

المواصفات الفنية الخاصة بالمناقصة العامة

رقم المناقصة : (٢٠١١/٤٤)

الخاصة بشراء وتوريد منظمات كهربائية + لوحات توزيع

كهربائية DC

المؤسسة العامة للاتصالات السلكية واللاسلكية

الإدارة العامة للمشتريات والمخازن

إدارة المشتريات - قسم العقود والمناقصات

Public Telecommunication Corporation
Planning & Project Department
Power Section

TECHNICAL SPECIFICATIONS
FOR
AC - VOLTAGE REGULATORS (STABILIZERS)

GENERAL:

The Voltage Regulators (Stabilizers) Are Required:

- To feed deferent types of telecommunication equipments with stable And steady voltage and frequency (400 VAC -3ph, 240VAC – 1ph, 50hz).
- Some of the telecommunication equipments have to be feed by three phases and the others by single phase.
- The Voltage Regulators shall be Heavy duty types and for industrial Purposes .
- The Voltage Regulators Shall be offered complete with all their accessories Ready to be installed.

Site Conditions:

- Altitude: 200-2000 masl.
- Ambient Temperature: from -10c up to 40c.
- Ambient Humidity : up to 80%.



He Shall provide the following documents with the offer:

- Operation Warranty For One Year Operation.
- Spare Parts Providing warranty when Shall Be Asked For At Least 10 Years after installation.
- The quality and performance certificates.
- The Manufacturer authorization letter

And Shall provide The following documents with the equipments:

- General electric layout diagram of the Unit.
- General Electronic PCBs Diagrams.
- Installation and Operation Manual.
- Spare Part List Manual.
- Troubleshooting Manual.
- Operation Warranty For One Year Operation.
- Spare Parts Providing warranty when Shall Be Asked For At Least 10 Years after installation.
- The quality and performance certificates.
- The Manufacturer authorization letter.

Required Material List

N	Item Description	Capacity KVA	Unit	Qty	Unit Price DDP US\$	Total Price DDP US\$
1	Three Phase Input /Output AC Regulator (Stabilizer).	160	Stabilizer	2		
2	Three Phase Input /Output AC Regulator (Stabilizer).	50	Stabilizer	7		
3	Three years operation Spare Parts	160	Set	1		
4	Three years operation Spare Parts	50	Set	1		

DC Distribution Panel specification:

SCOPE

1. This specification covers the design, manufacturing supply of Indoor DC Distribution cabinet. For power supply for telecommunication equipments.
2. The system shall be DC -48 Volts with effectively grounded positive.

SERVICE CONDITIONS

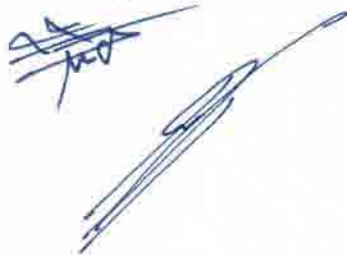
1. Equipment to be supplied against this specification shall be suitable for satisfactory continuous operation under the following conditions.
2. Maximum ambient temperature (40°C).
3. Relative Humidity (10 to 90%).
4. Maximum altitude (2500M above sea level)

Rated voltage:

1. Rated voltage for the Distribution Board, MCBs, bus ways etc. shall be -48V DC.

General requirements:

1. The Distribution Board shall be wall mounted/floor mounted having compact design and made of metal.
2. The Board shall be closed, dust protected, weather proof and with a special type lining e.g. Neoprene gasket, around the edges of the doors. The distribution board shall comply degree of protection IP.
3. Circuit breakers shall be operating vertically upward for ON/OFF operation & shall be suitable and provided with suitable copper busbars.
4. All doors shall be provided with mechanical interlocking arrangements along with keys.
5. The distribution board shall have no door on rear side.
6. Danger board (Caution Plate) shall be fitted suitably on the door of the DB. Danger board shall be of 000x0000 mm size with details.
7. Detachable gland plates suitable for receiving the cable shall be provided at the bottom side of Distribution board with glands.
8. The ventilating louvers should be covered on inside by a perforated sheet.
9. Each Distribution Board shall be provided with :
 - Name plate showing the details such as manufacturer's name, Sr No., rating etc.
 - Danger board scripted in English ,



Incoming circuit

Incoming circuit shall have copper busbars (positive and negative polarity) and main circuit breaker (see the Schedule Quantities)

To receive incoming cables positive and negative bolted type connector of suitable size shall be provided.

Outgoing circuits:

Total outgoing circuits shall be provided as per the details given below.

- a) **Rated voltage -48VDC.**
- b) **Rated current (see the Schedule Quantities)**
- c) **The cabinet enclosure shall be provided with proper earthing arrangement.**
- d) **Earthing arrangement shall consist of busbar. Bolts of.....mm (min.) with 2 spring/ plain washers and 2 check nuts.**
- e) **PVC cable glands of adequate size shall be provided for all incoming and out going cables.**
- f) **The copper busbars of positive polarity must be arrangement with suitable connectors**

Drawings

1. **The successful bidder has to supply the complete material as per overall General Arrangement drawing. Successful bidder shall submit the detailed drawings along with component details/makes etc. for necessary approval.**



الرقم :
التاريخ :

جدول الكميات لشراء وتوريد عدد (35) لوحة توزيع كهربائيه DC
Schedule Quantities

م	اسم الصنف	القدره	الكمية المطلوبة	التكلفة للوحدة	إجمالي التكلفة
1	لوحة توزيع كهربائيه DC 250A	القاطع الرئيسي 250A /2POLE القواطع الفرعيه صفيين تركيب على حوامل نوع اوميغا (OMEGA) كل قاطع 1POLE وعدد: 2X80A,8X63A,4X40A,6X32A	20		
2	لوحة توزيع كهربائيه DC 400A	القاطع الرئيسي 400A /2POLE القواطع الفرعيه صفيين تركيب على حوامل نوع اوميغا (OMEGA) كل قاطع 1POLE وعدد: 4X80A,8X63A,6X40A,8X32A	15		
	الاجمالي		35		