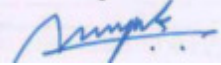
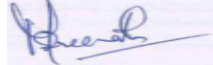


	Purchase specification, Group: Photovoltaics 1 core x 6 sq-mm Cu, EBXL XLPO insulated and Sheathed Solar cable	PY55300
		REV NO: 01
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Technical specification
For
Supply of 1 core x 6 sq-mm Cu, EBXL
XLPO insulated and Sheathed Solar cables

Revision details :R 01 TUV 2pfg 1169 changed to EN50618 standard	Prepared  VCP	Approved  MS	Date 15 -11-2017
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	Purchase specification, Group: Photovoltaics 1 core x 6 sq-mm Cu, EBXL XLPO insulated and Sheathed Solar cable	PY55300
		REV NO: 01
		PAGE : 2 OF 5

This technical specification provides BHEL's requirement for supply of 1CX6 sq-mm cables for the solar photovoltaic (SPV) projects.

A. Scope of Supply : As per Annexure-1.

B. Technical specification

#	Particular	BHEL specification
1.0	Item description	Cable, 1 core x 6 sq-mm, 1.8 KV DC (maximum), Annealed tinned copper conductor, EBXL XLPO Insulated and Sheathed Solar Photovoltaic Cable.
2.0	Application	Suitable for use in outdoor application for interconnection of solar photovoltaic (SPV) modules in SPV power plants.
3.0	Applicable standard	EN 50618
4.0	Voltage grade	Maximum permissible voltage = 1800 V DC (conductor – conductor, non-earthed system, circuit not under load)
5.0	Type of cable	H1Z2Z2-K
6.0	Conductor	
a)	Material	Flexible Annealed tinned copper conductor as per class 5 of IEC 60228
b)	Cross sectional area (Nominal)	(i) 6 sq-mm
c)	Maximum diameter of wires in the conductor	For 6 sq-mm: 0.31 mm
d)	Maximum conductor resistance at 20 °C (DC)	For 6 sq-mm: 3.39 Ohm per Km
e)	Current Carrying Capacity	As per EN 50618
7.0	Insulation	
a)	Material	Electron beam cross link (EBXL) Cross-Linked Polyolefin (XLPO)
b)	Minimum insulation thickness	0.7 mm
c)	Max. conductor temperature	120°C – Normal continuous operation 250°C – Short circuit condition for 5 seconds
8.0	Insulation color for identification	Natural or as per manufacturer's standard.
9.0	Outer Sheath	
a)	Material	Electron beam cross link (EBXL) Cross-Linked Polyolefin (XLPO)
b)	Minimum Thickness of outer sheath	0.8 mm
c)	Colour of outer sheath	Black or Black with red lining, quantity as per individual item requirement of BHEL

	Purchase specification, Group: Photovoltaics 1 core x 6 sq-mm Cu, EBXL XLPO insulated and Sheathed Solar cable	PY55300
		REV NO: 01
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d)	Overall diameter of cable	Vendor shall indicate actual dimension, tolerance for 6 sq-mm cable.	
10.0	Minimum bending radius	Vendor shall indicate the same with applicable standard for 6 sq-mm cable.	
11.0	Type Tests	As per EN 50618 Type test certificate / provisional certificate issued from NABL accredited laboratories to be submitted by the vendor along with the technical offer.	
a)	Electrical Tests		
b)	Constructional and dimensional tests		
c)	Pressure test at high temperature at complete cable		
d)	Damp heat test		
e)	Resistance against acid & alkaline solution		
f)	Test of influence		
g)	Cold impact test at -40°C		
h)	Cold bending test		
i)	Ozone resistance test		
j)	Weathering/ UV-resistance test		
k)	Dynamic penetration test		
l)	Notch propagation test		
m)	Shrinkage test		
n)	Test under fire condition		
12.0	Routine Tests		
a)	High voltage Test	As per EN 50618	
b)	Conductor resistance test	As per EN/IEC 60228	
c)	Spark Test	As per EN 50618	
13.0	Acceptance Tests		
a)	Conductor resistance test	As per EN/ IEC 60228	
b)	High voltage Test	As per EN 50618	
c)	Insulation resistance test	As per EN 50618	
d)	Annealing test	As per EN/ IEC 60228	
e)	Thickness of insulation & sheath	As per EN 50618	
f)	Hot set test	As per EN 50618	
g)	Tensile and elongation at break test for insulation & sheath	As per IEC-60332-1, IEC-60754-1, ASTM D-2843, EN 50618	
h)	Flame retardence test	As per EN 50618	
i)	Ageing Test	As per EN 50618	
j)	Outer finish check	Manufacturers standard	
14.0	Pre-dispatch inspection at Vendor works	Prior to dispatch of the item, vendor shall provide inspection call to BHEL to witness the acceptance tests as per clause 12.0 and 13.0 as above.	

