



GUJARAT POWER
RESEARCH & DEVELOPMENT CELL
GUJARAT URJA VIKAS NIGAM LTD

REMOTELY COMMUNICABLE AND OPERABLE AIR BREAK SWITCH ASSEMBLY

WITH EARTHING FACILITY AND
FAULT PASSAGE INDICATOR



ABEBC

In time Power reliability with electrical safety of the operating staff is the key concern of any power distribution utility. In spite of taking safety measures and use of safety tools, yet electrical accidents occur to the utility operating staff. There is the need for technical solution by redesigning the feeder system to address the safety issue and to maintain the power reliability. Gujarat Power Research & Development Cell has innovated & developed “Medium Voltage Remotely Communicable And Operable Air Break Switch With Earth Blade (ABEBC)”, This is a unique concept to implement in the distribution network for enhance power supply reliability, securing electrical safety, easy fault finding, etc.

ABEBC system comprises of four segments viz. (1) Remotely Communicable and Operable AB Switch with Earth Blade, (2) Data Concentrate Unit (DCU), (3) Fault Passage Indicators (FPI) to Identify the faulty section and (4) Support responsive Mobile Application/Desktop Application to operate & monitor the ABEBC system

This innovative switch is remotely operable using Mobile Application through GSM/GPRS Communication. The switch is compatible to integrate with Line FPIs to identify and isolate the faulty section immediately to restore the power supply.

Benefits to the Power Distribution Companies

- Safe and Easy operation
- Securing safety of operating staff
- Service Life of Feeder Circuit Breaker increases
- Improve the Power reliability by quick identification of faulty portion

Features of ABEBC

- Enhanced Safety to operating staff
- Cost-Effective solution
- Mechanically rugged design
- Increase power reliability
- Minimization of the fault restoration time
- No need of High end SCADA support system
- Supports Communication mode of GSM and GPRS
- Easy mounting

Patent No - 477634

The **ABEBC** is a unique concept, having the capability to reduce electrical accidents. It is performing best and satisfactorily in the field.



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