

6.2.2.45 GTP of 10 Meter Fiber Optic Trunk

(To be filled up and signed by the Manufacturer & Tenderer, otherwise the offer will not be acceptable)

Sl. No.	Name of Item	Unit	Required specifications	Full Technical Specification & Standard (to be mentioned)
1	Brand		Commscope/Panduit/Prose or equivalent	
2	Model		To be mentioned by the bidder	
3	Brand Origin		To be mentioned by the bidder	
4	Country of Manufacturer/Origin		To be mentioned by the bidder	
5	Conformity		All passive products (Copper, Fiber and Rack) must be from same manufacturer in order to ensure the end to end proper integration.	
6	Features/Benefits		- Should have IEC 61745 IEC61755 and other standards. - Without a single splicing point in the entire trunk cable, each fiber connector should be tested for transmission and connectivity performance to ensure minimal insertion loss. - Should be OM4 - Should be LSZH rated outer sheath cables D195	
7	Length		Should be 10 meter	
8	Fiber count		Should be 12	
9	Connector		Should be MPO Female-MPO Female	
10	MPO polarity		Should be Type C (per TIA-568.3-E)	
11	Tensile Strength(N)		Should be 1200	
12	Bending Radius(mm)		Should be 160	
13	Installation Radius(mm)		Should be 120	
14	Fiber Optic Fable Impact Resistance(N/cm)		Should be 150	
15	Fitting Type, Grinding Method		Should be Low Loss Type, PC 0°	
16	Insertion Loss(Typical Value)		Should be ≤0.15dB	
17	Insertion Loss(Maximum Value)		Should be ≤0.30dB	
18	Return Loss(Typical Value)		Should be ≥35dB	
19	Return Loss(Maximum Value)		Should be ≥30dB	
20	Linear Sequence		Should be A, B, C	
21	Fitting Type, Grinding Method		Should be ZrO2, PC 0°	
22	Insertion Loss		Should be ≤0.10dB	
23	Insertion Loss		Should be ≤0.25dB	
24	Return Loss		Should be ≥40dB	
25	Return Loss		Should be ≥35dB	

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Sl. No.	Name of Item	Unit	Required specifications	Full Technical Specification & Standard (to be mentioned)
26	Documentation		- Bidder should provide relevant documents as reference of their compliance of the specific feature.	
			- Bidder must clearly mention the OEM model number.	
			- Bidder must submit manufacturer authorization letter direct from OEM along with bid document.	
27	Installation		- Bidder should responsible for installation, Testing and commissioning.	
			- Installation work should be completed through OEM certified engineer. Evidence should be submitted along with proposal.	

[The Tenderer should complete all the columns as required]

Signature:

Name & Designation of tenderer

Signature

Name and Designation of Manufacturer

Duly authorised to sign the Tender for and on behalf of the Tenderer

6.2.2.46 GTP of 8 Meter Fiber Optic Trunk

(To be filled up and signed by the Manufacturer & Tenderer, otherwise the offer will not be acceptable)

Sl. No.	Name of Item	Unit	Required specifications	Full Technical Specification & Standard (to be mentioned)
1	Brand		Commscope/Panduit/Prose or equivalent	
2	Model		To be mentioned by the bidder	
3	Brand Origin		To be mentioned by the bidder	
4	Country of Manufacturer/Origin		To be mentioned by the bidder	
5	Conformity		All passive products (Copper, Fiber and Rack) must be from same manufacturer in order to ensure the end to end proper integration.	
6	Features/Benefits		- Should have IEC 61745 IEC61755 and other standards. - Without a single splicing point in the entire trunk cable, each fiber connector should be tested for transmission and connectivity performance to ensure minimal insertion loss. - Should be OM4 - Should be LSZH rated outer sheath cables D195	
7	Length		Should be 8 meter	
8	Fiber count		Should be 12	
9	Connector		Should be MPO Female-MPO Female	
10	MPO polarity		Should be Type C (per TIA-568.3-E)	
11	Tensile Strength(N)		Should be 1200	
12	Bending Radius(mm)		Should be 160	
13	Installation Radius(mm)		Should be 120	
14	Fiber Optic Fable Impact Resistance(N/cm)		Should be 150	
15	Fitting Type, Grinding Method		Should be Low Loss Type, PC 0°	
16	Insertion Loss(Typical Value)		Should be ≤0.15dB	
17	Insertion Loss(Maximum Value)		Should be ≤0.30dB	
18	Return Loss(Typical Value)		Should be ≥35dB	
19	Return Loss(Maximum Value)		Should be ≥30dB	
20	Linear Sequence		Should be A, B, C	
21	Fitting Type, Grinding Method		Should be ZrO2, PC 0°	
22	Insertion Loss		Should be ≤0.10dB	
23	Insertion Loss		Should be ≤0.25dB	
24	Return Loss		Should be ≥40dB	
25	Return Loss		Should be ≥35dB	

Sl. No.	Name of Item	Unit	Required specifications	Full Technical Specification & Standard (to be mentioned)
26	Documentation		- Bidder should provide relevant documents as reference of their compliance of the specific feature.	
			- Bidder must clearly mention the OEM model number.	
			- Bidder must submit manufacturer authorization letter direct from OEM along with bid document.	
27	Installation		- Bidder should responsible for installation, Testing and commissioning.	
			- Installation work should be completed through OEM certified engineer. Evidence should be submitted along with proposal.	

