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**Percentage BoQ**

Tender Inviting Authority: The Registrar, Nalanda University

Name of Work: Tender for ELV works under Package 5A of Phase 1 Construction

Contract No:

Name of the Bidder/ Bidding Firm / Company :						
<b>PRICE SCHEDULE</b>						
(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only )						
NUMBER #	TEXT #	NUMBER #	TEXT #	NUMBER	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	Estimated Rate in Rs. P	TOTAL AMOUNT WITH TAXES in Rs. P	TOTAL AMOUNT In Words
1	2	4	5	6	53	55
1	<b>Tender for ELV works under Package 5A of Phase 1 Construction</b>					
2	<b>1. TELEPHONE &amp; DATA NETWORKING - PASSIVE COMPONENTS, CABLING DISTRIBUTION, ACTIVE COMPONENTS &amp; VOICECOMM</b>  <b>F/UTP CAT6A COMPONENTS</b> Supply and laying of specified make F/UTP CAT6A cable in pre-laid PVC conduits or pipes or raceways or cable trays, but without the cost of conduits or pipes or raceways or cable trays. The cable is to be drawn from individual workstation area/device/IO to the nearest distribution rack or networking rack. It shall be within the scope of integrator/contractor to carry out and submit scanner readings for all IOs meeting the requirements of relevant EIA/TIA standards as per CAT6A cabling requirements. The integrator/contractor shall submit a detail IO maps, labelling and documentation related to terminations.	180020.000	Rmtrs	42.00	<b>7560840.00</b>	INR Seventy Five Lakh Sixty Thousand Eight Hundred & Forty Only
3	SITC of F/UTP CAT6A angular patch panel pre-loaded with 24 ports in 1U form factor, with universal A/B labeling and 110 connector terminations on rear of panel allowing for quick and easy installation of 22 to 24 AWG cable, inclusive of termination of f/utp CAT6A cables at all 24 ports.	367.000	No.	11829.00	<b>4341243.00</b>	INR Forty Three Lakh Forty One Thousand Two Hundred & Forty Three Only
4	SITC of single F/UTP CAT6A I/O of specified make including mounting inside singlex or duplex or quad faceplate and MS backbox assembly as required as per drawing, inclusive of termination of F/UTP CAT6A cable at each IO at workstation area/device	5536.000	No.	339.00	<b>1876704.00</b>	INR Eighteen Lakh Seventy Six Thousand Seven Hundred & Four Only
5	SITC of singlex faceplate and corresponding MS backbox assembly for installation of 1 F/UTP CAT6A IOs	2809.000	No.	115.00	<b>323035.00</b>	INR Three Lakh Twenty Three Thousand & Thirty Five Only
6	SITC of duplex faceplate and corresponding MS backbox assembly for installation of 2 F/UTP CAT6A IOs	1365.000	No.	141.00	<b>192465.00</b>	INR One Lakh Ninety Two Thousand Four Hundred & Sixty Five Only

7	SITC of quad faceplate and corresponding MS backbox assembly for installation of 4 F/UTP CAT6A IOs	100.000	No.	151.00	15100.00	INR Fifteen Thousand One Hundred Only
8	SITC of F/UTP CAT6A RJ-45/RJ-45 Patch Cords Solid Conductor of various lengths 3ft - IO side	5533.000	No.	193.00	1067869.00	INR Ten Lakh Sixty Seven Thousand Eight Hundred & Sixty Nine Only
9	SITC of F/UTP CAT6A RJ-45/RJ-45 Patch Cords Solid Conductor of various lengths 7ft- Rack side	5533.000	No.	218.00	1206194.00	INR Twelve Lakh Six Thousand One Hundred & Ninety Four Only
10	SITC of F/UTP CAT6A RJ-45/RJ-45 Patch Cords Solid Conductor of various lengths 10ft- as required	100.000	No.	254.00	25400.00	INR Twenty Five Thousand Four Hundred Only
11	<b>PVC Conduits</b> Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required. 25 mm size.	1000.000	Rmtrs	90.00	90000.00	INR Ninety Thousand Only
12	PVC Conduits of 40 mm size. Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required 40 mm size.	1000.000	Rmtrs	130.00	130000.00	INR One Lakh Thirty Thousand Only
13	<b>FIBER OPTIC CABLE &amp; COMPONENTS</b> SITC and Laying of fiber optic cable of various capacities to be laid in pre-laid conduits/RCC hume pipes/HDPE/DWC/cable trays/trenches/in underground soil, as applicable, excluding the cost of soft-soil or hard-soil digging. 12 cores, Singlemode, Outdoor, Armoured	10125.000	Rmtrs	320.00	3240000.00	INR Thirty Two Lakh Forty Thousand Only
14	12 cores, Singlemode, Outdoor, Armoured (For Electrical HT side Scada Integration)	25000.000	Rmtrs	320.00	8000000.00	INR Eighty Lakh Only
15	12 cores, Singlemode, Outdoor, Armoured (FAS Panels Integration)	7500.000	Rmtrs	320.00	2400000.00	INR Twenty Four Lakh Only
16	24 cores, Singlemode, Outdoor, Armoured	8400.000	Rmtrs	381.00	3200400.00	INR Thirty Two Lakh Four Hundred Only
17	48 cores, Singlemode, Outdoor, Armoured	12400.000	Rmtrs	598.00	7415200.00	INR Seventy Four Lakh Fifteen Thousand Two Hundred Only
18	12 cores, Singlemode, Indoor, Unarmoured	1000.000	Rmtrs	270.00	270000.00	INR Two Lakh Seventy Thousand Only
