

**** Please provide make and model no of the quoted items**

Number	Description		Complied/ Not Complied	Remarks **
1.1	The specification of UTP Jacks should be meet standards as specified below:			
i	Type	Unshielded Twisted Pair, Category 6, conform to ANSI/TIA/EIA-568-B.2 Category 6, CENELEC EN 50173 and ISO/IEC-11801 (2nd Edition) requirements.		
ii	Modular Jack	750 mating cycles		
iii	Wire terminal	200 termination cycles		
iv	Accessories	Strain relief and bend-limiting boot for cable		
v	Dust cover	Integrated hinged dust cover		
vi	Housing	Poly-phenylene oxide, 94V-0 rated		
vii	Wiring blocks	Polycarbonate, 94V-0 rated		
viii	Jack contacts	Phosphorous bronze, plated with 1.27micro-meter thick gold		
ix	Approvals	UL listed		
x	Performance Characteristics to be provided with bid	Attenuation, NEXT, PS NEXT, FEXT and Return Loss		
1.2	The specification of UTP Jack Panels LOADED should be meet standards as specified below:			
i	Type	24-port, Keystone type, PCB based, Unshielded Twisted Pair, Category 6, TIA / EIA 568-B.2		
ii	Ports	24 Ports loaded keystone.		
iii	Port arrangement	Individual keystone type		
iv	Category	Category 6		
v	Circuit Identification Scheme	Icons on each of 24-ports		
vi	Port Identification	9mm or 12mm Labels on each of 24-ports (to be included in supply)		
vii	Height	1 U (1.75 inches)		
viii	Modular Jack	750 mating cycles		
ix	Wire terminal (110 block)	200 termination cycles		
x	Accessories	Strain relief and bend limiting boot for cable		
xi	Housing	Polyphenylene oxide, 94V-0 rated		

xii	Wiring blocks	Polycarbonate, 94V-0 rated		
xiii	Jack contacts	Phosphorous bronze, plated with 1.27micro-meter thick gold		
xiv	Panel	Fully powder coated pencil grey		
xv	Approvals	UL listed		
xvi	Termination Pattern	TIA / EIA 568 A and B;		
xvii	Performance Characteristics to be provided along with bid	Attenuation, NEXT, PS NEXT, FEXT and Return Loss		
1.3	The specification of faceplates (Work area will have face plate with back box and jacks)			
i	Standard	Conforms to CAT6 Work Area Data I/O Outlet (RJ45) adhering to EIA/TIA-568-B2.1, ISO/IEC 11801(2002) and CENELEC EN50173-1 (2002) specifications		
ii	Type	1-port or 2 -port, WhiteFace plate		
iii	Material	ABS / UL 94 V-0		
iv	No. of ports	One/ Two		
1.4	The specification of Workstation / Equipment Cords should be meet standards as specified below:			
i	Type	Unshielded Twisted Pair, Category 6, TIA / EIA 568-B.2		
ii	Conductor	24-26 AWG , multi - stranded copper		
iii	Length	2 meter for workstation and 1 meter for Jack panel/equipment		
iv	Plug Protection	Matching colored snag-less, elastomer polyolefin boot		
v	Warranty	25-year component warranty		
vi	Terminals	Phosphor Bronze, 50 micron gold plating over selected area and gold flash over remainder, over 100 micron nickel under plate		
vii	Jacket	PVC		
viii	Insulation	Flame Retardant Polyethylene		

Specifications for Fiber Optic Cabling Systems			
Number	Description	Complied/ Not Complied	Remarks **
1.5	The specification of Fiber optic Cable should be meet standards as specified below:		

