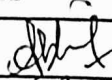
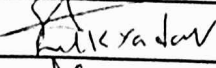

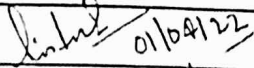
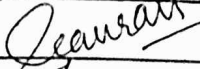
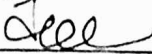




Technical Specification of  
Armour Tape Kit

Specification no – BSES-TS-07-ARMT-R0

Rev:		0
Date:		01 Apr 2022
Prepared by	Abhishek Vashistha	
	Sunil Yadav	
Reviewed by	Puneet Duggal	
	Amit Tomar	 01/04/22
Approved by	Gaurav Sharma	
	K. Sheshadri	

**INDEX**

<b>1. SCOPE OF SUPPLY</b>	<b>3</b>
<b>2. CLIMATIC CONDITION</b>	<b>3</b>
<b>3. ARMOUR TAPE</b>	<b>3</b>
<b>4. FILLER TAPE (PUTTY)</b>	<b>4</b>
<b>5. SURGICAL GLOVES</b>	<b>4</b>
<b>6. INSPECTION</b>	<b>4</b>
<b>7. INSPECTION AFTER RECEIPT AT STORE</b>	<b>5</b>
<b>8. MARKING</b>	<b>5</b>
<b>9. BILL OF QUANTITY (BOQ)</b>	<b>5</b>

**1. SCOPE OF SUPPLY**

The specification covers the manufacturing, testing and inspection of Armour tape kit as the purpose is for the theft protection from LT Arial bunch cable.

**2. CLIMATIC CONDITION**

The material to be supplied against this specification shall be suitable for satisfactory operation under following climatic condition

<b>I)</b>	<b>Location</b>	<b>At various location in the Delhi</b>
ii)	Maximum ambient temperature (°C)	50
iii)	Minimum ambient temperature (°C)	0
iv)	Maximum altitude above mean sea level (m)	1000
v)	Relative Humidity (%)	100
vi)	Rainy month	June to October
vii)	Maximum Rainfall (mm)	1450
viii)	Wind Pressure (Kg/Sq.m)	195
ix)	Seismic Zone	Zone IV as per IS : 1893

**3. ARMOUR TAPE**

Armour tape structural material is packed (rolls) dry in a sealed foil envelope and is flexible fibreglass knit fabric strip that has been saturated with curable black urethane resin syrup that starts to cure when water is added. It is ROHS compliant and should have MSDS material safety data sheet to ensure human and environment safety. Once wet, the fiber strip becomes tacky and sticks to itself, so it wraps easily around almost any shape or size. Armour tape structural material is resistant to moisture, fungus, acid, alkali, ozone, sunlight, gasoline and high temperatures. It combines long life and very little maintenance. It creates an AIR tight bond when cured. Also following parameters should pass for product to perform.

- Boiling Point 193°C - 249°C
- Flash Point 62°C (Min.) [Test Method: Closed Cup]
- RoHS Compliant

<b>Sr. No.</b>	<b>Property</b>	<b>Value</b>	<b>Test method (Critical)</b>
1	Time of hardening	5-12 min	ASTM D 471
2	Tensile strength	> 45 Kg	ASTM D 1000
3	Heat aging	Pass	ASTM D 1373
4	Corrosion resistance	Pass	ASTM D 1373
5	Compressive strength	> 30 Kg	ASTMD 1536
6	Shelf life	24 Months	

**4. FILLER TAPE (PUTTY)**

The insulating putty must be in tape form, the thickness of which must be a minimum of 3.175 mm. The tape must be a rubber-based tape capable of being formed and moulded with moderate finger tension at temperatures as low as 0°C (32°F). Neither the tape nor any of its components shall cause the corrosion of copper. The tape must be compatible with all synthetic cable insulation as well as other splicing tapes. Filler Tape should be conformable, flexible, self-fusing, should act as water-proofing, should be made up of Electrically Graded Rubber

**Features**

- Non-corrosive, synthetic rubber
- Excellent electrical properties
- Excellent ageing properties
- Will not dry out
- Applies cleanly without waste
- Shelf life 24 months

**Physical Properties**

Colour	Black	
Thickness	3.175 mm	
Elongation	600 % (Min.)	
Copper Corrosion	None	ASTMD 69
Tensile Strength	36 kg/cm	ASTM 1000

**Electrical Properties**

Dielectric Strength	22 kV/mm
Insulation Resistance	$>1 \times 10^6$ M $\Omega$

**5. SURGICAL GLOVES**

Each kit shall be supplied with one pair of surgical gloves

**6. INSPECTION**

The material shall be inspected and tested before dispatch by an authorized representative of the BSES at manufacturing unit. In case the supplier does not possess testing facilities, all the acceptance test shall be carried out at NABL accredited lab. Cost of same shall be beard by vendor.

**7. INSPECTION AFTER RECEIPT AT STORE**

Re Inspection of the material once received at BSES Store shall be done by BSES representative and any discrepancy found all the material shall be rejected.

**8. MARKING**

Each kit shall be marked legibly with the following details:

- A. Manufacture's name or trade mark.
- B. Material code
- C. Batch number
- D. A brief description and quality of material.

**9. Bill of Quantity (BOQ)**

One Kit contain following items

<b>Product</b>	<b>Dimension</b>	<b>Qty</b>
Armour Tape	100 MM X 1 M	3 Rolls
Filler Tape (Putty)	38MM X 1.5 M	1 Roll
Surgical Gloves	--	1 Pair