

Tender No: AT.3/2021

**Subject: OPTICAL DISTRIBUTION FRAMES****BRIEF DESCRIPTION****1. GENERAL**

Tenders are invited for the supply of OPTICAL DISTRIBUTION FRAMES, in accordance with the detailed tender specification.

**2. PRICE OF TENDER DOCUMENTS**

The relevant tender documents will be available as from the **17<sup>th</sup> of February 2021**, only in electronic form and free of charge, in our website <http://www.cyta-tenders.cytanet.com.cy>.

**3. CLOSING DATE**

Tenders shall be placed by the Tenderers or their representatives in Cyta's Automated Tender Box at Ground Floor, Head Office Building, Telecommunications Street, Strovolos, Nicosia, Cyprus, by **10.00 hours on Friday, 9<sup>th</sup> April 2021**, which is the Closing Date and Hour. Tenderers should note that the Tender Box will automatically lock at exactly 10.00 hours on the Closing Date with the indication «CLOSED».

Tenders submitted after the Closing Date and Hour shall neither be accepted nor taken into consideration.

**4. VALIDITY**

Tenders are to be held open for acceptance for **180 days** from the specified Closing Date. A Tender valid for a shorter period shall not be taken into consideration.

In exceptional circumstances, Cyta may request the Tenderer for an extension of the period of validity. A Tenderer may refuse the request.

**5. EXTENT OF TENDERS**

Only Tenders for the supply of all Works detailed in this Specification must be submitted. Partial Tenders shall not qualify for consideration.

**6. COMMITMENT FOR NON-WITHDRAWAL OF THE TENDER**

Tenders shall be accompanied by the document "COMMITMENT FOR NON-WITHDRAWAL OF THE TENDER", fully completed and signed.

**7. DELIVERY**

The first-year requirements shall be delivered in two (2) shipments of about equal quantities, according to the following schedule:

- First Shipment: within two (2) months (CYTA's Central Stores) from the date of placing the order
- Second Shipment: within six (6) months (CYTA's Central Stores) from the date of placing the order

All deliveries shall be made to CYTA's Central Stores, at 3 Patron str, Dali Industrial Area, CY-2540, Nicosia, Cyprus.

**8. PRICES**

Prices for materials shall be Delivered Duty Paid, Value Added Tax unpaid, according to Incoterms 2020, to Cyta Central Stores at 3 Patron Street, Dhali Industrial Area, CY-2540, Nicosia. VAT on imports shall be paid by Cyta.

**9. PAYMENT TERMS**

Payment shall be effected in cash within 45 days from the completion of the delivery of all ordered goods.

**10. SUPPLY AGREEMENT**

Cyta shall have the option to enter into a Supply Agreement covering the initial and additional orders to be placed over a period of up to three (3) years from the Effective Date of Contract.

**11. TENDER AWARD**

Cyta shall award the complete Tender to one Tenderer. No partial award shall be allowed.

**12. PARTICIPATION REQUIREMENTS**

This paragraph specifies the participation requirements applicable for this tender needed to be fulfilled by the Tenderers in order to participate and be evaluated. Tenderers failing to comply with these requirements shall be disqualified and shall not be further evaluated.

**12.1 DOCUMENTARY EVIDENCE PROVING SALES**

Tenderers shall submit documentary evidence proving sales of Optical Distribution Frames (ODF), of the same type and specifications of as those included in this Tender, within the last ten (10) years, in at least two (2) Telecom Organizations/Service Providers, one (1) of which operating in the European Union or in any country member of the EFTA (Iceland, Liechtenstein, Norway, and Switzerland), with sales to each one being at least equal to the total requested quantities of this Tender for a three (3) year supply agreement.

Tenderers shall provide the following information by completing the Table II-1 below:

- Telecom Organization/Service Provider name
- Contact details
- Quantities supplied
- Year of supply
- Evidence for sales e.g. letters of customer satisfaction, Copies of the Contracts, Purchase Orders, Tender award letters, etc.

**Table II-1: Sales**

A/A	ODF description	Supplied to (Telecom Organization/Service Provider name)	Contact details (Name, E-mail, Phone, Fax)	Quantities supplied	Year of supply	Kind of evidence
1						
2						
3						

The above information shall concern the manufacturer, in case the Tenderer is other than the manufacturer.

**12.2 SAMPLES**

For evaluation purposes, Tenderers shall submit samples of the proposed materials as follows:

- ODF (cabinet, rack, management system and all accessories needed for its installation)
- 3U/4U ODS (including empty subrack, patchcord guide for FTMs and or Splitter Modules)
- FTMs (fully equipped to accommodate 12 splices, pigtailed, adaptors and splice holders/sleeves)
- Splitter Modules (fully equipped with at least two (2) splitters with ratio 1:4)

- 1U Splitter Module/Box (fully equipped with two (2) splitters with ratio 1:32)

All samples shall have sizes, dimensions, design and be made of material as specified and shall be packed according to these Specifications. It is also acceptable for Tenderers to submit same Optical Distribution Frames having similar capacity. Each sample shall be packed and submitted as a kit, including all the accessories needed for its installation (fully equipped) as specified in this Specification.

