

INDIAN BANK FGM OFFICE , NEW DELHI-110001

TENDER DOCUMENT FOR FIRE FIGHTING SYSTEMS- INSTALLATION AND REPAIR WORKS AT 17, PARLIAMENT STREET BUILDING, INDIAN BANK

PART II - FINANCIAL BID

FIRE WORKS ARCHITECT /CONSULTANT: M/s Vastu Manadal

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BILL / SCHEDULE OF QUANTITIES

S. NO.	DESCRIPTION	UNIT	QTY	RATE (Fig)	RATE (Words)	AMOUNT (Rs)
Α	FIRE HYDRANT SYSTEM					
1	Supply and fixing Single headed, Stainless Steel SS 304, ISI marked oblique pattern					
	hydrant landing valve with 80 mm dia flanged inlet and 63 mm dia instantaneous					
	type female outlet complete with cap and G.I. chain, twist release type plug and all		١.			
	accessories as per IS:5290-1983 (Type 'A')	Each	4			
2	Supply and fixing Non-percolating flexible hose (RRL type-'A') ISI marked (IS:636) 63					
2	mm dia x 15 M long complete with instantaneous type SS, 63 mm dia. IS marked					
	Male and female couplings (IS:903) bound and rivetted to hose pipe with G.I and					
	G.I wire.	Each	24			
3	Supply and fixing of 25mm dia ball valve for Hose Reel connection as per IS standard.					
		Each	12			
4	Supply and fixing of Stainless steel 304, 63 mm dia short size branch pipes with 20	Each	12			
	mm dia nozzles (ISI marked (IS :903))	EdCII	12			
5	Providing and fixing First-Aid Fire Hose Reel wall mounting swinging type complete					
	with drum, bracket, 20 mm dia x 30M long high pressure Hose Reel tubing as per					
	IS:444 with shut-off nozzle having 5mm dia. orifice, fixing 25 mm dia Ball valve. etc.,					
	The Hose Reel shall strictly confirm to IS: 884 -1985.					
		Each	12			
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6	Providing and fixing Weather proof hose cabinets fabricated from 16 g M.S. Sheet with full glass door and locking arrangement. The cabinet shall be painted with one					
	coat of primer and finished stove enamelled "Fire Red" (Approx 0.75m x 0.6 m x 0.3					
	m) Size.	Each	4			
	inj size.					
7	Providing and fixing CI Body fire brigade inlet connection conforming to IS: 904-					
	1965 tested for 20 kg/cm2 pressure with 63 mm dia instantaneous type gunmetal					
	inlet and 150 mm dia flanged outlet with built in check valve for fire brigade					
	connection to fire risers with companion flanges, nuts, bolts, gaskets, etc. complete					
	in all respects.		1			
а	4 way (For Hydrant System)	Each				
8	Providing and fixing Gunmetal suction coupling for fire brigade draw out of water					
	from fire tank with 100 mm dia pipe with companion flange, Cast Iron foot valve	Each				
	including nuts, bolts, gasket etc. complete in all respects.		1			

S. NO.	DESCRIPTION	UNIT	QTY	RATE (Fig)	RATE (Words)	AMOUNT (Rs)
9	Providing and fixing of Mild Steel pipe (IS:1239 Part-I) Heavy 'C' class including cutting, threading, welding etc. bends, elbows reducers, unions, flanges, rubber gasket clamps, G.I. nuts bolts washer, hangers etc., including all necessary pipe support, cutting to size, drilling, welding / fixing and pipe on wall using anchor fastners, including painting with one coat of primer and two or more coats of synthetic enamel paint of approved make and shade including, as directed by Engineer-in-Charge.					
а	150mm dia	RM	15			
b	80mm dia	RM	15			
10	Supplying and fixing dial type pressure gauge with isolation ball valve and chrome plated copper pipe at hydrant station.					
	Dial diameter 100 mm calibration 0-16 kg/cm ² .	Each	10			
11	Providing and fixing brass ball valve full bore type tested for 16 kg/cm2 with lever and screwed female ends.					
	25 mm dia full bore type	Each	12			
12	Providing and fixing dial type pressure Switch complete in all respect.	Each	5			
	(A) Total Carried Over to	Summary				
(B)	FIRE SUPPRESSION SYSTEM					
I	Supply, installation, testing and commissioning of NASA tubing based suppression system for Electrical Panel (System includes: HFC227EA (Clean Agent) with SS 304 cylinder & SS 304 Value, spring Top plug, end of line Pressure Gauge and Low - Pressure Switch) complete in all respect or as directed by engineer-in-charge.					
(i)	Capacity of Clean Agent 2.0 Kg	Set	1			
II	Supply, installation, testing and commissioning of Linear Pneumatic Heat Detection Tube.	Mtr	90			
III	Supply, installation, testing and commissioning of Pressure monitoring Panel & Audio visual Alarm complete in all respect	Set	1			
	(B) Total Carried Over to	Summary				
101	DEDAUDING OF ADDRESS AD F. FIRE ALL ADAS SYSTEM					
(C)	REPAIRING OF ADDRESSABLE FIRE ALARM SYSTEM					

