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prasa

PASSENGER RAIL AGENCY
OF SOUTH AFRICA

**SUPPLY AND INSTALL MAIN SUPPLY CABLE TO STATION AND
LIGHTING ON PLATFORMS
AT
GERMISTON STATION**



1. INTRODUCTION

The works is: Appointment of a contractor for the scope of works entails supply, installation, and commissioning of Electrical works at Germiston Train Station.

2. BACKGROUND OF THE PROJECT

The passenger railway services offered by PRASA at the subject corridors are not on par with the normal operations of passenger rail service. The railway infrastructure at these facilities has been rendered functionally obsolete due to the acts of vandalism that occurred over the past years. PRASA infrastructure such as railway tracks and related overhead track equipment, ticketoffice buildings, platform surfaces, lighting equipment, ablution facilities, retail/commercial facilities, parking, etc. has been damaged beyond use.

PRASA CRES strategy has pointed to a need for rapid development of the Rail Top Priority Corridors, in line with the Service Resumption and the Infrastructure Investment and Development in these Corridors.

The installation of the electrical supply cables and lighting will provide the ticket office with sufficient power supply as well as lighting on the platforms. Thus, turning the ticket office into functional state.

3. DETAILS OF THE PREFERED SOLUTION

The preferred solution is to procure a service provider to supply, installation and commission the electrical works at Germiston Station.

4. AREAS TARGETED FOR THIS PRODUCTS OR WORK OR SERVICE REQUIRED.

4.1 Germiston Train Station



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5. SCOPE OF WORK

The scope of works entails supply, installation, and commissioning of electrical Works at Germiston Station.

The high-level scope of work to be executed under this project will include, but not. Limited to the following:

5.1 Germiston Train Station:

- 5.1.1 Supply and install main supply cable from Sub-station to main kiosk.
- 5.1.2 Supply and install electrical kiosk at station
- 5.1.3 Supply and install cables from Electrical kiosk to sub DB's on platforms.
- 5.1.4 Supply and install sub DB's on platforms.
- 5.1.5 Supply and install wiring for lighting on platforms.
- 5.1.6 Supply and install 1.5m LED fittings on platforms.
- 5.1.7 Supply and install electrical cables from main kiosk to offices on platform.
- 5.1.8 Supply and install circuit breakers in main kiosk and sub DB's

6. SPECIFICATIONS

6.1 ELECTRICAL WORKS

- 6.1.1 120mm 4 Core ECC Cable.
- 6.1.2 16mm 4 Core ECC Cables.
- 6.1.3 2.5mm GP Wire (Red, White, Blue, Black, Earth)
- 6.1.4 1.5m (5 Feet) LED Fittings.
- 6.1.5 Main electrical Kiosk.
- 6.1.6 Sub DB's/ Electrical boxes.
- 6.1.7 MCCB/ MCB's.
- 6.1.8 Cable trays.
- 6.1.9 110mm HDPE pipe/sleeves.
- 6.1.10 Trenching, backfilling and compacting.
- 6.1.11 Pipe Jacking under railway lines.



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6.1.12 Concrete works.

7. WARRANTY

The electrical components must be supplied with a 12-month warranty from the date of fitment for the work that was carried out.

All equipment and components must have a guaranteed warranty of 10 years or above.

8. COMPLIANCE

- 8.1 Non-conformances (NCR) must be returned within 10 working days.
- 8.2 All components, once tested and certified, shall be issued with a compliance certificate.
- 8.3 All components must have a quality assurance label indicating the name of the organization, date, card tested by.
- 8.4 All components should be SABS approved.

9. CONTRACT PERIOD

The estimated contract period for the RFQ is 3 months. Prasa is well within its rights to terminate the contract should the contractor not meet the required working standards.

10. PRICE ADJUSTMENTS

Prices will be fixed for the duration of this contract.

11. PENALTIES

- 11.1. Should the Contractor fail to deliver on or before the agreed date, a penalty of 1% per day will be charged on the total value of the Purchase order (PO) but shall not exceed 10 percent of the total value of the PO.
- 11.2. PRASA CRES reserves the right to test the product at any given time during the contract period for compliance. The Contractor will be held liable with costs for any deviations in the specifications which may have resulted in damages and downtime



to Rolling Stock equipment. A meeting will be convened by both parties to discuss the outcome of the investigation and the costs incurred.

12. DEMOLITION

The contractor is responsible for the demolition of the existing equipment and the Transportation of the existing equipment from construction site to Elandsfontein Depot.