19	SITC of wall mounted LIU of various capacities for optical splicing/termination of fiber optic cable as per the design schematics. It shall be complete with adaptor panels, adaptors and splice trays for using LC type termination and masking/blanking/dust cover for unused/unmounted adaptor ports, inclusive of all mechanical accessories. Adequate splice trays shall be provided for proper management of splices for required number of cores at every LIU. for 12 cores, Singlemode LC termination	10.000	No.	11938.00	119380.00	INR One Lakh Nineteen Thousand Three Hundred & Eighty Only
20	for 24 cores, Singlemode LC termination	10.000	No.	13604.00	136040.00	INR One Lakh Thirty Six Thousand & Forty Only
21	for 48 cores, Singlemode LC termination	10.000	No.	19524.00	195240.00	INR One Lakh Ninety Five Thousand Two Hundred & Forty Only
22	SITC of 19" rack mounting type fiber shelf of various capacities for assembly/termination of fiber optic cable for LC style components, for optical splicing and provision for storage of pigtailed and splices, equipped with adaptors, adaptor plates and any other such all necessary hardware for proper dressing and management of fiber optic cable. Any blank adaptor positions must be suitably masked for restricting dust entry. Adequate splice trays shall be provided for proper management of splices for required number of cores at every LIU.	210.000	No.	11938.00	2506980.00	INR Twenty Five Lakh Six Thousand Nine Hundred & Eighty Only
23	for 24 cores, Singlemode LC termination	5.000	No.	15161.00	75805.00	INR Seventy Five Thousand Eight Hundred & Five Only

24	for 48 cores, Singlemode LC termination	7.000	No.	20620.00	144340.00	INR One Lakh Forty Four Thousand Three Hundred & Forty Only
25	SITC of LC-LC duplex fiber optic patch cords of various lengths 1 mtr/3 ft., singlemode	448.000	No.	2146.00	961408.00	INR Nine Lakh Sixty One Thousand Four Hundred & Eight Only
26	2 mtr/6 ft., singlemode	5.000	No.	2617.00	13085.00	INR Thirteen Thousand & Eighty Five Only
27	3 mtr/10ft., singlemode	5.000	No.	3300.00	16500.00	INR Sixteen Thousand Five Hundred Only
28	SITC of LC type pre-terminated fiber optic cable pigtailed of various lengths 1 mtr/3 ft., singlemode	878.000	No.	536.00	470608.00	INR Four Lakh Seventy Thousand Six Hundred & Eight Only
29	2 mtr/6 ft., singlemode	5.000	No.	654.00	3270.00	INR Three Thousand Two Hundred & Seventy Only
30	3 mtr/10ft., singlemode	5.000	No.	824.00	4120.00	INR Four Thousand One Hundred & Twenty Only
31	Splicing / Termination of Fiber Optic Fiber Cable Cores using Fusion splicing with pre-terminated LC pigtailed, dressing and proper fixing in splice trays.	3374.000	Job Work	325.000	1096550.00	INR Ten Lakh Ninety Six Thousand Five Hundred & Fifty Only
32	SITC of IP66 rated External Splicing Kit for 96 cores inclusive of splicing of cores.	20.000	No.	77190.000	1543800.00	INR Fifteen Lakh Forty Three Thousand Eight Hundred Only
33	Supply and Installations of OFC markers along the path of Fiber Distribution path for Identification of Fiber cable	100.000	No.	435.00	43500.00	INR Forty Three Thousand Five Hundred Only
34	<b>NETWORKING ENCLOSURES</b> SITC of 19" wide mounting frame Networking Enclosures of various sizes and capacities complete with all accessories. 6U, 600mmW x 450mmD, wall mounted, 2 x 90cfm fans	49.000	No.	4957.00	242893.00	INR Two Lakh Forty Two Thousand Eight Hundred & Ninety Three Only
35	9U, 600mmW x 450mmD, wall mounted, 2 x 90cfm fans	19.000	No.	5265.00	100035.00	INR One Lakh & Thirty Five Only
36	12U, 600mmW x 600mmD, wall mounted, 2 x 90cfm fans	72.000	No.	9520.00	685440.00	INR Six Lakh Eighty Five Thousand Four Hundred & Forty Only
37	15U, 600mmW x 600mmD, wall mounted, 2 x 90cfm fans	14.000	No.	11787.00	165018.00	INR One Lakh Sixty Five Thousand & Eighteen Only
38	22U, 800mmW x 800mmD, floor mounted, 4 x 90cfm fans	3.000	No.	26657.00	79971.00	INR Seventy Nine Thousand Nine Hundred & Seventy One Only
39	36U, 800mmW x 800mmD, floor mounted, 4 x 90cfm fans	2.000	No.	31988.00	63976.00	INR Sixty Three Thousand Nine Hundred & Seventy Six Only
40	42U, 800mmW x 1000mmD, floor mounted, 4 x 90cfm fans	14.000	No.	54499.00	762986.00	INR Seven Lakh Sixty Two Thousand Nine Hundred & Eighty Six Only
41	42U, 1000mmW x 1000mmD, floor mounted, 4 x 90cfm fans	1.000	No.	64122.00	64122.00	INR Sixty Four Thousand One Hundred & Twenty Two Only
42	<b>ACTIVE: NETWORKING SWITCHES AND OPTIONS</b> <b>TYPE-1 (ACCESS SWITCH)</b> SITC of Layer 2 manageable networking switch, 8 # 10/100/1000Tx ports, all ports capable of providing PoE+ as per 802.3at, switch having a PoE power budget of minimum 350 Watts, minimum 2 dedicated SFP ports.	98.000	No.	37332.00	3658536.00	INR Thirty Six Lakh Fifty Eight Thousand Five Hundred & Thirty Six Only
43	<b>TYPE-2 (ACCESS SWITCH)</b> SITC of Layer 2 manageable networking switch, 24 # 10/100/1000Tx ports, stacking, all ports capable of providing PoE+ as per 802.3at, switch having a PoE power budget of minimum 350 Watts, minimum 4 dedicated or shared SFP ports	337.000	No.	70311.00	23694807.00	INR Two Crore Thirty Six Lakh Ninety Four Thousand Eight Hundred & Seven Only