S. NO.	DESCRIPTION	UNIT	QTY	RATE (Fig)	RATE (Words)	AMOUNT (Rs)
1	Repairing of Microprocessor Based 8 Loop Panel expandable upto 10 loop Ture Peer-to-Peer Networkable Addressable Fire Alarm Control Panel with minimum 600 characters LCD display, 4000 thousand event 1000 alarm log history events, Owerty Keypad for programming. The panel should be equiped with sufficient numbers of loops considering 20% sare capacity in each loop. Each loop shall have capacity of minimum 159 analog addressable detectors and 159 analogue addressable devices. The panel shall work in degarde mode in case of CPU failure (inbuilt processor). Four access levels, flash EPROM, 240 V AC power supply, automatic battery charger, 24 volt sealed lead acid batteries sufficient for 24 hour normal working and 30 mins in alarm condition.	Set	1			
2	Repeater Panel for Main Panel	Set	1			
3	Supply, installation, testing, & comissioning of Addressable Mannual Call Point	Nos.	12			
4	Supply, installation, testing, & comissioning hooter	Nos.	12			
		N	40			
5	Supply, installation, testing, & comissioning fire fighting phone jack	Nos.	12			
	(C) Total Carried Over to	Summary				
	(c) Total carried over to	Janimai y				
D	FIRE DOOR					
1	Providing and fixing 2 hr Rating SS Steel fire door					
	46 mm thick Steel Fire Check Door (Double/Single leaf) of 120 minutes Fire rating confirming to					
	BS:476 Part-22 and IS:3614 Part-II. Door shutter are fabricated with 0.8 mm thick galvanized					
	steel sheet pressed formed to provide a 46 mm fully flush double skin panel lock with seam					
	joint. The internal construction of panel specially design Honey comb structure with					
	reinforcement at all around. The door frames are made from 1.2 mm thick galvanized steel					
	sheet pressed form of size 100 mm x 57 mm.					
	(Width x Height)					
a.	1825mm x 2055mm (First Floor)	Each	1			
b.	1820mm x 2050mm (Second Floor)	Each	1			
C.	1785mm X 2070mm (Third Floor)	Each	1			
d.	1780mm x 2070mm (Fouth Floor)	Each	1			
е.	1500mm x 2000mm (Pump Room)	Each	1			
	Hardware:					
	Providing & Fixing of "Garg Make" SS Ball Bearing Hinges of 4" x 3" x 3mm complete with SS					
2	Screws (100 x 75 x 3 mm)	Each	36			

S. NO.	DESCRIPTION	UNIT	QTY	RATE (Fig)	RATE (Words)	AMOUNT (Rs)
	Providing & Fixing Vision Panel 300 x 300 x 6 mm thick clear glass- 2 Hours Fire Rated "Make-					
3	Schott"	Each	10			
4	Providing of Door Closer "Make:Yale / Assa Abloy"	Each	10			
	Providing of Dead lock with both key "Make:Yale / Assa Abloy"		_			
5	Providing of Dead lock with both key Make: Yale / Assa Abloy	Each	5			
6	Providing of D Type Handle 300 mm long "Make:Yale / Assa Abloy"	Each	10			
0	Troviding of Drype Handle 300 min long Wake. Fale / Assa Abioy	EdUII	10			
7	Providing & Fixing of Tower Bolt	Each	5			
,		Lucii	3			
8	Providing & fixing Anchor Fastener	Each	50			
9	Packing Charges	Each	5			
10	Installation Charges	Each	5			
	(D) Total Carried Over to	Summary	'			
E	Sprinkler System					
Α	Sprinkler System					
	Providing and fixing brass quartzoid sprinklers (UL Underwriters Laboratories Listed)					
1	suitable for 175 psi(12 Bars) maximum working pressure and 7 psi(0.5 Bars) minimum operating pressure with 1/2"NBT or BSPT threaded opening complete in all					
'	respects. The type & temperature rating shall be as follows.					
	respects. The type a temperature rating shall be as follows.					
a)	K-80 Pendent type sprinkler (68°)	Each	425			
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	Providing and fixing UL/Fm listed SS branded flexible pipe with accessories complete					
2	with all accessories specified in technical specifications(Size=15NB)					
_	1000		450			
a	1000 mm 1500 mm	nos	450 200			
b	1300 111111	nos	200			
			<u> </u>			1

