

	PURCHASE SPECIFICATION FOR DC CABLE	BDC1819-024602 DC	
Rudrapur	GROUP : BDC	Rev no	00

**PROJECT: 1.25 MW SOLAR ROOFTOP AT NBCC
KIDWAI NAGAR**

**GENERAL & TECHNICAL SPECIFICATIONS
FOR
0.6/1 KV DC SOLARCABLES**



Signature and seal of Bidder

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General Specification:

- i. **Scope:** Supply of Single core multi strand XLPO insulated & sheath copper conductor DC cables for Solar.
- ii. Qualify Criteria for Bidders shall be as per Annex-II.
- iii. Prices quoted shall be on F.O.R site basis (NBCC -KIDWAI NAGAR, DELHI) & shall be firmed till completion of delivery. Consignee address to be provided alongwith dispatch clearance.
- iv. **Delivery schedule:** ^{10 KM / MONTH} 10 month from the date of issue of purchase order. Cable shall be supplied in bundles/drums. A Bundle/drum must contain 1000 mtr of cable.
- v. Cables shall be inspected at vendor's work by BHEL Rudrapur/Third party.
- vi. Annex-I have to filled & submitted by bidders alongwith Technical bid. Bidders shall also submit technical datasheet for cables of offered Make.
- vii. Bidders shall submit quality plan for Type Test, Acceptance Test, Routine Test & optional Test alongwith technical bid.

Technical Specification:

- Cables shall have the following characteristics:
- i. Temp. Range: -10 Degree C to +90 Degree C.
 - ii. Voltage rating 0.6/1 kV.
 - iii. Excellent resistance to heat, cold, water, oil, abrasion, UV radiation.
 - iv. Flexible – Class 5 (as per IEC 60228).
 - v. DC cable shall be single core multi strand Electrolytic Annealed Tinned Copper Conductor.
 - vi. The construction of DC Cable shall be in a two layer construction with a low smoke halogen-free, flame retardant and sunlight resistant electron beam cross-linked compound outer layer and halogen-free thermoset polyolefin inner layer. DC cables insulation & sheath shall also confirm:
 - Suitable for continuous operating temperature of 90°C wet or dry
 - Vertical Flame Performance: EN 60332-1 or equivalent
 - Excellent UV and Ozone resistant
 - Suitable for wet, damp and humid locations
 - Specially designed for excellent flexibility
 - Compatible with all major connectors
 - Cold bend and impact: -40°C
 - vii. 2.5 SQMM cable shall have outer layer/sheath of "GREEN Colour".
 - viii. 4 SQMM cable's outer layer/sheath shall be of "RED & BLACK Colour" (50-50% of each colour of total quantity). Outer layer/sheath with partial "RED" colour is also accepted.
 - xi. Make of cables (required): LAPP, POLYCAB & HAVELLS.

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Standards:

- i. Shall meet EN:50618.
- ii. Shall meet IEC: 60228
- iii. Shall meet TUV 2Pfg 1169/08.2007



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