

**The Oriental Insurance Company Ltd.
A-25/27,Asaf Ali Road,,
New Delhi -110002**

Tender Documents

NAME OF WORK: Repair, Replacement, Addition, Maintenance and Overhauling of Fire Fighting Systems / Equipments Intalled at Following Offices of The Oriental Insurance Co. Ltd including yearly maintenance for three years of complete Fire Fighting System

AT

1. ORIENTAL HOUSE ,A-25/27 , ASAF ALI ROAD , NEW DELHI
2. The OIC Ltd Office, 88, Janpath, New Delhi
3. The OIC Ltd Office, Universal Bldg,2/2A , Asaf Ali Road , New Delhi.
4. The OIC Ltd Office, 4/14,Aggarwal House , Asaf Ali Road , New Delhi
5. The OIC Ltd Office, 1/16, Asaf Ali Road , New Delhi

Lead Consultants:

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PART –II

FINANCIAL BID

SUB : Repair, Replacement, Addition , Maintenance and Overhauling of Fire Fighting Systems / Equipments Intalled at Following Offices of The Oriental Insurance Co. Ltd						
SECTION -V (Schedule of Quantities)						
S.NO	DESCRIPTION	UNIT	QTY	RATE	RATE (IN WORDS)	AMOUNT (Rs)
1. A 25/27 , ASAF ALI ROAD, NEW DELHI						
I.	Fire Hydrant System					
1.01	Providing and Fixing Supporting Clamps for MS Pipes complete in all respects.	Metre	10			
1.02	Providing and Painting with two coats of synthetic enamel paint for MS Pipes complete in all respects.	Metre	80			
1.03	Providing and fixing C.I butterfly valve, wafer end type class PN 1.6 as per I.S:13095 or BS:5155, including necessary nuts, bolts, gaskets etc., complete 80mm dia.	Each	7			
1.04	Providing and fixing 36.5m x 20mm dia, high pressure dunlop hose conforming to IS:1532 with 5mm outlet S.S. nozzle with shut off valve as per IS:884-1969, complete in all respects.	Each	6			
1.05	Providing and fixing 63mm dia 15m long rubberized fabric lined hose including S.S. male and female instantaneous type coupling, approved by fire authority, machine wound with G.I. wire complete in all respects with hose conforming to IS:636 type-II and coupling conforming to IS: 903-1985 with ISI certification.	Each	2			
1.06	Providing and fixing fire hose box, 16 gauge MS pre fabricated wether proof fire hose box with 5 mm thick glass door (with MS frame) 76.8x61.44x25.80cm (30"x24"x10") size to accommodate two 15m length of delivery hoses and a branch pipes with glass fronted double door with lock and keys and break glass recess for keys, all complete.	Each	1			
1.07	Providing and fixing standard fire mans axe with heavy duty insulated rubber handle.	Each	12			

S.NO	DESCRIPTION	UNIT	QTY	RATE	RATE (IN WORDS)	AMOUNT (Rs)
	SUBTOTAL OF FIRE HYDRANT SYSTEM					
II	SPRINKLAR SYSTEM					
2.01	Providing and fixing MS Pipes for Sprinkler System.					
a)	80mm dia	Metre	6			
e)	32mm dia	Metre	10			
f)	25mm dia	Metre	15			
2.02	Providing & fixing 25 mm dia screwed jointed pipe with fittings using SS braided flexible UL approved including threaded or weldable GI fitting i.e unions ,bends, elbows, tees etc.					
a)	SS flexible 1.0 m long	Each	10			
b)	SS flexible 1.2 m long	Each	5			
2.03	Providing and fixing C.I butterfly valve, wafer end type class PN 1.6 as per I.S:13095 or BS:5155, including necessary flanges, nuts, bolts, gaskets etc., complete.					
a)	80mm nominal bore	Each	3			
2.04	Providing, fixing, and testing of 15mm dia. Chrome finished sprinkler head with quartz bulb, set to operate at 100°C, complete as per given specifications. (UL/FM Approved) for corridor / public area or wherever required.					
a)	Pendant Sprinkler	Each	20			
2.05	Providing & Fixing of Installation Control Valve 100mm dia with turbine type automatic Alarm Gong to be connected with control valve, drain & test valve and all other necessary components as per manufacturer's specifications complete as required.	Each	1			
	SUBTOTAL OF SPRINKLAR SYSTEM					

