



Vanguard Projects (Pty) Ltd

MEDIUM & HIGH VOLTAGE

We offer a full holistic project management & execution in terms of the full electrical vertical integration

1. Preventive Maintenance

- Ensuring that parts still in good conditions are kept in this state
- Replacement & refurbishment of certain parts.
- Condition monitoring
- Maintenance schedules
- Full Transparency

2. Repair Service

- On-site investigation
- Emergency repair call out services
- Skilled repair solution development, repairs include parts and materials by expert field service personnel
- Workshop repair facility

3. Emergency Service

- On-call duty & MV/HV Specialist assistance.
- Fault finding
- Strategic spare parts solutions.

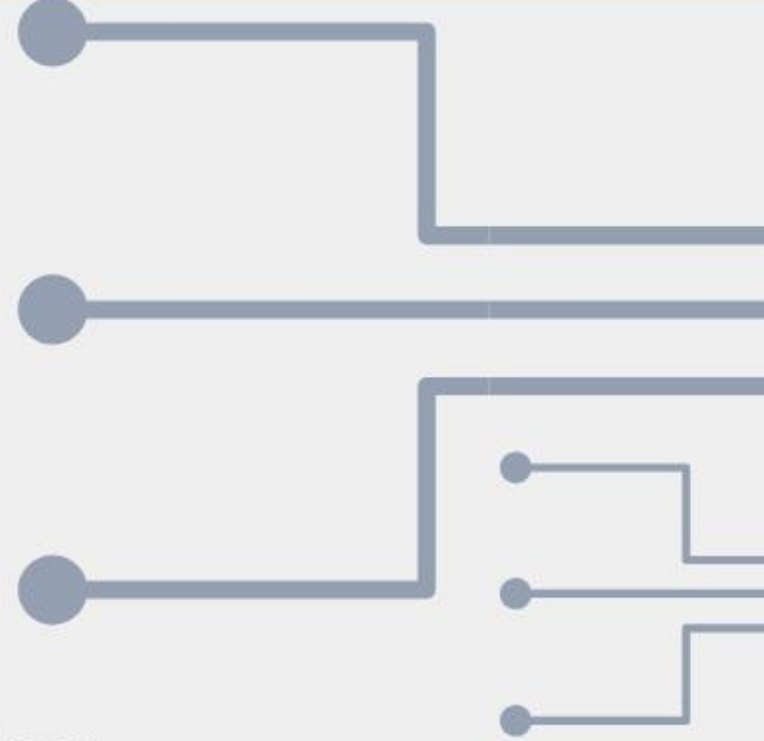
4. Refurbishment

- Overhaul of your medium-voltage devices
- Refurbishment of the following:
 - Electrical Substations
 - AC Circuit Breakers,
 - All Transformers,
 - MV Switchgear,
 - DC High Speed Circuit Breakers,
 - Rectifiers,
 - Positive Isolators,
 - Control Panels and
 - Protection Schemes.



5. Upgrade & Diagnostics

- Replacement of VTs and CTs.
- Replacement of cables compartments and components.
- Dynamic analysis of equipment conditions.
- Monitoring circuit breakers for service reliability, tripping and closing functionalities and main contact wear.
- Testing, design, modeling, supply, installation and commissioning of MV & HV equipment.



Listing

MEDIUM VOLTAGE:

- MV Reticulation design and implementation.
- MV switchgear/protection testing, and repair - SF6, Oil & Vacuum.
- MV switchgear/protection supply, maintenance and reporting.
- Reticulation automation & Protection monitoring.
- Cable testing (VLF).

SWITCHGEAR

- Switchgear maintenance and faultfinding
- Switchgear 1st, 2nd and 3rd line maintenance
- Switchgear spring adjustment and operation
- Testing of switchgear-opening and closing
- Switchgear - SF6; vacuum and oil types

CABLES

- Fault finding on HV & LV cables and repairs
- Sub-station maintenance and inspections
- General LV cable and DB box repair
- Supply all HV and LV cable to SABS standards.
- Termination and jointing on HV & LT cable
- Low voltage reticulation, installation in housing, buildings and factories.
- Issuing of COC = SANS 10142-2 certificates

- Energy monitoring and integration with plant PLC or DCS.
- BTU supplies.
- Energy efficiency and optimization studies on main feeds, i.e. demand side management.

Feel free to consult with our Vanguard representatives for any further LV, Automation & Telemetry related services.



VANGARD PROJECTS
PROCESS CONTROL SOLUTIONS

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