المواصفات الفنية الخاصة بالمناقصة العامة رقم المناقصة : (٢٠١٣/٤)

الخاصة بشراء وتوريد

المجموعة الاولى: كابل وخوص نحاس.

المجموعة الثاني: كبينة توزيع رئسية AC1600A

المؤسسة العامة للاتصالات السلكية واللاسلكية الإدارة العامة للمشتريات والمخازن إدارة المشتريات – قسم العقود والمناقصات



PTC Specification

Low Voltage single core Cable Specifications (flexible

cables

1. SCOPE:-

a) This specification covers the design, manufacture, testing supply & delivery of LV (0.6/1KV) single core Cable for used in out door service for switching and distribution installation, the size and quantities as given in attached requirements schedule.

b) This specification defines the requirements.

2. STANDARDS: -

a) The cables shall comply for all respects to requirements contained in the latest BS. Standard or other standard internationally approved (ANSI, DINetc).

3. SERVICE CONDITIONS:-

Conductor shall be suitable to ensure satisfactory operation for the following site conditions:

a) Altitude:

2500 m above sea level

b) Ambient temperature:

-5 °C up to 50°C.

c) Relative humidity:

5-100 %

d) Average thermal resistively of soil:

1.5°C.m/W

4. DETAILED REQUIREMENTS: -

Construction:

a) Conductor of soft annealed copper fine wires (), high conductivity, circular shape, PVC Insulation heat resistive adheres tightly to conductors, yet strips easily, leaves conductor clean.



PTC Specification

5. Jacket marking informations:-

The cables outer marking should be consist of the following:

- a) Name of manufacture.
- b) Type design, size of conductor, rated voltage and standard.
- c) Continuous length marking every meter.
- d) Year of manufacture.

6. Availability of the samples:-

a) The bidder must to provide samples of the quantity required, it should be enough length that contain all above jacket marking, and this samples must be provide at envelopes opening.

The samples must be stamped by manufacture company.

7. TESTS:-

- a) All required tests shall be done in accordance with the latest issue of standards IEC, BS, tests shall be performed at the manufacture's plant at bidder expense.
- b) In addition to the above tests on component wires, the complete conductor shall be tested for its conformity to this specification.
- c) Failure of any of the test specimens to comply with the requirements of this specification shall constitute ground for rejection of the lot as represented by the specimen.
- d) Certified test reports in (2) copies shall be furnished for each lot of conductor before shipment.

8. INFORMATION TO BE FURNISHED:-

- a) The bidder shall furnish sufficient information to fulfil this specification, including in attached schedule.
- b) Shipping details, including drawings, showing dimensions and construction details of the shipping reels and complete catalogue information

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PTC Specification

9. SHIPPING AND MARKING:-

- a) The standard length of each piece of cable to be shipped in each reel shall be as following: 1000-2500 m according the conductor sizes required in schedule.
- b) PTC name must be furnished on the outer sheath of Cable. (option)
- c) Each reel shall be durable marked in outside and tagged on inside with the following information, in addition to other shipping information as may be required.
 - a) Manufacture's name.
 - b) PTC name. (Option)
 - c) Type of conductor.
 - d) Size of conductor.
 - e) Length of conductor.
 - f) Gross and net weight.

Drums shall be non returnable and shall be made of timber; pressure impregnated against fungal and insect attack, or made of steel suitably protected against corrosion.

10. Protection of conductors:-

a) The drum barrel shall be covered with the layer of waterproof sheet plastic or shall be painted with aluminium flake paint secured immediately under the circumstance battens so that not contact with the conductor.

The attached schedules should be filled by the Manufacture.

Republic of Yemen Public Telecommunication Corp.

Tender Board (Technical Board)

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لجنة المناقصات

اللجنة الفنية

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29. Availability of samples with Jacket marking information	9.	Availability of samples with Jacket					

Ac distribution cabinet specification(1600A)

- 1- The system shall be (380/400 V AC+N,,50Hz,3phase+G).
- 2- Environment (2500asl, 40°C, 10-90 %humidity).
- 3- The distribution indoor cabinet should be anticorrosion /steel/ waterproof and dust proof from an famous and international company, floor mounting.
- 4- The dimensions of cabinet not less than(200*200* 50)cm
- 5- Copper bubars ≥ 2000A
- 6- Incoming circuit breaker shall have copper busbar and main circuit breaker to receive incoming 3phase cables .
- 7- The cabinet include:
 - a. Main MCCB 1600 A, 3phase,50 KA,3poles.
 - b. 3 MCCB 800A ,3 phase,35KA,3poles.
 - c. 2 MCCB 1200 A ,3phase .50KA,3 poles.
 - d. Neutral busbar and Ground busbar 2000A.
 - e. Volte's, ampere measurement view for each phase in outside of cabinet doors (no need to open the doors to get the reading.
 - f. Phases indication lamps outside cabinet (red ,yellow , blue).
- 8- The MCCB's must be from a famous and international company and suitable with the copper busbars.
- 9- The drawing and layout ,shape of cabinet must be given.
- 10- The data sheet of MCCB's must be given include manufacture country of origin.

Republic of Yemen

Public Telecommunication Corp.

Tender Board (Technical Board)



الموسسة العامة للإتصالات السلكية واللاسلكية للمناقصات

اللجنة الفنية

الرقــم : _______ التاريخ : _______

المعايير الأساسية للكابلات

- ٥- أن تكون الكابلات CU/PVC/PVC OR CU/XLPE/PV ونسبة النحاس لا تقل عن ٩٠٪.
 - ٦- يجب تحديد معيار التصنيع.
- ٧- توفير عينات مكتملة ومطابقة للعرض الفني ومحدد عليها بيانات الشركة المصنعة بلد المنشأ سنة الصنع ، وتسلم أثناء فتح المظاريف.
 - ٨- مقاومة الناقل وسماكة العازل يجب أن تكون وفقا للجدول الآتي:-

Nom conductor area mm ²	Main conductor Type	Nom insulation thickness	Nom sheath thickness mm	Ω/km90°c
630	CU	2.8	2.2	0.0620