i	Cable Type	6 core, Multi Mode, Armored, Loose-tube, Gel filled		
ii	Fiber Type	MM - OM3, 50 / 125, 250 micron primary coated buffers. UL Listed fiber - OM3 - Corning make raw fiber		
iii	Fiber core must be	As per Telecordia GR20, TIA -568-C.2 for OM3, IEC 60793-2-10 - Type A1a.2 fiber,		
iv	No of cores	6 or 12		
v	Armor	Corrugated Steel Tape Armor - Loose tube design - multi tube		
vi	Cable Construction Type	BELLCORE GR 20 / IEC 794-1 - Loose tube Corrugated steel tape (0.155mm Min)CSTA provided		
vii	Outer Jacket Construction	High density polyethylene, anti - termite, anti - rodent suitable for direct burial application.		
viii	@ 850nm	< = 2.50 dB/Km		
ix	@ 1300nm	< = 1.00 dB/Km		
x	Max Tensile Load	>= 2670 N		
xi	Maximum Crush resistance	3000N		
xii	Operating Temperature	-40 deg Cel to +70 deg Cel		
xiii	Test Parameters	Must pass the following : - IEC794-1-E1, IEC794-1-E2, IEC794-1-E3, IEC794-1-E4, EIA-455-104, IEC794-1-E7, IEC794-1-E10, IEC794-1-E11, IEC794-1-F5		
xiv	Marking:	The cable has identification marking at regular intervals of 1 meter which will be of permanent nature. The accuracy of the sequential marking will be within +/- 0.5%.		
1.6	Pigtail Type			
i	Connector Type	SC -Style, Simplex		
ii	Operating temperature	-40 Degree C to +85 Degree C		
iii	Standard	Fully in compliance with JIS C5973 F04 Type.		
iv	Durability	(500 Mappings): < 0.2 dB Max		
v	Ferrules	Pre-radius Ceramic Zirconia Ferrule. Bayonet Coupling: 2.5 mm Zirconia Ferrule		
vi	Attenuation	Not more than 0.75 dB per mated pair		
vii	Parameters / standard	Meets and exceeds ITU specifications, UL listed and 3rd Party RoHS compliant		

1.7	Patch Cord (LC - SC) - 3mtr			
i	Cable type	SC-LC type MM OM3. Available in either 1.6mm or 3mm simplex or Duplex Zipcord.		
ii	Fiber type	Multi mode 50/125 250 micron primary coated buffers		
iii	No of cores	2 Cable construction Type PVC outer jacket		
iv	Outside Diameter	1.6mm x 3.0mm (Simplex) or 1.6mm x 3.3mm(Duplex)		
v	Minimum Cable Retention Strength	1.6mm: 11.24 lbs (50 N)		
vi	Operating Temperature	-40 Degree to + 60 Degree		
vii	Length	3 meter		
1.8	The specification of Fiber Optic Patch Panels should be meet standards as specified below:			
i	Fiber optic patch panel	19-inch, Rack mounted Fiber optic patch panel		
ii	Height	1U		
iii	# of fibers	12 & 24 in 1U		
iv	# of OSP Cables for termination	Minimum 2		
v	Grounding	2 Nos. of earthing lugs, pre-loaded		
vi	Cable Management rings	Front and rear cable management rings, pre-loaded		
vii	Adapter plates	6 Port adapter plates		
viii	Fiber optic patch panel	Rack mounted Fiber optic patch panel		
ix	Dimension	12 & 24 Port LIU : 370 * 350 * 80 mm (H*W*D)		
x	Construction	Complete Aluminium Alloy housing, fully powder coated		
xi	Splice tray	Dimension: 140 * 125 * 10 mm. Included in LIU not to be quoted separately.		
xii	Splice tray Construction	Fully cushioned splice holder containing grooves for fixing splice protective sleeves		
xiii	Cable Spools	Flame retardant plastic, high impact resistance. Must be part of LIU.		
xiv	cable spools Construction	Two halves spool design , Stackable design, sufficient room provided for storage of excess cable		
1.9	The specification of Fiber Optic Adapter plates and Adaptors should be meet standards as specified below:			

i	Fiber Optic adapter plate	6-port, SC-Style, MM Adapter with Adapter Plate		
ii	Attenuation	Max of 0.75 dB per mated pair		
iii	Adapters	Available in Simplex types.		
iv	Durability	< 0.2 dB max (1000 Matings)		
v	Standard	Compliant as per EIA/TIA 568-B and ISO/IES 11080		