

Date: 14 Jun 2016



TO WHOM SO EVER IT MAY CONCERN

This is to certify that M/s Wipro Limited has been engaged by CLK Enerji to provide IT / OT services as a System Integrator as part of Business Transformation strategy at CLK Enerji.

Wipro is our trusted partner in the implementation and testing of one of the most complex power distribution networks in Turkey. The SCADA system has eight Control Centers (or four Control Centers with failover capability) spread across four geographically separate regions of Turkey in order to meet the required resilience. Wipro has installed and tested Control Center hardware and application software in this project successfully for the client as of 14 Jun 2016.

Wipro Limited's Scope of Work, Services and responsibilities are as follows:

- Implementation of SCADA (ABB NM Release 6.5) / OMS & DMS (ABB DMS 8.1), Workforce management system (Ventyx Service Suite 9.5), EAM system (Oracle EBS 12.2.4) and GIS System (Esri ArcGIS 10.3) for four distribution companies.
- Cover a total of around 10Mn customers (in four distribution companies) with key services
- Wipro has implemented following business processes under SCADA/DMS/OMS project:
 - Fault and Repair Management
 - Planned Outage Management
 - Monitoring of Supply Continuity
 - Monitoring of Supply Quality
 - Technical Loss Management
 - Regulatory Reporting
- SCADA / DMS / OMS systems are being implemented in 24 months and will be supported for 2 years after implementation.
- Apart from this Wipro is also involved in implementation of other IT systems for Retail and distribution companies

The system caters for the command and control of distribution network having around 1000 RTU's spread over 1/3rd of complete Turkish distribution system network. The system polls approximately 50,000 analogue and 50,000 digital points at a frequency of 10 minutes (under normal scan).

Wipro's key responsibilities include program management, system integration, design, development / configuration, testing and implementation.

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