44	<b>TYPE-3 (DISTRIBUTION SWITCH)</b> SITC of Layer 3 fiber aggregation networking switch, minimum 24 # SFP ports, plus minimum 4 # SFP+ ports, 1 AC power supply built in and inclusive of at least 1 redundant power supply and redundant fans	10.000	No.	287816.00	2878160.00	INR Twenty Eight Lakh Seventy Eight Thousand One Hundred & Sixty Only

45	<b>TYPE-4 (CORE SWITCH)</b> Supply, Installation, Testing and Commissioning of Core Switch, minimum 24 # SFP+ ports inclusive of and installed with the following features:  redundant power supply, redundant fans, full advanced Layer 3 features, switch virtualization and high availability.	2.000	No.	1584363.00	<b>3168726.00</b>	INR Thirty One Lakh Sixty Eight Thousand Seven Hundred & Twenty Six Only
46	SITC of 1000 Base LX singlemode transceivers for L2/L3 switch, duplex LC termination supporting distance upto 2000 mtrs for ACCESS SWITCHES.	440.000	No.	32484.00	<b>14292960.00</b>	INR One Crore Forty Two Lakh Ninety Two Thousand Nine Hundred & Sixty Only
47	SITC of 1000 Base LX singlemode transceivers for L2/L3 switch, duplex LC termination supporting distance upto 2000 mtrs for DISTRIBUTION SWITCHES.	64.000	No.	32484.00	<b>2078976.00</b>	INR Twenty Lakh Seventy Eight Thousand Nine Hundred & Seventy Six Only
48	SITC of 10G SFP+ LR singlemode transceivers, 1310nm, duplex LC termination supporting distance upto 2000 mtrs, inclusive of any hardware or interfaces such as modules for populating SM-LC transceivers for DISTRIBUTION SWITCHES.	40.000	No.	130424.00	<b>5216960.00</b>	INR Fifty Two Lakh Sixteen Thousand Nine Hundred & Sixty Only
49	SITC of 10G SFP+ ER singlemode transceivers, 1550nm, duplex LC termination supporting distance upto 10000 mtrs, inclusive of any hardware or interfaces such as modules for populating SM-LC transceivers for DISTRIBUTION SWITCHES.	32.000	No.	326468.00	<b>10446976.00</b>	INR One Crore Four Lakh Forty Six Thousand Nine Hundred & Seventy Six Only
50	SITC of 10G SFP+ LR singlemode transceivers, 1310nm, duplex LC termination supporting distance upto 2000 mtrs, inclusive of any hardware or interfaces such as modules for populating SM-LC transceivers for CORE SWITCHES.	32.000	No.	130424.00	<b>4173568.00</b>	INR Forty One Lakh Seventy Three Thousand Five Hundred & Sixty Eight Only
51	SITC of wireless controller capable of supporting min. 1000 access points, inclusive of licence costs for 1000 Access Points. Centralized Hardware Controller based architecture. The system shall operate in High Availability (HA) mode providing redundancy for controller hardware.	1.000	No.	2844612.00	<b>2844612.00</b>	INR Twenty Eight Lakh Forty Four Thousand Six Hundred & Twelve Only
52	SITC of Wireless Access Point supporting Dual band with 802.11ac (5 GHz) and 802.11g/n (2.4GHz) concurrent operation, 4 x 4:3 MIMO Wave2 from Day 1, One 10/100/1000 Base-Tx auto-sensing (RJ45) PoE port. The AP shall be wall mountable as well as ceiling mountable (provide both options).	957.000	No.	37126.00	<b>35529582.00</b>	INR Three Crore Fifty Five Lakh Twenty Nine Thousand Five Hundred & Eighty Two Only
53	SITC of licences for supporting every additional 100 wi-fi APs (in slab of 100 Nos.)	1.000	No.	1376193.00	<b>1376193.00</b>	INR Thirteen Lakh Seventy Six Thousand One Hundred & Ninety Three Only
54	SITC of Management Tool for Centralised Configuration, Administration, Fault and Performance Monitoring and Virtualisation Management for wired and wireless LAN infrastructure. (NMS)	1.000	Set	2064248.00	<b>2064248.00</b>	INR Twenty Lakh Sixty Four Thousand Two Hundred & Forty Eight Only
55	<b>2. VIDEO SURVEILLANCE / CCTV SYSTEM</b>  SITC of Full High Definition Network Cameras, outdoor PTZ, 1/3" CMOS/MOS/CCD sensor with 30x optical zoom or better, minimum resolution 2MP (1920X1080) or better, high speed dome, 360 degrees full rotation, complete with IK10 rated vandal resistant and IP66 rated weatherproof housing, PoE+ as per 802.3a/ff/t or including an optional AC/DC supply if required, supporting True Day/Night operation, ONVIF Profile S compliant, supporting H.264 High Profile with dehumidification feature.	14.000	No.	85979.00	<b>1203706.00</b>	INR Twelve Lakh Three Thousand Seven Hundred & Six Only

56	SITC of Full High Definition Network Cameras, indoor PTZ, 1/3" CMOS/MOS/CCD sensor with 30x optical zoom or better, minimum resolution 2MP (1920X1080) or better, high speed dome, 360 degrees full rotation, complete with IK10 rated vandal resistant housing, PoE+ as per 802.3a/f/t or including an optional AC/DC supply if required, supporting True Day/Night operation, ONVIF Profile S compliant, supporting H.264 High Profile with dehumidification feature.	10.000	No.	66999.00	<b>669990.00</b>	INR Six Lakh Sixty Nine Thousand Nine Hundred & Ninety Only
57	SITC of Full High Definition Network Cameras, Fixed Dome, 1/3" CMOS/MOS/CCD sensor, 3-8 mm lens, minimum resolution 2MP (1920X1080), 1080p resolution at frame rates 30fps or better, H.264 High Profile, JPEG support, True Day/Night operation, ONVIF Profile S compliant, complete with IK10 rated vandal resistant housing and Power on Ethernet (PoE) based on 802.3a/f.	148.000	No.	35011.00	<b>5181628.00</b>	INR Fifty One Lakh Eighty One Thousand Six Hundred & Twenty Eight Only
