

Updated BOQ for Odia University

BOQ			
Sl.	Items/Activities	Qty	UoM
A. Smartclass (Phase-1)			
1	86" 4K LED Interactive Display, Must support Multilingual text including Odia	4	Nos
2	All in one Digital Wireless Handheld Microphone Set audio Frequency response 20 Hz to 20 Khz or better	8	Nos
3	12X PTZ Camera with all accessories	4	Nos
4	Digital podium with touch screen.	4	Nos
5	All in one digital wireless lavalier set Audio frequency response 20 Hz -20KHZ or better	4	Nos
6	DSP Core with 64X64 Dante on a dual NIC	4	Nos
7	50 W 2 way Cabinet Loudspeaker	16	Nos
8	Quad Channel class -D Amplifier	4	Nos
9	Core i5, 8 GB RAM , 512 SSD , inbuilt Wireless , 21.5 " Monitor	4	Nos
10	8 - Port POE Managed Switch	4	Nos
11	HDMI cable 10 Mtr (As per Actual)	4	Nos
12	Cat 6 Cable (As per Actual)	4	Lot
13	Speaker Cable (As per Actual)	4	Nos
14	XLR Connector (As per Actual)	24	Nos
15	9 U AV Rack	4	Nos
16	2KVA online UPS 30 Min Backup	4	Nos
B. Smartclass (Phase-2)			
1	86" 4K LED Interactive Display, Must support Multilingual text including Odia	4	Nos
2	All in one Digital Wireless Handheld Microphone Set audio Frequency response 20 Hz to 20 Khz or better	8	Nos
3	12X PTZ Camera with all accessories	4	Nos
4	Digital podium with touch screen.	4	Nos
5	All in one digital wireless lavalier set Audio frequency response 20 Hz -20KHZ or better	4	Nos
6	DSP Core with 64X64 Dante on a dual NIC	4	Nos
7	50 W 2 way Cabinet Loudspeaker	16	Nos
8	Quad Channel class -D Amplifier	4	Nos
9	Core i5, 8 GB RAM , 512 SSD , inbuilt Wireless , 21.5 " Monitor	4	Nos
10	8 - Port POE Managed Switch	4	Nos
11	HDMI cable 10 Mtr (As per Actual)	4	Nos

12	Cat 6 Cable (As per Actual)	4	Lot
13	Speaker Cable (As per Actual)	4	Nos
14	XLR Connector (As per Actual)	24	Nos
15	9 U AV Rack	4	Nos
16	2KVA online UPS 30 Min Backup	4	Nos
C. Seminar Hall			
1	98" 4K LED Display	4	Nos
2	12X PTZ Camera with all accessories	4	Nos
3	Digital podium with touch screen.	4	Nos
4	Switcher	1	Nos
5	Ceiling Mounted Microphone	8	Nos
6	Wired Gooseneck Microphone	4	Nos
7	All in one Digital wireless Lavalier Set Audio frequency response 20 Hz -20KHZ or better	4	Nos
8	DSP Core with 64X64 Dante on a dual NIC	4	Nos
9	50 W 2 way Cabinet Loudspeaker	24	Nos
10	Quad Channel class -D Amplifier	4	Nos
11	Document camera for Podium	4	Nos
12	Core i5, 8 GB RAM , 512 SSD , inbuilt Wireless , 21.5 " Monitor	4	Nos
13	8 - Port POE Managed switch	4	Nos
14	HDMI cable 10 Mtr (As per Actual)	4	Nos
15	Speaker Cable(As per Actual)	4	Nos
16	XLR Connector(As per Actual)	56	Nos
17	9 U AV Rack	4	Nos
18	2 KVA online UPS 30 Min Backup	4	Nos
D. Digital Library			
1	Core i5, 8 GB RAM , 512 SSD , inbuilt Wireless , 21.5 " Monitor	32	Nos
2	Rack Server , Max 2 U , Intel Xeon or Equivalent Latest Gen 16C/3.2 Ghz CPU , Min 64 GB DDR5 RAM	1	Nos
3	15 TB Usable capacity using SAS drives	1	Nos
4	Firewall for 100 user	1	Nos
5	L3 Switch	2	Nos
6	L2 switch	3	Nos
7	Patch panel	2	Nos
8	1 Mtr Patch Cord(As per Actual)	37	Nos
9	2 Mtr Patch Cord(As per Actual)	40	Nos
10	LC LC Patch Cord(As per Actual)	2	Nos
11	Cat 6 Cable(As per Actual)	6	Lot
12	42 U Rack with Accessories 600 X 1000	1	Nos
13	Professional Book Scanner	1	Nos

