Kalki Communication Technologies Limited
Bangalore

Experience in SCADA Implementation Projects

Sl. No.	Project Title	Type of Industry	Kalki's Scope	Main Functionalities	SCADA	Protocols	No of S/S	Voltage Levels
1	DAS for A24A and NPPS	Oil & Gas	Kalki's scope of work included system design, development, engineering, testing and commissioning of Smartstation - Substation Management software at site.	Monitoring, recording and storage of switchgear operation and parameters, Circuit breaker control Bus bar animation,Collection of fault data, Automated disturbance downloading,Disturbance analysis, Printing of stored parameters, Logging of events, Energy reporting for 11KV and 440V switchboards	Ge Fanuc iFIX 4.0	Modbus	2	11 KV & 440V
2	SCADA for DIAL	Airport	Supply of CP16-2 gateways, Panel Engineering, SCADA Application engineering, CP16-2 Gateway Configuration, Conducting FAT, Testing and Commissioning at Site, Conducting SAT.	Breaker control, Report Generation, Alarms & Events logging	PVSS, Siemens	IEC 61850, Modbus	6	33kV, 11kV and 415V
3	SAS for Vizag Steel Plant	Metal	Supply of CP16-2 gateways, Panel Engineering, SCADA Application engineering, CP16-2 Gateway Configuration, Conducting FAT, Testing and Commissioning at Site, Conducting SAT.	Breaker control, Report Generation, OLTC control, Alarms & Events logging	WinCC, Siemens	IEC 61850, Modbus, DNP3	2	220kV, 33kV and 11kV (2 switchboards)
4	ENMC and IMCS	Oil & Gas	Kalki's scope of work included system design, development, engineering, testing and commissioning of Smartstation - Substation Management software for KNPC's M85 and M86 substations. Scope includes local and centralised SCADA system for both station. Total No of IEDs is 640.	General network information, giving a quick overview of all main network components, General system information, giving a quick overview of all ENMC (sub) systems, Overview of distribution, down to high voltage feeder level, Information on control status, alarm status, object status, measurements, Reports and Trends,Events and Faults,Recorded Transients and Disturbance data	Ge Fanuc iFIX 4.0	Modbus	3	3.3KV and 440V system
5	DAS for GC9 & GC10	Oil & Gas	Kalki's scope of work included system design, development, engineering, testing and commissioning of Smartstation - Substation Management software at site.	Monitoring, recording and storage of switchgear operation and parameters, Circuit breaker control Bus bar animation,Collection of fault data, Automated disturbance downloading,Disturbance analysis, Printing of stored parameters, Logging of events, Energy reporting for 11KV, 3.3KV and 440V switchboards	Ge Fanuc iFIX 4.0	Modbus	2	11 KV, 3.3KV and 440V
6	DAS for Sabriyah	Oil & Gas	Kalki's scope of work included system design, development, engineering, testing and commissioning of Smartstation - Substation Management software at site.	Monitoring, recording and storage of switchgear operation and parameters, Circuit breaker control Bus bar animation,Collection of fault data, Automated disturbance downloading,Disturbance analysis, Printing of stored parameters, Logging of events, Energy reporting for 11KV and 440V switchboards	Ge Fanuc iFIX 4.5	Modbus	1	11 KV and 440V
7	DAS for GC-24	Oil & Gas	Kalki's scope of work included system design, development, engineering, testing and commissioning of Smartstation - Substation Management software at site.	Monitoring, recording and storage of switchgear operation and parameters, Circuit breaker control Bus bar animation,Collection of fault data, Automated disturbance downloading,Disturbance analysis, Printing of stored parameters, Logging of events, Energy reporting for 11KV, 3.3KV and 440V switchboards	Ge Fanuc iFIX 4.5	Modbus	1	11 KV, 3.3KV and 440V