58	SITC of Full High Definition Network Cameras, Fixed Dome, 1/3" CMOS/MOS/CCD sensor, 5-50 mm lens, minimum resolution 2MP (1920X1080), 1080p resolution at frame rates 30fps or better, H.264 High Profile, JPEG support, True Day/Night operation, ONVIF Profile S compliant, complete with IK10 rated vandal resistant housing and Power on Ethernet (PoE) based on 802.3a/f.	556.000	No.	37755.00	<b>20991780.00</b>	INR Two Crore Nine Lakh Ninety One Thousand Seven Hundred & Eighty Only
59	SITC of Full High Definition Network Cameras, Outdoor CS-Mount type, 1/3" CMOS/MOS/CCD sensor, 5-50mm varifocal lens, minimum resolution 2MP (1920x1080), 1080p resolution at frame rates 30fps or better, H.264 High profile, JPEG support, Day/Night operation, ONVIF Profile S compliant, complete with IK10 rated vandal resistant and IP66 rated outdoor housing and Power on Ethernet (PoE) based on 802.3a/f.	16.000	No.	37755.00	<b>604080.00</b>	INR Six Lakh Four Thousand & Eighty Only
60	SITC of Full High Definition Network Cameras, indoor CS-Mount type, 1/3" CMOS/MOS/CCD sensor, 5-50mm varifocal lens, minimum resolution 2MP (1920x1080), 1080p resolution at frame rates 30fps or better, H.264 High profile, JPEG support, Day/Night operation, ONVIF Profile S compliant, complete with IK10 rated vandal resistant housing and Power on Ethernet (PoE) based on 802.3a/f.	74.000	No.	35156.00	<b>2601544.00</b>	INR Twenty Six Lakh One Thousand Five Hundred & Forty Four Only
61	SITC of Video Management Software with ONVIF Profile S compliance having licenses for 1000 cameras and scalable to additional 50% cameras in future by adding appropriate licenses, inclusive of 10 client licences.	1.000	No.	2313718.00	<b>2313718.00</b>	INR Twenty Three Lakh Thirteen Thousand Seven Hundred & Eighteen Only
62	SITC of Server(s) required for the VMS - Industry standard Intel Xeon Dual Processor, both processors installed, 16 GB RAM, 1 x 1TB GB SATA HDD for OS and VMS applications, 2 x GiG NIC, DVD ROM Drive, Appropriate Licensed Operating Systems.	1.000	Set	268769.00	<b>268769.00</b>	INR Two Lakh Sixty Eight Thousand Seven Hundred & Sixty Nine Only
63	SITC of Recording Server(s) - Industry standard Intel Xeon Dual Processor, both processors installed, 16 GB RAM, 1 x 1TB GB SATA HDD for OS and VMS applications, 2 x GiG NIC, DVD ROM Drive, Appropriate Licensed Operating Systems. Vendor shall provide required no. of servers for supporting the total no. of cameras as above, however not exceeding 64 cameras per server (1 no. of spare server shall be provided in addition to the required qty. of servers). Set of servers shall be supplied with 16-port KVM switch, USB/Wireless Keyboard, USB/Wireless Mouse, 1 x 21" LED Monitor.	1.000	Set	2743667.00	<b>2743667.00</b>	INR Twenty Seven Lakh Forty Three Thousand Six Hundred & Sixty Seven Only
64	SITC of Network Storage required with a capacity to store the content for 1000 cameras for 24Hrs x 30days at 25fps and 1080p. It should be scalable (should have sufficient expansion bays for HDDs) for at least additional 50% cameras. Vendor shall submit bandwidth and storage calculator for the proposed camera models.	1.000	No.	7217524.00	<b>7217524.00</b>	INR Seventy Two Lakh Seventeen Thousand Five Hundred & Twenty Four Only

65	SITC of Client with Intel Core i7 870 or higher with 8 GB of RAM DDR3, 1 TB SATA II hard drive for OS and VMS applications, 1 GB PCI-Express x16 dual-head video adapter supporting DVI or HDMI outputs, 1600 x 1200 or higher screen resolution, 100/1000 Ethernet Network Interface Card and 16x DVD+/- RW Drive along with appropriate Operating System, inclusive of minimum 32" LED display compatible with supplied video adaptor.	5.000	No.	63058.00	<b>315290.00</b>	INR Three Lakh Fifteen Thousand Two Hundred & Ninety Only
66	SITC of narrow bezel Professional Display/Monitors min. 55" diagonal HD LED display, min. 1 x HDMI/DVI, 2 x HDMI, USB, these shall be supplied with all hardware and mechanical work/assembly required for panelling and video wall matrix type mounting configuration as per site requirements.	5.000	No.	138108.00	<b>690540.00</b>	INR Six Lakh Ninety Thousand Five Hundred & Forty Only
67	SITC of A3 sized laser color printer with required accessories and hardware as required.	2.000	No.	21156.00	<b>42312.00</b>	INR Forty Two Thousand Three Hundred & Twelve Only
68	FIBER COMPONENTS FOR OUTDOOR CCTV  SITC and Laying of outdoor 12 core armoured single mode fiber optic cable for outdoor connectivity where ever required in prelaidd conduits / RCC hume pipes/HDPE/DWC, whichever maybe available.	10000.000	Rmtrs	320.00	<b>3200000.00</b>	INR Thirty Two Lakh Only
69	SITC of 12 Port outdoor LIUs for fiber terminations.	12.000	No.	10276.00	<b>123312.00</b>	INR One Lakh Twenty Three Thousand Three Hundred & Twelve Only