S.NO	DESCRIPTION	UNIT	QTY	RATE	RATE (IN WORDS)	AMOUNT (Rs)
III	PUMPS & EQUIPMENT					
3.01	Electrical Fire Pumps					
3.02	Providing and fixing dial type pressure gauge with isolation cock and pipe at hydrant station & sprinkler line.					
	a) Dia diameter 100 mm calibration 0-16 Kg.	Each	2			
3.03	providing & fixing standard type pressure switches to operate /stop fire pumps as per requirement with complete required accessories.	Each	2			
3.04	Repairing of existing fire panels complete in all respects.	Each	2			
3.05	Providing and fixing rubber expansion joints (to provide relief from stresses at pipe flanges) as per specification of the manufacturers i.e M/s Kanwal Industrial corporation for working pressure 16 Kg/cmsq.					
	b) 80mm dia	Each	1			
	c) 65mm dia	Each	1			
3.06	Providing and fixing C.I double flanges suction strainer bucket type/ "Y" type including, nuts, bolts and 3mm thick rubber insertion complete.					
	b) 80mm dia	Each	1			
	c) 65mm dia	Each	1			
3.07	Providing and fixing butterfly valves, wafer end type class PN 1.6 as per I.S:13095 - 1991 or BS:5155, including necessary flanges, nuts, bolts, gaskets etc. complete (without gear box)					
	c) 80mm dia	Each	2			
	d) 65mm dia	Each	1			
3.08	Providing and fixing C.I double flanged horizontal/vertical type non-return valve including nuts, bolts, 3mm thick rubber insertions complete to I.S:5312, Part-I, swing type, class PN 1.6.					
	c) 80mm dia	Each	1			
	d) 65mm dia	Each	1			

S.NO	DESCRIPTION	UNIT	QTY	RATE	RATE (IN WORDS)	AMOUNT (Rs)
3.09	Providing and fixing heavy duty copper control control cables 1.1 KVA grade including necessary support clamps at ceiling level and connection legs complete in all respects.					
d)	Power cable 3 core 25 Sq.mm	Metre	30			
3.1	Providing & Fixing G.I. earthing wire 8 gauge from all motor and M.C.C panel to be connected in as approved manner to the general earthing system complete.	Metre	40			
3.11	Providing and fixing S.S. two-way fire brigade inlet connection consisting of 63mm instantaneously male coupling and a check valve protected by cap scored with a chain glass bore etc. complete with one 150mm dia sluice valve and 150mm dia non-return valve (To be connected to riser)	Each	1			
SUBTOTAL OF PUMPS & EQUIPMENT						
IV Fire Extinguishers						
4.01	Refilling of ISI marked portable fire extinguishers including wall suspension bracket, of the following type.					
a)	CO ₂ type 4.5 Kg. capacity Fire Extinguisher .flat base including valve , discharge hose of not less than 10 mm dia 1 m long and complete in all respects including intial fill wall suspension bracket and conforming to IS: 15683	Each	4			
b)	CO ₂ type 6.5 Kg. capacity Fire Extinguisher .flat base including valve , discharge hose of not less than 10 mm dia 1 m long and complete in all respects including intial fill wall suspension bracket and conforming to IS: 15683	Each	2			
b)	Water CO ₂ type of 9 lit.Fire Extinguisher with Gun metal cap and nozzle complete in all respects including wall suspension bracket and conforming to IS: 15683	Each	2			
4.02	Providing and fixing Dry Chemical Powder type of 5 Kg. Fire Extinguisher with Gun metal cap and nozzle complete in all respects including wall suspension bracket and conforming to IS:15683	Each	2			
4.03	Providing and fixing ABC type of 10 Kg. Fire Extinguisher with Gun metal cap and nozzle complete in all respects including wall suspension bracket and conforming to IS:15683	Each	2			

