. copper Armoured Cable.	Per Mtr.	500		
31	Cable : Supply, Installation, Testing & Commissioning of 1.1KV/1100 V grade PVC insulated 2X1.5 sq. mm. copper Flexibe Cable.	Per Mtr.	150.00		
32	Supplying and fixing PVC conduit ISI marked along with the accessories in concealed system etc. as required				
	PVC . Conduit 25 mm (HMS)	Per Mtr.	500		
	PVC . Conduit 50 mm (HMS)	Per Mtr.	500		
TOTAL – B				TOTAL	

**ESTIMATE FOR PROPOSED 50000 LTR UNDERGROUND TANK FOR ICAI,
BHOPAL, (M.P)**

S. No.	Item	Quantity	Unit	Rate	Amount
	A - CIVIL WORK				
1	Earth work in excavation by mechanical means (Hydraulic Excavator)/ manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. or as directed by an engineer (No extra lift is payable if work is done by mechanical means)				
	All kinds of soil.	89.54	Cum.		
2	Excavation work by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains not exceeding 1.5 m in width or 10 sqm on plan including dressing of sides and ramming of bottoms lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50m.				
	Ordinary rock	17.06	Cum.		
3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
	With 40mm nominal size graded stone aggregate. Nominal Mix -1 Cement : 3 sand : 6 graded stone aggregate (M 10)	5.26	Cum.		
4	Providing and laying in position specified grade of reinforced cement concrete (with 20mm nominal size graded stone aggregate) excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :				
a	M 20 –Grade Concrete	18.40	Cum.		
5	Reinforced cement concrete work (with 20mm nominal size graded stone aggregate) in beams, suspended floors, roofs having slope of any degree landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level and up to all level excluding the cost of centering, shuttering, finishing and reinforcement in concrete grade.				
	M 20 –Grade Concrete	6.18	Cum.		

6	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding including cost of binding wire up to all level including all wastage etc. complete.				
	Thermo- Mechanically Treated bars. (TMT) (Fe-500)	2949.72	kg		
7	Centering and shuttering including strutting, propping etc. and removal of form for :				
a	Foundations, footings, bases of columns, etc. for concrete up to plinth level.	7.32	Sqm.		
b	Walls (any thickness) including attached pilasters buttresses, plinth beams and string courses etc.up to plinth level.	82.08	Sqm.		
c	Suspended floors, roofs, landings, balconies and access platform.	35.32	Sqm.		
8	Filling available excavated earth (excluding hard rock/Ordinary rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m or as per direction and lift upto 1.5 m.	17.06	Cum.		
9	6 mm cement plaster of mix : 1:3 (1 cement : 3 sand) note:-on rcc wall & slab	74.92	Sqm.		
10	Providing and laying rectified Glazed Ceramic floor tiles 300x300 mm or more (having thickness 9 to 10mm) of 1st quality conforming to IS : 15622 of approved make in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick Cement Mortar 1:4 (1 Cement : 4 sand) including pointing the joints with white cement and matching pigments etc., complete.note:- on wall & floor	65.85	Sqm.		
11	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses/frame work etc. including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete. note:- (monkey ladder & chamber cover) and shade				
	Hot finished welded type tubes	950.00	Kg		

12	proofing on horizontal surface at all depth below ground level for under ground structures as directed by Engineer-in-Charge and consisting of : (i) Ist layer of 22 mm to 25 mm thick approved and specified rough stone slab over a 25 mm thick base of cement mortar 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound conforming to IS:2645 in the recommended proportion over the leveling course (leveling course to be paid separately). Joints sealed and grouted with cement slurry mixed with water proofing compound. (ii) 2nd layer of 25 mm thick cement mortar 1:3 (1 cement: 3 coarse sand) mixed with water proofing compound in recommended proportions. (iii) Finishing top with stone aggregate of 10 mm to 12 mm nominal size spreading @ 8 cum/sqm thoroughly embedded in the 2nd layer. Using Rough Kota Stone	72.00	Sqm		
13	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade: Two or more coats on new work	15.00	Sqm		
14	Providing and fixing pre-coated galvanised iron profile sheets (size, and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm + 0.05 %, total coated thickness with zinc coating 120 gsm as per IS: 277 in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches while transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self-drilling /self-tapping screws of size (5.5x 55mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required. for wall & roof	65.00	Sqm		
15	Providing and placing on terrace (at all floor levels) polyethylene water storage tank ISI : 12701 marked with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank	10000	Ltr.		
	Add extra for additional floor lift beyond 5.0M.height.	10000	Ltr.		
		Total			