



**FOSKOR (PTY) LTD**

**TECHNICAL SCOPE OF REQUIREMENTS**

**FOR THE ELECTRICAL WORKS (RE-WIRING) OF SELATI HALL PROJECT.**

<b>DOCUMENT- AND PROJECT APPROVAL</b>		
<b>FOSKOR OFFICIAL</b>	<b>SIGNATURE</b>	<b>DATE</b>
Approved by: KGOTHATSO SEKGOBELA ENGINEER ELECTRICAL SERVICES TECHNICAL SUPPORT SERVICES		10/09/2025

Foskor (Pty) Limited  
27 Selati Road / P.O Box 1  
Phalaborwa  
1390

## SCOPE OF WORK

### RFP:

**Description: ELECTRICAL WORKS FOR SELATI HALL REFURBISHMENT PROJECT.**

### 1. PRE-QUALIFICATION CRITERIA

CIDB requirement is a 3EP/EB grading or higher.

### 2. INVITATION

This document prescribes the requirements for the Supply, installation, and commissioning of the electrical works for the Selati Hall Project.

Pre-qualification criteria **MUST** be met to be considered for the technical and commercial evaluation of this tender.

### 3. SCOPE BACKGROUND

The scope of the project is for the Electrical installations and total Re-wiring of Selati Hall

### 4. COMPANY BACKGROUND

Foskor is one of the world's largest producers of phosphate rock (concentrate) and phosphoric acid. It is one of the world's few vertically integrated producers of phosphoric acid and is the second-largest supplier to India, the world's largest consumer of phosphoric acid.

The Company owns and mines phosphate resources and beneficiates the mined material to produce a phosphate concentrate at Phalaborwa, in the Limpopo Province of South Africa. The phosphate concentrate is sold locally and transported to the Richards Bay plant on the coast of Kwa-Zulu Natal to produce phosphoric acid, sulphuric acid and granular fertilisers MAP and DAP from phosphoric acid and is the leading supplier of fertilisers to South Africa. In all about 95% of the phosphoric acid is exported and the granular sales are divided between exports and local markets. Since 1951 Foskor has supplied more than 95% of South Africa's fertiliser requirements.

### 5. DEFINITIONS AND ABBREVIATIONS

BOQ – Bill of Quantities

BRA – Baseline Risk Assessment

MHSA – Mine Health and Safety Act

NDT – Non-destructive Test

COC	–	Certificate of Compliance	OH&S	–	Occupational Health and Safety
COP	–	Code of Practice	OHC	–	Over-Head Crane
CTD	–	Critical task Descriptions	PEE	–	Portable Electrical Equipment
DAP	–	Diammonium Phosphate	PPE	–	Personal Protective Equipment
DB	–	Distribution Boards	QA	–	Quality Assurance
DWA	–	Department of water affairs	QC	–	Quality Control
DWG	–	Drawing	QCP	–	Quality control Plan
ECO	–	Engineering Change Order	QMS	–	Quality Management System
HDG	–	Hot-Dip galvanizing	RFI	–	Request for Inspection
HIRA	–	Hazard Identification and Risk Assessment	ROPS	–	Rollover Protection System
IFC	–	Issued for Construction	SANS	–	South African National Standards
ISO	–	International Organization of Standardization	SHE	–	Safety, Health, Environment
LDV	–	Light Delivery Vehicle	SHERQ	–	Safety Health Environment Risk & Quality
MAP	–	Monoammonium phosphate	TMMS	–	Trackless Mobile Machines
MCOP	–	Mandator Code of Practice	WBS	–	Work-breakdown structure

## 6. SCOPE

### 6.1 Basic Requirement

This work entails the Re-Wiring of the Selati Hall o electrical infrastructure and Refurbishment.

- Obtain work permit
- All work includes all tools, labour, equipment, Transport, Supervision, Quality management, Project communication and management, etc

The work of this project covers the supply (with all the required cabling), manufacture, transport to Foskor mine in Phalaborwa, installation, testing, and commissioning of the complete electrical requirements as indicated below. The Contractor will also supply the COC as well as the Earthing and lightning protection certificates for the installation.

#### 6.1.2. Power supply installation

Electrical installation between the Municipality Kiosk and the main Isolator. All the required cables between the Municipality kiosk and the main Isolator. Manufacture, Supply, install, Commission and Earth an IP 65, 380V 50HZ, lightning and small power Distribution Boards. The DB should be square key lockable, designed with mild steel and canopy for indoor installations. DB to comply with section 23 of the Foskor GE-1 Rev 8 Specification as well as Specification EE12REV2. Wiring of all Distribution Boards and feeding all the DB inside the selati hall Main DB, DB1, DB2, DB3, DB4 and DB5, with complete protection.

Supply, installation, commisiioning and testing of socket outlets, slash switches, circuit breakers,

floodlights, highbay lights and 3 phase vactor plugs. To include different supply cables.

Note: cabinets for indoor DB shall be dust and vermin proof, rigidly constructed of folded and welded furniture grade sheet steel not less than 1.6mm thick and each equipped with two vertical stand off back straps drilled for wall fixing by bolts external to the cabinet.

### **6.1.3. Outside and inside lighting**

The scope for outside and inside section covers all the lighting requirements outside and inside of the Selati Hall premisses. This includes the kitchen, both male and female bathrooms and the Hall.

Note:

In general, for lighting requirements on this scope lighting solutions to provide the minimum illumination levels required to the areas as per Section 4.8.2 of COP 42. All lights to be of LED type. Lighting to be quoted for to comply with Section 23 of the Foskor GE-1 Rev 8 Specification. All cables to be included as part of the lighting offer.

In general, for the Lighting and Small Power Distribution Boards (DBs)

The supplier shall Design (where necessary), manufacture, supply, install and commission the Lighting and Small Power Distribution Boards with suitable for indoor installation (IP 65) and use in conditions exposed to vermin and dust.

The comprehensive load requirements for the DBs are to be determined by the supplier based on the loads to be supplied in the vicinity of the DB's. All lighting requirements to be catered for in the DBs' shall be informed by the area lighting solution.

DBs shall be square key lockable, designed with mild steel and a canopy for IP 65 outdoor installations.

