SELECTION OF SIZE OF EARTH STRIP FOR BODY EARTHING OF THE TRANSFORMER			
Fault Level Calculation at 1250KVA Transformer			
Impedance of Tranaformer, Z_1		=	6.25%
Fault MVA_1 , (MVA/Z_1)		=	20 MVA
Fault kA , $(MVA_1/(kV*1.732))$		=	28 kA
For Strip cross sectional area, S		=	I x √t / k
Where	S	=	Minimum Cross Section in Square Milli meter.
	I	=	Value (a. c. rms) of fault current for fault negligible impedance.
	K	=	Factor dependent on the material (K=80 per steel)
	t	=	Operating time of disconnecting the device in secondary t= 1 Sec.
	S	=	348
Number of years before replacement		=	15
Total Allowance		=	15%
Safety factor		=	1.1
Required Earthing Conductor size		=	Cross sectional area x Total allowance x Safety factor
CONDUCTOR SIZE, S		=	440
Hence, 2 nos. of 50 x 6mm GI Strip should be used			