

**I.FIRE ALARM & DETECTION SYSTEM**

**IIT RESEARCH PARK, CHENNAI - TENDER BILL OF QUANTITIES FOR INTEGRATED BUILDING MANAGEMENT**

Sl.No	DESCRIPTION	Qty	Unit	SUPPLY (INR)		INSTALLATION	
				Rate	Amount	Rate	Amount
	<b>Supply,Installation,Testing and Commissioning of following items in line technical specifications of the tender documents.</b>						
1	Conventional Fire Alarm control panel with touch keypad - micro Process - controlled Fire Alarm Control Panels, inclusive of capable of being TCP/IP networkable for peer to peer communication of min 16 panels to the central monitoring System, to monitor and integrated the following quantity of accessories like Initiating devices and notification modules like detectors, MCP's,hooters,control modules, central processing units, complete with LCD display, loop indicating LEDs as per the detailed specification: complete with Battery backup with charger for each panel. (panel should be expandable from 12 to 128 zones). It shall complies UL 864 & NFPA 72.						
a	12 zone Panel for common area for Block A, B , C, D, E, 3rd floor & 6th floor	7	Set				
	Note: The cost shall be shown separately for networking port and peer to peer communication port.						
2	<b>REPEATER PANEL</b>						
a	Passive Repeater Panel for 8 zone panel for Block A,B, C & D common area and 3 & 6th floor	6	No				
3	<b>SMOKE SENSOR</b>						
a	Conventional type smoke sensor detectors with dual chamber, solid state design, indicating LED, mounting base etc. as per detailed specification. ( For below Ceiling / True Ceiling )	497	NOS				
b	Conventional type smoke sensor detectors with dual chamber, solid state design, indicating LED, mounting base etc. as per detailed specification. (For above Ceiling ).	139	NOS				
	<b>MULTI SENSOR</b>						
c	Conventional type Multi sensor (both smoke and heat) detectors with dual chamber, solid state design, indicating LED, mounting base etc. as per detailed specification. (ForAHU & Electrical room @True Ceiling ).	132	NOS				
4	<b>RESPONSE INDICATOR</b>						
a	Response Indicator with Twin LED type For Above Ceiling Detector	139	NOS				
5	<b>HEAT DETECTOR</b>						
a	Conventional type Rate of rise heat detectors with dual chamber, solid state design, indicating LED, mounting base etc. as per detailed specification. (True Ceiling ).	88	NOS				
6	<b>MANUAL CALL POINT</b>						
a	Conventional type Manual pull / call points with breakable glass	163	NOS				
7	<b>ELECTRONIC HOOTERS</b>						
a	Conventional type Hooter with relay module minimum 85 db audible and control relay module, power supply units etc	163	NOS				
8	<b>CABLES &amp; ACCESSORIES</b>						
a	2Cx1.5sq.mm FRLS type,armoured insulated copper cable with clamps and accessories.(Red color)	20400	Mtrs				
b	2Cx1.5sq.mm FRLS type, Unarmoured insulated copper cable in the existing Conduit.( Red color)	1450	Mtrs				
c	25 mm dia MS Conduit on wall and ceiling with suitable necessary fixing accessories for FAS cabling.	1180	Mtrs				
9	<b>Optional items</b>						
a	Modbus to Ethernet converter for communication	7	Nos				
b	FAS software for given panel able to communicate into IBMS and peer to peer communication between the panels.	1	Set				
	<b>Total</b>				-		-

Note: Cables and conduits will be paid as per actual measurements only. The qty shown is approximate