DBs to be quoted for to comply with the Foskor Specification EE12REV2

Upon receipt of official order, the vendor shall hand over, for approval, prints of the proposed DB boards general arrangement and schematic drawings where necessary. No manufacturing is to proceed until such approval has been approved

### **6.1.4. DISTRIBUTION BOARD SPECIFICATION**

- a) Wiring shall be properly colour-coded, neatly dressed and strapped, and securely and properly connected to the respective terminals
- b) Neutral bars and earth bars shall be provided with enough screw terminal ways for the number of circuits in each board, including the spare ways allowed for.

- c) The bus bars must be rated for a current density of not less than 2Amp per mm<sup>2</sup>
- d) The internal arrangement of the distribution board shall be such as to permit easy access for cabling, inspection, and maintenance.
- e) The distribution board shall be folded and welded sheet metal, panel mounting, dust and damp protected to IP65 and vermin proof. Sheet steel shall be a minimum of 2.0mm thick.
- f) Hinged front doors shall be provided to completely enclose the board, shall be properly braced against buckling or bending and shall be provided with such seals as required to achieve the degree of protection called for above.
- g) All access doors are to be effectively and permanently earthed to the main panel enclosure of the switchgear, by means of a suitable braided copper earth strap, not less than 35mm<sup>2</sup>, crimped with lugs and bolted at each end to the door and enclosure.
- h) Hinges shall be manufactured from steel or brass. Die cast aluminum hinges may not be used
- i) Doors shall be equipped with durable padlockable door handles.
- j) Sheet metal parts shall be painted using epoxy powder and the exterior paint color shall be as per the Foskor specification. The interior chassis plate and parts shall be painted white.
- k) Each circuit breaker toggle shall be properly identified by means of traffolyte labels and in accordance with the load list provided
- l) The outside door of the board shall be fitted with a main label, made from white/black/white traffolyte and having 15mm high characters.
- m) All insulation used on electrical conductors/connectors and wiring shall be flame retardant types constructed of low toxicity and non-halogenated materials. The use of PVC is NOT acceptable.
- n) All DB's shall be furnished with CCG glands and shrouds for incoming and outgoing cables, sized to suit the cables sizes.
- o) All screws, bolts and nuts shall be hexagonal to ISO Metric, commercial standards; and shall be cadmium plated or stainless steel. Nuts protruding from exterior surfaces of the cubicles shall be domed, and chromium plated or made from stainless steel
- p) A durable frame, for the DB to be mounted on must be manufactured from an angel iron and protected against rust. The metal frame shall allow for the bottom entry installation of the cables
- q) All circuit breakers must be equipped with a 220V shunt for earth leakage protection trips. (Elsec)
- r) Circuits for supplying power to single phase 220V sockets outlets shall be grouped on their respective phase basbars, with each group connected to its corresponding main phase busbar by a single earth

leakage protection unit comprising a 20mA sensitivity leakage detector and a circuit breaker of suitable main rating. The earth leakage units shall comply with SABS standard 767.

- s) The Transformer protection VAA relay trips must be installed in series with the E/L protection on the main breaker 220V shunt trip.
- t) All design drawings, equipment list, specifications and documents shall be submitted to FOSKOR for approval prior to any work being carried out. A period of at least 2 (two) weeks shall be allowed for approval and discussion. All drawings shall be submitted in triplicate.
- u) The DB supply shall also include the supply of the general arrangement drawings, and the technical information of all equipment proposed for use in the form of pamphlets etc.

#### **6.1.5. Earthing and Lightning Protection**

Earthing of all loads and containers supplied with power shall be carried out in accordance with SANS 10292.

All cable glands shall form an efficient electrical connection between the cable armour and equipment or DB gland plates.

All earth conductors shall be of kwenanti -theft cable.

Any joints in earth conductors shall be by means of crimped ferrule and connections to equipment and structural steel shall be crimp-lugged and bolted

All cable racking, armouring and all other metal work connected with wiring (other than the current carrying parts) are to be bonded to earth at appropriate intervals.

Generally, one core of multi-core cables shall be used as the earth conductor unless otherwise specified

All luminaires and sockets outlets are to be earthed

Earthing conductors for (a) the containers and equipment and (b) the lightning protection shall be physically separate but the conductors/electrodes in the ground shall be bonded together

On completion of the installation contractor shall issue the following:

1. Lightning protection design
2. Earthing measurements
3. The Lightning protection system installation safety report, Annex A of SANS 10313:2018

#### **6.1.7. Certificates**

At the completion of all the installation, in addition to all the GA and schematic drawings of the Distribution Boards the contractor shall submit to Foskor the certificate of compliance (COC) for all installations as part of the project handover.

#### **6.1.8. Project cost and expenses:**

The contractor shall supply all engineering services, materials, labour, transport, supervision, and consumable materials, equipment, tools and every item of expense for the scope of work to be completed successfully unless otherwise stated taking the following into consideration.

#### 6.1.9. Disposal of refuse

The Contractor shall be responsible for disposal of refuse and waste generated by his staff daily. The site is to be kept clean, neat, and tidy, by complying with Foskop Waste Management COP.

#### 6.1.10. General requirements for commissioning

Commissioning or handover will be executed as per Foskop Procedures or as directed by the Engineer. Normally the Foskop Punch list and Hand over certificate will be used.

### 7. BATTERY LIMITS – INCLUSIONS AND EXCLUSIONS

List the boundaries in terms of equipment (Foskop plant specific). Up to where is it Foskop's responsibility and where/what is the contractor's responsibility.

WHO WILL SUPPLY THE FOLLOWING?					
N/A = NOT APPLICABLE C = CONTRACTOR FF = FOSKOR, FREE OF CHARGE FC = FOSKOR, AT COST TO CONTRACTOR					
1.Sanitary –		2.Transport		3.Electrical	
1.1 Water on site and toilet facilities / janitorial services	FF	2.1 Labour	C	3.1 Generators	C
1.2 Potable connection point	FF	2.2 Materials	C	3.2 Electrical Extensions	C
1.3 Connection to construction water supply	FF	2.3 Equipment	C	3.3 COC Site Establishment	C
1.4 Change rooms	FF	2.4 All TMMS	C	3.4 Temporary lighting	C
				3.5 Electrical connection point	C
				3.6 Connection to Electrical supply	FF
				3.7 Electric panel + distributing wiring	C
				3.8 Power for tools on site from existing Foskop electrical supply point (Welding plugs and 220v plugs)	FF
				Electrical and Instrumentation Installation	C
4. Quality –		5. Security		6. Lifting and Rigging	
4.1 Plan, Management, QA, QC	C	5.1 Site Security	C	6.1 All rigging equipment (Slings, Chain blocks, turlers, etc.	C
4.2 All quality test Civil, Paint, Mechanical, etc.	C	5.2 Foskop ID Card	C	6.2 Rigger	C

