xxxi.	Cross Talk at 150 KHz	Individual: Better than 55 dB/Km, RMS: Better than 67.8 dB/km, Individual Value between pairs Better than 55 dB/km
xxxii.	Attenuation at 150KHz at 20°C	6.30 ±0.2 dB/Km (Max.)
xxxiii.	High Voltage core to core	3.5 KV DC for 3 seconds
xxxiv.	High Voltage core to shield	10 KV DC for 3 seconds
xxxv.	Standard Packing Length	Minimum 1000m/drum

a.4 Jelly filled 0.63mm diameter 20 pair copper cable

Sl. No.	Required feature	Description
i.	Cable Type	Armoured jelly filled
ii.	Number of pair	20 Nos
iii.	Conductor material	Solid annealed bare copper
iv.	Conductor grade	Electrolytic
v.	Nominal Diameter of Conductor	Minimum 0.63±0.01 mm or more
vi.	Shape of conductor	Solid circular
vii.	Insulation Material	Solid polythene confirming to ASTMD-1248 Type-II or III, Class A Cat 4 or 5
viii.	Nominal Thickness of Insulation	Suitable to meet the electrical & other test requirement
ix.	Twisting Lay of Pairs	Max. 150 mm
x.	No. of Units	1 Unit x20P
xi.	Jelly filling	The Cable Core thus formed is filled with suitable water resistance compound
xii.	Core Wrapping	After filling the water-resistant compound at least one close Helical/Longitudinal application of Polyester tape is applied
xiii.	Screening material	Polyal Tape
xiv.	Screening thickness	0.3 mm ± 15%
xv.	Screening Overlap	Minimum 3 .0 mm
xvi.	Sheath material	Solid Polythene
xvii.	Sheath type	Extruded
xviii.	Sheath thickness	Minimum 1.7mm ±0.2mm or more
xix.	Diameter over sheath	19.0mm (Max)
xx.	Bedding tape	The close helical lapping of polythene or polypropylene tape shall be provided with min. 5% overlap over sheath
xxi.	Armoring material	Hot Dip Galvanized Steel tape/ Plastic coated aluminum tape
xxii.	Armoring Type	Helical (Double)
xxiii.	Nominal thickness of armoring tape	0.5mm
xxiv.	Jacket material	Solid Polythene
xxv.	Jacket Type	Electrolytic
xxvi.	Jacket thickness	1.2 mm±0.2mm
xxvii.	Diameter over Jacket	26.0 mm (Max)
xxviii.	Conductor resistance at 20°C	Maximum 58 ± 4 Ohm/km
xxix.	Maximum % of resistance Unbalance	Avg:1.0 %, Individual: 2.0%
xxx.	Mutual Capacitance in between 800 to 1000 H	Avg.52 ± 3 nF/km, Individual .Max.52 ±4.5 nF/km
xxxi.	Cross Talk at 150 KHz	Individual: Better than 55 dB/km, RMS: Better than 67.8 dB/km, Individual Value between pairs Better than 55 dB/km
xxxii.	Attenuation at 150KHz at 20°C	6.30 ±0.2 dB/Km (Max.)
xxxiii.	High Voltage core to core	3.5 KV DC for 3 seconds
xxxiv.	High Voltage core to shield	10 KV DC for 3 seconds
xxxv.	Standard Packing Length	Minimum1000m/drum

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		v. Should have guidelines for dispersion non-shifted single mode optical fibers with glass core and cladding typically used for data, voice and video. vi. Should have guidelines to use with telecommunication equipment and device to employ similar technique and to cables having combination of both optical and electrical properties. vii. Should have standard guideline that describe geometrical, mechanical and transmission attributes of offered single mode fiber and offered cable must have zero dispersion wavelength around 1310nm and can be used for 1550nm viii. Should have guidelines that describe characteristic of bending loss insensitive single mode fiber and its access for the network
xxiv.	Bandwidth performance certificate	25 years bandwidth-based performance certificate from OEM & need to be submitted along with the bid
xxv.	Length /drum	2000 m

a.3 Jelly filled 0.63mm diameter 50 pair copper cable

Sl. No.	Required feature	Description
i.	Cable Type	Armoured jelly filled
ii.	Number of pair	50 Nos
iii.	Conductor material	Solid annealed bare copper
iv.	Conductor grade	Electrolytic
v.	Nominal Diameter of Conductor	Minimum 0.63±0.01 mm or more
vi.	Shape of conductor	Solid circular
vii.	Insulation Material	Solid polythene confirming to ASTMD-1248 Type-II or III, Class A Cat 4 or 5
viii.	Nominal Thickness of Insulation	Suitable to meet the electrical & other test requirement
ix.	Twisting Lay of Pairs	Max. 150 mm
x.	No. of Units	Minimum 5 Unit x 10P
xi.	Jelly filling	The Cable Core thus formed is filled with suitable water resistance compound
xii.	Core Wrapping	After filling the water-resistant compound at least one close Helical/Longitudinal application of polyester / plastic tape is applied
xiii.	Screening material	Polyal Tape
xiv.	Screening thickness	Minimum 0.3 mm ± 15%
xv.	Screening Overlap	Minimum 3 .0 mm
xvi.	Sheath material	Solid Polythene
xvii.	Sheath type	Extruded
xviii.	Sheath thickness	Minimum 1.7mm ±0.2mm or more
xix.	Diameter over sheath	25.5mm (Max)
xx.	Bedding tape	The close helical lapping of polythene or polypropylene tape shall be provided with min. 5% overlap over sheath
xxi.	Armouring material	Hot Dip Galvanised Steel tape/ Plastic coated aluminium tape
xxii.	Armouring Type	Helical (Double)
xxiii.	Nominal thickness of armouring tape	Minimum 0.5mm or more
xxiv.	Jacket material	Solid Polythene
xxv.	Jacket Type	Electrolytic
xxvi.	Jacket thickness	1.2 mm±0.2mm
xxvii.	Diameter over Jacket	32.5 mm (Max)
xxviii.	Conductor resistance at 20°C	Max .58 ± 4 Ohm/km
xxix.	Maximum % of resistance Unbalance	Avg:1.0 %, Individual: 2.0%
xxx.	Mutual Capacitance in between 800 to 1000 H	Avg.52 ± 3 nF/km, Individual: 52 ±4.5 nF/km

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