



BHARAT HEAVY ELECTRICALS LIMITED
SOLAR BUSINESS DIVISION

DOC No. ELEC-PT-CK-03

PURCHASE SPECIFICATION FOR CABLES

Rev. 02

MAY.2024

SCOPE: Supply of Cables as per below mentioned specification.

Complete transportation of materials is in scope of supplier.

Detailed technical specification enclosed.

Offer shall be for new cables and not for any refurbished or used cables

TECHNICAL SPECIFICATIONS:

SN	SPECIFICATION	VALUE AND REQUIREMENTS
A	3.5 CORE, 240 SQMM, 1.1kV Grade, ALUMINIUM CONDUCTOR, XLPE, ARMoured CABLE	
1	Scope	Scope of supply includes, inspection, packing and dispatch to BHEL-SBD
2	Description	Stranded, Aluminum conductor with extruded FRLS PVC inner sheathed with galvanized flat steel strip armouring and with extruded outer sheath made of PVC-ST2 compound.
3	Quantity in (Mtrs)	500 ± 5% (Single Length)
4	Make	FINOLEX, ANCHOR, POLYCAB, V-GUARD, HAVELLS, KEI
5	Cores identification	Cores identification shall be done by Red, Yellow, Blue color for main core and Black color for half core.
6	IS Standards	1. Conductors for Insulated electric cables – IS 8130:2013 latest 2. Conformity of specification for XLPE cable – IS 7098 (Part I) :1988
7	Test Certificate	Suppliers to submit the sample test certificates of similar cable indicating the various test conducted on cables being offered while quoting.
8	Packing & Marking	The cable shall be wound on a wooden drum of suitable size. Cable drums shall be manufactured as per IS: 10418 and supplied in non - returnable wooden drums. Length of cable to be stenciled on drums. Cable size, Voltage grade, No of Cores and sequential incremental length should be printed by embossing on the cable
B	3.5 CORE, 70 SQMM, 1.1kV Grade, COPPER CONDUCTOR, XLPE, ARMoured CABLE	
1	Scope	Scope of supply includes, inspection, packing and dispatch to BHEL-SBD
2	Description	Stranded, Copper conductor with extruded FRLS PVC inner sheathed with galvanized flat steel strip armouring and with extruded outer sheath made of PVC-ST2 compound.
3	Quantity in (Mtrs)	200 (Single Length)
4	Make	FINOLEX, ANCHOR, POLYCAB, V-GUARD, HAVELLS, KEI
5	IS Standards	1. Conductors for Insulated electric cables – IS 8130:2013 latest 2. Conformity of specification for XLPE cable – IS 7098 (Part I) :1988
C	4 CORE, 25 SQMM, 1.1kV Grade, COPPER CONDUCTOR, XLPE, FRLS, ARMoured CABLE	
1	Scope	Scope of supply includes , inspection, packing and dispatch to BHEL-SBD
2	Description	Stranded, Copper conductor with extruded FRLS PVC inner sheathed with galvanized flat steel strip armouring and with extruded outer sheath made of PVC-ST2 compound.
3	Quantity in (Mtrs)	100 (Single Length)

				
Manoj Kumar DGM-IP	Thirupathi G DGM-CTI	Nayit Mahajan Manager -IP&NP	Amarjyoti Saikia Dy. Manager -M&S	Chandra Ketu Sr. Engineer- M&S

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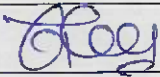
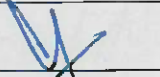
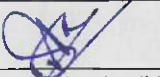