	Purchase specification, Group: Photovoltaics 1 core x 6 sq-mm Cu, EBXL XLPO insulated and Sheathed Solar cable	PY55300
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15.0	Manufacturing Quality Plan / Quality Assurance Plan	Vendor shall submit Manufacturing Quality Plan for BHEL/BHEL-customer approval within 1 week of placement of Order.
16.0	Test certificate	Three copies of test certificate shall be supplied with BHEL PO number and date, BHEL specification number, Cable description, Manufacturer name, Part number, Size & Length of the cable, Batch / Lot number. Test certificate shall contain test description, measured values of dimensions and cable properties, and acceptance limits.
17.0	Cable identification	Printing/embossing shall be done on outer sheath with following information throughout the length of the cable: Manufacturer name, brand name or trade mark, Cable size, Voltage grade and sequential marking of the length of cable. The printing/embossing shall be at an interval of 1 meter. Drum no/extrusion lot no. shall be printed/embossed on the outer sheath at least every 5 m of the cable length.
18.0	Packing and marking	
a)	Packing	Both the ends of the cables shall be properly sealed with heat shrinkable PVC/ rubber caps secured by 'U' nails so as to eliminate ingress of water during transportation, storage and erection. Alternatively, supplier can do alternative packaging of whole Drum/Spool to eliminate ingress of water during transportation, storage and erection. Wood preservative anti-termite treatment shall be applied to the entire drum.
b)	Drum	Drum shall be as per IS:10418-1972 or equivalent, with suitable size.
c)	Marking on the drum	Each drum shall be marked with following information: BHEL PO number and date, Cable description, Manufacturer name, Part number, Size & Length of the cable, Cable code, Voltage grade, Approx gross mass, Year of manufacture.
d)	Cable length in each drum	1000 meter +/- 5 %

C. Documents to be submitted along with offer without which offer is likely to be rejected.

1. Type test certificate / provisional certificate as per EN 50618 issued from NABL accredited laboratories.
2. Filled in values/details wherever the same is asked for in BHEL technical specifications.
3. Vendor has to enclose the deviation sheet clause wise separately in case any deviations are sought by the vendor. Absence of any deviation sheet shall be taken as compliance of BHEL specification in total without any deviation.

D. Documents to be submitted within 1 week after receipt of Purchase order for approval

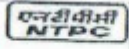
1. Technical datasheet of the cable with cable cross section sketch.
2. Manufacturing Quality Plan (MQP) indicating all tests/checks regarding raw material, in-process and final product as per relevant standards, as called in this document and any other relevant standards shall be submitted to BHEL/BHEL's customer for approval.

	Purchase specification, Group: Photovoltaics 1 core x 6 sq-mm Cu, EBXL XLPO insulated and Sheathed Solar cable	PY55300
		REV NO: 01
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E. Material Codes

Sl No	Material Description	Material Code
1	6 sqmm Cu EBXL XLPO - Black	PY9755300007
2	6 sqmm Cu EBXL XLPO Black with Red line	PY9755300015
3	6 sqmm Cu EBXL XLPO – Black(Outer sheath shall be FRLS)	PY9755300023
4	6 sqmm Cu EBXL XLPO Black with Red line(Outer sheath shall be FRLS)	PY9755300031