70	SITC of LC-LC single mode duplex fiber optic patch cord 1mtr as per tender specification.	12.000	No.	2146.00	<b>25752.00</b>	INR Twenty Five Thousand Seven Hundred & Fifty Two Only
71	SITC of LC type single mode pre-terminated duplex pigtail 1mtr as per tender specification.	12.000	No.	536.00	<b>6432.00</b>	INR Six Thousand Four Hundred & Thirty Two Only
72	Suppy and Installations of OFC markers along the path of Fiber Distribution path for Identification of Fiber cable	50.000	No.	363.00	<b>18150.00</b>	INR Eighteen Thousand One Hundred & Fifty Only
73	Splicing / Termination of Fiber Optic Fiber Cable Cores using Fusion splicing with pre-terminated LC pigtails, dressing and proper fixing into splice trays.	96.000	Job Work	325.00	<b>31200.00</b>	INR Thirty One Thousand Two Hundred Only
74	SITC of 5 port Industrial PoE+ Switch with 2 ports populated with mini GBIC SM SFP ports & 3 nos. 1000MbpsTx ports, inclusive of external DC adaptor/power supply as per OEM requirements.	12.000	No.	22365.00	<b>268380.00</b>	INR Two Lakh Sixty Eight Thousand Three Hundred & Eighty Only
75	SITC of F/UTP CAT6A Patch Cord 7ft	12.000	No.	187.00	<b>2244.00</b>	INR Two Thousand Two Hundred & Forty Four Only
76	SITC of DC power Supply 24 VDC	12.000	No.	629.00	<b>7548.00</b>	INR Seven Thousand Five Hundred & Forty Eight Only
77	SITC of 10'-15' MS/GI street pole with accessories for mounting of cameras.	12.000	No.	21737.00	<b>260844.00</b>	INR Two Lakh Sixty Thousand Eight Hundred & Forty Four Only
78	SITC of ruggedized, IP66 rated outdoor pole mountable enclosure for housing power supplies, fiber LIUs, and industrial networking switch, with suitable provisions for DIN rails, cable management.	12.000	No.	13576.00	<b>162912.00</b>	INR One Lakh Sixty Two Thousand Nine Hundred & Twelve Only

79	<p>3. FIRE DETECTION &amp; ALARM SYSTEM</p> <p>SITC of Microprocessor based Intelligent networkable addressable type fire alarm control panel with display. The panel should be equipped with 1 installed loops, each loop having a capacity of connecting a minimum of 127 addressable detectors and 127 addressable modules or a mix of up to 250 detectors and devices in any combination in any single loop with max. 80% of loading in a single loop,the panel shall be modularly expandable up to minimum 10 loops using loop expansion interface cards, with each loop having a capacity of connecting a minimum of 127 addressable detectors and 127 addressable modules or a mix of up to 250 detectors and devices in any combination in any single loop with max. 80% of loading in a single loop, operating at 240 volts AC power supply, and equipped with automatic battery charger, 24 volts Sealed Maintenance Free (SMF) Lead acid Batteries shall be provided with backup of for 24 hours under Normal working condition &amp; 30 minutes under emergency condition. wiring structure of FACP shall be Class A type (NFPA style 6). The panel shall be supplied with all accessories, control modules and power supply modules in the required quantities as per site requirements for all types of field devices to make the system fully operational.</p> <p>The panel shall be UL 9th or Latest edition Listed and FM approved.</p> <p>Each panel shall be provided with Singlemode fiber optics based hardware interface(s) and software for interconnecting of multiple panels for a peer-to-peer network.</p> <p>All fire alarm panels at site shall be operated and monitored in networked mode and</p>	15.000	No.	260464.00	3906960.00	INR Thirty Nine Lakh Six Thousand Nine Hundred & Sixty Only
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80	<p>SITC of Microprocessor based Intelligent networkable addressable type fire alarm control panel with display. The panel should be equipped with 2 installed loops, each loop having a capacity of connecting a minimum of 127 addressable detectors and 127 addressable modules or a mix of up to 250 detectors and devices in any combination in any single loop with max. 80% of loading in a single loop, the panel shall be modularly expandable up to minimum 10 loops using loop expansion interface cards, with each loop having a capacity of connecting a minimum of 127 addressable detectors and 127 addressable modules or a mix of up to 250 detectors and devices in any combination in any single loop with max. 80% of loading in a single loop, operating at 240 volts AC power supply, and equipped with automatic battery charger, 24 volts Sealed Maintenance Free (SMF) Lead acid Batteries shall be provided with backup of for 24 hours under Normal working condition &amp; 30 minutes under emergency condition. wiring structure of FACP shall be Class A type (NFPA style 6). The panel shall be supplied with all accessories, control modules and power supply modules in the required quantities as per site requirements for all types of field devices to make the system fully operational.</p> <p>The panel shall be UL 9th or Latest edition Listed and FM approved.</p> <p>Each panel shall be provided with Singlemode fiber optics based hardware interface(s) and software for interconnecting of multiple panels for a peer-to-peer network.</p> <p>All fire alarm panels at site shall be operated and monitored in networked mode and shall be integrated with IBMS system over BacNet/IP protocol; all necessary hardware and software applications and licences for the same shall be provided by the vendor.</p>	4.000	No.	425326.00	1701304.00	INR Seventeen Lakh One Thousand Three Hundred & Four Only