8	DAS for Magwa Substation	Oil & Gas	Kalki's scope of work included system design, development, engineering, testing and commissioning of Smartstation - Substation Management software at site.	Monitoring, recording and storage of switchgear operation and parameters, Circuit breaker control Bus bar animation,Collection of fault data, Automated disturbance downloading,Disturbance analysis, Printing of stored parameters, Logging of events, Energy reporting for 11KV and 440V switchboards	Ge Fanuc iFIX 4.5	Modbus	1	11 KV and 440V

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9	IEC 61850 SAS for a Leading Hydro Power Plant	Power	Design, Engineering, Preparation & Approval of Drawings/Documentation, Integration, Installation, Commissioning, and Testing of Complete Automation(including panels and other hardwares) System including, I/O list preparation, FDS (functional design specification document) preparation & approval, Schematic/Lay out drawing preparation and approval, database building, supply of items as listed below, MMI, FAT, SAT as per specification requirement	Monitoring Analog and Digital Parameters, Busbar Animation, Breaker Control, Alarms and Alarm History Display, Real Time and Historical Trending, Sequence of Events, Time Synchronization, Relay Parameterization, Reports, Fault and Disturbance analysis	Ge Fanuc iFIX 5.0	IEC 61850	1	11KV and 3.3KV
10	IEC 61850 SAS for a Leading Thermal Power Plant	Power	Design, Engineering, Preparation & Approval of Drawings/Documentation, Integration, Installation, Commissioning, and Testing of Complete Automation(including panels and other hardwares) System including, I/O list preparation, FDS (functional design specification document) preparation & approval, Schematic/Lay out drawing preparation and approval, database building, supply of items as listed below, MMI, FAT, SAT as per specification requirement	Monitoring Analog and Digital Parameters, Busbar Animation, Breaker Control, Alarms and Alarm History Display, Real Time and Historical Trending, Sequence of Events, Time Synchronization, Relay Parameterization, Reports, Fault and Disturbance analysis	Wonderware 10.0	IEC 61850	1	11KV and 3.3KV
11	SAS for Raw Material Handling Plant, VSP	Metal	Supply of CP16-2 gateways, Panel Engineering, SCADA Application engineering, CP16-2 Gateway Configuration, Conducting FAT, Testing and Commissioning at Site, Conducting SAT.	Breaker control, Report Generation, Alarms & Events logging	WinCC, Siemens	IEC 61850 Modbus	1	6.6KV
12	DAS for BSP	Metal	Supply of CP16-2 gateways, Panel Engineering, SCADA Application engineering, CP16-2 Gateway Configuration, Conducting FAT, Testing and Commissioning at Site, Conducting SAT.	Breaker control, Report Generation, Alarms & Events logging	WinCC, Siemens	IEC 61850	1 (5 Sections)	6.6KV
13	Scada for Powergrid	Power	Integration, Installation, Commissioning, and Testing of Scada system	Breaker control, Report Generation, Alarms & Events logging,Trends,PLCC communication,LDC communication	MicroSCADA, ABB	IEC 101	4	400/220 kv
14	SAS for IOCL, Mathura	Oil & Gas	Kalki's scope of work included system design,Scada development, engineering, testing and commissioning	Breaker control, Report Generation, Alarms & Events logging,Trends	MicroSCADA, ABB	Lon, Modbus	5	11 KV, 6.6 KV and 440V
15	SAS for TNEB	Power	Kalki's scope of work included system design,Scada development, engineering, commissioning and testing	Breaker control, Report Generation, Alarms & Events logging,Trends,PLCC communication,LDC communication	FactoryLink	IEC 61850	5	11 KV and 440V
16	SAS for Karama	Power	Kalki's scope of work included system design,Scada development, engineering, commissioning and testing	Breaker control, Report Generation, Alarms & Events logging,Trends,PLCC communication,NCC and DCC communication	SicamPAS	IEC 61850 IEC 101,103 and 104	8	11 KV and 440V
17	SAS for Reliance Jamnagar	Oil & Gas	Kalki's scope of work included system design,Scada development, engineering, commissioning and testing	Breaker control, Report Generation, Alarms & Events logging,Trends	WinCC, Siemens	IEC 61850	1	33 KV and 220 KV