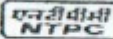
GUIDELINES TO VENDORS FOR PREPARATION OF QUALITY ASSURANCE
PLAN: REFER ANNEXURE-A (enclosed)

 Item: Solar PV DC Cables		STANDARD QUALITY PLAN (CONFORMING TO CODE: NTPC TECHNICAL SPECIFICATION)			QP. NO. 0000-999- QOE-S- 63 REV-00 DATE : 31-03-2016 VALID UP TO: 30-03-2019		REVIEWED BY SWAPNESWAR MISHRA VIKRAM TALWAR SUNIL MALANI		APPROVED BY  K.K. OJHA					
Sl. No	Component & Operations	Characteristics	Class	Type of check	Quantum of check		Reference Document	Acceptance Norms	Record Format	Agency				Remarks
					M	C/N				D	M	C	N	
1	2	3	4	5	6		7	8	9	1	0		11	

Instructions: 1) Cable manufacturer to maintain records to show co-relation of raw materials to finished cables i.e raw material batch/ lot no. should be traceable to the cable drum/reel number.
 2) Cable manufacturer to maintain all quality control records identified as per all QP stages enumerated below whether it is identified for NTPC verification / witness or not.

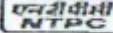
1.0 Raw material													
1.1	Conductor Copper	Type/Grade	Major	Visual	1 Sample per lot	-	NTPC Specification, TUV Specification, 2 pfg 1169/08.2007 / EN 50618,	class 5 conductor as per EN/IEC 60228, IS 8130	Manufacturer Incoming Inspection report & supplier Test Cert.		P	-	-
		Diameter	Major	Measurement	-do-	-	-do-	-do-	-do-		P	-	-
		Tensile Strength	Major	Physical	-do-	-	-do-	-do-	-do-		P	-	-
		Elongation	Major	Physical	-do-	-	-do-	-do-	-do-		P	-	-
		Resistivity at 20 Deg C	Major	Electrical	-do-	-	-do-	-do-	-do-		P	-	-
		Surface Finish	Major	Visual	-do-	-	Mnfr std	Mnfr std	-do-		P	-	-
1.2	Tin (For tinning of copper)	Purity of Material	Major	Chemical	-do-	-	IS 26	NTPC Specification, IS:26	-do-		P	-	-
1.3	Insulation	Type/Grade	Major	Visual	1 Sample per lot	-	TUV Specification, 2 pfg 1169/08.2007 / EN 50618/ NTPC ADS	TUV Specification, 2 pfg 1169/08.2007 / EN 50618/ NTPC ADS	supplier test certificate		P	-	-
		Tensile Strength	Major	Physical	-do-	-	-do-	-do-	-do-		P	-	-
		Elongation at Break	Major	Physical	-do-	-	-do-	-do-	-do-		P	-	-
		Hot set test	Major	Physical	-do-	-	-do-	-do-	-do-		P	-	-
		Ageing Test	Major	Physical	-do-	-	-do-	-do-	supplier test certificate		P	-	-
		Insulation Resistance (VR)	Major	Electrical	-do-	-	-do-	-do-	-do-		P	-	-
1.4	Sheath	Type/Grade	Minor	Visual	1 Sample Per lot	-	TUV Specification, 2 pfg 1169/08.2007 / EN 50618	TUV Specification, 2 pfg 1169/08.2007 / EN 50618	-do-		P	-	-
		Tensile strength	Major	Physical	-	-	-do-	-do-	-do-		P	-	-
		Elongation at Break	Major	Physical	-	-	-do-	-do-	-do-		P	-	-

LEGEND:- *RECORDS, IDENTIFIED WITH "TICK" UNDER COLUMN "D" SHALL BE ESSENTIALLY INCLUDED BY SUPPLIER IN QA DOCUMENTATION
 -M:MANUFACTURER/SUPPLIER, C:MAIN SUPPLIER, N:NTPC, P:PERFORM WITH WITNESS, V:VERIFICATION AS APPROPRIATE, CHP: NTPC