WHO WILL SUPPLY THE FOLLOWING?					
N/A = NOT APPLICABLE C = CONTRACTOR FF = FOSKOR, FREE OF CHARGE FC = FOSKOR, AT COST TO CONTRACTOR					
4.3 Sampling and laboratory testing	C			6.3 Mobile cranes	FF
7. Medicals -		8. Communication devices – All communication devices like laptops, computers, networks, radios, cellphones, etc.	C	9. PPE	
7.1 Entry and Exit	C			9.1 Supply, Issue, inspect and manage	C
7.2 First aid box at place of work	C				
10 Site Surveys	C	11. Safety File - FOSKOR will issue template	F	12 Training & Authorizations	
Construction Reference Levels and site surveys	C	Ensure file conform/ populate to FOSKOR standards	C	12.1 All Required Training	C
				12.2 Authorisation - As Per FOSKOR COP	FF
13. Site Establishment		14 Waste management on site		15 Painting - All Equipment and tools paint, labour, etc.	C
13.1 Site office/s with suitable facilities for daily “Green Area” meetings, and lunch area	C	14.1 Transport all waste to FOSKOR designated waste sites	C	All on-site touchups (snags) and painting	C
13.2 Site establishment space	FF				
16 Scaffolding		17 Labour		18. Compressed air	
16.1 Scaffolding Supply & Erect	FF	17.1 All labour as per Scope of Work to execute task including management	C	18.1 Sandblasting or flash blast	C
16.2 Scaffolds be managed by the Contractor	C			18.2 Compressor	C
16.3 Cherry Picker’s – only if and when available by pre booking	FF			18.3 Air for power tools - If available	FF



WHO WILL SUPPLY THE FOLLOWING?					
N/A = NOT APPLICABLE C = CONTRACTOR FF = FOSKOR, FREE OF CHARGE FC = FOSKOR, AT COST TO CONTRACTOR					
16.4 Cherry Picker's Driver– Trained and authorized driver	C				
<b>19 Fuel</b>		<b>20. Storage and inventory control</b>		<b>21 Consumables</b>	
19.1 Fuel Supply	C	20.1 Protective coverings/tarpaulins	C	21.1 Welding rods	C
19.2 Fuel storage	C	20.2 Storage area and inventory control	F	21.2 Bolts & Nuts	C
19.3 Fuel fire protection	C			21.3 Etc.	C
19.4 Refuelling	C				
<b>22 Tools &amp; Equipment</b>		<b>23 Certificates -</b>		<b>24 Training</b>	
22.1 All Portable Electrical Equipment	C	Supply All certificates as required		All required training and training manuals as required to ensure that Foskor can train its workforce and operate the plant / equipment safely	C
22.2 Hot Work Equip as per FOSKOR COP - Welding Machines, Gas Cutting, Grinding, Gauging, etc.	C			All manuals and related documents to be supplied to project Eng. and FOSKOR Drawing office for safe keeping	C
22.3 Tools as required to execute task	C				

#### **\*\*NOTE**

Foskor has made provision for the supply scaffolding free of charge the size and nature of the works. It is expected that arrangements will be communicated to the appointed Scaffolding contractor at least 3 days before requirement. Proof of request and arrangements and actual scaffolding installation for Scaffolding to be provided to Foskor on request

It should be noted that FOSKOR has an existing appointed and accredited scaffolding supplier

#### **7.1. AS BUILT DRAWINGS**

As built will be required in the event of any changes. Alterations to be clearly marked on the "For Construction" drawing and presented to the Engineer for approval.

### **8. QUALITY**

- The contractor must provide the necessary quality management systems and plans to ensure that the quality of his work complies with the requirements of this scope of work

- The contractor shall during all phases of construction comply with the Foskor approved Quality Assurance Plan
- The contractor shall be responsible for all the resources required for executing the Quality Management System including but not limited to, developing the Quality Assurance Plan & performing the Quality Control measures to ensure that the deliverables comply to the specifications & standards mentioned in the scope of work
- Any change requests / additional work resulting due to inadequate quality management system will be to the account of the contractor
- Foskor might appoint a third party for Quality Control Inspections
- The Contractor will have to provide an approved quality system for all work executed.
- This will include the following but is not limited to:
  - Quality plan
  - Quality compliance – Performance and reports
  - Quantity surveying
  - Quality Assurance
  - Quality Authorization matrix – part of Quality plan
  - Quality control
  - Quality administration. – All documents, checks, measurements, reports, variances, analysis, Corrective actions, etc. needs to be properly filed and available on request at any time. The file will require an index
  - Includes all test work, laboratories, Filing, etc.
  - Survey and survey verifications
  - Construction versus design - Any Deviations from the approved “Construction Drawings”
  - Quality communication – What needs to be reported to whom and at what frequency
- Foskor envisage a complete quality System driven by the Contractor and this system / plan will be approved by Foskor and the appointed designer (if applicable) before construction/fabrication will be started.
- Compliance to this plan will be measured and failure to adhere to the quality plan will result in the stopping of construction activities until concerns have been addressed. The cost for this delay will be for the contractor’s account.
- Foskor may appoint a third part to measure and control Foskor’s interest in the terms of quality in this contract and the contractor is expected to work in conjunction with this company
- Hold points will be discussed and finalized with the successful contractor based on the approved Quality plan

The Quality plan will only be compiled and signed off after the Method Statement and WBS have been compiled. Quality on Shutdown type tasks will be included in the Scope of Works, but the contractor will have to submit proof of an experienced quality assurer or relevant qualifications. IF the contractor does not have this it will be required that this service be hired in by the contractor at his cost.

- State any specifies hold points that is not negotiable here
- State any other quality that is applicable that is not in the “Parameters” section
- Method statement – the contractor must list all steps and actions required to complete the work as per the scope of work – typically includes the items listed below:
  - Key step and stages of the work required
  - Tools, Equipment, TMMS, etc.
  - Labour requirements, etc.
  - Spares, resources,
  - Safety requirements

WBS - **WBS** is a hierarchical and incremental decomposition of the project into phases, deliverables and work packages. It is a tree structure, which shows a subdivision of effort required to achieve an objective, for example a program, project, and contract.

This includes arrangements, tools, equipment labour, Tasks, Purchase, Quality, Communication, etc.