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4	Make	FINOLEX, ANCHOR, POLYCAB, V-GUARD, HAVELLS, KEI
D	4 CORE, 16 SQMM, 1.1kV Grade, COPPER CONDUCTOR, XLPE, FRLS, ARMoured CABLE	
1	Scope	Scope of supply includes, inspection, packing and dispatch to BHEL-SBD
2	Quantity in (Mtrs)	250 (Single Length)
3	Make	FINOLEX, ANCHOR, POLYCAB, V-GUARD, HAVELLS, KEI
E	4 CORE, 6 SQMM, 1.1kV Grade, COPPER CONDUCTOR, XLPE, FRLS ARMoured CABLE	
1	Scope	Scope of supply includes, inspection, packing and dispatch to BHEL-SBD
2	Quantity in (Mtrs)	150 (Single Length)
3	Make	FINOLEX, ANCHOR, POLYCAB, V-GUARD, HAVELLS, KEI
F	4 CORE, 4 SQMM, 1.1kV Grade, COPPER CONDUCTOR, XLPE, FRLS ARMoured CABLE	
1	Scope	Scope of supply includes, inspection, packing and dispatch to BHEL-SBD
2	Quantity in (Mtrs)	200 (Single Length)
3	Make	FINOLEX, ANCHOR, POLYCAB, V-GUARD, HAVELLS, KEI
G	4 CORE, 2.5 SQMM, 1.1kV Grade, COPPER CONDUCTOR, FRLS, PVC	
1	Scope	Scope of supply includes, inspection, packing and dispatch to BHEL-SBD
2	Quantity in (Mtrs)	700 (Single Length or Standard Roll)
3	Make	FINOLEX, ANCHOR, POLYCAB, V-GUARD, HAVELLS, KEI
H	3 CORE, 1 SQMM, 1.1kV Grade, COPPER CONDUCTOR, FRLS, PVC	
1	Scope	Scope of supply includes, inspection, packing and dispatch to BHEL-SBD
2	Quantity in (Mtrs)	500 (Single Length or Standard Roll)
3	Make	FINOLEX, ANCHOR, POLYCAB, V-GUARD, HAVELLS, KEI

TESTING AND ACCEPTANCE

SN	DESCRIPTION
1	TECHNICAL EVALUATION: 1. Vendor has to submit their acceptance for supplying cables as per Technical Specifications and Instructions mentioned in the tender document. 2. Vendor has to submit documentary proof of satisfying the Pre-Qualification Criteria mentioned in the tender document.
2	Pre-Dispatch Inspection 1. Cables will be inspected as per above mentioned specifications and PO terms and conditions after delivery at BHEL-SBD Stores for Sl.No – A to H

				
Manoj Kumar DGM-IP	Thirupathi G DGM-CTI	Naviz Mahajan Manager -IP&NP	Amarjyoti Saikia Dy. Manager -M&S	Chandra Ketu Sr. Engineer- M&S

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**BHARAT HEAVY ELECTRICALS LIMITED
SOLAR BUSINESS DIVISION**

DOC No. ELEC-PT-PQR-CK-03

**TECHNICAL PRE-QUALIFICATION CRITERIA FOR
CABLES**

Rev. 02

MAY.2024

TECHNICAL PRE-QUALIFYING CRITERIA

1	The bidder should be an OEM or an authorized dealer of the OEM. Bidder should be able to provide documents to prove that the bidder is an OEM or a dealer authorization certificate from OEM.
2	<p>Vendor should have experience in supply of Cables.</p> <p>As a proof of supply and its competency, vendor shall submit proof of supply of Cables Minimum 3000 mtrs of quantity or above supplies in last 7 years (from the date of Technical Bid tender opening date publishing this tender).</p> <p>Following documents will be considered by BHEL as proof: a. Purchase Order/ Work order copy</p>
3	Compliance with Technical Specifications: Vendor must necessarily submit acceptance of supply of the cables as per the details mentioned in the Purchase specification (ELEC-PT-CK-03). Non-compliance with the purchase specifications will lead to disqualification.

Note:

BHEL reserves the right for independent verification of the credentials submitted by the bidder and in case of any discrepancy, BHEL reserves the right to accept/ reject Bidder's offer.

				
Manoj Kumar DGM-IP	Thirupathi G DGM-CTI	Navit Mahajan Manager -IP&NP	Amarjyoti Saikia Dy. Manager -M&S	Chandan Ketu Sr. Engineer-M&S

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DOC No. ELEC-PT-OITC-CK-02

OTHER IMPORTANT TERMS & CONDITIONS FOR
CABLES

Rev. 01

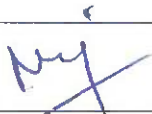
MAY.2024


QUANTITY:As per Technical Spec Doc No- ELEC-PT-CK-03

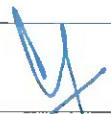
DELIVERY PERIOD: 45 Days from the date of Purchase Order.

WARRANTY


SN	DESCRIPTION
1	12 months from the date of supply. During warranty period, cables must work smoothly. In case of any issues, supplier must provide replacement of faulty cables free of cost.


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