		Item: Solar PV DC Cables		STANDARD QUALITY PLAN (CONFORMING TO CODE: NTPC TECHNICAL SPECIFICATION)			QP NO. 0000-999- QOE-S- 63 REV-00 DATE : 31-03-2016 VALID UP TO: 30-03-2019		REVIEWED BY SWAPNESWAR MISHRA VIKRAM TALWAR SUNIL MALANI		APPROVED BY  K.K. OJHA			
Sl. No	Component & Operations	Characteristics	Class	Type of check	Quantum of check		Reference Document	Acceptance Norms	Record Format	Agency				Remarks
					M	C/N				D	M	C	N	
1	2	3	4	5	6		7	8	9	1	0			11

1.5	Spool-Wooden Drum used	Hot set test	Major	Physical	-	-	-do-	-do-	-do-		P	-	-	
		Ageing Test	Major	Physical	1 Sample Per lot	-	TUV Specification, 2 pfg 1169/08.2007 / EN 50618	TUV Specification, 2 pfg 1169/08.2007 / EN 50618	-do-	-	P	-	-	
		Halogen Content	Major	Physical	-do-	-	-do-	-do-	-do-		P	-	-	
		Surface finish & anti-termite treatment, if required	Minor	Visual	1 Sample per lot	-	Manufacturer's Standard	Manufacturer's standard	Manufacturer incoming inspection report		P	-	-	
		Construction	Minor	Visual	-do-	-	Manufacturer's Standard	Manufacturer's standard	Manufacturer incoming inspection report		P	-	-	
		Nail Protrusion	Minor	Visual	-do-	-	Manufacturer's Standard	Manufacturer's standard	-		P	-	-	
2.0	IN-PROCESS INSPECTION													
2.1	Wire Drawing-Tinning & Annealing	Diameter	Major	Physical	1 Sample per lot	-	Manufacturer's Standard	Manufacturer's standard	Manufacturer in-process inspection report		P	-	-	
		Annealing Test (Copper)	Major	Physical	--do--	-	EN/IEC 60228, IS-8130	EN/IEC 60228, IS-8130	Do		P	-	-	
		Persulphate Test	Major	Chemical	--do--	-	-do-	-do-	--do--		P	-	-	
		Surface finish	Major	Visual	--do--	-	Manufacturer's standard	Manufacturer's standard	--do--		P	-	-	
2.3	Stranding/Bunching	Number of Strands	Major	Physical	1 Sample per lot	-	Class 5 as per EN/IEC 60228, IS 8130, NTPC ADS	Class 5 as per EN/IEC 60228, IS 8130, NTPC ADS	Manufacturer In-process inspection report		P	-	-	
		Conductor diameter	Major	Physical	--do--	-	-do-	-do-	-do-		P	-	-	
		Max DC Resistance at 20 Deg C	Major	Electrical	--do--	-	-do-	-do-	-do-		P	-	-	
		Lay length & Direction	Minor	Visual	--do--	-	Manufacturer's standard	Manufacturer's standard	-do-		P	-	-	
		Surface Finish	Minor	Visual	--do--	-	-do-	-do-	-do-		P	-	-	

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Sl. No	Component & Operations	Characteristics	Class	Type of check	Quantum of check		Reference Document	Acceptance Norms	Record Format	Agency				Remarks
					M	C/N				D	M	C	N	
1	2	3	4	5	6		7	8	9	1	0			11