## 9. PROJECT DELIVERABLES

### 9.1. THE DELIVERABLES FOR THIS PROJECT INCLUDE:

As stipulated in the scope of work

### 9.2. CONSTRUCTION METHODOLOGY

- The proposed execution of the project is as follows – please take note that this can change and will be discussed in the kick off meeting once the successful bidder has been appointed.
- As per the contractor's execution plan.

## 10. DOCUMENTS/DRAWING ISSUED BY FOSKOR

Drawing or Document No	Title	Revision
<b>Note</b>	Please read the scope of work. Contractor to verify what is onsite.	

## 11. SAFETY

Contractor to refer to the full and updated Foskop COP's available:

- The contractor and subcontractors need to always comply with the Mine Health and Safety act. All Foskop COP's Policies and procedures needs to be adhered to.
- A contractor 2.9.2 to be permanently on site per shift.
- Medical, Induction, Foskop ID Card, etc. is approximately R800 per Person. Exit medicals need to be done at termination of contract.
- The Successful tenderer will be required to compile a Foskop Work permit and at least 2 weeks should be allocated for this. The contractor must provide the following appointed persons in terms of the MHSA: 2.6.1; 2.9.2 and Section 29(1) – SHE REP for the duration of the contract
- All vehicles and cranes and other TMM's to be inspected before entering Foskop Premises.
- All person competencies to be verified before being allowed to work on Foskop premises for a specific task.
- The contractor must compile a Safety File as per Foskop standard for all contractors and sub-contractors
- Site access will need to be controlled, and all persons must receive site specific induction before entering the site.

- Conduct inspections as per FOSKOR Safety System. Analyse data and trends and recommend preventative measures where required
- Ensure all authorizations are in place as per the FOSKOR Safety System. Arrangement with FOSKOR training to be done by the contractor to ensure that authorization and training is conducted. Arrange timeously.
- Ensure all workers competencies are available and have been validated.
- Ensure proper security, sign boards, fencing and barricading is in place on site where applicable
- The contractor shall in general comply with the FOSKOR General Engineering Specifications, COP's, latest revisions and all relevant regulations
- The contractor must complete a Baseline risk assessment (COP 26) before a work permit can be issued for the installation
- All contractors not in possession of a valid FOSKOR ID card have to complete the FOSKOR induction course and have to undergo a medical examination at the FOSKOR clinic for the contractor's account
- The contractor shall be responsible for coordinating and integrating his schedule and responsibilities with other FOSKOR appointed contract manager on site for this Scope of Work.
- All personnel operating mobile equipment including LDV's must have a FOSKOR driver's permit.
- All LDV's entering the mining red flag area and tailings dam area must have ROPS and FOPS and be authorised by the 2.13.1 to enter the respective area. FOSKOR approved and Specified PDS system must also be installed.
- All the required PPE and Safety Equipment are for the contractor's account.
- All contractors must ensure that:
  - His workers are issued with the correct personal protective equipment free of charge.
  - That the workers wear the PPE in accordance with the project area's requirements or as given by the contractor Supervisor.
  - Training is provided in the correct use of PPE to workers.
  - Daily inspections are done on PPE.
  - The registers will be complete at least monthly on findings on PPE. (All PPE must be kept in good condition)
- All providers of services need be informed of the following minimum training is applicable to all contractors (irrespective of the tasks or scope of work) that will enter FOSKOR Phalaborwa site with effect from 1 April 2014. This training is not presented by FOSKOR Training section and service providers must ensure that the training is sourced through accredited external training companies:
  - Basic health and safety principles
  - HIRA
  - First Aid Training
- All other training requirements must be aligned with the baseline risk assessment. Risks identified in the baseline risk assessment will guide the requirements for training. A summary of the training must be completed as well as status on required authorization as per FOSKOR COP's. with the exception of the minimum training requirement, all other training will be provided by the FOSKOR Training department and should be booked in advance.

**Note:** You need a FOSKOR Driving license and your vehicle needs to be inspected for Road worthiness before allowed inside the mine. You need an open pit license to drive in the mine

## 12. PERMIT TO WORK

Before any on-site work under this contract may commence, the appointed or successful contractor shall obtain from FOSKOR a FULL PERMIT TO WORK. The following guidelines are provided in order to assist the appointed contractor in obtaining a PERMIT TO WORK. (See FOSKOR COP 28, Permit to work and COP 25, Contractor control for details):

- 1) The FULL PERMIT TO WORK can be obtained from and on completion returned to the Legal Administrator, Foskor Safety department.
- 2) Obtain a contract number from the Foskor procurement department.
- 3) Appoint a subordinate manager in accordance with Regulation 2.6.1 and an on-site supervisor in accordance with Regulation 2.9.2 of the Mines Health and Safety Act.
  - a. The appointed subordinate manager and supervisor shall be required to write and pass the Foskor 2.6.1 and 2.9.2 legal examinations within 30 days after being awarded this contract.
  - b. Attend an hour-long legal exam briefing any Thursday between 08:00 and 09:00 at the Security training hall.
  - c. Write legal examination any Friday between 07:30 and 10:30 at the Security training hall. (Please book)
  - d. Successful LACA registration
- 4) Appoint an on-site SHE-Rep in accordance with section 29(1) of the MHSA to assist the Regulation 2.6.1 and 2.9.2 in the daily on-site management of health, safety and environmental issues.
  - a. The designated SHE Rep must have the ability to read, write and express him/herself.
  - b. The appointed SHE-Rep shall be required to attend a five day SHE-Rep training course within 30 days after being awarded this contract (Training free of charge). Make a booking on 015 789 2531  
A pre-requisite for attending the SHE-Rep training course is successful completion of Basic Health & Safety Principles and HIRA training. (See item 8(a) below)
  - c. See Foskor's COP 5 Health and Safety Representatives for details.
- 5) Provide a name list, including ID numbers, residential and postal addresses and telephone numbers of all of the appointed contractors' on-site employees.
- 6) All of the appointed contractors' on-site employees shall undergo a full medical examination at the Foskor on-site Clinix Clinic. The clinic can be contacted at 015 789 2427 for an appointment.