14	Printer with scanner	1	Nos
15	10 KVA UPS with 60 Min Backup	1	Nos
16	Implementation and Operation of Digital Library Management Software	1	Nos
17	Operation and Maintenance	1	Nos
E. Data Networking			
(i) FOR BUILDINGS			
1	Indoor AP (Wi-Fi-6) with all wiring and accessories having inbuilt controller capability	45	Nos
2	1Gbe RJ45 port 24 nos, 10 GbE SFP + port 4 nos, PoE/PoE+ capable with 370W minimum, IPv4/6 ACL support, 802.1q, loaded with SFP module, dedicated management interface, VLAN tagging Warranty minimum 3 years.	14	Nos
3	LIU with all the termination accessories	14	Nos
4	8 -port PoE switch, with loaded SFP modules as required	2	Nos
5	24 Port patch panel loaded with accessories	16	Nos
6	CAT 6A RJ45 patch chords.	400	Nos
7	12U Wall mounting rack with Accessories	14	Nos
8	2KVA Online UPS with 30 Min Backup	14	Nos
(ii) FOR EXTERIOR			
1	Outdoor AP (Wi-Fi-6) with all wiring and accessories - Poles, Wire, Fixture and other components may required	8	Nos
2	Gigabit Media converter	8	Nos
3	CAT 6A U/FTP Patch Cord - 1 Meter. Cable conductor Size: 24-26AWG Stranded bare copper with Pre-Terminated with RJ45 Plug.	8	Nos
4	LC-LC - Single-mode, Fiber Patch Cord in LSOH jacket	8	Nos
5	OFC splicing Box	8	Nos
6	6-Core SM OFC , taped, corrugated steel tape armoured (STA) polyethylene (HDPE) outer sheathed embedded with two steel wires on the periphery. The cables are with UV Stabilized PE Jacket and protected from Rodent attacks. Shall be manufactured LNG Vapor Axial Deposition technology. (As per Actual)	700	Mtrs
7	Power cables supply, installation, Testing & Commissioning of 3 Core Power Cable 1.5 sqmm . Power Cable 3 core (1.5 sq mm) Copper Cable with all accessories, Switch 5/15 Amp, Socket- 5/15 amp, Cable Ties, Marking Cable, Insulation Tape, Screw 40x8 GITI 40x8 etc.(As per Actual)	700	Mtrs
8	Small waterproof housing box for storage of network equipment	8	Nos
9	10M GI Pole	8	Nos

(iii) FOR SERVER ROOM			
1	42U Networking racks with Accessories	1	Nos
2	Rack Server, Max 2U, Intel xeon or Equivalent latest Gen 16C/3.2GHz CPU, min 64GB DDR5 RAM, 2 x 480GB SSD , 2 x 25G-SR, RPS, with manufactures warranty for min 3 yrs.	2	Nos
3	Firewall for 500 User Device Should be 1RU ; 19 Inch Rack mountable The appliance should have minimum 8 x 10/100/1000 Base T Ethernet Port The appliance should have Dual Redundant External Power Supply from Day1 The appliance should have minimum internal storage of 1TB SSD for Logs & Report or better, The appliance Should have Minimum 4Gb Memory or better	1	Nos
4	Layer 3 fiber switch - 24 x 10 T Ports, 4x10G SFP+ uplink port ,loaded with SFP modules, Switch and SFP should be from same OEM only	3	Nos
5	LIU with all the termination accessories,12/24 port	2	Nos
6	5KVA UPS with battery.	1	Nos
7	Technical Support Staff	2	Nos
F. Additional Items for Digital Library, Smart Class & Seminar Hall			
1	Digital Kiosk Machine 36" for Smart Classroom and Digital Library	3	Nos
2	Standee - 55" Seminar Hall & Digital Library	2	Nos
3	Device Cart For keeping Devices for Digital Library and Smart Classroom	3	Nos
4	Digital Locker - (50 Lockers)	3	Nos
5	Technical Support Cost (Manpower) for 3 years	2	Nos