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6.2.2.47 GTP of 6 Meter Fiber Optic Trunk

(To be filled up and signed by the Manufacturer & Tenderer, otherwise the offer will not be acceptable)

Sl. No.	Name of Item	Unit	Required specifications	Full Technical Specification & Standard (to be mentioned)
1	Brand		Commscope/Panduit/Prose or equivalent	
2	Model		To be mentioned by the bidder	
3	Brand Origin		To be mentioned by the bidder	
4	Country of Manufacturer/Origin		To be mentioned by the bidder	
5	Conformity		All passive products (Copper, Fiber and Rack) must be from same manufacturer in order to ensure the end to end proper integration.	
6	Features/Benefits		- Should have IEC 61745 IEC61755 and other standards. - Without a single splicing point in the entire trunk cable, each fiber connector should be tested for transmission and connectivity performance to ensure minimal insertion loss. - Should be OM4 - Should be LSZH rated outer sheath cables D195	
7	Length		Should be 6 meter	
8	Fiber count		Should be 12	
9	Connector		Should be MPO Female-MPO Female	
10	MPO polarity		Should be Type C (per TIA-568.3-E)	
11	Tensile Strength(N)		Should be 1200	
12	Bending Radius(mm)		Should be 160	
13	Installation Radius(mm)		Should be 120	
14	Fiber Optic Fable Impact Resistance(N/cm)		Should be 150	
15	Fitting Type, Grinding Method		Should be Low Loss Type, PC 0°	
16	Insertion Loss(Typical Value)		Should be ≤0.15dB	
17	Insertion Loss(Maximum Value)		Should be ≤0.30dB	
18	Return Loss(Typical Value)		Should be ≥35dB	
19	Return Loss(Maximum Value)		Should be ≥30dB	
20	Linear Sequence		Should be A, B, C	
21	Fitting Type, Grinding Method		Should be ZrO2, PC 0°	
22	Insertion Loss		Should be ≤0.10dB	
23	Insertion Loss		Should be ≤0.25dB	
24	Return Loss		Should be ≥40dB	
25	Return Loss		Should be ≥35dB	

Sl. No.	Name of Item	Unit	Required specifications	Full Technical Specification & Standard (to be mentioned)
26	Documentation		- Bidder should provide relevant documents as reference of their compliance of the specific feature.	
			- Bidder must clearly mention the OEM model number.	
			- Bidder must submit manufacturer authorization letter direct from OEM along with bid document.	
27	Installation		- Bidder should responsible for installation, Testing and commissioning.	
			- Installation work should be completed through OEM certified engineer. Evidence should be submitted along with proposal.	

[The Tenderer should complete all the columns as required]

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6.2.2.48 GTP of Containment & Rack with PDU

(To be filled up and signed by the Manufacturer & Tenderer, otherwise the offer will not be acceptable)

Sl. No.	Name of Item	Unit	Required specifications	Full Technical Specification & Standard (to be mentioned)
1	Brand		To be mentioned by the bidder	
2	Model		To be mentioned by the bidder	
3	Brand Origin		To be mentioned by the bidder	
4	Country of Manufacturer/Origin		To be mentioned by the bidder	
5	Conformity		All passive products (Copper, Fiber and Rack) must be from same manufacturer in order to ensure the end to end proper integration.	
6	Cooling Channel			
7	Automatic Sliding Door		The automatic sliding door frame is made of cold-rolled steel plate, with a modular design, solid structure, and is reliable and safe. The door can be manually opened by a button or remote control and can close automatically. The door frame has a reserved installation position for the access control system. The inside of the door frame is equipped with a human body sensor, and the door has an anti-pinch function when it is closing and opening. The bottom of the door is in contact with the ground, and the door edge is attached with soft buffer material to prevent air leakage when the door is closed. The door opens by sliding the glass embedded in the steel frame; the glass thickness is not less than 10mm, with a light transmittance of 90%; the sealing performance between the door and the frame can effectively inhibit airflow. Both hot and cold aisles are equipped with high-quality sliding doors, sliding door hanging rails, and heavy-duty nylon silent pulleys, ensuring that the cold aisle can be easily opened and closed by sliding. Usage: Used for the security door entrance and exit at both ends of the cold aisle. Color: Black RAL9005	
8	Weight		About 220kg	
9	Frame Material Thickness		SPCC, ≥2.0mm	
10	Door Opening Method		Double doors, sliding open to both sides.	
11	Door Opening Function		Ability to keep door open when service is required in cold air enclosure; Door opens manually by button or remote, with the ability to close automatically	
12	Alarm		Audible and Visual Alarm; Alarm Light; When a fire alarm is triggered, the alarm will sound and the lights will flash, and the alarm light will turn red; At the same time, the sliding door will open for 20s to facilitate the evacuation of personnel inside.	
13	Semi-Fixed Wiring Skylight		Description: Made of cold-rolled steel plate, fixed through modular installation, with a sturdy, reliable, and safe structure.	
14			Usage: The 300mm wide fixed skylight is used for installing surveillance cameras, temperature and humidity	

