

VRIOS

Visual Remote Isolator Operating system



25 KV isolators are needed on OHE to disconnect and earth a section of OHE in loco sheds, washing lines and private sidings so that people can work near the wires. There is a complex safety procedure involved where TPC grants permission to work after proper isolation and earthing.

To increase safety, we have designed an automatic arrangement which does Remote Operation with video feedback on Cell Phone signal. This device can be operated from TPC and on a computer of Planning office PPO in washing lines. Supervisor and Field Staff, who will be working near the wire can also see OPEN/CLOSE status on his cellphone.

This will improve safety and prevent electrocution. This will reduce time in imposing the power block.

Some time staff need to travel from SM room to Isolator Mast and back for message exchange which is prevented.



VRIOS – Features

- ♦ Control / Monitor Isolator operations from TPC thro GPRS
- ♦ Live VIDEO during CLOSE / OPEN the isolator
- ♦ LOG all operation with time stamp and Video
- ♦ GPRS signal is continuously monitored
- ♦ SMS alert / Status to Field staff
- ♦ Live Video to Field staff to know isolator status any time thro

Mobile App

Input Voltage: 110 V DC or 230V AC TPC TPC as central control room



TPC



TPC as central control room



Visual Remote Isolator Operating System					
Zone1 VSCON					
Users	Isolators				
Isolators					
TPC Boards					
Depots					
Report					
IMEI Config					
Timer Configuration					
Manage Passwords					
Isolator Id	Depot	Location	Status	Action	
SM 239	MLY	SC Yard			
SM 25	SKZR	208/29			
SM 261	SNF	HYB Yard			
SS 238	MLY	SC SSP			
SS 265	SNF	SKP			
vsccon 4g	SNF	sc			

Redundant switching maintains hassle free operations with Motorized Mechanism and VRIOS

- ♦ Manual operation with Handle near the mast
- ♦ Local OPEN / CLOSE with electrical switch near the mast
- ♦ Remote electrical OPEN / CLOSE from nearest cabin
- ♦ Wireless remote switching from TPC