

## SCADA (SUPERVISORY CONTROL AND DATA ACQUISITION)

under R-APDRP (Restructured Accelerated Power Development Programme)

- **SCADA** : (Supervisory Control & Data Acquisition) is a software tool for remote monitoring and controlling of 33/11KV Substations and the 11 KV feeders from the SCADA Centre . The Substation data and 11KV Feeder data is displayed on SLDs (Single Line Diagrams).
- **DMS** : (Distribution Management System) works on the GIS Application ( Geographical information system ) for the Feeder Automation System. This is an advisory tool for the SCADA operator to take decisions while controlling the breakers in case of line faults and improvement of the system.
- At Present APEPDCL implemented pilot SCADA-DMS project in the Visakhapatnam City. In the SCADA project 28 Nos. RTUs (Remote Terminal Unit) are installed in the 28 Nos 33/11KV Substations ( 24 Nos. Substations in the Zone-I Division and 4 Nos. Substations in the Zone-II Division ).
- 145 Nos RMUs (Ring Main Unit) are installed in the 11 KV feeders covered in the Zone-I Division in the 24 Substations for 125 Nos. 11Kv Feeders.
- PFC sanctioned the DPR for the Part-A for Rs.13.16 Cr. for IT initiatives and for part-B for Rs.21.42 Cr. for the SCADA enablers like IEDs (Intelligent Electronic Device), RMUs (Ring main Units), PTR TMUs ( Power Transformer Temperature Monitoring Units) and New Breakers for replacement of old breakers.

### Status of Work :

#### SCADA PART (A) : (IT Components)

Sl No	Description	Project cost in Rs.Crs.	Present status of works & Balance works to be taken by SIA/Contractor
1	SCADA/DMS proposed at 28 substations in Visakhapatnam city	13.16	The entire works of the SCADA/DMS project of Visakhapatnam Town under R-APDRP has been completed as per the sanctioned scheme.

#### SCADA PART (B) : SCADA Enabling Electrical components in Visakhapatnam City

1	Supply, installation, testing & Commissioning of Feeder & Capacitor Bank IEDs	21.42	All 242 Nos IEDs installed & commissioned
2	Supply, installation, testing & Commissioning of LV protection IEDs		All 52 Nos, were installed and commissioned.
3	Supply, installation, testing & Commissioning of 3/5 Way RMUs		All 145 Nos RMUs, works were completed and commissioned
4	Supply, installation, testing & Commissioning of Power Transformer Temp.monitoring devices		All 52 Nos were installed and commissioned