(NOTE: Employees leaving the service of the appointed contractor must undergo an exit medical examination)

- 7) The appointed contractors' designated on-site drivers shall receive competence testing and authorisation to operate vehicles on the Foskor site (See item 2(a) under the heading LEGISLATIVE REQUIREMENTS).
- 8) All of the appointed contractors' employees shall receive/have received training in:
  - First aid level 1 (Provide own training)
  - Basic Health & Safety Principles (Provide own training)
  - HIRA (Provide own training)
  - Basic firefighting. (Provide own or receive Foskor training, contact 015 789 2531 to book)
  - Lock out. (Provide own or receive Foskor training, contact 015 789 2531 to book)

All training not provided by Foskor must be verified by the Foskor Training Superintendent Mr Johan Fouche. Please contact him on 015 - 789 2525 to make an appointment or alternatively email proof of training and certificates to [johanfo@foskor.co.za](mailto:johanfo@foskor.co.za) to confirm compliance before requesting his approval on the PERMIT TO WORK.
- 9) All of the appointed contractors' on-site employees shall receive the basic Foskor site induction training at the Foskor Security office.
- 10) All of the appointed contractors' on-site employees shall receive site specific induction training provided by the Foskor area Regulation 2.6.1 appointee/s.
- 11) A HIRA (Hazard Identification and Risk Assessment) shall be completed for ALL "typical" tasks that will be completed under this contract. HIRA's to be signed by all contractor employees. Make use of Foskor's own HIRA document, Annexure 1.2, contained in of COP 1, Foskor risk management
- 12) All Foskor's appointed MHSA Regulation 2.9.2, 2.6.1, 2.13.1 and 3.1.a managers must undersign/approve the PERMIT TO WORK.
- 13) Registration and proof of payment under the Compensation for Occupational Injuries and Diseases Act, no. 130 of 1993. Registration number must be provided.
- 14) SARS issued tax clearance certificate.
- 15) All relevant documentation and/or evidence of compliance must be attached to the PERMIT TO WORK.

- 16) Upon successful completion and approval of the PERMIT TO WORK the security department will issue the appointed contractors' employees with access ID cards valid for 12 months.
- 17) Any other documents, certificates or records as requested by a Foskor official deemed necessary to ensure that all safety, legislative and administrative requirements have been met must be attached to the PERMIT TO WORK.
- 18) The appointed contractor must allow at least three to ten working days to complete all the PERMIT TO WORK requirements.

### **13. PARAMETERS**

#### **13.1. Design parameters**

All plant and equipment will be designed to:

- Operate satisfactorily under atmospheric, ambient and other conditions present at the site location
- Ensure interchangeability of units and/or sub parts throughout the plant to reduce spares holding requirements – take old plant equipment into account
- Ensure reliability and maintainability. A minimum availability of 98% is required
- Operate without undue vibration, stresses (temperature and built in) and excessive noise
- Comply with legal requirements in terms of the water license and DWA

### **14. SPECIFICATIONS, CODES, STANDARDS AND REGULATORS**

Latest addition of the South African National Standards in effects at the date of projects design shall establish the minimum requirements for design, materials and construction. This should be referenced with the Foskor General Engineering specifications and requirements of the Foskor SHEQ system (COP's)

No work shall be contemplated which is in breach of any Legislation in South Africa – Typically:

- Water license (04/B72K/ACGIJ/962)
- Occupational Health and Safety Act
- South African Mine Health and Safety Acts and regulations (Act 29 of 1996)
- Explosive Acts and Regulations - South Africa
- DWA and the National Water Act.
- Foskor COP's
- Foskor Engineering Specifications
- The latest revisions of the SANS standardized specifications and Foskor Specifications as applicable at the time of quotation shall apply to this contract.

Note! The equipment to be capable of continuous operation 24 hrs/day, 365 days/year with operating availability equal to 100%.

### **15. ENVIRONMENTAL MANAGEMENT SYSTEM SPECIFICATIONS**

The successful or appointed service provider shall comply with the following Environmental Specifications, Policies and Procedures:

- a) COP 41 Housekeeping and workplace organisation
- b) COP 49 Waste Management
- c) COP 51 Resource conservation, energy, and materials
- d) COP 70 Storage of petroleum products and other hazardous material

- e) National Environmental Management Act 107 of 1998 (NEMA)
- f) National Environmental Management Waste Act 59 of 2008 (NEMWA) as amended
- g) The successful service provider shall include in his/her SAFETY FILE, and comply with, the following documents:
  - i. Environmental Aspect and Impact Register (Applicable to this contract).
  - ii. Environmental Objectives and Targets (Applicable to this contract).
  - iii. Waste Management Plan (Applicable to this contract).
  - iv. FOSKOR Atmospheric Emissions License (Copy available on request)
  - v. FOSKOR Waste Management Licence (Copy available on request)
  - vi. FOSKOR Water Use Licence (Copy available on request)

## 16. SITE GEOGRAPHY

The plant is located at Phalaborwa, Limpopo, South Africa

### 16.1. Ambient conditions

- Ambient temperature

Summer	35 Degrees Avg.	50 Degrees Max
Winter	17 Degrees Avg.	2 Degrees Min

- Site Altitude: 380m
- Prevailing wind direction: Generally South Easterly - Maximum design velocity 40m/s (144km/h)
- Very dusty conditions
- Average annual rainfall = 540 mm

