

INTELLIGENT FIRE ALARM SYSTEM

Item No.	Description of Item	Unit	Rate without GST & LWC (₹)
1	Supply, Installation, Testing & Commissioning of Microprocessor based addressable OPC complied fully networkable fire alarm control panel (VDS / UL / LPCB / FM approved) suitable for the devices as stated in the previous items of this BOQ along with 20% spare capacity with each loop loading not exceeding 80% of the full capacity of detectors and devices taken together, complying to IS 2189:2008 or its latest amendments, and with minimum 320 character alpha - numeric liquid crystal display. The panel shall be soft addressable type and shall be able to give pin point location of all fire/ fault conditions. Further, the panel must be able to automatically switch off respective control switches with help monitor module whenever any alarm is triggered. The Panel should be able to store minimum 4000 log events in its memory (EPROM). The panel should have extra loop card slot for future expansion.		
1.1	Two Loop Panel.	Each	140627.00
1.2	Four Loop Panel.	Each	267184.00
2	Supply, Installation, Testing & Commissioning of Microprocessor based Intelligent addressable and network connected Repeater OPC complied panel (VDS / UL / ERTL/ LPCB/ FM approved), should have all the controls and monitoring as on the main fire alarm panel, functioning as a controller, shall allow remote command in the system reset, trouble and alarm silence and manual alarm. It shall be programmable to display information for the entire system i.e. all panels in the network, having minimum 320 characters LCD display (display system status). The system text displays shall include: Alarm missing point trouble; system test, service, local system test, extra custom test by polling circuit and address. The repeater panel should annunciate alarm and trouble conditions in the occasion of signal actuation. Degree of protection as per OEM Standard.	Each	64346.00
3	Supply, Installation, Testing & Commissioning of Microprocessor controlled Addressable Multisensor detector (VDS / UL / LPCB / FM approved) with inbuilt optical smoke sensors and heat detector sensor with inbuilt short circuit fault isolator as per NFPA (Note : Detectors without built-in fault isolator is also acceptable with one independent short circuit fault isolator after every four (04) detector is to be provided without extra cost) the detectors should have built in response indicator with LED indicator. The detector should have 360 degree optical view with single / multiple LED that blinks on actuation of detector. Reverse polarity or faulty zone wiring shall not damage the detectors. Degree of protection as per OEM Standard.	Each	1685.00

4	Supply, Installation, Testing & Commissioning of Microprocessor controlled Addressable Heat detector (VDS / UL / LPCB / FM approved) with combination of fixed type & Rate of Rise of Temperature feature. Detector shall have minimum triggering temperature programmable from 58 deg. C to 68 deg. C., having high level of immunity to electromagnetic influences and show alarm signal limit temperature is reached. Detector shall have inbuilt short circuit fault isolator as per NFPA (Note : Detectors without built-in fault isolator is also acceptable with one independent short circuit fault isolator after every four (04) detector in the loop is to be provided without extra cost) the detectors should have built in response indicator with LED indicator. Degree of protection as per OEM Standard.	Each	1512.00
5	Supplying, installation, testing & commissioning of addressable beam detector with short circuit isolator (inbuilt or separate) complete with emitter and receiver including connections with remote test features etc complete as required.	Each	43627.00
6	Supplying, installation, testing & commissioning of intelligent addressable duct detector including suitable Photo detector complete with base as required.	Each	4655.00
7	Supplying, installation, testing & commissioning of response indicator on surface/recessed MS Box with metallic cover having two LED and Degree of protection as per OEM Standard etc. complete with all connections etc as required.	Each	146.00
8	Supply, Installation, Testing & Commissioning of Addressable Loop Powered /panel powered Hooter (sound output of minimum 90 db) cum strobe (strength of light 10 cd) complete with inbuilt short circuit fault isolator as per NFPA (Note :Hooter without built-in fault isolator is also acceptable with one independent short circuit fault isolator is to be provided without extra cost). (VDS / UL / LPCB / FM approved) approved. Degree of protection as per OEM Standard.	Each	1579.00
9	Supply, Installation, Testing & Commissioning of Addressable Manual Call Point (VDS / UL / LPCB / FM approved) with in built short circuit fault isolator as per NFPA (Note : MCP without built-in fault isolator is also acceptable with one independent short circuit fault isolator is to be provided without extra cost). Degree of protection as per OEM Standard.	Each	2195.00
10	Supplying, installation, testing & commissioning of fault isolator complete with base as required.	Each	1836.00
11	Supply, Installation, Testing & Commissioning of Addressable Control Modules/ Relay Module (VDS / UL / LPCB / FM approved) for controlling Fire exit doors / AHU/ Lift etc. with inbuilt short circuit fault isolator / External fault isolator with adjustable setting parameter likes(Resistive, Inductive or capacitive) of Input or output, complete in single or multiple housing with degree of protection IP 42 with flash LED indicator that conforms module is operational and integrated buzzer signaling maintenance alarm, complete as required.	Each	1677.00
12	Supplying, installation, testing & commissioning of addressable phone control module complete as required.	Each	1835.00