S. NO.	DESCRIPTION	UNIT	QTY	RATE (Fig)	RATE (Words)	AMOUNT (Rs)
3	Providing and fixing of Mild Steel pipe (IS:1239 Part-I) Medium 'C' class including cutting, threading, welding etc. bends, elbows reducers, unions, flanges, rubber gasket clamps, G.I. nuts bolts washer, hangers etc., including all necessary pipe support, cutting to size, drilling, welding / fixing and pipe on wall using anchor fastners, including painting with one coat of primer and two or more coats of synthetic enamel paint of approved make and shade including, as directed by Engineer-in-Charge.					
	Of man dia	RM	1,100			
a b	25mm dia 32mm dia	RM	20			
	40mm dia	RM	24			
C d	50mm dia	RM	24			
e	65mm dia	RM	36			
f	80mm dia	RM	60			
q	100mm dia	RM	100			
h	150mm dia	RM	200			
- "	130mm dia	IXIVI	200			
4	Providing and fixing slim seal Butterfly valves complete with 2 Nos matching flanges rubber insertion, nuts, bolts ,washer etc. of following sizes and necessary padlock arrangement					
	a) 150 mm dia	Each	1			
	a) 100 mm dia	Each	2			
	b) 80 mm dia	Each	2			
5	Providing and fixing dial type pressure gauge with isolation ball valve and chrome plated copper pipe at hydrant station.					
а	Dial diameter 100 mm calibration 0-16 kg/cm ² .	Each	4			
6	Providing and fixing brass ball valve full bore type tested for 16 kg/cm2 with lever and screwed female ends.					
а	25 mm dia full bore type	Each	4			
7	Providing and fixing gunmetal single acting air release valve with screwed inlet 25 mm dia	Each	2			
8	Providing & fixing 25mm dia. gunmetal inspector test and drain valve with integral sight glass connected to drain line complete in all respects.	Each	4			

S. NO.	DESCRIPTION	UNIT	QTY	RATE (Fig)	RATE (Words)	AMOUNT (Rs)
9	Providing & fixing water flow switches for sprinkler system, shall have sensitivity in the range of 4 to 10 US gallon per minute and static pressure rating of 450 PSI including accessories, junction box, suitable for indoor / outdoor mounting. The detector shall respond to water flow in the specified direction after a preset time delay that is field adjustable, complete as required suitable for fixing on fire pipe including connection for					
	wiring.	Each	2			
10	Supply, installation, testing, & comissioning of 2 x 1.5 sq.mm FRLS Copper Conductor Cable.	RM	200			
	(E) Total Carried Over to	 Summary	,			
F	Fire Extinguishers					
	PORTABLE FIRE EXTINGUISHERS					
	Providing and fixing of ISI (IS:15683) Portable fire Extingusher, Foam Type Flat base including valve, Discharge hose & complete in all respects Foam Type Extinguisher stored pressure type Construction and rating shall confirm to IS: 15683					
	a) Capacity 9 ltr	Each	1			
2	Providing and fixing of ABC. Powder type fire extinguishers consisting of welded M.S. cylinderical body, squeeze lever discharge valve fitted with pressure indicating gauage internal discahrge tube 30 cms long high pressure discharge hose, discharge nozzle, suspension bracket confirming to IS:15683 finished externally with red enamel paint and fixed to wall with brackets complete with internal charge.					
	a) Capacity 6 Kg	Each	0			
3	Providing and fixing OF ISI marked (IS:15683) Portable fire Extinguisher, Carbon-dioxide type flat base including valve, discharge hose & complete in all respects including initial fill with C02 gas confirming to IS:307-1966.					
	a) Capacity 4.5 Kg	Each	10			
	b) Capacity 6.5 Kg	Each	10			
	(F) Total Carried Over to	Summary 				
G	Fire Water Tank					
1	Providing and fixing of new PVC Overhead Tank(s) of Capacity at terrace with neceesary piplines and fittings and making all connections to the tank as required to make the tank functioning in all respects		10000			
	(G) Total Carried Over to	Per Lit	10000			
Н	MISC. WORKS	Summary				
П	Dismantling & shifting the existing FHC, Hydrants, making chamber wherever					
	required, complete as directed by the Engineer / site encharge.					
	and the state of t	Set	2			

S. NO.	DESCRIPTION	UNIT	QTY	RATE (Fig)	RATE (Words)	AMOUNT (Rs)
	Reuse of Existing Pipes, Landing Valves & Related Accessories wherever required after					
	Painting, Testing Complete as Directed by the Engineer / Site Encharge.	JOB	1			
3	Repairing of fire panel & changing the defective accessaries as required in pump room					
	complete in all respect	JOB	1			
	(H) Total Carried Over to Sum					

	SUMMARY OF COST	
S.No	DESCRIPTION	AMOUNT (Rs)
Α	FIRE HYDRANT SYSTEM (A)	
В	FIRE SUPPRESSION SYSTEM (B)	
С	REPAIRING OF ADDRESSABLE FIRE ALARM SYSTEM (C)	
D	FIRE DOOR (D)	
E	SPRINKLER SYSTEM (E)	
F	PORTABLE FIRE EXTINGUISHERS (F)	
G	FIRE WATER TANK (G)	
Н	MISC. WORKS (H)	
	GRAND TOTAL	

Bidders Quote in Words	
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Bidders Signature	
Didders Signature	
Bidders Name	
bidders Name	

Note:-

GST shall be paid extra on above Quoted Rates

Bidders Seal