



PURCHASE SPECIFICATION

REG2021-20200434

Rudrapur

GROUP : REG

Rev no

00

SPECIFICATIONS FOR SUPPLY OF DC COPPER CABLE FOR SOLAR INSTALLATION

- CABLE SHALL BE DELIVERED TO BHEL CFP RUDRAPUR.
- CABLE TO BE INSTALLED BY BHEL-RUDRAPUR AT SITE IN BANGALADESH.
- L-1 SHALL BE DECIDED ON LINE ITEM BASIS.
- CABLE SHALL BE CAPABLE OF WORKING AS PER BANGALADESH LOCAL SITE AND ELECTRICITY CONDITIONS.


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Signature and stamp of bidder

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1. INTRODUCTION:

This specification defines the scope of the Bidder for **supply of DC copper 1Cx4 sqmm Solar cable.**

2. BIDDER'S SCOPE:

The Scope of bidder is as follows:

- Supply of 1Cx4 Sqmm copper DC cable for Solar installation.
- Freight & Transit insurance.

Delivery Condition : **Free On Road (FOR) destinations (BHEL Rudrapur).**

Sl. No	ITEM DESCRIPTION	Qty	UOM	MAKE AND MQP OF DC CABLE
1.	1C x 4 Sqmm DC Copper Cable for Solar installation	8,500	Meters	As per attached make List and MQP

Note:

- The technical particulars, recommended installation procedures and Data sheet shall be submitted for approval to BHEL before procuring.
- Only the listed makes of Cable shall be acceptable.
- Test Certificates and Factory Test Reports/Type test report and Data sheet of Cable as per relevant standards/MQP shall be submitted to BHEL alongwith material supply.

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3. Technical Specification:

- The DC cable shall withstand the external influences on site at Bangladesh, such as temperature, UV irradiation, wind, sand and mechanical load.
- DC cable shall be copper, single core cable and double insulated.
- Insulation type: XLPO
- Cable shall be type PV1-F or similar type.
- Temperature range: -40 Deg C to +90 Deg C
- Cables shall be properly labeled
- Cable's outer sheet shall be RED and BLACK colour (50-50% of each colour of total quantity). Outer layer with partial RED is also acceptable.
- Voltage rating 0.6/1 kV
- Cable shall meet the requirements of TUV standard 2 PfG 1169/08.2007 or other equivalent standard.
- Cable shall meet IEC 60227/IS 694, IEC 60502/IS1554, IEC 60332-1-2, IEC 60754-1

4. DRAWINGS & MANUALS:

Bidders shall provide complete technical data sheets of the cable giving details of the specifications with offer.

5. Special Terms and conditions:

6.1 Delivery Schedule:

- Vendor has to submit make, Technical data sheet(TDS), FTR/Type test reports and MQP within 07 days from PO date for approval.
- Material should be delivered at BHEL Rudrapur within **30 days from the date of dispatch clearance from BHEL.**

6.2 Payment terms:

- On Supply:** 100% of the payment shall be released after receipt of the materials at BHEL Rudrapur.

Note: Payment shall be released within 45 days from the date of submission of verified bill subject to acceptance of material.

Following documents will be required along with the invoice.

1. Invoice copy 4 Nos
2. LR Copies of supplied materials
3. BHEL issued certificate.

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6.3 Inspection:

Factory test report/Type test report, data sheet and Inspection reports/TCs as per MQP shall be submitted by bidder to BHEL. Bidder will has to raise a inspection call to BHEL before dispatch of material. BHEL or its representatives will inspect the material at vendor/manufacturer's works.

6.4 Packing and marking:

Follow clause 3.3 of attached MQP.

Each roll/pack of cables shall be of 500 meters. If less than 500 meter cables are left, it should be pack in single roll.

Marking: Each package shall be marked with warning inscriptions etc.


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6. GENERAL TERMS AND CONDITIONS:

- All the materials Dispatched to site should have proper paper work like Dispatch certificate, Invoice. These documents shall be got duly verified & signed by BHEL representative/authorized representative of BHEL upon receipt at destination. This is required for processing of payment.
- The design and operational features of the material offered shall also comply with the provisions of latest issue of the Bangladesh Electricity Rules and other statutory regulations.