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81	<p>SITC of Microprocessor based Intelligent networkable addressable type fire alarm control panel with display. The panel should be equipped with 3 installed loops, each loop having a capacity of connecting a minimum of 127 addressable detectors and 127 addressable modules or a mix of up to 250 detectors and devices in any combination in any single loop with max. 80% of loading in a single loop, the panel shall be modularly expandable up to minimum 10 loops using loop expansion interface cards, with each loop having a capacity of connecting a minimum of 127 addressable detectors and 127 addressable modules or a mix of up to 250 detectors and devices in any combination in any single loop with max. 80% of loading in a single loop, operating at 240 volts AC power supply, and equipped with automatic battery charger, 24 volts Sealed Maintenance Free (SMF) Lead acid Batteries shall be provided with backup of for 24 hours under Normal working condition &amp; 30 minutes under emergency condition. wiring structure of FACP shall be Class A type (NFPA style 6). The panel shall be supplied with all accessories, control modules and power supply modules in the required quantities as per site requirements for all types of field devices to make the system fully operational.</p> <p>The panel shall be UL 9th or Latest edition Listed and FM approved.</p> <p>Each panel shall be provided with Singlemode fiber optics based hardware interface(s) and software for interconnecting of multiple panels for a peer-to-peer network.</p> <p>All fire alarm panels at site shall be operated and monitored in networked mode and shall be integrated with IBMS system over BacNet/IP protocol; all necessary hardware</p>	2.000	No.	533416.00	<b>1066832.00</b>	INR Ten Lakh Sixty Six Thousand Eight Hundred & Thirty Two Only
82	<p>SITC of interface for interconnecting multiple fire alarm system panels over fiber optics media based communication, transceivers or optics must support 100Mbps as per technical specification etc. as required.</p>	21.000	No.	119237.00	<b>2503977.00</b>	INR Twenty Five Lakh Three Thousand Nine Hundred & Seventy Seven Only
83	<p>SITC of BacNet interface for IBMS integration using Ethernet TCP/IP as per technical specification etc. as required.</p>	1.000	No.	126672.00	<b>126672.00</b>	INR One Lakh Twenty Six Thousand Six Hundred & Seventy Two Only
84	<p>SITC of Fire Command Workstation including Graphical User Interface based software.</p> <p>This shall include any cards, modules, hardware interfaces based on TCP/IP Ethernet communications protocol over fiber optics based media and softwares for providing connectivity and communication between multiple fire alarm system panels.</p> <p>The GUI based main network software shall be capable of graphically representing each node being monitored with floor plans and icons depicting the actual locations of the various systems; and / or sensors' locations. The GUI software shall be located in control room and shall monitor all the blocks panel connected with each other. Graphic software will interface with fire network via network interface card and shall be able to control and monitor voice evacuation and two way communication system.</p> <p>It shall be inclusive of necessary server grade hardware, min. 42" professional LED display, licenced server operating system, licenced OEM application.</p>	1.000	No.	265904.00	<b>265904.00</b>	INR Two Lakh Sixty Five Thousand Nine Hundred & Four Only
85	<p>SITC of A3 sized laser color printer with required accessories and hardware as required.</p>	1.000	No.	21156.00	<b>21156.00</b>	INR Twenty One Thousand One Hundred & Fifty Six Only

86	SITC of Repeater Panel with 6 inch or 640-characters display. The LCD shall display all events / detectors, devices status of complete systems in the network as per technical specification etc. as required.	2.000	No.	26552.00	<b>53104.00</b>	INR Fifty Three Thousand One Hundred & Four Only
87	SITC of loop expansion interface card for providing additional capacity of 1 loop, as per technical specification etc. as required.	1.000	No.	29123.00	<b>29123.00</b>	INR Twenty Nine Thousand One Hundred & Twenty Three Only
88	SITC of Addressable Multi-sensor detectors (heat+smoke) for below false ceiling & True ceiling(above false ceiling) with mounting base, LED, Address Switch, inclusive of detector base and complete with all accessories as required. The detector shall be UL/FM Listed/approved. The detector shall include mounting arrangements for direct installation on ceiling/slab as per technical specification etc. as required.	87.000	No.	3379.00	<b>293973.00</b>	INR Two Lakh Ninety Three Thousand Nine Hundred & Seventy Three Only
