

STITAM



Surge Arrester Inspection

Surge Arrester

The Primary Function of a Surge Arrester is to absorb high energy generated by Lightning or Switching Surges; and hence to protect the equipment in substation. Surge Arrestors are exposed to stresses such as the normal operating voltage, temporary Over Voltages, switching overvoltage, lightning Over Voltages and external pollution. The magnitude of Over Voltage could be 1.5 to 4 times of the normal operating voltage. If Surge Arrester is not healthy, it will fail to protect the equipment it is connected to in the severe Over Voltage condition. Hence the Surge Arrester must be maintained in Healthy Condition to protect the equipment it is connected to.



Surge Arrester Inspection

We Taurus offer services to identify underperforming Surge Arresters, so that they can be replaced with new Surge Arresters. Resistive Leakage Current measurement, Thermovision Scanning to check temperature of equipment and Visual Inspection is carried out to detect the healthiness of the Surge Arrester. Ultrasound scanning is also done to detect partial discharge.



An ISO 9001 : 2008 Company

Benefits

Lightning and other surges are always unexpected. By testing healthiness of Surge Arrester, preventive measures can be taken and major loss in terms of equipment, time and money can be averted. Revenue losses due to unexpected shut down caused by failure of surge arrester can be avoided.



Equipments Used



- **Leakage Current Measurement Unit,**
- **Thermovision Camera**
- **Ultrasonic Scanning Device**
- **Corona Camera**

Surge Arrester Inspection Report

Substation : 400 KV Redding Station KPTCL Madhavangudi						Date: DD/MM/YYYY			Ambient Temp : 32 °C	
SN	LA No	Make	Year Installed	Surge Counter Reading	Bay Name	Ph	Total Current mA	50Hz Current mA	3rd Harmonic Resistive current uA	Remark
1	569234	CGL	1998	3	Mysore	R	0.5	0.489	11	
2	669266	CGL	2012	0	Mysore	Y	1.2	1.19	10	
3	769298	ELPRO	1998	4	Mysore	B	0.7	0.607	93	
4	869330	CGL	2004	1	Hassan	R	4	3.542	458	To monitor and replace
5	969362	ABB	1998	3	Hassan	Y	0.8	0.743	57	
6	1069394	ELPRO	1998	4	Hassan	B	0.623	0.546	77	
7	1169426	CGL	1998	3	Gooty	R	4.5	3.9	600	To replace immediately
8	1269458	ELPRO	2007	0	Gooty	Y	2.1	2.077	23	
9	1369490	OBLUM	1998	2	Gooty	B	3	2.939	61	
10	1469522	CGL	2009	0	Mysore	R	1.7	1.682	18	



Substation and Transmission line Innovative Testing, Analysis & Maintenance
Services for Steady power flow

Division of



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