13. OVERALL STAFFING AND KEY PROFESSIONAL STAFF

A contractor shall provide qualified and experienced professional staff for the Following :

- 13.1 Project manager
- 13.2 Electrician / millwright
- 13.3 Construction health and safety officer

14. MINIMUM QUALIFICATIONS OF KEY PROFESSIONAL STAFF

- 14.1 Project manager - Electrical qualification (Degree, Diploma or N-level certificate).
- 14.2 Electrician / millwright - Minimum 5 years' experience in Electrical building environment.
- 14.3 Construction health and safety officer - The desired minimum qualifications for the Construction Health and Safety Officer are as follows: Minimum of 3 years industry experience as a health and safety officer.

15. GENERAL INFORMATION

- 15.1 The contract shall be registered with the ECB as laid down in the Electrical a. Installation Regulations of the Occupational Health and Safety Act 85/1993, clause 5.
- 15.2 The electrical contractor shall be or have in his employment an accredited person Proof must be supplied of the above requirements: Electrical Trade test certificate.
- 15.3 All materials/components shall be of high standard (SABS approved)
- 15.4 All components/materials supplied and installed shall be new and will be capable of providing specified power at 380V.
- 15.5 A contractor is not allowed to sub- contract without the permission of the Prasa



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project manager.

15.6 Contractor: Successful tender who is appointed by PRASA-CRES and will be responsible for carrying out the work as per this specification.

15.7 The Contractor shall always be responsible for supervision of the work and for follow-up instructions to monitor that the work is being done to specification. He shall immediately take appropriate remedial action, in areas where the specified standards are not achieved.

15.8 The Contractor shall allow PRASA representatives to visit site anytime to monitor/inspect installation process and station facilities.

15.9 The PRASA Maintenance engineering department shall at any time during Contract period carry out inspection of the contractor's performance methods and procedures.

15.10 The contractor shall provide transport, equipment, tools, consumables, supervision, protection, and labor necessary to successfully complete the contract.

16. SAFETY

16.1 The Contractor shall comply with requirements of safety legislations and regulations in all respects.

16.2 The contract shall submit a COVID -19 safety compliance plan.

16.3 All vehicles shall be roadworthy.

16.4 The contractor shall be responsible for security of personnel and material onsite. as well as during transit.

16.5 An effective safety procedure to be followed by all personnel on any work site in the case of approaching rail traffic shall be compiled by the Contractor and implemented before any work commences. This procedure shall be updated whenever the need arises, and any changes shall be communicated to all employees on a works site before work proceeds.



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- 16.6 It is the requirement of this contract that the contractor should provide PRASA with a Safety File with a detailed safety plan prior to being issued with a site access certificate, in accordance with the latest version of the OHS Act and the SPK7 and the E4E. (safety file check list shall be provided by PRASA).
- 16.7 The Contractor shall make necessary arrangements for sanitation, water, and electricity on site during the installation of the equipment.

17. COMMISSIONING AND TESTING

Designated PRASA personnel, in conjunction with the Contractor, shall carry out the final commissioning test. The Contractor shall carry out any remedial work, necessary.

18. HANDING OVER

The handovers shall be for each portion of the work when the Electrical System is tested and commissioned to the satisfaction of the Project Manager, in accordance with the details as set out in the handing over documentation by PRASA.

19. SECURITY

The contractor shall provide on-site security for personnel and material stock and should ensure that patrols are in place at the section handed over to the contractor and until the completed work is handed over to PRASA. No claims of material or losses shall be lodged with the client for stolen goods during the construction before the completed work is handed over to PRASA.

20. GRADING – Class of Work: EB

Grade : 4

21. MEASUREMENT AND PAYMENTS

- 21.1 Completed work will be inspected and Invoices will be submitted to finance.



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department after passing the inspection and testing.

21.2 Any rejected and incomplete work will not be paid for until it is rectified.

22. PRICING SCHEDULE

22.1 Prices must be quoted in South African Rand, inclusive of all applicable taxes.

22.2 The price offer is firm and clearly indicates the basis thereof.

22.3 Pricing Bill of Quantity is completed in line with schedule if applicable.

22.4 Cost breakdown must be indicated.

22.5 Price escalation basis and formula must be indicated.

22.6 To facilitate like-for-like comparison bidders must submit pricing strictly

in accordance with this price schedule and not utilize a different format.

Deviation from this pricing schedule could result in a bid being declared non-responsive.

