



## TESTING, COMMISSIONING, MAINTENANCE & CONSTRUCTION

Techcorp services provides testing and commissioning of new electrical install's and preventive maintenance of new and existing electrical assets. We aim to provide our customers with a quality & personal service at a competitive rate, ensuring our clients expectations are met above and beyond. We pride ourselves on delivering a high quality personal service ensuring the same personal return to site every time.

Techcorp services has the resources and personnel to carry out maintenance, Installation and commissioning on following assets;

- HV & LV Switchboards Installation
- HV Switch-yards Installation
- Secondary Injection of Protection Relays
- Calibration of Transducers
- Primary Injection of Current Transformers
- Insulation Resistance Testing
- Hipot & Busbar Testing
- Earth Grid Testing
- Contact Resistance Testing
- High End Transformer Testing
- Cable Testing, Jointing and Termination
- Automatic Voltage Regulator Testing
- Circuit Breaker Testing
- Thermographics
- Insulating Oil Testing and Analysis
- Multimeter Calibration & HV PPE Testing
- Arc Flash Studies & Assessment



## OUR TESTING AND COMMISSIONING SERVICES INCLUDE THE FOLLOWING (BUT ARE NOT LIMITED TO)

|                                    |  |                                     |  |
|------------------------------------|--|-------------------------------------|--|
| <b>Protection Relay Testing</b>    | <ul style="list-style-type: none"><li>• Software &amp; firmware programming</li><li>• Settings &amp; secondary injection</li><li>• Protection scheme testing</li></ul>                     | <b>Earth Testing</b>                | <ul style="list-style-type: none"><li>• Grid testing</li><li>• Earth stake testing</li><li>• Step &amp; touch potential testing</li><li>• Earth potential rise testing</li></ul>   |
| <b>Current Transformer Testing</b> | <ul style="list-style-type: none"><li>• Primary injection</li><li>• Ratio checks</li><li>• Magnetising curves</li><li>• Burden</li><li>• Polarity checks</li><li>• DC resistance</li></ul> | <b>Contact Resistance</b>           | <ul style="list-style-type: none"><li>• Circuit breakers</li><li>• Earth switches</li><li>• Isolations</li><li>• Connections</li></ul>   |
| <b>Voltage Transformers</b>        | <ul style="list-style-type: none"><li>• Polarity checks</li><li>• Insulation resistance</li><li>• Ratio checks</li></ul>   | <b>Power Transformers</b>           | <ul style="list-style-type: none"><li>• Winding ratio checks</li><li>• Winding resistance tests</li><li>• Insulation resistance</li><li>• Dielectric loss angle testing</li><li>• Oil analysis testing (DGA)</li><li>• Dielectric response analysis</li><li>• Sweep frequency analysis</li></ul> |
| <b>Insulation Resistance Tests</b> | <ul style="list-style-type: none"><li>• Polarisation index</li><li>• Insulation resistance</li></ul>   | <b>Switchboard &amp; Switchgear</b> | <ul style="list-style-type: none"><li>• Ductor contact resistance tests</li><li>• Insulation resistance</li><li>• Partial discharge testing</li><li>• Hipot/withstand testing</li><li>• Circuit breaker timing testing</li></ul>   |