18	Power Management System	Petrochemical	Application Development,HMI,FAT,Commissioning,SAT	Fast Load Shedding,Electrical SCADA	ABB Advant SCADA/PPA,AC-450,MP SCADA	Control Net,MMS,OPC	18	220KV
19	Power Management System	Cements	Application Development,HMI,FAT,Commissioning,SAT	Fast Load Shedding,Electrical SCADA	ABB PPA,AC-450 controller	Control Net,MMS,OPC		
20	Power Management System	Refinery	Application Development,HMI,FAT,Commissioning,SAT	Fast Load Shedding,Under frequency,Overload Load shedding,Load Sharing, Synchronization,Electrical SCADA	ABB Advant SCADA	Control Net,MMS,OPC		

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21	Power Management System(PMS)	Gas	Application Development,HMI,FAT,Commissioning,SAT	Fast Load Shedding,Under frequency,Overload Load shedding,Load Sharing, Synchronization,Electrical SCADA	ABB 800XA,AC 800M Controller	Control Net,MMS,OPC		
22	Power Management System(PMS)	Petroleum	Application Development,HMI,FAT,Commissioning,SAT	Fast Load Shedding,Under frequency,Overload Load shedding,Load Sharing, Synchronization,Electrical SCADA	ABB 800XA,AC 800M Controller	Control Net,MMS,OPC		
23	Power Management System(PMS)	Cements	Application Development,HMI,FAT,Commissioning,SAT	Fast Load Shedding,Under frequency,Overload Load shedding,Load Sharing, Synchronization,Electrical SCADA	ABB 800XA,AC 800M Controller	Control Net,MMS,OPC		
24	Composite Islanding load Management system(CILMS)	Metals, Aluminum	Application Development,HMI,FAT,Commissioning,SAT	Fast Load Shedding,Under frequency,Overload Load shedding,Load Sharing, Synchronization,Generator Shedding Electrical SCADA	ABB 800XA,AC 800M Controller	Control Net,MMS,OPC		
25	Integrated Load Management System(ILMS)	Metals, Aluminum	Application Development,HMI,FAT,Commissioning,SAT	Fast Load Shedding,Under frequency,Overload Load shedding,Load Sharing, Synchronization,Generator Shedding,Electrical SCADA	ABB 800XA,AC 800M Controller	Control Net,MMS,OPC		
26	Power Management System(PMS)	Metals, Aluminum	Application Development,HMI,FAT,Commissioning,SAT	Fast Load Shedding,Under frequency,Overload Load shedding,Load Sharing, Synchronization,Generator Shedding,Electrical SCADA	ABB 800XA,AC 800M Controller	Control Net,MMS,OPC		
27	Power Management System(PMS)	Metals, Aluminum	Application Development,HMI,FAT,Commissioning,SAT	Fast Load Shedding,Under frequency,Overload Load shedding,Load Sharing, Synchronization,Generator Shedding,Electrical SCADA	ABB 800XA,AC 800M Controller	Control Net,MMS,OPC		
28	Power Management System(PMS)	Refinery	Application Development,HMI,FAT,Commissioning,SAT	Electrical SCADA	ABB 800XA,AC 800M Controller	Control Net,MMS,OPC		
29	Power Management System(PMS)	Refinery	Application Development,HMI,FAT,Commissioning,SAT	Fast Load Shedding,Under frequency,Overload Load shedding,Load Sharing, Synchronization,Electrical SCADA	ABB 800XA,AC 800M Controller	Control Net,MMS,OPC		
30	Electrical Control System(ECS)	Refinery	Panel Design and Engineering,Application Development,HMI,FAT,Commissioning,SAT	Fast Load Shedding,Manual Load Shedding,Overload Load shedding, Test Load Shedding,Circuit breaker control and Electrical SCADA	Step-7 S7-400H Controller, Wincc HMI	Profibus,OPC,IEC-104,Modbus TCP	14	11KV, 6.6KV and 415V
31	Electrical Control System(ECS)	Refinery	Panel Design and Engineering,,Application Development,HMI,FAT,Commissioning,SAT	Fast Load Shedding,Under frequency,Overload Load shedding,Manual Load shedding, Load Sharing, Synchronization,Capacitor Bank Switching, Maximum Demand Based Load shedding, Electrical SCADA	WinCC HMI	Profibus,OPC,IEC-104,Modbus TCP, IEC 103, Modbus RTU	8	220KV, 33KV, 11KV, 6.6KV, 0.415KV
32	Power Management System(PMS)	Manufacturing	Panel Design and Engineering,Application Development,HMI,FAT,Commissioning,SAT	Load Shedding,Load Sharing,Mode management, Synchronization,Under frequency load shedding,OLTC control	WinCC HMI	Profibus,OPC,IEC-104,Modbus TCP		