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Sl. No.	Name of Item	Unit	Required specifications	Full Technical Specification & Standard (to be mentioned)
			sensors, smoke detectors, and other equipment; the 300mm wide wiring channel is for the overhead crossing wiring of strong and weak electrical lines in the passage. Surface treatment: degreasing, pickling, phosphoric acid, powder coating.	
15			Color: Black RAL9005	
16	Size (mm)		600(W) x 1400(D) x 350(H)	
17	Weight		About 40kg	
18	Function		The 300mm wide fixed skylight is used for installing surveillance cameras, temperature and humidity sensors, smoke detectors, and other equipment; the 300mm wide wiring channel is for the overhead crossing wiring of strong and weak electrical lines in the passage.	
19	Lighting Fixture		Lighting fixtures installed on the inside of the skylight, with a brightness greater than 300lux, and the lights can be turned on via motion sensor.	
20	Flip Skylight		Usage Instructions: Made of cold-rolled steel plate + white PC board, with a modular design for easy installation and disassembly, featuring a sturdy and reliable structure. Flip skylight is embedded with a white PC board, with a PC thickness of $\geq 4\text{mm}$. The light transmittance of the PC is 85%. The flip skylight must be equipped with an electromagnetic lock, which automatically flips down when there is a power outage, fire alarm, or upon receiving a fire signal, thereby effectively extinguishing the fire; the opening angle of the top plate after flipping is ≥ 88 degrees. The skylight and its installation accessories match the width of the cabinet. Flip skylight will not collide with other equipment when rotating. Purpose: Used for cold aisle skylights, linked with fire signal control. Surface Treatment: Degreasing, pickling, phosphating, powder coating. Color: Black RAL9005.	
21	Size (mm)		600(W) x 1400(D) x 350(H)	
22	Material Thickness		SPCC, $\geq 1.5\text{mm}$	
23	Fixed Glass Skylight		Instruction: The cold-rolled steel plate is adopted, the thickness of the material is greater than or equal to 1.2mm, and it is fixed by modular installation, with firm, reliable and safe structure. The skylight frame is embedded with glass, and the thickness of the glass is not less than 4mm, which meets the standard of GB15763.2 -2005 Safety Glass for Buildings. Usage: used for sealing the top of cold passage. Surface finish: degreasing, pickling, phosphoric acid, powder coating. Color: black RAL9005/ gray RAL7035	
24	Size (mm)		600(W) x 1400(D) x 350(H)	
25	Material Thickness		SPCC, $\geq 1.5\text{mm}$; Glass, 5mm	
26	Fixed Steel Skylight		Description: Made of SPCC, with a thickness of $\geq 1.5\text{mm}$, consistent with the width of the cabinet, modular installation for a sturdy, reliable, and safe structure. Usage: Designed for installing surveillance cameras, temperature and humidity sensors, smoke detectors, and	