S.NO	DESCRIPTION	UNIT	QTY	RATE	RATE (IN WORDS)	AMOUNT (Rs)
4.04	Providing and fixing ABC type of 5 Kg. Fire Extinguisher with Gun metal cap and nozzle complete in all respects including wall suspension bracket and conforming to IS:15683	Each	8			
4.05	Providing and fixing D type of 5 Kg. Fire Extinguisher with Gun metal cap and nozzle complete in all respects including wall suspension bracket and conforming to IS:15683	Each	6			
4.06	Providing, fixing, testing and commissioning of Carbon Dioxide or CO2 fire suppression systems of capacity of 45kg CO2 cylinder 6 nos and Accessories like - Master Valve, Slave Valve, Discharge hose ½", NRV ½", Interconnecting hose, Cylinder Battery Frame with manifold, Safety relief valve, Bleeder Valve, Pressure Switch & Discharge Nozzles as required or as per approved layout . It acts fast and effectively stops difficult fires, ensuring minimal damage to life and property. Carbon Dioxide expands at a very high rate, allowing rapid discharge and three-dimensional penetration in the affected area quickly, thus preventing the fire to rise. CO2 extinguishes a fire by reducing the oxygen content of the area.	Set	1			
SUBTOTAL OF FIRE EXTINGUISHERS						
V Fire Detection and Alarm System						
5.01	Supply, installation, testing and commissioning of plug-in type Photo Electric smoke detectors with indication as per detailed specifications including the cost of base plate mounting accessories as required, complete	nos	67			
5.02	Supply, installation, testing and commissioning of Response Indicator Lamp assembly in a dust tight sheet steel enclosure as per detailed specifications including accessories for mounting on surface or recessed as per approved sample as required.	nos	69			
5.03	Supply, installation, testing and commissioning of wall or ceiling mounted 240 Volt AC illuminated Signs having on its front a white perspex sheet with the letters 'FIRE EXIT' painted in red including the cost of in-built rechargeable batteries suitable for 30 minute operation and including the cost of accessories for surface or recessed or ceiling suspended mounting complete as required.	nos	12			

S.NO	DESCRIPTION	UNIT	QTY	RATE	RATE (IN WORDS)	AMOUNT (Rs)
5.04	Supply installation testing and commissioning of dust and vermin proof Manual call boxes with push button to initiate audio visual alarm with breakable glass cover as per detailed specifications complete with a steel chain including the cost of accessories for surface mounted as required	nos	12			
5.05	Supply installation test and commissioning of the following 8 ohm size speaker-cum-hooter units with line matching transformer suitable for broadcast of speech and alarm siren complete as required suitable for recessed/surface mounting complete with enclosure as approved by Project Manager and as required	nos	12			
5.06	Supply, installation, fixing, testing and commissioning of 6 zone passive type repeater panel in reception/L.T. Panel room.	nos	1			
5.07	Supply, installing, testing and commissioning of Microprocessor based intelligent and electronically addressable, modular, expandable networkable, Two loop (each loop consist of 125 detector & 125 devices) fire alarm control panel with minimum 960 character LCD display, multiple access levels, event history file in non-volatile memory (EEPROM). The panel shall support programmable relays for controlling lifts, staircase pressurizations fans, lift shaft and lift lobby pressurization fans, AHU's, ventilation fans, fire pump, monitoring of fire sprinkler and fire hydrant pump controlled by powerful Boolean logic equation. The panel shall have 240 volts AC power supply, automatic battery charger, 24 volts, sealed lead acid maintenance free batteries sufficient for 24 hours normal working and then be capable of operating the system for 60 minutes during emergency condition. The panel should be capable of being integrated into third party PA system during emergency conditions and shall come with auto dialer.	nos	1			
5.08	Supply and laying control cabling with copper conductor PVC insulated and PVC sheathed armoured Control cables in existing pipes/conduits or on existing tray including the cost of making connections, complete as required as below:					
a)	2 core 2.5 sq mm	Meter	500			
b)	4 core 2.5 sq mm	Meter	100			
5.09	Supplying and drawing recessed/surface 2 mm thick PVC conduiting system including cost of providing saddles etc for surface conduiting and/or cost of cutting and filling chases for recessed conduiting complete as per specifications, as required and as below.					
a)	25 mm	Meter	50			