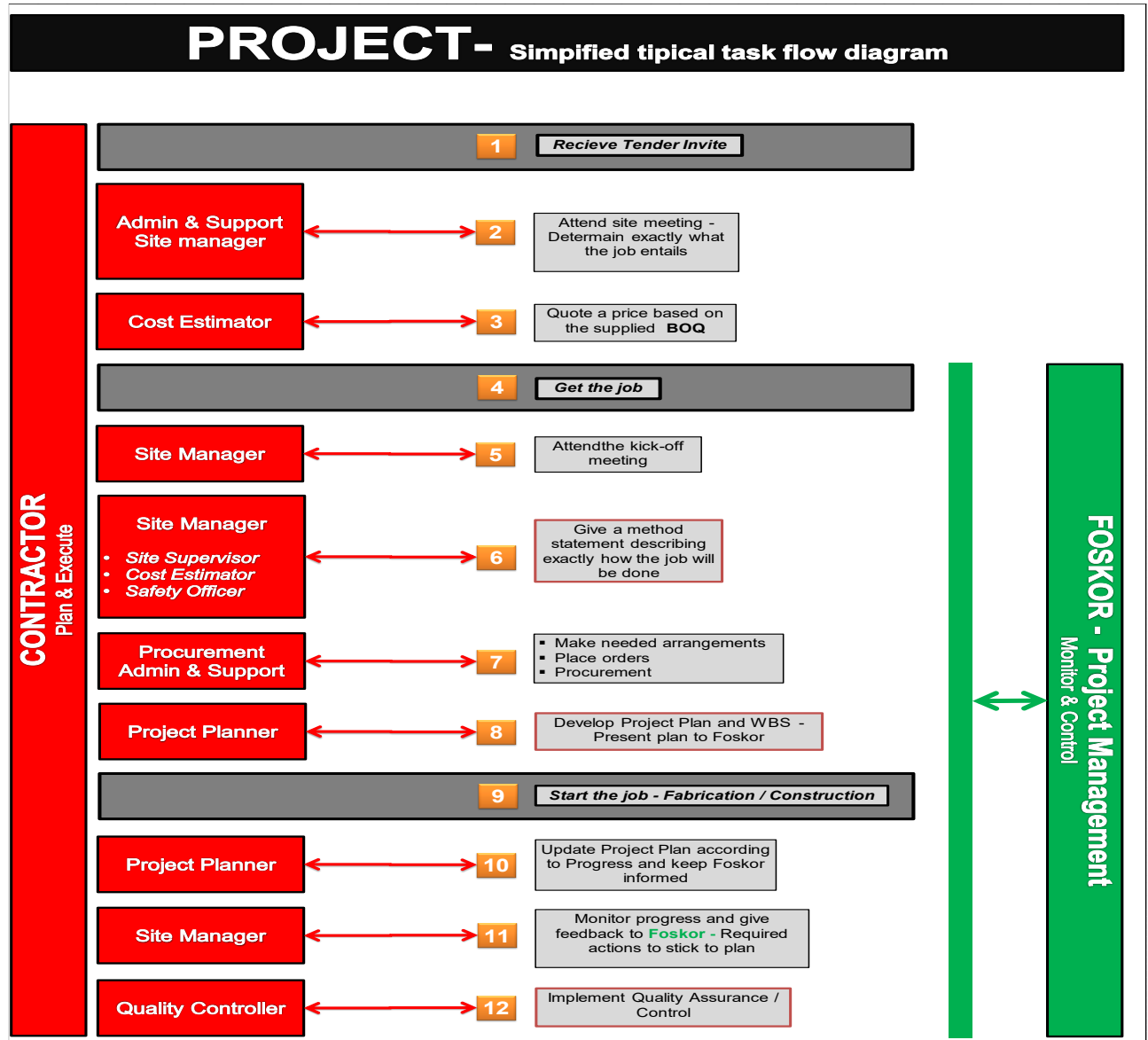
## 17. PROJECT MANAGEMENT - CONTRACTOR

- a) Nominate a single window of communication to FOSKOR – Typically the appointed contractor 2.6.1
- b) Attend meetings as agreed during the project kick-off meeting
- c) Submit Progress reports (Format & interval) as defined in the Kick-off Meeting (Invoicing, Labour, Performance against the plan, Contractor purchases, Quality Management, Safety, Etc.
- d) Manage and participate in the “Daily Journal” as part of executing the project
- e) All meetings will be held at FOSKOR offices unless otherwise stated
- f) The contractor to provide updated project management plans on progress as defined by the FOSKOR Project Engineer.
- g) If the project is executed based on a shutdown approach the contractor will produce a formal Works Breakdown Structure of the works.
- h) If the contractor cannot produce a proper WBS then the contractor will be required to subcontract this function to produce the WBS and manage the WBS for the duration of the project. This cost must be included in the contractor’s price
- i) **WBS - WBS** is a hierarchical and incremental decomposition of the project into phases, deliverables, and work packages. It is a tree structure, which shows a subdivision of effort required to achieve an objective, for example, a program, project, and contract.
- j) This includes arrangements, tools, equipment, labour, Tasks, Purchase, Quality, Communication, etc



- k) **Project progress updates** - If the contractor cannot produce proper updates on a WBS then the contractor will be required to subcontract this function to produce the WBS updates for the duration of the project. This cost must be included in the contractor's price

The Service provider is responsible for managing the project and this is graphically displayed below indicating where what functions lies. Graphical presentation only covers some basic aspects.



#### 19.1. ADDITIONAL PROJECT MANAGEMENT REQUIREMENTS:

- None

#### 18. PLANNING AND SCHEDULING:



- The Project Section has a planning standard that needs to be adhered to during the execution as per the relevant order placed
- The Foskor scheduler can be contacted to provide schedule details input and guidelines if needed.
- Schedule must be compiled within one week after kick-off meeting conducted by the Foskor Project Leader
- The Contractor schedule needs to be signed off by contractor 2.6.1 before approval by Foskor
- The Foskor scheduler will issue the Templates to be used - This template must be adhered to and no changes to be made
- Progress Update is needed every once week one day before the weekly progress meeting or as requested
- The progress Updates to be submitted to Foskor Scheduler/Planner via email.
- It is the contractor's responsibility to appoint the competent person to manage the contractors schedule which that person will directly communicate with Foskor Scheduler - If the contractor's responsibility to add cost of the competent person on the project. Commercial action to be taken if the performance in planning is lacking
- Foskor requires all contractors to use MS project software which it will be fully implemented latest 1 February 2022.

#### **TYPICAL ASPECT THAT NEEDS TO BE ADHERED TO**

- It is the subcontractor's responsibility to produce a detailed schedule which tie up to the Foskor standards of requirements.
- The Schedule must not have open ended activity task.
- The schedule must be fully resourced.
- The schedule must not have constraints.
- The Calendar must be created and assigned in the schedule. Confirm the templates with the Foskor Scheduler
- It is Foskor responsibility to review the schedule before it's been approved
- A schedule must be Approved by Project scheduler/Project Manager & Project Engineer
- The approved baselined schedule must be updated by the contractor to show Planned Vs Actual
- The contractor must show S-Curve which will be constructed from the schedule.
- Project Updates Must be submitted to the Project Planner/Scheduler for review.

#### **19. LIAISON AND CO-OPERATION WITH OTHERS**

- The CONTRACTOR shall be required to co-operate and liaise with Foskor appointed project manager
- The CONTRACTOR must note that construction is within an operational plant.
- The CONTRACTOR may appoint a Foskor approved sub-contractor

- The CONTRACTOR shall be required to work in conjunction with the Foskor appointed structural-, electrical-, equipment- and instrumentation installation contractor.

