

المواصفات الفنية الخاصة بالمناقصة

رقم المناقصة : (2014/14)

الخاصة بشراء وتوريد عدد 400 فريمات MDF مع

الفيوزات

المؤسسة العامة للاتصالات السلكية واللاسلكية

الإدارة العامة للمشتريات والمخازن

إدارة المشتريات - قسم العقود والمناقصات

REPUBLIC OF YEMEN

Ministry of Telecommunication & Information Technology

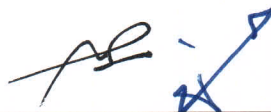
Public Telecommunication Corporation

Technical Specifications for

MDF TERMINAL BLOCK

With Schedule of Quantities

Issued January 2014



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1. GENERAL:

The terminal block is mounted on the vertical side of the MDF, which is used for terminating cable on exchange of the main distribution frames in telephone exchanges.

2. OPERATING ENVIRONMENT:

Ambient condition :

- 2.1 Temperature : 0 ~ 45 C⁰
- 2.2 Relative humidity : < 95%
- 2.3 Atmospheric pressure : 70 ~ 106 kpa

3. PHYSICAL REQUIREMENTS:

- 3.1 Material should of the self-extinguishing plastic type.
- 3.2 10 pairs base modules assembled on extruded aluminum suitable for fixing horizontally on MDF.
- 3.3 Label holders with labels to identify each pair and to identify the 100 pair block
- 3.4 Terminal tags are made from high-intensity elastic copper ally material.
- 3.5 The pull out force shall not be less than 25N.
- 3.6 The termination lifetimes up to 200 times.
- 3.7 Terminal block of 100 pairs.
- 3.8 Bracket for fixing the terminal on the aluminum strip.
- 3.9 Ring jumper guide.
- 3.10 Plastic strip (2-strips)
- 3.11 Insulation tape.
- 3.12 Earthing wire set.
- 3.13 Insertion displacement contact (IDC)

4. CONNECTION REQUIREMENTS:

- 4.1 Should provide for terminating 100 pairs of cable.
- 4.2 Connection shall be possible.
- 4.3 For IDC double pronged contacts should be used.
- 4.4 Two wire connections should be possible for T-connection.
- 4.5 Wire diameters are from 0.4mm to 0.65mm.
- 4.6 Connection of cable wires is from rear.
- 4.7 Connection of jumper wires is on the front plane.

5. ELECTRICAL REQUIREMENTS:

- 5.1 Contact resistance of wire connection should not exceed (20 milliohms).
- 5.2 Insulation resistance between to limbs of a pair and with earth plate greater than (10,000 mega-ohms) at 500 VDC.
- 5.3 Dielectric strength better than (1000V) effect at 50Hz during one minute.

6. PROTECTOR UNIT :

- 6.1 Perfect and reliable over voltage and over current.
- 6.2 The performance of anti-burn .
- 6.3 DC spark – over voltage : 190 ~ 260V
- 6.4 Installation resistance $\geq 20,000 M\Omega$

7. INSERTION TOOLS

Each cabinet shall be supplied with two insertion tools for inserting conductors into slots and must suit terminal blocks fitted.

8. COMPLIANCE

The tenderer should state their compliance with this specification. Any deviation suggested by manufacture should be fully documented and presented in the form of an alternative offer.

9. INSPECTION:

- 9.1 Inspection shall be performed as per specification. The manufacturer shall keep suitable summary records of all the test data according to P.T.C. standards.
- 9.2 PTC should have a right to depute a representative to inspect at factory during the manufacture of the Terminal blocks on the cost of the tenderer.
- 9.3 The approval to attend two PTC engineers to test the Terminal blocks during the manufacture on the cost of the tenderer

10. SUPPLY EXPERIENCE

The tenderer should be submitting document of supply experience.

11. SAMPLES

- 9.1 The tender should offer (1)  samples of the offered blocks and sample of protector unit
- 9.2 The sample must be stamp by Manufacture Company.

12. PACKING AND MARKING:

Packing and marking shall be performed according to P.T.C. standards.

13. MUST CLAUSE:

- 13.1 Drawing and catalogue submission as mentioned in the specification in different paragraph is must.
- 13.2 Filling of table attached is must.
- 13.3 In addition to filling in tables' clause by clause compliance with technically required.

END OF SPECIFICATION

TECHNICAL DATA SHEETS (ENCLOSED):

Includes data sheet should be filled in and stamped by the concerned tenderer.

Any changes in the stamped data sheet submitted to PTC which might affect the technical figures in your offer will be neglected and will lead to the total rejection of your offer.

Table (1)

S/N	Requirement of PTC	UNIT	Tender Offer
	Terminal Block:		
1	Physical & mechanical characteristic		
1.1	Type & Terminal blocks material		
1.2	Dimensions (H * W * D "mm")	Mm	
1.3	Capacity of blocks	Pairs	
1.4	Connecting point material		
1.5	Mode of connection		
1.6	Re-termination life time	Times	
1.7	Pull off force	N	
2	Electrical characteristics :		
2.1	Resistance between reeds	Ω	
2.2	Contact resistance	Ω	
2.3	Insulation resistance	MΩ	
2.4	Dialectic strength	V	
3	Protection Unit:		
3.1	Physical & mechanical characteristic		
3.1.1	Type of protection unit material		
3.1.2	Connecting slide material		
3.2	Electrical characteristics :		
3.2.1	DC Spark over-voltage	V	
3.2.2	Pulse puncture voltage	V	
3.2.3	Resistance at normal temperature	Ω	
3.2.4	Contact resistance	Ω	
3.2.5	Insulation resistance	MΩ	
4	Operating environment :		
4.1	Temperature , relative humidity	C⁰ , %	
5	Samples		
6	Catalogues and documents		

NOTES:

NOTES:

The Tenderers must reply to the following points:-

- 1- Respond to and comply with PTC Technical Schedules.
- 2- Catalogues and documents containing instructions on how to install the Frames must be provided.
- 3- Samples must be according to the technical specifications of PTC and the manufacturing company's name must be printed clearly on the samples.
- 4- One PTC engineer must attend the factory inspection.
- 5- The manufacturer must submit company supply record.

الملاحظات:

على مقدم العرض الإجابة على الآتي:-

- 1- الإجابة على والالتزام بالموصفات الفنية الموضحة في الجداول الفنية.
- 2- يجب توفير الكتالوجات والوثائق الخاصة بكيفية تركيب الفريجات.
- 3- يجب أن تكون العينات المقدمة مطابقة لموصفات المؤسسة وعلى أن يكون مطبوع عليها اسم الشركة المصنعة بشكل واضح.
- 4- حضور الفحص المصنعي من قبل مهندس المؤسسة.
- 5- يجب تقديم الخبرة التزويدية للمصنع.