

6.2.2.35 GTP of 3 Meter CAT6A Patch Cord

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

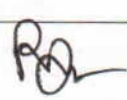
Sl. No.	Name of Item	Unit	Required specifications	Full Technical Specification & Standard (to be mentioned)
1	Brand		Commscope/Panduit/Prose or equivalent	
2	Model		To be mentioned by the bidder	
3	Brand Origin		To be mentioned by the bidder	
4	Country of Manufacturer/Origin		To be mentioned by the bidder	
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		- Should have ISO/IEC 11801:2008; ANSI/TIA - 568-C.2; IEC 61156-5. - Should have 360-degree overmolded boot - Connector contacts should be plated with gold of 50μ"thick	
7	Length		Should be 3 Meter	
8	Category		Should be Cat6A	
9	Conductor Type		Stranded copper wire should be 24AWG	
10	External dimensions (Unshielded, 24AWG)		Should be Cat6A: 6.2±0.2mm	
11	Conductor Pairs		Should be 4 Pairs	
12	Connector Type		Should be RJ45-RJ45	
13	Connector Contact Material		Should be Copper alloy with contact plating of 50μ" gold	
14	Cable Structure		Should be U/UTP	
15	Jacket Material		Should be PVC CM	
16	Material		Must be Bare copper (99.99%)	
17	Connector		Should be 8P8C	
18	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.	
19	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

6.2.2.36 GTP of 5 Meter CAT6A Patch Cord

(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		- Should have ISO/IEC 11801:2008; ANSI/TIA - 568-C.2; IEC 61156-5. - Should have 360-degree overmolded boot - Connector contacts should be plated with gold of 50μ"thick	
7	Length		Should be 5 Meter	
8	Category		Should be Cat6A	
9	Conductor Type		Stranded copper wire should be 24AWG	
10	External dimensions (Unshielded, 24AWG)		Should be Cat6A: 6.2±0.2mm	
11	Conductor Paris		Should be 4 Pairs	
12	Connector Type		Should be RJ45-RJ45	
13	Connector Contact Material		Should be Copper alloy with contact plating of 50μ" gold	
14	Cable Structure		Should be U/UTP	
15	Jacket Material		Should be PVC CM	
16	Material		Must be Bare copper (99.99%)	
17	Connector		Should be 8P8C	
18	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.	
19	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





6.2.2.37 GTP of Wire Manager

(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	Structure		Should be standard 19" rack-mounted, Cable management panel with cover, Slots in top and bottom side are used for upwards and downwards cabling.	
6	Material		Should be Metal	
7	Brand		Commscope/Panduit/Prose	
8	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.	
9	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

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

Signature

Name and Designation of Manufacturer






6.2.2.38 GTP of High Density Fiber Patch Panel

(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		- Should have ANSI/TIA-568.2-D and ISO/IEC 11801 - Should be Hybrid high density Patch Panel. - Should be 1U min. 96 core - Should have Diagonal entry, greater bending radius of the cable. - Should have fiber management and structural accessories.	
7	Product Type		Should be High Density, 1U 96P Simplex or 48P Duplex, 1U Unloaded Sliding Patch Panel	
8	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.	
9	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

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

Signature

Name and Designation of Manufacturer

6.2.2.39 GTP of MPO Module

(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		All MPO connectors within every module be female (without alignment pins).	
			MPO - LC Modules – 24-fiber – be available in 50 microanalyzer optimized OM4	
			The 24-fiber module have 12 pre-installed duplex LC adapters at the front routed to 2 pre-installed 24-fiber Low loss MPO adapters at the back.	
			All MPO modules shall support 'General polarity' wiring pattern for ease of scalability.	
			Same cassette should be used in both end of the link, without need of flipped or straight wiring management.	
			Dust caps on each front port shall be translucent to support VFL tests, without removing caps. Test light should be visible at the remote end, even with dust caps ON.	
			The cassettes be CE certified	
			Max Insertion Loss (MPO) : <0.35dB.	
			The vendor provide the application support guidelines for the system	
7	Certificate		Proposed product should be UL 444 rated and evidence should be submitted along with the proposal.	
8	Accessories		Bidder should provide all the required accessories to complete the implementation work.	
9	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.	
10	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



6.2.2.40 GTP of Fiber Patch Panel

(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		- Should have front cable management - Should have Flexible cable input, side way and back way. - Should provide convenient maintenance. - Should have steel body and front, the panel surface is treated with electro-static spraying.	
7	Product Type		Should be Sliding Patch Panel 24-Port/1U with SM G652D LC duplex Adapter & Pigtail, full load	
8	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.	
9	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

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

Signature

Name and Designation of Manufacturer

[Handwritten signature]

[Handwritten signature]

[Handwritten signature]

[Handwritten signature]

[Handwritten signature]

6.2.2.41 GTP of 5 Meter SM Fiber Patch Cord

(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		- Outer sheath materials should be LSZH - Should have low insertion loss, high return loss. - Should be duplex cable - Connector types should be LC, Comply with IEC 61754-20	
7	Length		Should be 5 Meter	
8	Fiber types		Should be Single-mode 9/125um (G652D,G657A/B)	
9	Connector variants		Should be duplex	
10	External diameter		Should be 2.0mm duplex cable	
11	Ferrule Outside Diameter (mm)		Should be LC: 1.25mm	
12	Insertion loss		Should be < 0.30 dB	
13	Return Loss		Should be > 50 dB	
14	Bending Radius for Installation (mm)		Should be 20 times O.D	
15	Bending Radius for Operation (mm)		Should be 10 times O.D	
16	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.	
17	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

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

Signature

Name and Designation of Manufacturer

6.2.2.42 GTP of 3 Meter OM4 Fiber Patch Cord

(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		- Outer sheath materials should be LSZH - Should have low insertion loss, high return loss. - Grinding mode should be UPC - Should be duplex cable - Connector types should be LC, Comply with IEC 61754-20	
7	Length		Should be 3 Meter	
8	Fiber types		Should be Multi-mode 50/125um, OM4	
9	Connector variants		Should be duplex	
10	External diameter		Should be 2.0mm duplex cable	
11	Ferrule Outside Diameter (mm)		Should be LC: 1.25mm	
12	Insertion loss		Should be < 0.30 dB	
13	Return Loss		Should be > 25 dB	
14	Bending Radius for Installation (mm)		Should be 20 times O.D	
15	Bending Radius for Operation (mm)		Should be 10 times O.D	
16	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.	
17	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

6.2.2.43 GTP of 5 Meter OM4 Fiber Patch Cord

(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		- Outer sheath materials should be LSZH - Should have low insertion loss, high return loss. - Grinding mode should be UPC - Should be duplex cable - Connector types should be LC, Comply with IEC 61754-20	
7	Length		Should be 5 Meter	
8	Fiber types		Should be Multi-mode 50/125um, OM4	
9	Connector variants		Should be duplex	
10	External diameter		Should be 2.0mm duplex cable	
11	Ferrule Outside Diameter (mm)		Should be LC: 1.25mm	
12	Insertion loss		Should be < 0.30 dB	
13	Return Loss		Should be > 25 dB	
14	Bending Radius for Installation (mm)		Should be 20 times O.D	
15	Bending Radius for Operation (mm)		Should be 10 times O.D	
16	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.	
17	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

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

Signature

Name and Designation of Manufacturer

6.2.2.44 GTP of 35 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 35 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]

Signature:

Name & Designation of tenderer

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

Signature

Name and Designation of Manufacturer