22.7 PRASA CRES is not obligated to appoint the lowest bidder.

22.8 Pricing Preliminary & Generals, Health & safety should be inclusive of all stations on tender.

STAGE 2 - Technical / Functionality Requirements

Qualifying bidders shall be evaluated on technicality / functionality after meeting all compliance requirements outlined above. The minimum threshold for the technical/functionality requirements is 60%. Bidders who score below the minimum requirement shall not be considered for further evaluation in stage 3 of Price and BBBEE.

Summary of the technical/functional requirements are presented in the (Scope of work).

	EVALUATION CRITERIA	WEIGHT
A	COMPANYS EXPERIENCE	30%
B	KEY PERSONNEL EXPERIENCE	30%
C	RESOURCES AVAILABILITY	20%
D	HEALTH AND SAFETY	20%
	TOTAL	100%



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BILL OF QUANTITIES

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GERMISTON STATION.

SCHEDULE OF QUANTITIES AND RATES / PRICE (S)

Item No.	Description	Unit	Qty	Rate/unit (Excl VAT)	Total Price (Excl VAT)
SECTION 1					
1.1	Preliminary and General	sum			
1.2	Removal of existing works				
	Existing cables, wiring and fittings to be returned to the employer.	No.	1000	R	R
	Occupational Health and safety				
1.2	Compliance with Occupational Health and Safety Act (Act 85 of 1993) and its regulations and with the Employers Health and Safety	No.	1	R	R
SECTION 2					
ELECTRICAL WORKS					
2.1	120mm ² 4-core cable from the substation to platform 6 and 7 kiosk, in trenches measured else where	M	400	R	R



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2.2	16mm ² 4 core cable from kiosk on platform 6 & 7 to all platforms in trenches measured elsewhere	M	1000	R	R
2.3	2.5mm ² GP Wire Red	M	5000	R	R
2.4	2.5mm ² GP Wire White	M	5000	R	R
2.5	2.5mm ² GP Wire Blue	M	5000	R	R
2.6	2.5mm ² GP Wire Black	M	5000	R	R
2.7	2.5mm ² GP Wire Earth	M	5000	R	R
2.8	IP55 Mild Steel Enclosure Orange– Double Door 4 x 24 Way (1020H x 1100W x 205D) Earth & Neutral Bars on each row. Busbar Included	Ea	1	R	R
2.9	IP55 Mild Steel Surface Distribution Board Orange 1 x 16 Way (476H x 465W x 115D) Earth & Neutral Bar included	Ea	7	R	R
2.10	1.5m (5feet) LED Fittings	Ea	1030	R	R
2.11	1000Amp MCCB 3 Phase	Ea	1	R	R
2.12	500Amp MCCB 3 Phase	Ea	1		
2.13	100Amp MCB 3 Phase	Ea	8		
2.14	80Amp MCB 3 Phase	Ea	10		
2.15	60Amp MCB Single Phase	Ea	23		
2.16	Cable Trays - 300mm wide x 76mm side rail height x 1.6mm thick hot deep galvanized	M	200	R	R



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	finish perforated base Heavy duty cable tray completely with heavy duty brackets, splice sets, etc				
3	PIPING/ SLEEVES				
3.1	110mm HDPE double wall corrugated coil with 5mm plain galvanized draw wire per sleeve. Both ends to be plugged before backfilling	M	600		
4	CABLE TRENCHING				
4.1	Cutting of tar and re-surfacing after cable has been laid	m ²	600		
4.2	Excavation and backfilling of 500mm wide by 1000mm deep for cable trenches and post holes	m ³	600		
4.3	Pipe Jacking - 2m under the railway line for 110mm dia flexible sleeve	M	50		
5	CONCRETE WORKS				
5.1	15 Mpa/20 mm unreinforced concrete	m ³	200		
5.2	1m long * 0.5m wide x 0.2m thick Concrete block on every five meter interval on top of 16 mm ² 4-core underground cable	m ³	200		
6	ELECTRICAL COMPLAINE				
	All work to comply to SANS 10142 Compliance certificate to be provided on completion				
	Pricing to include all necessary complete connection				
6.1	Certificate of compliance and all other testing required	Item			
			TOTAL	R	R



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<u>STATION</u>		<u>AMOUNT</u>
Germiston		R
	<u>SUBTOTAL</u>	R
	<u>VAT @ 15%</u>	R
	<u>GRAND TOTAL</u>	R