

O.G.E.R.O. VAT NO: 601-122958

## QUOTATION REQUEST

طلب عرض اسعار

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QR 62 / 2023ND016

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QR Date 05/06/2023

#	A- ITEM CODE B-ITEM DESCRIPTION	MATERIALS	المواد	أ- رمز الصنف ب- التوصيف	UNIT	NB/U	Quantity	Unit Price	Total Price
1	TEFU0000	Fiber Fusion Splicer (as per the attached specifications) Fujikura 70s or equivalent			EA	1	5.00		
2	TEFU0002	Spare Electrodes for the Fiber Fusion Splicer			EA	1	25.00		

**TECHNICAL SPECIFICATIONS**  
**16 / ND | 2023**  
**FUSION SPLICER**

**1. Long Term Performance**

- a. The material supplied should be capable of withstanding the typical service conditions in Lebanon for a period of 20 years without determinant to the operation and maintenance characteristics.
- b. The materials should be designed, manufactured and packed so that the exposure to the conditions of storage, transport inside and outside Lebanon and the installation in the environment will not affect the physical characteristics.

**2. Type Approval**

- a. Products previously approved by OGERO are accepted.
- b. A sample should be provided for test.
- c. All tests should be performed and submitted if requested.
- d. All Associated International Specifications should be respected.
- e. American, European or Japan Products are accepted.

**3. General Requirements**

- a. Delivered materials should be free from burrs, sharp edges, or projections that may be hazardous to personnel.
- b. All products should have the following details:
  1. Manufacturer's name (built in stamp).

**4. QUALITY ASSURANCE**

**1. QUALITY SYSTEM ACCREDITATION**

- a. Manufacturers may be required to supply a copy of the Quality Manual which shall be utilized for the manufacture and delivery of the supplied material complying with this specification, at the time of tender.
- b. OGERO may require the manufacturer to be accredited to this specification either by OGERO personnel or assessors acting on behalf of OGERO.

**2. INSPECTION**

1. OGERO or its authorized representatives may inspect the Tenderer's facilities at any time for the purpose of Quality Assurance surveillance.
2. If requested by OGERO the tenderer shall supply evidence of the quality of raw materials and components used in the manufacturing process.
3. All supplied items manufactured to this specification may be inspected and tested by OGERO to check compliance.
4. OGERO has the right to request proof of compliance with this specification, either by witnessing actual performance of this specification's prescribed tests and/or the provisioning of documented test results at the discretion of the inspector.
5. In the case of a dispute, testing shall be performed by an independent authority at the expense of the tenderer.

**5. RESERVED RIGHTS**

OGERO cannot guarantee that any of the requirements, standards, regulations and conditions of this specification are not covered or protected by copyright or patent of a third party. OGERO reserves the right to make changes to the specification without further notice.

**6. COMPLIANCE STATEMENT**

The tenderer must provide the compliance statement with the specifications requirements and indicate his compliance or non-compliance with all clauses of the specifications listed below. There are three statements to describe compliance:

1. Complied
2. Non complied
3. Non complied - with alternative solution

## 7. COMPLIANCE LIST

		COMPLIANCE CHART		
		YES	NO	Alternative Solutions
Applicable fibers	SM (G.652/G.657), MM (G.651), DSF (G.653), NZDSF (G.655)			
Cladding diameter	80-150 $\mu$ m			
Coating Diameter	100-1000 $\mu$ m			
Cleave length	5mm to 16 mm with sheath clamp			
Splice loss	0.03dB (SM), 0.01dB (MM), 0.045dB (DS) and 0.045dB (NZDS)			
Attenuation splice function	Intentional high splice loss of 0.1dB to 15dB (0.1dB step can be made for an in-line fixed attenuator.			
Splice time	9 seconds			
Tube heating time (60mm Sleeve)	31 seconds			
Splice Memory	> 5000 splices			
Fiber Image Magnification	X / Y (320X magnification), or both X and Y simultaneously (200X magnification)			
Tension test	1.96N to 2.25N			
Applicable protection sleeves	40/60 mm			
Electrode life	> 3000 splices			
Operating condition	Altitude : 0 to 3,000m above sea level Wind : Max velocity 15m/sec Temperature : -10°C to 50°C, Humidity: 0 to 95% RH			
Storage	-40°C to +60°C (0 to 95% Relative Humidity [Non-Condensing])			
Resistance features	Shock : 76cm all surface drop Dust : Exposure to dust (0.1 to 500 $\mu$ m diameter Alumina Silicate), IP5X Rain : H=10mm/hr for 10min, IPX2			
Data outputs	USB 2.0 connector for PC communication			

Accessories				
1. AC/DC Adapter 2. Battery charger 3. AC power Cord 4. 5 Spare Electrodes 5. USB cable 6. * Reference guide 7. Alcohol Pot 300ml 8. Screw driver 9. Carrying case 10. Sleeve loader 11. High Precision Fiber Cleaver 12. Fiber Protection Sleeves (50 pieces) 13. Triple Stripper (Tube, Primary Coat and Nylon Jacket)				