#### **19.1. AFTER SALES SERVICE REQUIREMENTS ARE LISTED BELOW:**

- a) Full description of guarantee and guarantee period to be attached to the official tender
- b) Full description of planned support during AND after the guarantee period to be attached to the official tender.

#### **20. EVALUATION CRITERIA**

- As part of the process to assist with the evaluation of the bidder's proposal/quotation and to make an informed decision in the awarding of this tender, the following information is required
- The following tender evaluation criteria will be used for adjudicating the Contractor submitted tender.
- Please provide the required documentation as requested in the "Proof/documents to be submitted" column. Please be specific when submitting documents by ensuring that they answer the item specified.
- Please use the annexure number as indicated to identify the proof submitted.
- Failure to submit the relevant documentation as requested in the Evaluation criteria document may lead to a disregard of the submitted tender.

## 21. EVALUATION CRITERIA (TECHNICAL)

### Technical Evaluation: Electrical Works for Selati Hall

Item	Technical Criteria Description	Proof / documents to be submitted	Annex No.	% Contribution
<b>1</b>	<b>Experience &amp; Team competence</b>			
a)	<p>Company – Previous experience in the supply, installation and commissioning of Medium <b>Low voltage</b> electrical installations above R 500 000</p> <p><b>Scoring:</b></p> <p>Less than 2 projects = 0%</p> <p>Up to 2 projects = 50%</p> <p>up to 3 projects = 70%</p> <p>4 projects and above = 100%</p>	<p>Projects <b>reference list</b> with</p> <p><b>1. project values</b> and</p> <p><b>2. contact numbers</b> for verification</p>	<u>Annexure A</u>	30%
b)	<p>Company must be registered as Electrical contractor with Department of labour.</p> <p>Scoring: License NOT submitted 0%</p> <p>Certificate/Letter submitted 100%</p>	Provide the <b>registration</b> certificates/Letter	<u>Annexure B</u>	10%
c)	<p>Project team organogram indicating names, positions and trade for this project.</p> <p><b>Scoring:</b></p> <p>No Organogram= 0%</p> <p>Organogram with some skills = 5%</p> <p>Organogram with all relevant skills = 10%.</p>	Provide certified copies of <b>certificates/ qualifications</b> and <b>CV</b> as proof	<u>Annexure C</u>	10%
<b>2</b>	<b>Company Capacity</b>			
a)	<p>Quality assurance/control plan, Quality Control</p> <p><b>Scoring:</b></p> <p>Quality control plan = 50% (0% if not relevant or covering all areas)</p> <p>Guarantee on the products (provide letter/certificate of guarantees)</p> <p>Nothing provided/submitted = 0 %</p> <p>One requirement provided = 50 %</p> <p>Both requirements provided =100%</p>	<p>Provide</p> <p>1. a quality <b>control plan</b> <b>specifically</b> for this project and</p> <p>2. <b>Guarantee</b> <b>certificate/Letter</b></p>	<u>Annexure D</u>	20%

b)	Delivery – Ability to deliver the complete project in a quicker/shorter duration  <b>Scoring:</b> up to 4 weeks = 100% up to 6 weeks = 60% more than 8 weeks = 40%;	Provide a project <b>schedule for the complete project</b> highlighting the timeline for the implementation, this shall be done with Microsoft project/ Gantt chart. The project schedule must include all milestones of the project.	<u>Annexure E</u>	20%
3	<b>Safety</b>			
a)	MQA based <b>Basic Health and Safety, First Aid and HIRA</b> training  <b>Scoring:</b> Basic Health and safety = 3 % First Aid = 3 % Hira = 4% <b>Lack of any item above = 0% for the specific item.</b>	Provide the <b>training certificates</b> of the team only <b>for the three courses</b> 1. Basic Health and Safety, 2. First Aid and 3.3. HIRA	<u>Annexure F</u>	10%
Total Technical Score				100%

**Notes:**

**Minimum score: The bidder needs to score a minimum of 70% on the technical evaluation.**

**Foskor pricing schedule should be used for the pricing**

**PRICING SCHEDULE**

**Tender No:**

**Description: Electrical Works for Selati Hall**

The following needs to be included in the rates or totals – Refer to Scope – Typically but not limited to:

- PPE
- Work Permit
- Site Establishment
- Medicals
- Transport
- Supervision
- Safety Equipment
- Cranage/chery picker
- Quality control Plan and Assurance

Electrical Bill of Quantity for Selati Hall Refurbishment					
Item	Description	UOM	Quantity	Unit Price	Total Price
<b>1</b>	<b>Power Installation</b>				
1.1	Manufacture, supply, Install, test, commission and earth an IP 65, 380V 50Hz Lighting and small power Distribution Board. DB should be square key lockable, designed with mild steel and a canopy for indoor installations. DB to comply with section 23 of the Foskop GE-1REV 8 Specification as well as Specification EE12REV2. The DB will include Main DB that will feed all four DB's for the power supply of the Selati Hall Aircons, lights and socket outlets.	ea	5		
1.2	Manufacture, supply, installation, test, commission and earth a IP 65, 380 50Hz Isolator Switch.	ea	1		
<b>2</b>	<b>Cable Scope Description</b>				
2.1	Supply and install 95mm <sup>2</sup> 4 core power supply cable from the outside kiosk to the isolator.	m	40		
2.2	Supply and install 6mm <sup>2</sup> 4 core cable to supply 14 x 60 BTU inverter airconditioners	m	360		
2.3	Supply and install 4mm <sup>2</sup> 4 core cables to supply all socket outlets	m	480		
2.4	supply and install 2.5mm <sup>2</sup> 4 core cable to supply all the lights	m	590		
<b>3</b>	<b>Lights for inside, outside and including outdoor pole lights. (provide the minimum illumination levels as per section 4.8.2 of COP42). All lights to be LED type and comply with section 23 of the Foskop GE-1 REV 8 Specification</b>				
3.1	Specify, Supply, Install, test and commission inside wall light LED	ea	36		
3.2	Specify, Supply, Install, test and commission florecent light with tubes LED	ea	30		
3.3	specify, supply, Install, test and commission High Bay lights	ea	12		
3.4	specify, supply, install, test and commission outside floodlights (control of these lights shall be by photocell or contactor)	ea	10		
3.5	specify, supply, install, test and commission outside pole lights (control of these lights shall be by photocell or contactor)	ea	8		
<b>4</b>	<b>Cable trays or racks installation</b>				
4.1	supply and install (with all required support brackets, etc) a 480 m long cable tray or rack inside the hall	m	480		
<b>5</b>	<b>Socket outlets and wall switches</b>				
5.1	supply, Install, test and commission socket outlets	ea	38		
5.2	supply, install, test and commission wall switch	ea	20		
5.3	supply, install, test and commission 3 phase victor plug	ea	6		
<b>6</b>	<b>Earthing &amp; bonding</b>				