89	SITC of Addressable Photoelectric/Smoke Detector with mounting base, LED, Address Switch, inclusive of detector base and complete with all accessories as required. The detector shall be UL/FM Listed/approved. The detector shall include mounting arrangements for direct installation on ceiling/slab as per technical specification etc. as required.	1212.000	No.	3403.00	<b>4124436.00</b>	INR Forty One Lakh Twenty Four Thousand Four Hundred & Thirty Six Only
90	SITC Rate of Rise Cum Fixed Temperature detector with mounting base, LED, Address Switch to program the detectors and complete with all accessories as required. The detector shall be UL/FM Listed/approved. The detector shall include mounting arrangements for direct installation on ceiling/slab as per technical specification etc. as required.	101.000	No.	3276.00	<b>330876.00</b>	INR Three Lakh Thirty Thousand Eight Hundred & Seventy Six Only
91	SITC of Beam Detector (Tx-Rx pair) along with reflector plate including mounting base as per technical specification etc. as required.	61.000	No.	34841.00	<b>2125301.00</b>	INR Twenty One Lakh Twenty Five Thousand Three Hundred & One Only
92	SITC of UL/FM Listed/approved 2 way communication Fire Fighter's Telephone Jack inclusive of any required telephone modules or monitor modules or as per OEM	82.000	No.	3802.00	<b>311764.00</b>	INR Three Lakh Eleven Thousand Seven Hundred & Sixty Four Only
93	SITC of UL/FM/ Listed/approved 2 way communication Fire Fighter's Handset	27.000	No.	10462.00	<b>282474.00</b>	INR Two Lakh Eighty Two Thousand Four Hundred & Seventy Four Only
94	SITC of Addressable Pull type Manual Call Point with Key reset as per technical specifications with all the necessary mounting accessories as required to complete installation.	135.000	No.	6190.00	<b>835650.00</b>	INR Eight Lakh Thirty Five Thousand Six Hundred & Fifty Only
95	SITC of Addressable Relay module as per technical specification etc. as required.	159.000	No.	5555.00	<b>883245.00</b>	INR Eight Lakh Eighty Three Thousand Two Hundred & Forty Five Only
96	SITC of Addressable monitor module as per technical specification etc. as required.	87.000	No.	3503.00	<b>304761.00</b>	INR Three Lakh Four Thousand Seven Hundred & Sixty One Only
97	SITC of Addressable Control module as per technical specification etc. as required.	137.000	No.	5750.00	<b>787750.00</b>	INR Seven Lakh Eighty Seven Thousand Seven Hundred & Fifty Only
98	SITC of Addressable type isolator modules for isolating shorted, dewired and loose circuits between two successive fault isolators with automatic resetting arrangement as per technical specification etc. as required.	110.000	No.	3083.00	<b>339130.00</b>	INR Three Lakh Thirty Nine Thousand One Hundred & Thirty Only
99	SITC of Sounder with Strobe device as per NFPA72 edition. The unit shall be configureable simultaneously for both sounder and strobe function. The strobes shall be capable of being synchronized for better evacuation as per technical specification etc. as required.	137.000	No.	12225.00	<b>1674825.00</b>	INR Sixteen Lakh Seventy Four Thousand Eight Hundred & Twenty Five Only
100	Sitc of Directional Sounders with 20 hz to 20 khz operating frequency with multiple 8 distinct sound patterns to indicate corridors, Exit doors and direct Occupants for fast & safe Evacuation as specified in NFPA 72 - 2010 edition.	72.000	No.	15930.00	<b>1146960.00</b>	INR Eleven Lakh Forty Six Thousand Nine Hundred & Sixty Only
101	SITC of Response Indicator with matching screws complete with GI Junction box, cable lugs at cable end and ferruling and any other hardware as appropriate.	13.000	No.	110.00	<b>1430.00</b>	INR One Thousand Four Hundred & Thirty Only

102	Supplying and drawing 3 x 1.5 sq. mm size of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required.	18400.000	Rmtrs	50.00	<b>920000.00</b>	INR Nine Lakh Twenty Thousand Only
103	Supply & laying of FRLS type armoured cable of 3 Core x 1.5 sq.mm, Copper (Cu) conductor, Shielded Twisted pair, XLPE insulated wire, conforming to IS standards and as per technical specifications with all the necessary accessories as required to complete laying/installation for Fire alarm System.	3200.000	Rmtrs	135.00	<b>432000.00</b>	INR Four Lakh Thirty Two Thousand Only
104	4. ACCESS CONTROL AND TIME ATTENDANCE SYSTEM  SITC of ACS client hardware/workstation - industry standard Intel based platform, minimum i7 processor, 2GB RAM, 1TB SATA HDD, dedicated AGP graphics with 1G RAM, DVD, USB ports, min. 19" LED display supporting 1360x768 minimum resolution, rack mountable, licensed Microsoft Operating System Windows 10 or above and requisite user licenses.	1.000	No.	52540.00	<b>52540.00</b>	INR Fifty Two Thousand Five Hundred & Forty Only
