

The FIC engineering team is comprised of industry professionals with decades of experience. Based on specific project requirements, engineering deliverables are created that range from basic cost-effective design to complex detailed design. Engineering resources are flexible to meet the needs of the client.

ELECTRICAL SYSTEMS

- Design Philosophy
- Studies & Reports (Power, Earthing and Lightning Protection, Lighting)
- Sizing Calculations (UPS, Transformer, Cables)
- Datasheets, Specifications (Electrical Rooms, AC/DC UPS, LV/HV Switchgear, Distribution Boards, Transformers, Bulks)
- Material Take-Offs
- Schedules and Lists (Cables, Relay protection, Load List, Distribution Boards, Equipment)
- Layouts (Equipment, Cable Tray, Cable Routing, Lighting and Small Power, MCT, Earthing, and Lightning Protection)
- Single Line Diagrams (HV/LV Switchboard, Distribution Boards, AC/DC UPS, Small Power)
- Interconnection Diagrams
- Schematics (MV/LV, MCC, Power Distribution Boards Interconnection)
- Installation Detail Drawing

INSTRUMENTATION & CONTROL SYSTEMS

- System Design (ICSS, SIS, PCS, ESD, FGS, SCADA)
- Architecture Dwg's (ICSS, SIS, PCS, ESD, FGS, SCADA)
- Studies & Reports (SIL, HAZOP, RAM)
- Functional Design Specifications
- Specifications (ICSS, SIS, PCS, ESD, FGS, SCADA, Interfaces, Cables, Bulks)
- Datasheets
- Schedules and Lists (Cables, I/O, Modbus, Equipment)
- Layouts (MCT, Junction boxes, equipment, instrument, Hazardous Area, MCT)
- Control Narrative (ICSS, SIS, PCS, ESD, FGS, SCADA)
- Cause & Effect Charts
- ESD Logic diagram
- Loop Drawings
- Typical Installation Drawing
- Wiring & Interconnection
- Instrument, Control valve, PSV, Flowmeter sizing

TELECOMMUNICATION SYSTEMS

- Specifications (PAGA, ICT, LAN, CCTV, VOIP, SMS)
- Architecture Drawings (PAGA, ICT, CCTV, SMS)
- Calculation Sheets and configuration tables
- Schedules and Lists (Cables, Equipment)
- Layouts (PAGA, VOIP, ICT, CCTV, SMS, ACS)
- Cause & Effect Charts
- Loop and tie-in Drawings
- Typical Installation Drawing
- Wiring & Interconnection
- Studies & Reports (Noise coverage)



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