

BHARAT HEAVY ELECTRICALS LIMITED, BHOPAL

TRANSFORMER ENGINEERING DEPARTMENT

FORM NO: TRE-2003A

Sht 1 of 1 sheets

ANNEXURE TO INDENT-CUM-ENQUIRY - 240604021

DTD.

DESCRIPTION OF EQUIPMENT : "Copper winding Wire - Proof stress Glued Bunched PCCW FOR 1 NO. 200MVA, 400/132/33KV, 3-PHASE ICT (SERIES COIL)

WORK ORDER NO. : 69162-A-512-01, 69163-A-512-01

CUSTOMER : M/s NTPC SIPAT

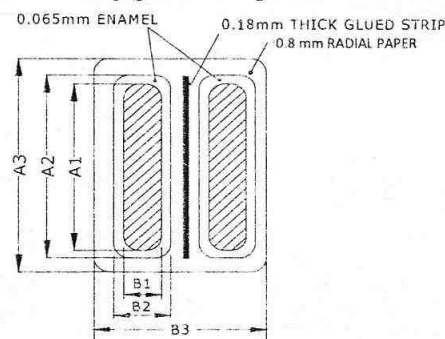
LOA NO. : 5500035287-046-1028 dtd 19/03/2020 & 4000234658-M87-1028 DTD: 19-03-2020

TABLE OF WEIGHT & DIMENSIONS OF GLUED BUNCHED PICC

			ITEM1	ITEM2	ITEM3	ITEM 4	ITEM 5
1.	CABLE SIZE	mm× mm	(2 x 2.60) x 11.60				
2.	GRADE OF ENAMEL	---	F & GLUED STRIP BETWEEN STRANDS				
3.	RADIAL PAPER	mm	0.80				
4.	PAPER		Thermally upgraded paper as per TRE 218 (Nominal paper thickness : 75 micron)				
5.	0.1% PROOF STRESS	MPa	150				
6.	NO. OF DRUMS		12	6	18	6	24
7.	LENGTH PER DRUM	m	323.5	461.0	626.0	319.5	403.5
8.	TOTAL BARE WEIGHT	Kg	2044.0	1456.5	5932.5	1009.5	5098.5
9.	TOTAL COVERED WEIGHT	Kg	2201.5	1569.0	6390.0	1087.5	5492.0
10.	COVERED WEIGHT PER	Kg	183.46	261.50	355.03	181.25	228.83
TOTAL BARE WEIGHT = 15541.0 kg,			TOTAL COVERED WEIGHT = 16740.0 kg				

NOTES :

- Length per drum should not be less than the specified for all drums except the drum from which sample has been taken for testing.
- Items 1- 5 are proof stress glued bunched PICC (LR Type) conforming to specification CPS AA 28128(Rev.06), TRE 078(Rev.02) & TRE151(Rev.02). Both the strands shall be enamelled with 0.065 mm thickness on all the sides of each strand. The two strands shall be separated by 0.18 mm thick glued strip. The overall paper covering shall be 0.80mm radial. The dimensions as per sketch shall be:
 Dimension of each enamelled strand
 $(B2 \times A2) = 2.73 \times 11.73 \text{ mm}$
 Dimension of bare copper strand
 $(B1 \times A1) = 2.60 \times 11.60 \text{ mm}$
 Overall covered dimension
 $(B3 \times A3) = 7.24 \times 13.33 \text{ mm}$
- Item 1-5 shall be supplied in drums of minimum barrel diameter 720 mm.
- The material shall be supplied in refrigerated container keeping the temperature below 8 °C during transportation. Instruction for storage & transportation should be followed as per TR 101331(Rev.05).
- Wax coating as per C1.9.6 of spec. AA28128(Rev.06) to be provided (Available with suppliers).
- Quality plan no. QA/TCB/B0/74 REV.00 shall be followed and NTPC approved QA plan.
- Buckling Load shall be 7980 N with tolerance of +15%/-10%.



REV	DATE	ALT CKD	REV-	DATE	ALT- CKD-	REV 00	NAME	SIGN	DATE
						PREP	C. MONDAL	<i>C Mondal</i>	26.06.2020
						CKD	K G KRISHNAN	<i>K G Krishnan</i>	26.06.2020

DWI/TCB/TRE/010