

Providing 360°
Electrical
Services



Company Profile

CRP



CRP Control Engineers

ISO 9001 : 2015 Certified Company

About

Our Company

Since 1992, we have been providing a full spectrum of electrical services to commercial, industrial and residential clients. Our team of experienced engineers & technicians have the knowledge and expertise to handle any electrical project, big or small. We use the latest tools and equipment to ensure that our work is of the highest quality, and we are committed to providing our clients with exceptional customer service. At CRP Control Engineers, we always adhere to the highest safety standards and regulations, and we prioritize the safety of our clients and their property above all else.

Our Compliances

- ✓ Contractor License
- ✓ ISO 9001:2015 Certified
- ✓ PF
- ✓ ESIC
- ✓ Workmen Compensation Policy
- ✓ CGL Policy

Service

Overview



We Manufacture >>

- ❑ Power Control Centre
- ❑ Motor Control Centre
- ❑ Lighting Distribution Panel
- ❑ Power Distribution Panel
- ❑ DG Synchronization Panels
- ❑ VFD Panels
- ❑ APFC Panels
- ❑ PLC Based Power Panels
- ❑ Bus Ducts



Products >>

- | | |
|--------------------------------|--------------------------------------|
| ❑ Transformers | ❑ Voltage Stabilizers |
| ❑ Ring Main Unit / HT Panels | ❑ Cables & Wires |
| ❑ Meters | ❑ Jointing Kits |
| ❑ Switchgears | ❑ Cable Gland & Lugs |
| ❑ Ladder/Perforated Cable Tray | ❑ GI / Copper Earthing Sets & Strips |
| ❑ Changeover Switches | ❑ LED Lighting Fittings |
| ❑ Power Capacitors | ❑ Transformer Oil |

Shutdown Services >>

- ❑ Panel Servicing
- ❑ Transformer Servicing
- ❑ HT Panel/RMU Servicing
- ❑ Routine Testing of Transformer as per IS
- ❑ Relay Testing by Primary/Secondary Injection
- ❑ Sandwiched type Bus duct/ Riser Servicing



Thermography

- ❑ Thermography of HT/LT Panels/Dbs/Transformers/ Switchyard
- ❑ Thermography of Solar Plants
- ❑ Thermography of steam pipes, cable trays, etc.
- ❑ Predictive maintenance and achieving conservation of energy by regular thermography.



Online Earth Resistance Checkup

- ❑ Quick and precise earth resistance measurements by online Fluke Earth ground testers.
- ❑ Finding out leakages in electrical systems.
- ❑ Soil resistivity measurements.



Calibration Services

- ❑ Online Calibration of Multifunction/Energy Meter/Ammeter/Voltmeter.
- ❑ In online calibration, CT faults, wiring faults are also captured.
- ❑ No shutdown required for calibration of meter.
- ❑ Calibration of Pressure Gauge, Temperature Gauge, Water Meters.



Power Quality & Harmonic Analysis



Power Quality monitoring in compliance with EN 50160 at Main Incomer. Power Quality monitoring at UPS input / output
The above includes logging of power and P.Q. parameters such as:

RAW POWER

- ❑ KW, KVA, KVAR, PF and DPF
- ❑ Harmonics in voltages and currents
- ❑ Dips, swells, rapid changes in voltages
- ❑ Imbalance in supply voltages
- ❑ Power frequency trends
- ❑ Transients

CONDITIONED POWER

- ❑ Crest factor of voltages
- ❑ Output voltage regulation
- ❑ Monitoring DPF trend
- ❑ Recording Noise in voltage

Oil Filtration

Oil Filtration is used to enhance the insulation properties of oil and enhance the life of transformers.



Loop Impedance & ELCB Test

- Loop Impedance Test
- RCD Testing from 10mA to 1000mA
- Auto RCD Testing
- No-Trip Loop Testing



Portable Appliance Testing

- PAT test is a routine inspection of portable electrical appliance to check they are safe to use. Its purpose is to prevent electrical accidents at workplace.
- PAT test includes visual inspection, operation test, earth continuity, lead polarity, insulation resistance, alternative leakage, RCD test, flash test & microwave leakage test.



