

## Specification for Insulating Mats for Electrical Purpose

**SPECIFICATION NO: CFF/M&S/ Elect- Insulating Mats/16-17/01**

S. No.	Parameter	Description
01	Applicable standard	IS 15652 (2006) with up to date amendments and ISI marked
02	Application area	Substation control panels, 11 KV panels, 11 KV transformer rooms etc.
03	Class	"B" as per IS
04	Voltage Grade	11 KV
05	Proof Voltage	22 KV (rms)
05	Dimension/ Size	1 meter x 2meter
06	Thickness (mm)	2.5 mm $\pm$ 10%.
07	Di-electric Strength	45 KV AC (rms)
08	Tensile Strength	15 N/mm <sup>2</sup>
09	Elongation	250 %.
10	Ambient temperature of use	-10 °C to 55 °C As per IS.
11	Moisture/ Water effect	It should not have any adverse effect (decay) from water and moisture
12	Acid, Alkali and Oil resistance	It should not have any adverse effect of transformer oil, alkali, acid and Diesel.
13	Metal Derivatives	It should not have any metallic derivatives.
14	Surface	The upper surface of mats should have anti-skid marks (slightly rough) in order to prevent slips.
15	Colour of mat	Black (without any metallic derivatives)