



Signed-off Scope Of Work

Title: Installation, inspection, maintenance and cleaning services of DC equipment at various Coal-Fired Power Stations

Document type:

Signed-off scope of work

Signed-off by:

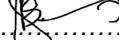
Sign 

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Date 24/05/2023

Supervising Manager

Approved by:

Sign 

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Date 24/05/2023

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Date 24/05/2023

Service Manager

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Description of the *service*

1.1 Executive overview

- The Scope of Work entails the provision of installation, inspection, maintenance and cleaning services of DC equipment for Eskom's coal fired Power Stations (Medupi, Komati, Matla, Kriel, Duvha, Kusile, Matimba, Camden, Arnot, Hendrina and Centrally in Witbank) with their associated rooms and cabinets.

1.2 *Employer's requirements for the service*

The activities are as follow:

SAFETY

- The Contractor shall comply with all Safety, Health and Environmental regulations as per the OHSACT.
- The Contractor will familiarize himself with the plant and the dangers/hazards of obstacles in the vicinity, as Eskom, will not be liable for any occurrence that can lead to a compensation event.
- The Contractor will ensure that all personnel will be trained and authorised under Eskom's Plant Safety Regulations as soon as practically possible.
- A Work Permit Risk Assessment Form must be completed before each task.
- An Application for Isolation Permit must be requested at least one day in advance.
- All tools and electrical equipment must be inspected regularly and inspection sheets filed as per the OHSACT requirements.
- All PPE to be provided by Contractor and must be Eskom / SABS approved.
- All PPE must also be inspected on a regular basis to ensure it is still safe for use.
- Good housekeeping must be upheld at all times.
- The Contractor must clean and remove all debris from the work area after completion of a task.

ROUTINE MAINTENANCE

- This includes Scheduled weekly Preventative, Statutory & Corrective Maintenance, including any planned/un-planned maintenance activities, which may arise.
- Maintenance services must be completed in the specified time, by the Contractor as required and related paperwork must be signed off; otherwise it will be defined as rework.
- The Employers Supervisor will do the QC on the PM's.
- Daily feedback must be given to the Employer's Supervisor during the morning section meeting.
- The Contractor must perform all maintenance defined activities.
- The Employer will give assistance when necessary but the Contractor will still be responsible to complete the work.
- Under emergency situations, the Employers Supervisor can give instruction to the Contractor to do work on any part of the plant.

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MAINTENANCE TASKS

- **Battery maintenance (monthly)**
 - Record cell voltages on all Flooded Vented Lead Acid, NICAD and Valve Regulated Lead Acid batteries
 - Record cell Specific Gravities on all lead acid batteries
 - Transport water from the Chemical Plant and top up cells with deionised water
 - Clean all the cells in each battery bank
 - Clean all battery rooms
 - Check proper operation of shower in battery room

- **Battery maintenance (annually)**
 - Perform torque check on all cell connections
 - Clean off all corrosion build-up on cell posts and connections
 - Apply petroleum jelly to all cell connections

- **Battery discharge tests**
 - Assist with setting up test equipment
 - Record open circuit voltages and SG's (SG's on Lead Acid cells only)
 - Record hourly cell voltage readings
 - Record end cell voltages and SG's, where applicable
 - Record recharge readings on all cells
 - Remove test equipment from plant and return to store
 - Download all readings to PC
 - Compile report on test results

- **Installations of all DC equipment**
 - Ensure redundant equipment is isolated and dead
 - Remove all cables from equipment
 - Remove old equipment from equipment rooms
 - Pack for removal from site
 - Install new equipment in identified place
 - Assist with all required cable work

OUTAGES / PLANNED MAINTENANCE

- Rates during outage activities will be the same as for normal work.
- Normal working hours during outages will be applied to availability of plant
- Contractor to be available for planned and outage overtime, on request.
- Assist technical staff
- Clean panels
- Do tightness checks, on connections
- Clean work areas, on completion of tasks

CONTRACTOR AND SERVICE MANAGER.

- The Service Manager will verify that the work performed as per Assessment is in fact a true reflection of work performed. Supporting documentation will be required from the Contractor.

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- Cost for additional training required due to staff turn-over will be recovered from the Contractor.
- Cost for re-training and lost time of personnel due to failure to pass evaluation test will be recovered from Contractor.
- Time keeping will be done via time keeping system supplied by contractor. The report will be sent to the Service manager on a weekly basis.
- During any plant upgrade or refurbishment the Contractor remains responsible for the contracted plant area. It is a requirement that the Contractor will form part of the commissioning and testing of the plant and new systems during the projects.
- The Contractor personnel must always be in possession of their Eskom identification card and present it on request when on Eskom plant.
- All services must be done according to the Eskom standards and procedures
- The Contractor is responsible for Work week management and this forms part of the Contractors Performance.
- The Contractor is responsible for Overtime management that forms part of the Contractors Performance.

MINIMUM REQUIREMENTS OF PEOPLE EMPLOYED

The *Contractor* must submit detailed Curriculum Vitae's, highlighting any experience related to the works, certified copies of qualifications and/or certificates of its qualified staff prior to work commencing on site.

➤ **Technical Official:**

Must have matric certificate.

Must have a valid driver's license

GENERAL

- *The Contractor* must ensure that adequate resources are available at all times to provide plant reliability and availability.
- *The Contractor* must provide proof of experience and qualifications of all personnel.
- All Assessments must be signed off and accompanied with all support documentation by both the Contractor and Service Manager, by the 25th of each month