Load Testing

- Load testing of UPS
- Load testing of DG sets
- Load testing of Transformers
- Load testing of LT panels.
- Load banks available from 20 kW to 2000kW



Licensed Electrical Contractor

- Registered with Tata/Adani/BEST/MSEDCL
- Annual Electricity Inspection of HT/LT Installations
- DG return submission
- New installations, Transformer/DG approvals
- Electricity Duty Refund and Exemptions
- Fire NOC

66 KV Switchyard



Other Services

- ❑ Consultant Engineering
- ❑ Installation Testing and Commissioning Of Transformers.
- ❑ Installation Testing and Commissioning Of RMU /HT & LT Panels, DG Sets, Busducts.
- ❑ Installation Of Cable Trays And Cables.
- ❑ Chemical Earthings.
- ❑ Laying Of HT XLPE Cable And Termination Of HT Cables.
- ❑ Transformer / DG / Panel Painting.



IoT Systems

- ❑ IoT based energy monitoring.
- ❑ IoT based transformer winding/oil temperature monitoring.
- ❑ IoT based HT/LT panel monitoring system.



Fire Sniper System

It uses linear detection tubing which is installed throughout the panels and cableways. It quickly and accurately detects fire and suppresses it before it can damage adjacent components.

Fk5112 clean agent gas is used as an extinguishing media with characteristics such as:

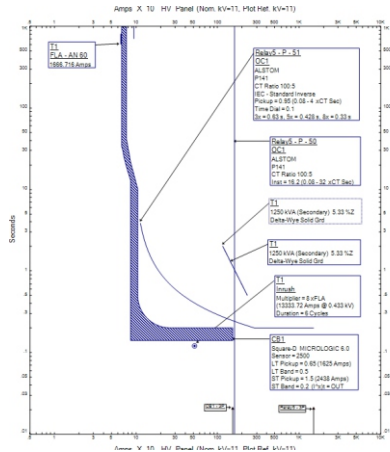
- ❑ Zero ozone depletion potential
- ❑ Low global warming potential
- ❑ Five - day atmospheric lifetime
- ❑ Safe for people and animals
- ❑ Electrical non - conductive



Arc Flash / Short Circuit / Relay Coordination

- ❑ Load Flow Analysis by ETAP software
- ❑ Arc Flash Analysis by ETAP Software
- ❑ Short Circuit Analysis by ETAP Software
- ❑ Relay Coordination by ETAP Software

DANGER Flash & Shock Hazard with Covers or Doors Open Appropriate PPE Required		
Flash Protection		Shock Protection 415 VAC
Incident Energy (cal/cm ²) 50.6 Working Distance 45.72 cm Arc Flash Boundary 2.97 m	Shock Hazard when covers removed Limited Approach Boundary 1.07 m Restricted Approach Boundary 0.30 m	
Exceeds Max. PPE Arc Rating		PPE Glove Class 00 V-Rating 500 VAC
Equipment CB 77 - Incomer Equipment Name Isolation Panel, Ground Floor	Source Protective Device CB 76 - HI Panel Ground Floor Incomer Breaker	
Contract # _____ Engineer SWAPNIL MORE Date 19-12-2019	Arc Flash Analysis Conducted By: CRP Control Engineers ISO 9001 : 2015 Certified Company	
Changes in equipment settings or system configuration will invalidate the calculated values and PPE requirements which may result in a hazardous condition.		



Audits

- Fire
- Electrical
- Energy
- Risk
- IST

- ❑ Design Adequacy of the Installation
- ❑ Power Distribution & General Installation Review
- ❑ Review of Electrical & Fire System Safety
- ❑ Electrical Energy Bill Monitoring
- ❑ Reporting Diu- Diligence on electrical & Fire System
- ❑ Review of Standby & Redundancy
- ❑ Scope for Improvements
- ❑ Scope of Energy Saving/ PF Incentives & Payback Period
- ❑ Integrated System Test - Overall testing of systems present in the facility and their dependency on each other.
- ❑ Energy efficiency of HVAC/Boilers
- ❑ Conservation of Energy



Lightning Risk Assessment

- ❑ Lightning Risk Assessment
- ❑ Lightning Protection System Audit
- ❑ Lightning Arrester Earth Testing
- ❑ SITC of Lightning Protection System
- ❑ SITC of Surge Protection System



Contact Us

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