2.3	Insulation extrusion	Thickness	Major	Physical	--do--	-	NTPC ADS	NTPC ADS	Manufacturer in process inspection report		P	-	-	
		Hot set	Major	Physical	-do-	-	TUV Specification, 2 pfg 1169/08.2007 / EN 50618	TUV Specification, 2 pfg 1169/08.2007 / EN 50618	-do-		P	-	-	
2.4	Sheath extrusion	Radial Thickness	Minor	Physical	1 Sample per extrusion lot	-	TUV Specification, 2 pfg 1169/08.2007 / EN 50618/ NTPC ADS	TUV Specification, 2 pfg 1169/08.2007 / EN 50618 / NTPC ADS	Manufacturer in process inspection report		P	-	-	
		Color/Cable Identification	Minor	Visual	--do--	-	-do-	-do-	-do-		P	-	-	
		Surface finish	Minor	Visual	--do--	-	-do-	-do-	-do-		P	-	-	
		Cable marking/ Printing	Major	Visual	--do--	-	-do-	-do-	-do-		P	-	-	
		Overall Diameter	Major	Physical	--do--	-	-do-	-do-	-do-		P	-	-	
		Spark Test/High Voltage Test	Major	Electrical	100%	-	-do-	No failure	-do-		P	-	-	
3.0	FINAL CABLE TEST (Type test clearance from NTPC Engineering as per specification requirements to be verified during final inspection)													
3.1	Routine Test													
A		High voltage	Major	Electrical	100%	1 Sample s per offered lot	TUV Specification, 2 pfg 1169/08.2007 / EN 50618	TUV Specification, 2 pfg 1169/08.2007 / EN 50618	Manufacturer Routine Test		P	V	V	
B		Conductor Resistance at 20 Deg. C	Major	Electrical	100%	1 Sample s per offered lot	EN/IEC 60228, IS 8130	NTPC approved data sheet, EN/IEC 60228, IS 8130	-do-		P	V	V	
3.2	Acceptance test													
3.2.1	Electrical													
A		Conductor Resistance at 20 Deg C	Major	Electrical	Sampling as per IS 7098	Sampling as per IS	EN/IEC 60228, IS 8130	NTPC approved data sheet, EN/IEC 60228, IS 8130	-do-		P	W	W	

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Sl. No	Component & Operations	Characteristics	Class	Type of check	Quantum of check		Reference Document	Acceptance Norms	Record Format	Agency				Remarks
					M	C/N				D	M	C	N	
1	2	3	4	5	6		7	8	9	10	11	12	13	

B		High Voltage Test	Major	Electrical	-do-	-do-	7098	TUV Specification, 2 pfg 1169/08.2007 / EN 50618	TUV Specification, 2 pfg 1169/08.2007 / EN 50618	Manufacturer Acceptance test report	x	P	W	W	
C		Insulation Resistance at 20 ° c and 90 ° c	Major	Electrical	-do-	-do-		-do-	-do-	-do-	x	P	W	W	
3.2.2	Non-Electrical														
A		Annealing Test on copper	Major	Physical	Mfr std	Mfr std		EN/IEC 60228, IS 8130	NTPC specifications, EN/IEC 60228, IS 8130	Manufacturer Acceptance test report	x	P	V	V	
B		Quality documents review	Major	Visual	1 drum / reel per size per offered lot	1 drum / reel per size per offered lot		Check raw material to finished product quality documents on the selected drum/reel, manufacturer's standard	Quality documents / TCs should be in line with national/international/ manufacturer's standard			P	V	V	
C		Cable construction, cable OD, Ovality, Thickness and color of insulation & sheath	Major	Physical	5 sample per size of offered lot	5 sample per size of offered lot		TUV Specification, 2 pfg 1169/08.2007 / EN 50618/ NTPC approved data sheet	TUV Specification, 2 pfg 1169/08.2007 / EN 50618/ NTPC approved data sheet	-do-	x	P	W	W	
D		Hot set test	Major	Physical	Sampling as per IS 7098	Sampling as per IS 7-98		-do-	-do-	-do-	x	P	W	W	
E		Tensile strength & elongation at break test for insulation and sheath before ageing	Major	Physical	-do-	-do-		-do-	-do-	-do-	x	P	W	W	
F		Flame resistance test, vertical flame propagation test	Major	Chemical	-do-	-do-		TUV specification:2 pfg 1169/08.2007/ EN 50618/ IEC-60332-1	TUV specification:2 pfg 1169/08.2007/ EN 50618/ IEC-60332-1	-do-	x	P	W	W	

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Sl No	Component & Operations	Characteristics	Class	Type of check	Quantum of check		Reference Document	Acceptance Norms	Record Format	Agency				Remarks
					M	C/N				D	M	C	N	
1	2	3	4	5	6		7	8	9	10				11