S.NO	DESCRIPTION	UNIT	QTY	RATE	RATE (IN WORDS)	AMOUNT (Rs)
b)	32 mm	Meter	50			
c)	40 mm	Meter	50			
SUBTOTAL OF FIRE DETECTION AND ALARM SYSTEM						
	DESCRIPTION					AMOUNT (Rs)
I.	FIRE HYDRANT SYSTEM					
II.	SPRINKLAR SYSTEM					
III	PUMPS & EQUIPMENT					
IV	FIRE EXTINGUISHERS					
V	FIRE DETECTION AND ALARM SYSTEM					
TOTAL of works A 25/27 , ASAF ALI ROAD, NEW DELHI CARRIED OVER TO GRAND SUMMARY						
2 A-1/16A, Aslf All Road New Delhi-110002						
A	Providing and fixing Ceasefire 5-Kg Ceiling Mounting – FE 36 (Clean Agent gas) for Server and UPS Rooms	Each	2			
B	Providing and fixing CO ₂ type 4.5 Kg. capacity Fire Extinguisher .flat base including valve , discharge hose of not less than 10 mm dia 1 m long and complete in all respects including intial fill wall suspension bracket and conforming to IS: 15683.	Each	4			
C	Providing and fixing 5 kg capacity ABC Stored Pressure type fire extinguisher ISI marked under IS:15683 complete with imported Mono Ammonium Phosphate based ABC Powder suitable for all classes of fire.	Each	4			
TOTAL of works A-1/16A, Aslf All Road New Delhi CARRIED OVER TO GRAND SUMMARY						

S.NO	DESCRIPTION	UNIT	QTY	RATE	RATE (IN WORDS)	AMOUNT (Rs)
3	2/2A Asif Ali Road , New Delhi-110002					
	Fire Fighting System					
A	Providing and fixing Ceasefire 5-Kg Ceiling Mounting – FE 36 (Clean Agent gas) for Server and UPS Rooms	Each	3			
B	Providing and fixing CO ₂ type 4.5 Kg. capacity Fire Extinguisher .flat base including valve , discharge hose of not less than 10 mm dia 1 m long and complete in all respects including intial fill wall suspension bracket and conforming to IS: 15683.	Each	12			
C	Providing and fixing 5 kg capacity ABC Stored Pressure type fire extinguisher ISI marked under IS:15683 complete with imported Mono Ammonium Phosphate based ABC Powder suitable for all classes of fire.	Each	12			
	TOTAL of Works at 2/2A Asif Ali Road , New Delhi-CARRIED OVER TO GRAND SUMMARY					
4.	- 88, Janpath, New Delhi -110001					
1	Providing and fixing of Fire Extinguishers					
A	Ceasefire 5-Kg Ceiling Mounting – FE 36 (Clean Agent gas) for Server and UPS Rooms	Each	1			
B	CO ₂ type 4.5 Kg. capacity Fire Extinguisher .flat base including valve , discharge hose of not less than 10 mm dia 1 m long and complete in all respects including intial fill wall suspension bracket and conforming to IS: 15683.	Each	2			
C	5 kg capacity ABC Stored Pressure type fire extinguisher ISI marked under IS:15683 complete with imported Mono Ammonium Phosphate based ABC Powder suitable for all classes of fire.	Each	2			
	TOTAL of Works at 88 ,Janpath, New Delhi-CARRIED OVER TO GRAND SUMMARY					

GRAND SUMMARY of quotation		
FIRE FIGHTING SERVICES		
S.No.	Description	Amount (Rs.)
1	A 25/27 ASIF ALI ROAD NEW DELHI-110030	
2	A-1/16A ASIF ALI ROAD NEW DELHI-110002	
3	2/2A ASIF ALI ROAD NEW DELHI-110002	
4	88 ,JANPATH NEW DELHI-110001	
5	The OIC ltd Office, 4/14,Aggarwal House , Asaf Ali Road , New Delhi (This site shall only have the AMC of existing Fire Fighting System . Cost of the AMCshall be included in Item no 6 Below)	N/A
6	YEARLY MAINTENANCE OF EXISTING FIRE FIGHTING SYSTEM of above five site (TOTAL OF THREE YEARS)	
TOTAL OF FIRE FIGHTING		
	Total Quotation in Words.....	
	Contractors Name & signature	
	Contractor stamp	