

TECHNICAL SPECIFICATIONS

1. GENERAL

Materials included in this tender are for use in electricity distribution networks including (33, 11 & 0.4) kV overhead lines and associated substations.

Tenderer must ensure that materials are of the best quality and confirm to the latest IEC standards.

2. STAY WIRES

Stay wires shall be stranded steel wires, manufactured to BS 183, galvanized to BSI BS EN ISO 1461, or related IEC or other standards. With minimum breaking load of 60 K Newton. Stay wires shall be high tensile hot dip galvanized with 38 μm thickness of diameter of (12) mm. They shall be easy to bend and erect (not hard).

The outermost layer of stay wire shall be stranded with the right hand lay.

3. Preformed Guy Grips

Grips are required for terminating galvanized stay wire at pole and ground levels. They must match (7/4) mm, (6) ton ultimate strength and (12) mm overall diameter galvanized steel stay wire.

They must insure excellent mechanical connection and must be easy to install. (Attached drawing No. (9-1-E4-0131).

4. Thimbles

Thimble eyes shall be manufactured from standard crescent section steel bar as used for thimbles to ISO 2262 and BS EN 13411-1 or such other equivalent standard as may be approved. Thimble eyes shall be supplied with a gap at the pointed end. These thimbles shall suit for 7/4 mm

stay wire which has an overall diameter of about 12 mm. (Attached drawing No. (9-1-E4-133)).

5. Stay Rod

Stay Rods shall be of an approved tubular turnbuckle adjustable type, the tube section of the adjustable rod shall be manufactured from heavy gauge steel to BS standard as may be approved and galvanized to BS EN ISO 1461. The rod shall be not less than 2440mm long with 16 mm diameter and a minimum failing load of 60 K.N.

6. Turnbuckle

The turnbuckles should be of hot dip galvanized steel. They should be tubular manufactured from heavy gauge steel to BS standards of “Eye type “. They shall have a minimum failing load of 60 KN. Shape and type should be according to the IEC standard. With dimensions and two (10mm diameter) holes as in attached drawing.

NOTE:

The general arrangement of stay fixture in attached drawing (9-1-E4-0104)

7. Stay Fixture

Complete staying fixtures are required for anchoring purposes of all the tension angles and t-off poles.

Fixture must include 2.44 m min. galvanized stay rod and complete with baulk plate, mild galvanized steel tubular turnbuckle for adjustment, (2) thimbles and (2) preformed guy grips as specified except that they should be suitable for (6) ton ultimate strength stay wire, thimbles are intended for use at both ends of the stay wire i.e., one at the pole top and the other at the stay fixture.

Fixtures must have (6) ton min. ultimate strength.

8. Earth galvanized steel tape

Earth tape shall be of galvanized steel (40x4) mm, and the tapes shall be as shown in attached drawing (No.9-1-E4-18B)

The tape shall be supplied with bolts with 12 mm diameter with suitable length, such as each bolt shall fix both tapes together (one from each size).

9. TESTS:

All Components shall be tested in accordance with BS standard or equivalent.

10. REFERENCES:

Bidder must include with his offer a detailed reference list indicating types, quantities, and years of service of the same offer items he supplied as well as detailed address of buyers, particularly these buyers having same climatic conditions in the region.

11. OFFER CATALOGUES AND SAMPLES:

Each offer should be attached with catalogues with a clear drawing with dimensions and other technical specifications for each type of the offer item.

A sample of each type should be submitted with the offer and any offer received without drawings and samples will be rejected during evaluation without any prior notice.

SCHEDULES AND GUARANTEES

<u>SCHEDULE NO.</u>	<u>DESCRIPTION</u>
A	Schedule of Requirements
B	Price schedules
C	Guaranteed delivery period schedules
D	Manufacturers, places of manufacture and testing place
E	List of test certificates
F	Reference list
G	Deviation from specifications Schedules if any

SCHEDULE (A)
SCHEDULE OF REQUIREMENTS

Item No.	Description	Stock Code	Unit Item	Quantity Required
1.	Earth tape size (40x4) mm, a- Length 2.5 meter as specified. b- Bolts with nuts and washers		set	300
2.	Complete Stay fixture set with stay rod, baulk plate and nuts, adjustable turnbuckle, 2 thimbles, and 2 Preformed guy grips as specified.		Set.	300

SCHEDULE (B)
PRICES SCHEDULES

ITEM NO.	DESCRIPTION	QTY AND UNIT	UNIT PRICE & CURRENCY		TOTAL PRICE C & F AQABA JORDAN
			FOB	C & F AQABA	
1.	Earth tape size (40x4) mm, a- Length 2.5 meter as specified. b- Bolts with nuts and washers	300 set			
2.	Complete Stay fixture set with stay rod, baulk plate and nuts, adjustable turnbuckle, 2 thimbles, and 2 Preformed guy grips as specified.	300 set			
TOTAL PRICE (C & F) AQABA					

IMPORTANT NOTES:

1-EDCO HAS THE RIGHT TO ACCEPT PARTIAL OFFERS AND TO AWARD PART OF THE ITEMS OR QUANTITIES WITHOUT ANY LIMIT REGARDLESS CLAUSE (2.3) FROM SECTION III (GENERAL CONDITIONS OF CONTRACT).

2- EDCO HAS THE RIGHT TO REJECT ANY OFFER BASED ON EDCO EVALUATION TO THE QUALITY, RELIABILITY AND WELL-KNOWN MANUFACTURERS.

SCHEDULE (C)

GUARANTEED DELIVERY PERIODS IN WEEKS

DESCRIPTION	DELIVERY PERIOD FOB- SPECIFY PORT	DELIVERY PERIOD AQABA PORT JORDAN
Earth tape size (40x4) mm, a- Length 2.5 meter as specified. b- Bolts with nuts and washers Complete Stay fixture set with stay rod, balk plate and nuts, adjustable turnbuckle, 2 thimbles, and 2 Preformed guy grips as specified.		

Delivery period shall be as short as possible, and it will be considered during evaluation, at any way the delivery time is preferable to be less than (12) weeks, C&F Aqaba port from the date of receipt EDCO purchasing order.

SCHEDULE (D)
MANUFACTURERS, PLACES OF MANUFACTURE AND TESTING
PLACE

DESCRIPTION	MANUFACTURER	PLACE OF MANUFACTURE	PLACE OF TESTING
Earth tape size (40x4) mm, a- Length 2.5 meter as specified. b-Bolts with nuts and washers Complete Stay fixture set with stay rod, baulk plate and nuts, adjustable turnbuckle, 2 thimbles, and 2 Preformed guy grips as specified.			

SCHEDULE (F)

LIST OF TEST CERTIFICATES FOR TESTED EQUIPMENT

Tenderers shall provide the information required below for the type test certificates from a recognized testing station covering the equipment offered to BS or IEC recommendations & shall be submitted with the tender.

Failure to provide copies of type test certificates/reports could result in rejection of the tender.

Type test made on identical designs of equipment to those offered	Certificate No.	Certificate Authority

SCHEDULE (G)

SERVICE EXPERIENCE OF FOR OFFERED MATERIALS

Tenderers shall provide the information required below for the service experience of the same offered materials.

Customer	Description	Total Quantity (Pc.)	No. of years in service

SCHEDULE (H)

DEVIATIONS FROM SPECIFICATIONS (IF ANY)
TO BE COMPLETED BY THE TENDERER

ITEM NO.	BREIF DESCRIPTION	DEVIATIONS