Sl. No.	Name of Item	Unit	Required specifications	Full Technical Specification & Standard (to be mentioned)
			other equipment in cold aisles. Surface Treatment: Degreasing, pickling, phosphating, and powder coating. Color: Black RAL9005	
27	Size (mm)		600(W) x 1400(D) x 350(H)	
28	Material Thickness		SPCC, ≥1.5mm	
29	Lighting Fixture		Lighting fixtures installed on the inside of the skylight, with a brightness greater than 300lux, and the lights can be turned on via motion sensor.	
30	Cabinet Rear Panel		Made with SPCC, thickness ≥1.2mm, matching the width of the cabinet, modular installation for fixation, ensuring a sturdy, reliable, and safe structure. Usage: Designed for shielding the top and rear of the cabinet. Surface Treatment: Degreasing, pickling, phosphating, and powder coating. Color: Black RAL9005.	
31	Meet Standard		ANSI/EIA RS-310-D, IEC297-2, DIN41491, DIN41494, GB/T3047.2-92	
32	Power Control Box		Usage instructions: It is used to control the power supply of skylight, access door and lighting, connect fire signal, and open the skylight and access door through the fire alarm information. Color: black RAL9005	
33	Size (mm)		400(W) x 300(D) x 100(H)	
34	Material Thickness		SPCC, ≥1.2mm	
35	Meet Standard		ANSI/EIA RS-310-D, IEC297-2, DIN41491, DIN41494, GB/T3047.2-92	
36	Function		Open the skylight and access the door through the fire alarm information.	
37	Frame		Usage instructions: Adopting a metal structure, used for supporting positions in inorganic cabinets. Color: black RAL9005	
38	Meet Standard		ANSI/EIA RS-310-D, IEC297-2, DIN41491, DIN41494, GB/T3047.2-92	
39	Server Cabinet: Quantity 8 Nos			
40	Static Load		2200kg static load rating	
41	Front Door		Single mesh door	
42	Rear Door		Double mesh door	
43	Protection		IP20	
44	Surface Finish		Powder Coated	
45	Side Door		2pcs, tool-free installation, with the option to add a round lock	
46	Network Cabinet: Quantity 2 Nos			
47	Static Load		2000kg static load rating	
48	Front Door		Single mesh door	
49	Rear Door		Double mesh door	
50	Protection		IP20	

Sl. No.	Name of Item	Unit	Required specifications	Full Technical Specification & Standard (to be mentioned)
51	Surface Finish		Powder Coated	
52	Side Door		2pcs, tool-free installation, with the option to add a round lock	
53	Paking		Detachable	
54	keyboard tray		keyboard tray	
55	Installation		- Bidder should responsible for installation, Testing and commissioning	
56	Documentation		- Bidder must submit manufacturer authorization letter direct from OEM along with bid document.	
57	Warranty		Bidder should provide three (03) years full warranty	

[The Tenderer should complete all the columns as required]

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6.2.2.49 GTP of Intelligent-PDU

(To be filled up and signed by the Manufacturer & Tenderer, otherwise the offer will not be acceptable)

Sl. No.	Name of Item	Unit	Required specifications	Full Technical Specification & Standard (to be mentioned)
1	Brand		Internationally reputed brand to be mentioned by the bidder	
2	Model		To be mentioned by the bidder	
3	Country of Origin		To be mentioned by the bidder	
4	Country of Manufacture		To be mentioned by the bidder	
5	Standard		Power Inlet 1 x IEC 60309	
6	Power Outlets		Min. 21 x IEC 320 C13, 3 x IEC 320 C19 outlets each PDU	
7	Input Power Rating		Should be support 100–240V~; 50/60Hz; 32A	
8	Load Capacity		Should be support at least 7360 VA	
9	Operating Temp.		Should be support 0 - 40°C	
10	Storage Temp.		Should be support -20 - 60°C	
11	Humidity		Should be support 0-80% RH Non-condensing	
12	Housing		Metal	
13	Interface		It should Support 10/100Mbit Ethernet Interface	
14	Protocol		It should Support TCP/IP, UDP, HTTP, HTTPS, SSL, DHCP, SMTP, NTP, DNS, Auto Sense, Ping, SNMP V1,V2&V3	
15	Secure Access		It should Support 2-level account/password security, IP/MAC filter, 128 bit SSL, RADIUS	
16	Brand		Internationally reputed brand to be mentioned by the bidder	
17	Model		To be mentioned by the bidder	
18	Sensor		Sensor 4 x RJ-11	
			It should Support door sensor	
			It should support external temperature/temperature & humidity sensors for rack temperature and humidity monitoring	
19	Remote Management		It should have Remote power outlet control (On/Off, Power Cycle) by individual outlets and outlet groups	
			It should Support: Browser (IE, Firefox, Chrome, Safari)	
20	Power Control		It should Supports multiple power control methods — Wake on LAN, System After AC Back, Kill the Power	
21	Power-On sequence		It should have Power-On sequencing — users can set the power-on sequence and delay time for each outlet to allow equipment to be powered on in the correct order	
22	Material Thickness		SPCC, ≥1.5mm	
23	General Features		It should have PDU and outlet level power metering and monitoring	
			It should have Current, voltage, power, power dissipation, temperature, and humidity metering and threshold level setting	

Sl. No.	Name of Item	Unit	Required specifications	Full Technical Specification & Standard (to be mentioned)
			It should have Outlet group support at the PDU	
			It should have Proactive overload protection (POP) — automatically powers off the last outlet that caused the current overload	
24	Installation and Configuration		Bidder should provide installation, configuration, setup and integration with devices as per tenderer's guideline.	
25	Documents		Bidder should provide relevant documents as reference of their compliance	
26	Warranty		Bidder should provide three (03) years warranty	

[The Tenderer should complete all the columns as required]

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