6.1	earthing & bonding of the building and all equipments	sum			
7	<b>Certificates</b>				
7.1	COC for the complete installation	ea	1		
8	<b>Travel and Accomodation</b>	sum			
8.1	Travel and Accommodation for the full duration of the project including the labour cost and all sundries	sum	1		
	<b>Total Project Value (Excl Vat)</b>				R
	<b>VAT @ 15%</b>				R
	<b>Total Project Value (Incl Vat)</b>				R

**Note:**

Sizes of all cables quoted for must be

All cables must be neatly glanded, lugged, terminated, and marked

All DB's to be finished with two coats of red oxide primer and B26 orange enamel paint

Size/height of the cable rack to be determined by the total cables to be installed

Cable rack to be earthed and mechanically and electrically bonded throughout the length of the rack

All price alterations must be signed for by the bidder confirming that such changes were made by the Bidder. **PLEASE NOTE THAT PRICE CHANGES WITHOUT A SIGNATURE WILL LEAD TO THE DISQUALIFICATION OF THE BID SUBMITTED.**

**NOTE: The onus lies with the tenderer to make sure that all formulas and calculations are correct. Calculation errors discovered during the evaluation process will be logged as a non-conformance and the tender/quotation will therefore be disregarded**

### ACCEPTANCE

The conditions and requirements as stated in this "Scope of Work" are accepted with the following **exceptions / exclusions**: -

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The conditions and requirements as stated in this "Scope of Work" are accepted with the following **inclusions**: -

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**Subcontractor** (please provide list and function)

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**Failure to complete this form will lead to disqualification – please do not leave blanks**

BBBEE Level	<input type="text"/>	Black Ownership	<input type="text"/> %	Black Woman Ownership	<input type="text"/> %
Tender Validity	<input type="text"/> Days	Manufacturing Period	<input type="text"/> Days	Installation Period	<input type="text"/> Days
Guarantee	<input type="text"/> Months	Commencement after receipt of official purchase order		<input type="text"/> Days	

---



Payment terms

Price Basis for the duration of the contract / till supply of goods (Please tick):

Fixed

☐

Duration of fixed price

12 Months

☐

24 Months

☐

Variable

☐

Price Base Date

If variable provide price variation factors, percentages and formula in cover letter. (Please specify indices to be used)

Price variation factors & percentages (e.g. material, labour, fuel, overheads, admin etc.)

Factor	%

Factor	%

Factor	%

Factor	%

Factor	%

Where prices include a foreign currency rate please provide:

% of price subject R O E

 %

ROE

 = ZAR

ROE Base Date

**Note: If the above fields are not completed, it is confirmed that the quoted price/s are valid for the entire contract period mentioned and no escalation in the price is allowed under any circumstances.**

I, \_\_\_\_\_ in my capacity as \_\_\_\_\_ for and on behalf of \_\_\_\_\_ hereby  
acknowledge that I have read and understand the Instruction to Tender and the Scope of Work as detailed in this document and accept all the Terms and Conditions of Tender T -24 - 2025.

Signed at \_\_\_\_\_ on this the \_\_\_\_\_ day of \_\_\_\_\_ 2024

Signature: \_\_\_\_\_

**Witness:**

1. \_\_\_\_\_ Name: \_\_\_\_\_

2. \_\_\_\_\_ Name: \_\_\_\_\_





For and on behalf of Foskor (Pty) Limited

Name: \_\_\_\_\_ Signature: \_\_\_\_\_

Designation: \_\_\_\_\_ Date: \_\_\_\_\_

**Note:** It is imperative to complete this schedule in full where applicable, marked "N/A" where not applicable and signed off in full, **unsigned bids will not be accepted**. All the supporting documentation requested with the tender document, scope of work and evaluation criteria need to be submitted with the tender. Tenders received without supporting documentation requested for the tender evaluation **will not be considered**.

## 22. DOCUMENTED INFORMATION

DESCRIPTION	RESP.	LOCATION	FILE NAME / INDEX	RETENTION TIME (MINIMUM)
Scope of Works	Procurement	Procurement	Procurement	As per Procurement Policies and procedures

## 23. REFERENCES

Code of Practice Foskor Risk Assessment (COP 01).

Quality Management Systems – Requirements (ISO 9001:2015).

Environmental Management Systems – Requirements with guidance for use (ISO 14001:2015).

Occupational Health and Safety Systems – (ISO 45001)



Signed with Impression - Chain of Custody



#### Signature Request

Signature Request ID:	7075d1ef-a359-4175-af20-1001b3b1f38b	Timestamp:	2025-09-10 11:10:54 GMT
Signee Name:	Kgothatso Sekgobela	Sender Name:	Kgothatso Sekgobela
Request Type:	WebSigning	Request Status:	WEBVIEWER SIGNED

#### Original Document

Document Name:	scope of works for selatil Hall Electrical works rev 1 002.pdf	Document Size:	747.9 KB
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#### Email Evidence

Signee Email:	kgothatsos@foskor.co.za	Email Subject:	Not available in Silent Mode
Email Sent Timestamp:	Not available in Silent Mode	Email Opened Timestamp:	Not available in Silent Mode

#### Web Evidence

Signee IP Address:	102.221.95.245	Request Timestamp:	2025-09-10 11:09:34 GMT
Signee GPS (if shared):	ZA: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/140.0.0.0 Safari/537.36 Edg/140.0.0.0	Terms Accepted Timestamp:	2025-09-10 11:09:49 GMT

#### Annotations and Modifications

Signature Count:	1	Form Fields Filled Count:	0
Text Annotation Count:	1	Initial All Pages Count:	0
Single Initial Count:	0		

#### Signing Evidence

Signee Mobile:	+270000000000	Sign Type:	WebSigning
Security Challenge:	NONE	Part of Workflow:	NONE

#### Chain Of Custody Generation

Attached Document Name:	20250910T111054.696171Z scope of works for selatil Hall Electrical works rev 1 002.pdf	Attached Timestamp:	2025-09-10 11:10:54 GMT
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