ANNEXURE:A-1

Technical Specifications of Insulating Mats

Insulating Mats should conform to 1S 15652:2006 for Electrical Purposes for application in Substations. Power Plants etc. The Insulating Mats are to be installed on the floors before switchgear panels for ensuring the safety of workmen from possible leakage of current.

witchgear pariets for every	The second secon				
	Roll of 1 MTR width X 10 MTR length (Each)				
Size	Black One side plain, other side Patterned For Temp10 to 55°C: 15 N/mm² (Min.)				
Colour					
Finish					
Tensile Strength	10 to 55°(, 7)0.70 (1811).7				
Flongation At Break	For Temp10 to 35 C. 250 V with 500V test,				
Insulation Resistance	1,00,000 Mega Ohms (Min.) with 5KV test				
With Water	1,00,000 Nega Offins (*****)				
Leakage Current at AC	10 m 4 (May)				
proof voltage	10 mA (Max.) The Mat Should be retardant to fire as per IS. The Mat Should be retardant to fire as per IS.				
Flame Retardance					
Low Temperature	No tear, break or crack should be observed as per IS force of 100N for 30 Seconds at -10°C±3°C as per IS				
Resistance	Torce of Touristor 30 Seconds 1				
Aging Test (For Temp1	0 to 55°C)				
Tensile Strength	Not less than 75% without Aging.				
	Not less than 75% without Aging.				
Effect Of Acids (eg HCL)	Not less than 73% without Aging. Alkalis (eg NaOH), Transformer Oil, Diesel, etc. (For				
Temp10 to 55°C)					
Tensile Strength	Not less than 80% without Aging.				
mtion at break	Not less than 80% without Aging.				
Elongation at break	and the property of the proper				
Mat should be sultable for	chanical properties to withstand load and movement of breaker				
Mat should have good meet trolleys & associated electrons	rical equipment.				
trolleys & associated election	nom organization				

-Sr. No.	Class of Mat	Thickness	Dielectric Strength AC (RMS)	AC RMS Voltage	AC Proof Voltage
1	A	2.0mm	30KV	3.3KV	10KV

Note: 1. The tenderer shall arrange at its works/premises all the tests as per IS standards/ specifications. The tests shall be conducted in the presence of customer's representative during inspection and test report shall be submitted.

2. The tenderer will supply test certificates of the insulating mats as per 1S 15652:2006 from Central Power Research Institute (CPRI) or Electrical Research & Development Association

3. Certificates of Type Tests conducted on the insulating mats during last two years shall be submitted.

Switchgear Mtc. Cell, O&M,

GHTP, Lehra Mohabbat.

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