105	SITC of Centralised Web based Application Software for Configuration, Management & Diagnostics of Access Control Configuration & Time Attendance Management.	1.000	No.	75244.00	<b>75244.00</b>	INR Seventy Five Thousand Two Hundred & Forty Four Only
106	SITC of microcontroller/microprocessor based Door Controller plus Reader for Access Control with all interfaces for computer/server connectivity for card base access control.	12.000	No.	33246.00	<b>398952.00</b>	INR Three Lakh Ninety Eight Thousand Nine Hundred & Fifty Two Only
107	SITC of microcontroller/microprocessor based Controller plus Reader for Time attendance function with all interfaces for computer/server connectivity for biometric base time attendance system.	50.000	No.	39290.00	<b>1964500.00</b>	INR Nineteen Lakh Sixty Four Thousand Five Hundred Only
108	Supply, Installation , Testing & Commissioning of Contactless smart Card based on technology MIFARE® DESFire EV1 MIFARE® Classic	65.000	No.	314.00	<b>20410.00</b>	INR Twenty Thousand Four Hundred & Ten Only
109	SITC of Green ABS plastic Emergency Break Glass Units. Current Rating : 12/24VDC, 10A48VDC, 3Amps typical. Various colour options shall be available.	12.000	No.	1028.00	<b>12336.00</b>	INR Twelve Thousand Three Hundred & Thirty Six Only
110	SITC of Electromagnetic Lock (fail safe type) of 600lbs holding force, dual voltage selectable (12 VDC or 24 VDC), UL listed, Green/Red LED indication for EM Lock Status, with feedback contact. Shall be complete with L/Z/U Brackets as required for mounting on Glass / Wooden frame / Metallic Doors.	12.000	No.	2261.00	<b>27132.00</b>	INR Twenty Seven Thousand One Hundred & Thirty Two Only
111	Supply, Installation , Testing & Commissioning and laying of 6 Core X0.5Sqmm Multistrand Copper Cable	700.000	Rmtrs	114.00	<b>79800.00</b>	INR Seventy Nine Thousand Eight Hundred Only
112	Supply, Installation , Testing & Commissioning and laying of 4 Core X0.5Sqmm Multistrand Copper Cable	700.000	Rmtrs	91.00	<b>63700.00</b>	INR Sixty Three Thousand Seven Hundred Only
113	F/UTP CAT6A COMPONENTS Supply and laying of specified make F/UTP CAT6A cable in prelaidd PVC conduits or pipes or raceways or cable trays, but without the cost of conduits or pipes or raceways or cable trays. The cable is to be drawn from individual workstation area/device/IO to the nearest distribution rack or networking rack. It shall be within the scope of integrator/contractor to carry out and submit scanner readings for all IOs meeting the requirements of relevant EIA/TIA standards as per CAT6A cabling requirements. The integrator/contractor shall submit a detail IO maps, labelling and documentation related to terminations.	2300.000	Rmtrs	50.00	<b>115000.00</b>	INR One Lakh Fifteen Thousand Only
114	SITC of F/UTP CAT6A RJ-45/RJ-45 Patch Cords Solid Conductor of various lengths: 3ft	62.000	No.	230.00	<b>14260.00</b>	INR Fourteen Thousand Two Hundred & Sixty Only
115	SITC of F/UTP CAT6A RJ-45/RJ-45 Patch Cords Solid Conductor of various lengths: 7ft	62.000	No.	259.00	<b>16058.00</b>	INR Sixteen Thousand & Fifty Eight Only

116	SITC with operation training of primevera software (Latest version in consultation of NU) for project management Multi Users atleast for three console under milestone I -Licence upto 3 years	1.000	SET	75000.00	<b>75000.00</b>	INR Seventy Five Thousand Only
117	AMC and Onsite support Operation & Comprehensive Maintenance of all the ELV Sytems BoQ items executed under the scope Sub-work I of this NIT <b>During DLP of 24 Months.</b>	1.000	JOB	1400000.00	<b>1400000.00</b>	INR Fourteen Lakh Only
118	<b>3rd Year AMC -</b> Operation & Comprehensive Maintenance of all the ELV Sytems BoQ items executed under the scope Sub-work I of this NIT inclusive of all materials and spare parts, which are to be provided by the integrator/bidder free of cost under Defects Liability Period as specified in this NIT, inclusive of all integrator's resources such as trained manpower and operational personnels for all services including routine maintenance, preventive maintenance, breakdown maintenance, software/firmware upgrade, repair and replacement of defective or damaged or burn-out items upon expiry of Defects Liability Period of Two years. <b>1st Year After Defects Liability Period, i.e., 2 year DLP + additional 1 year</b>	1.000	JOB	1000000.00	<b>1000000.00</b>	INR Ten Lakh Only
119	<b>4th Year AMC : 2nd Year After Defects Liability Period, i.e., 2 year DLP + additional 2 years</b>	1.000	JOB	1300000.00	<b>1300000.00</b>	INR Thirteen Lakh Only
120	<b>5th Year AMC : 3rd Year After Defects Liability Period, i.e., 2 year DLP + additional 3 years</b>	1.000	JOB	1700000.00	<b>1700000.00</b>	INR Seventeen Lakh Only
<b>Total in Figures</b>					<b>244009682.00</b>	INR Twenty Four Crore Forty Lakh Nine Thousand Six Hundred & Eighty Two Only
<b>Quoted Rate in Figures</b>			<b>Select</b>		<b>0.00</b>	INR Zero Only
<b>Quoted Rate in Words</b>			<b>INR Zero Only</b>			