G		Outer surface finish, marking & Length verification	Minor	Visual	-do-	one sample per size per offered lot	TUV Specification, 2 pfg 1169/08.2007 / EN 50618/ NTPC ADS	TUV Specification, 2 pfg 1169/08.2007 / EN 50618/ NTPC ADS	-do-	v	P	W	W	ADS: Approved data sheet
H		Tensile strength & elongation at break test for insulation and sheath after ageing	Major	Physical	one sample per size per offered lot	one sample per size per offered lot	TUV specification:2 pfg 1169/08.2007 / EN 50618	TUV specification:2 pfg 1169/08.2007 / EN 50618	-do-	v	P	V	V	
3.3	Packing & Marking													
A		Cable end sealing	Minor	Visual	As per manufacturer standard SQC, Ensuring 100% compliance	-	Mnfr std.	Mnfr std.	-do-		P	-	-	
B		Length in meters	Major	Physical	-do-	-	-do-	-do-			P	-	-	
C		Month & Year of manufacturer	Major	Visual	-do-	-	-do-	-do-			P	-	-	

LEGEND:- *RECORDS, IDENTIFIED WITH "TICK" UNDER COLUMN "D" SHALL BE ESSENTIALLY INCLUDED BY SUPPLIER IN QA DOCUMENTATION.

-M: MAIN FACTURER/SUPPLIER, C: MAIN SUPPLIER, N: NTPC, P: PERFORM W: WITNESS, V: VERIFICATION AS APPROPRIATE, CHP: NTPC SHALL IDENTIFY IS COLUMN "N" AS "W"

FORMAT NO: QS-01-QAI-P-10/F3-R1

ENDORSEMENT SHEET FOR QP REFERENCE / STANDARD / <u>FIELD</u> QUALITY PLAN (RQP / SQP/RFQP/SFQP)			
TO BE FILLED IN BY SUPPLIER AT TIME OF SUBMISSION			To be filled in by NTPC
PROJECT NAME		<u>REVIEW & ENDORSEMENT BY NTPC</u> PROJECT SPECIFIC QP NUMBER ALLOTTED QP NO.: REV. NO.: DATE: ** The RQP/SQP/RFQP/SFQP once endorsed for a particular contract shall remain valid even though the original QP may have expired or revised, unless / otherwise mutually agreed with the supplier. ①	
CONTRACT NO			
CONTRACT NAME			
MAIN SUPPLIER			
MANUFACTURER WORKS & ADDRESS	M/S		
ITEM /EQUIPMENT / SYSTEM/ SUB-SYSTEM DETAILS i.e. MODEL TYPE / SIZE /RATING etc.			
APPROVED QP NO.: RQP/SQP/RFQP/SFQP	0000-999-QV - - REV. NO.: DATED**:		
<i>Confirmation by Main Supplier (TICK WHICHEVER APPLICABLE)</i>		<i>(TICK APPLICABLE)</i>	
<i>I. That the item/ component is identical to that considered for QP approval. OR.</i>		The QP is endorsed for this project without any change	
<i>II. That there are minor changes in the item/ component with respect to that considered for QP approval, however the same do not affect the contents of QP. OR</i>			
<i>III. That there are minor changes in the item/ component with respect to that considered for QP approval, however the same affect the QP slightly, as indicated below / in attached sheet.</i>		The QP is endorsed for this project with changes as indicated.	
		<u>DISTRIBUTION OF ENDORSEMENT OF</u> A) RQP/SQP: 1. MAIN SUPPLIER (WITH A COPY OF QP) 2. MANUFACTURER 3. RIO 4. CQA-SPL 5. CQA-O/C B) RFQP/SFQP: 1. MAIN SUPPLIER (with a copy of QP) 2. MANUFACTURER 3. NTPC FQA (with a copy of QP) 4. NTPC Erection (with a copy of QP) 5. CQA-SPL 6. CQA-O/C	
<i>SIGN.: (Main Supplier)</i>	<i>DATE</i>	<i>SIGN.: (Manufacturer)</i>	<i>DATE:</i>
		NTPC (Reviewed /Approved by/ Date & Seal)	