

TENDER FOR THE EMPANELMENT OF SUPPLIERS FOR SUPPLY OF OPTIC FIBRE CABLE

Ref: TACTV/003/OFC/2019 dt.12.3.2020

	Query	Clarification by TACTV
1	The tenderer should have at least 3 years of experience (as on 31st December 2019) in the business of supplying OFC cables. We request to amend that tenderer shall be at least 5 years old company in this business and should be manufacturer of Optical Fiber Cable.	No change in Tender conditions.
2	The tenderer should have at least 3 years of experience (as on 31st December 2019) in the business of supplying OFC cables. Please amend the clause as under:The tenderer should be a registered Original Equipment Manufacturer (OEM) for manufacturing & supply of OFC cables with at least 5 years experience as on 31 st December 2019. This will ensure fair and competitive participation from serious OEM's for the tender.	Both OEM and Distributors can participate in this Tender and in any case only the lowest L1 bidder will be successful irrespective of OEM or distributor. Hence, there is equal opportunity for all in the Tender. No Change in Tender condition.
3	It is requested to kindly confirm acceptance of Earnest Money Deposit in form of Bank Guarantee valid for 1 year from date of tender submission. It is accepted by all tendering authority and also in line of Government of India Guidelines. Please accept & confirm.	As EMD amount is nominal, only Demand Draft should be submitted and BG not acceptable. No change in Tender condition.
3	As per RBI directive to Banks, it is mandatory to furnish Beneficiary Bank Details i.e. Account No., Account Type., Name of Beneficiary, Bank Address, IFSC code for opening of Bank Guarantee (BID SECURITY FORM).Kindly provide details for Bank Guarantee.	As BG is applicable only for Security Deposit to be given by successful Bidder, the same will be given while placing Order.
4	Payment terms: To consider 10% advance along with P.O. against submission of Performance Bank Guarantee and 90% on delivery within 7 days of receipt of stores.	No Change in Tender condition.
5	Complete specification of the OFC cable , Cable Diagram etc.,	Given below.
6	Inspection of stores by third party or personnel of TACTV	By personnel of TACTV.
7	Tender is to be submitted online or offline	Offline as per the Clause.10 of Tender.
8	Request to reduce experience to 2 years	No change in Tender condition.

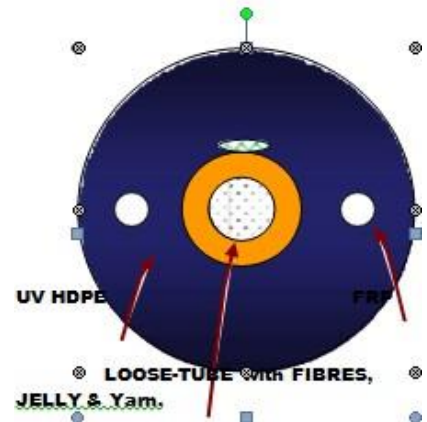
TECHNICAL PARTICULARS FOR UNITUBE MULTISIZES F.O CABLE

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A) CHARACTERISTICS OF FIBER: SM STRICTLY G-652D

Sr.	Parameters	Value
1.	Type of fiber	Single Mode step index matched clad (ITU-T G 652 D)
2.	Mode Field Dia, @1310 nm	9.1 ± 0.3 μm
	@1550 nm	10.5 ± 1.0 μm
3.	Cladding Dia; 1310 &1550 nm	125 μm ± 0.7 μm
4.	PMD	≤ 0.2 ps/√Km.
5.	Cladding non-circularity	≤ 2 %
6.	Cabled Cut off Wavelength	≤ 1260 nm
7.	Attenuation - @ 1310 nm	≤ 0.34 dB/Km
	@ 1550 nm	≤ 0.21 dB/Km
	@ 1625 nm	≤ 0.24 dB/Km
8.	Dispersion at 1550 nm	≤ 17.5 ps/nm.km
9.	Primary Coating Diameter	242 ± 5 μm nominal.
10.	Zero Dispersion Wavelength	1302 to 1324 nm
11.	Core	Germanium Doped Silica
12.	Coating Strip Force	1.3 N ≤ Peak CSF ≤ 8.9 N

CROSS SECTION DIAGRAM



B) CABLE CONSTRUCTION: UNITUBE DESIGN

Sr.	Parameters	2F	4F	6F	12F
1.	Number of Fibers per tube	2	4	6	12
2.	No. of tubes (UNITUBE)	1 in PBT material			
3.	Tube filling	Thixotropic filling jelly non-dripping and silicon-free			
4.	Strength Member	2 No's of FRP as Strength Member, Embedded in Sheath, diagonally opposite to each other, with 1 Fiber Glass Yarn as additional Strength.			
5(a)	FRP Diameter in mm	0.8	0.8	0.8	0.8
	Cable Diameter in mm , ± 0.05	6.0	6.0	6.0	6.0
	Weight in Kgs/Km ± 0.5	29	29	29	29
5(b)	FRP Diameter in mm	1.0	1.0	1.0	1.0
	Cable Diameter in mm ± 0.05	6.3	6.3	6.3	6.3
	Weight in Kgs/Km ± 0.5	34	34	34	34
6.	Sheathing.	UV Stabilized, HDPE Black.			
7.	Standard Lengths in Kms.	1.5 – 3.0 kms			

C) MECHANICAL & ENVIRONMENTAL CHARACTERISTICS

S.No.	Parameters	Specified Values
1.	Maximum Bending radius for installation and long term	20 D, D = Cable diameter.
2.	Storage, Installation & Operating Temperature Range	-20° to +70°C
3.	Tensile Strength	1.6 KN.