

Providing 360°  
Electrical  
Services



Company Profile



**CRP Control Engineers**

***ISO 9001 : 2015 Certified Company***

# About Our Company

At CRP Control Engineers, we aim to solve your electrical issues by providing 360 degree electrical services. We ensure that our clients are 100% satisfied with the services our company provides.

We are always working towards adapting to the changing technology and providing our clients with the best suitable solution.



## 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

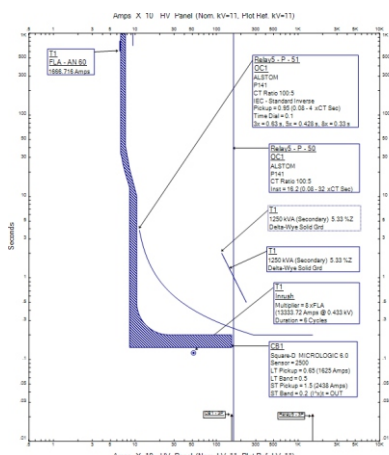




## Arc Flash / Short Circuit / Relay Coordination

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

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



## 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



## Lighting Audit

Lighting Audit is to save energy and to give better illumination.



# Contact Us

## Office

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## Works

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## Website

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