Optical Distribution Frame samples shall be submitted within a week after the closing date of the tender submission to the following address:

Cyta (40 Spillia Building)  
Access Line Network – Central Operations (room 11)  
38 Dasoupoleos Street  
CY-2015,  
Strovolos,  
Nicosia,  
Cyprus.

Samples shall have attached labels with the name of the Tenderer.

These samples shall be practically tested by CYTA's technicians whose findings will be taken into consideration during the technical evaluation of the Tenders.

### **12.3 TESTS**

Tenderers shall submit with their Tender test reports and/or supporting data (data sheets, technical specifications, etc) as evidence that the tests described in the Specification have been carried out in accordance with this Specification. Tenderers shall include in the test reports and/or supporting data the International standards used, detailed conditions and procedures followed for undertaking the tests and the test results, as stated in Part III - Technical Specifications, Paragraph 3 - Test Requirements. The test reports and/or supporting data shall be evaluated and graded in the Technical Evaluation process.

In addition, the prevailing Tenderer shall be requested to perform all tests as stated in the Technical Specifications, proving the conformity of the products to the Specifications, before the final Tender award. The tests shall take place at the manufacturing site, in the presence of Cyta representatives. The travel and accommodation expenses of Cyta's representatives shall be undertaken by Cyta. It is Cyta's right, at its own expense, to request from an independent and internationally recognized European Certification Body to witness the tests. In the event that the tests fail to prove complete conformity of the products to the Specifications, then the offer will be rejected from any further evaluation.

### **13. BRIEF DESCRIPTION**

This Specification includes the requirements for Optical Distribution Frames (ODFs) and related accessories to be used in Central Offices for Cyta's FTTH project.

The ODF shall be built as a modular rack system and it shall house Optical Distribution Subracks (ODSs) including either Fiber Termination Modules (FTMs) or Splitter Modules (SMs). The incoming polyethylene sheathed single mode optical fiber cables from the feeder network, shall be terminated on the ODF. The fiber tubes shall be guided through a fiber management system to FTMs where the fibers will be fusion-spliced on pigtailed terminated on LC/APC connectors. These shall connect via patch cords to SMs, typically of ratio 1:4, through a Patchcord Management System (PMS). The access equipment shall connect to the SMs through patchcord Fan-out cables.

The ODF cabinet shall contain a 19'' rack, for 19'' subracks installation, conforming to ETSI standard.  
 Each ODF shall have capacity for fusion splicing of at least 1.018 fibers and be able to house at least 192 splitters of ratio 1:4.

**INTICATIVE QUANTITIES**

Item	Description	Unit	Requirements		
			2021	2022	2023
1	ODF (cabinet, rack, management system and all necessary accessories to accommodate for the full capacity of the ODF)	No.	24	12	12
1.1	Cabinet	No.			
1.2	Door	No.			
1.3	Management System	No.			
1.4	Cable fixings	No.			
2	ODS for FTMs with total capacity 1.008 ports (including empty subrack, patchcord guide, loose tube storage and any other accessories needed for proper installation)	No.	168*	84	84
2.1	Subrack	No.			
2.2	Patchcord guide				
3	FTMs with 12 ports (fully equipped to accommodate 12 splices, pigtails, adaptors and splice sleeves and any other accessories needed for proper installation)	No.	2.016**	1.018	1.018
3.1	Trays	No.			
3.2	Pigtails	No.			
3.3	Adaptors	No.			
3.4	Splice protection sleeves	No.			
4	ODS for SMs with total capacity of 192 splitters with ratio 1:4 (including empty subrack, patchcord guide and any other accessories needed for proper installation)	No.	96***	48	48
4.1	Subrack	No.			
4.2	Patchcord guide				
5	SMs with 4 splitters with ratio 1:4 (fully equipped to accommodate 4 splitters with ratio 1:4, pigtails, adaptors and any other accessories needed for proper installation)	No.	1.152****	576	576
5.1	Splitters	No.			
5.2	Pigtails	No.			
5.3	Adaptors	No.			

Item	Description	Unit	Requirements		
			2021	2022	2023
6	1U Splitter Module/Box with 2 splitters with ratio 1:32 (fully equipped to accommodate 2 splitters with ratio 1:32, pigtails, adaptors, patch cord guide and any other accessories needed for proper installation)	No.	50	25	25
6.1	Splitters	No.			
6.2	Pigtails	No.			
6.3	Adaptors	No.			
6.4	Patch cord guide	No.			
7	Splice protection sleeves	No.	25.000	12.500	12.500
8	Basic Training Fee (five 1-day sessions)	No.	1		

**\* In case the ODS can accommodate 144 ports (12 FTMs and each FTM is supplied with 12 ports), 7 ODSs per ODF are needed.**

**\*\* For an ODF with 1.008 ports capacity, 84 FTMs having 12 ports are needed.**

**\*\*\* In case the ODF can accommodate 192 splitters with ratio 1:4 (12 SMs and each SM can accommodate 4 splitters with ratio 1:4), 4 ODSs per ODF are needed.**

**\*\*\*\* For an ODF with 192 splitters (ratio 1:4) capacity, 48 SMs per ODF are needed.**