Details of Specifications of different items and make incorporated in
N.I.T No:- 55 (C) E-Tender/2014-2015 for supplying installation of Fire Extinguisher, Fire Alarm, Fire Detector & Glow sign Board For Different Hospital building at IGIMS, Patna are as under. Interested Bidder will go through this specification before filling & submission of tender/Quotation. It will be Part of Agreement.

Sr. No.	Description of Item	Unit	Quantity.
A	**Providing, Fixing, Testing and Commissioning ISI marked & ISO : 9001 certified Portable & Trolley wheel Fire Extinguishers -** **(Make : Omex / Mollimax / Kanex/ Cease Fire or its equivalent)**		
1	**ABC dry powder** stored pressure squeeze grip Type Fire Extinguisher, ISI Mark (IS:15683), operating temperature (+5)° C to (+55)° C for Class 2A & 21B type of Fire filled with MAP ABC Powder, Complete in all respect, **Capacity – 6 Kg.**	Each	136
2	ABC **Clean Agent** store pressure squeeze grip Type Fire Extinguisher, filled with NAF P-IV, Complete in all respect, **Capacity – 2 Kg.**	Each	24
3	CO_2 stored pressure squeeze grip Type Fire Extinguisher, ISI Mark (IS:15683), operating temperature (-30)° to (55)° C for Class 13B type of Fire, fitted with 1 Mt. Hose & PVC Horn, Complete in all respect, **Capacity – 4.5 Kg.**	Each	63
4	CO_2 stored pressure wheel Type vale Fire Extinguisher, ISI Mark (IS 2878), fitted with 1 Mtr. Hose, Horn & Trolley Handle, Complete in all respect, **Capacity – 6.5 Kg.**	Each	15
5	**Water CO_2** Type Fire Extinguisher, ISI Mark (IS:13385), Mounted on Trolley Wheel Complete with G.M. Cap Hose, Gas Cartridge 300 Gms, Complete in all respect, **Capacity – 50 Ltrs.**	Each	14
6	**Mechanical Foam (AFFF)** Type Fire Extinguisher, ISI Mark (IS:13386), Mounted on Trolley Wheel, Complete with 300 Gms Gas Cartridge, ISI Mark (IS:4947) and IS Mark Refill (IS:4989) Part-II, Complete in all respect, Capacity – 50 Ltrs.	Each	3
7	Fire Bucket, Capacity – 9 Ltr.	Each	20
8	M.S. Fire Bucket Stand with G.I. sheet stand shade (Four bucket hanging facility in each stand)	Each	5
B	**FIRE DETECTION & ALARM SYSTEM :** **Providing, Fixing, Testing and Commissioning of EN / LPCB listed / approved conventional automatic Fire Alarm Detectors**		
9	Conventional automatic Fixed cum rate of rise temperature type Heat Detector, 12 / 24 volt D.C., visual alarm indicator (LED's) "Blink-Green" in stand by and "Study-Red" in alarm complete in all respect with base as required, EN / LPCB listed / approved **(Make : System Sensor / Apollo / Bosch / ASES or its equivalent)**	Each	25

Sr. No.	Description of Item	Unit	Quantity.
10	Conventional automatic Optical / Photoelectric type Smoke Detectors of photo-optic sensing chamber, 12 / 24 volt D.C., visual alarm indicator (LED's) "Blink-Green" in stand by and "Study-Red" in alarm complete in all respect with base as required, EN / LPCB listed / approved. **(Make : System Sensor / Apollo / Bosch / ASES or its equivalent)**	Each	693
11	Providing, fixing, testing and commissioning of response indicators with dual LED suitable for operation on 12/24 volts D.C., sheet steel / Polymer housing suitable for surface/recess mounting including making connections with wires complete in all respects. **(Make : Agni Suraksha (ASES), Safeway, Honeywell or or its equivalent.)**	Each	377
12	Addressable type Manual Call Points as per specifications. The manual call point should have an indicator, which should "blink" in stand by condition. **(Make : Agni Suraksha (ASES), Safeway, System Sensor or its equivalent.)**	Each	77
13	Electronic Hooters housed in sheet steel / Polymer housing suitable for wall / ceiling and surface / recess mounting including making connections with wires complete in all respects and as per specifications . **(Make : Agni Suraksha (ASES), Safeway, System Sensor or its equivalent.)**	Each	64
14	Digitally addressed having addressable features (Capable of giving individual address of each detector) Fire Alarm Control and indicating panel, microprocessor based with RS 485 communication, pulser, timer for dual stage alarm facility complete with indicators, floor selector switches, stand by SMF lead acid battery (suitable for 48 hours normal operation & after that min. 30 minutes for full load operation), battery charger, battery box, connections to building automation system / Fire fighting pump panel etc. as required, complete in all respect as per specifications and requirements. The panel shall have facility of automatic dialing to 5 telephone numbers in case of alarm. The main control panel should give a distinct visual signal of the isolation of zone from the local indication panel. If all the zones at the local panel are isolated or if the fuse of the LCP gets blown, it should result in an open circuit fault indication at the Main Panel. Each zone should have provision of activation of hooter. **(Make : Agni Suraksha (ASES), Safeway, PCD or its equivalent**		
a	4 Zone Panel	Each	1
b	8 Zone Panel	Each	6
c	16 Zone Panel	Each	1

Sr. No.	Description of Item	Unit	Quantity.
15	Supply, Installation, Testing & Commissioning of Solid copper, conductor, PVC insulated ISI marked twin core FRLS wire :		
a	2 x 1.5 sq mm	Rmt.	7400
b	4 x 1.5 sq mm	Rmt.	856.32
c	6 x 1.5 sq mm	Rmt.	750
d	8 x 1.5 sq mm	Rmt.	350
16	Supply, Installation, Testing & Commissioning of PVC Conduit pipe ISI marked, complete with all fittings viz. Tees, Bends, Junction Boxes, Clamps / Supports etc. to be concealed in slabs / brick work as required or surface laid. 25 mm dia conduit	Rmt.	6000
17	Providing and fixing of self illuminated / auto glow "EXIT" & "FIRE EXTIGUISHERS" signs printed on photo luminescent sheet containing self illuminated base chemical, of appropriate size not less than 300 x 150 mm, suspended from ceiling or fixed to the walls with accessories as required and as directed at site.	Each	149