

Our Ref.: 24/2020-

Date :

Messrs:

Dear Sir,

TENDER 24/2020
24/42KV SINGLE CORE XLPE CABLES

You are kindly requested to quote for the supply and delivery to our stores in Shufat of the cables specified in this tender and according to the following specifications:

1. All materials shall be of the best quality, suitable for operation in summer tropical and winter icy conditions.
2. All cables shall be designed, manufactured and tested according to the latest (IEC) specifications.
3. Tender should be accompanied with all detailed catalogues, drawings, and filling all the blanks.
4. All cables are intended for underground that operate at a rated system voltage of 36KV, 50Hz the neutral point of the system is solidly earthed.

Essential Bidding Requirements:

- **A bank certified check or a bank guarantee of 5% of the total tender valid for 90 days, to be submitted as a bid bond, otherwise, quotation will be neglected.**
- Quotation should be enclosed in a sealed envelope or package and handed over to the "Tender Committee" by the representative of the bidder or their agent not later than **15.10.2020 at 11:00 AM.**
- TENDER DOCUMENTS FEES: 1000 US\$. A proof of payment should be sent by email to : rnashashibi@jdeco.net.
- The main offer envelope or package should include three separate envelopes as follow :
 - a. **The financial offer in a separate sealed envelope.**
 - b. **The technical offer & catalogues placed in a separate sealed envelope.**
 - c. **Your bid bond in a separate envelope.**
- Technical offer will be studied separately from the financial offer. The financial offers for bidders whose technical offers do not meet JDECO's technical requirements will not be opened.
- **In case offers are submitted by an agent on behalf of a certain supplier, a copy of the agreement between the agent and the supplier must also be**

submitted. Such copy has to be authenticated and certified by the chamber of commerce at the supplier's country of origin.

- Offers have to be attached with a letter confirming the authorized persons signing on behalf of the bidder.

Any bid package not according to the above will not be considered.

Payment method in case of offer acceptance:

- 90 days after delivery of goods through bank transfers.
- The currency of the suppliers' invoices must be the same as the currency of their submitted offer and as specified in the letter of award, otherwise they will not be accepted.

Notes:

- The company has the liberty not to accept any or the lowest tender neither to assign any reason for rejection of any tender.
- The accepted bidder will be charged the expenses of the tender's advertisement in the local newspapers.
- Upon acceptance of offer the bidder will be requested to submit a Performance Bond equivalent to 10% of the tender total value, and should be valid for ...30..... working days from the date of executing all terms of contract.

Yours Faithfully

Hisham Omari
Chairman of Directors' Board
& Managing Director

TENDER 24/2020
TECHNICAL DETAILS

Item 1 : 200,000 meter 1x240 sq.mm single core aluminum cables with cross linked polyethylene insulation for power cable connections with rated voltages $U_0/U=24/42$ KV. Similar to the type NA2XS(F)2y.

CONSTRUCTION REQUIREMENTS

A. CONDUCTOR:

The material of the conductor shall consist of plain annealed aluminum wires, stranded, compacted and circular.

B. CONDUCTOR SCREEN:

The conductor screen shall be nonmetallic and shall consist of a layer of extruded cross linked semi - conducting compound.

C. INSULATION:

The insulations shall be XLPE

D. NON METALLIC INSULATION SCREEN:

The semi conducting screen shall be applied directly over the insulation and shall consist of an extruded semi conducting layer.

E. METALLIC SCREEN:

Over the nonmetallic insulation screen, a metallic screen shall be applied consisting of a concentric layer of copper wires and bounded together with a copper tape.

F. OUTER SHEATH:

The outer sheath shall consist of polyethylene compound and the color shall be "Black" and marked with the manufactures name; NA2XS(F)2Y, 22/42 KV, the year of production, the property of (J.D.E.Co.) Each meter run should be numbered.

TENDER 24/2020
SPECIFICATION FOR SINGLE CORE EXTRUDED
SOLID CROSS LINKED POLYETHYLENE
INSULATED POWER CABLES FOR RATED
VOLTAGE $U_0/U = 24/42$ KV SINGLE CORE CABLE QUESTIONNAIRE

| 1. | | Conductor | | Item 1 |
|----|-----|---|----------|------------|
| | 1.1 | Nominal cross-sectional area | sq.mm | 240 |
| | 1.2 | Number and nominal diameter of wires | (mm) | |
| | 1.3 | Designed diameter | (mm) | |
| | 1.4 | Maximum d.c resistance at 20 °C | (/km) | |
| | 1.5 | Maximum permissible continuous temp. | (°C) | |
| | 1.6 | Maximum permissible short – circuit temp. | (°C) | |
| 2. | | Conductor screening | | |
| | 2.1 | Material | | |
| | 2.2 | Nominal Thickness | (mm) | |
| 3. | | Insulation | | |
| | 3.1 | Material | | |
| | 3.2 | Nominal Thickness | (mm) | |
| 4. | | Non-Metallic Insulation Screening | | |
| | 4.1 | Material | | |
| | 4.2 | Nominal Thickness | (mm) | |
| 5. | | Metallic Screen | | |
| | 5.1 | Number and diameter of wires | (mm) | |
| | 5.2 | Number, thickness and width of tapes | (mm) | |
| | 5.3 | Nominal cross-sectional area | (sq. mm) | |
| | 5.4 | Electrical resistance of screen at 20 °C | (/km) | |
| | 5.5 | Type of watertight method used | | |
| 6. | | Outer Sheath | | |
| | 6.1 | Material | | |
| | 6.2 | Nominal Thickness | (mm) | |
| 7. | | General | | |
| | 7.1 | External diameter of cable | (mm) | |
| | 7.2 | Weight of cable | (kg) | |
| | 7.3 | Capacitance | (/m) | |
| | 7.4 | Permissible bending radius | (m) | |
| | 7.5 | Permissible pulling force | (kg) | |
| 8. | | Drum | | |
| | 8.1 | Type | | |

| | | | |
|-----|---------------------------------|------|------|
| 8.2 | Weight of empty drum | (kg) | |
| 8.3 | Reel Diameter | (mm) | |
| . | Conductor | | |
| 8.4 | Flange diameter | (mm) | |
| 8.5 | Width | (mm) | |
| 8.6 | Gross weight of drum with cable | (kg) | |
| 8.7 | Length of cable per drum | (m) | 1000 |
| | | | |

N.B.

1. Packing: The cable shall be furnished in lengths of 1000-meters wound on strong new seaworthy wooden drums for items (1).
2. Prices: Should be based on LME for Aluminum -1900 \$/Ton.