



prasa

PASSENGER RAIL AGENCY
OF SOUTH AFRICA

REQUEST FOR QUOTATION (RFQ)

RFQ NUMBER: KZN/RAIL/2023/03/06/Q

REQUEST FOR QUOTATION (RFQ) FOR THE *REPAIRS AND SUPPLY OF 10M5 SINGLE HANDED MASTER CONTROLLER, VIGI-DRIVE, EMERGENCY BRAKE VALVE, AUXILLARY AND HIGH-TENSION ISOLATING KEY SWITCHES OVER A PERIOD OF THREE YEARS*



SECTION 1: SBD1

PART A INVITATION TO BID

YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF PASSENGER RAIL AGENCY (PRASA)

BID NUMBER:	KZN/RAIL/2023/03/06/Q	CLOSING DATE:	05 APRIL 2023	CLOSING TIME:	12:00
DESCRIPTION	REPAIRS AND SUPPLY OF 10M5 SINGLE HANDED MASTER CONTROLLER, VIGI-DRIVE, EMERGENCY BRAKE VALVE, AUXILLARY AND HIGH-TENSION ISOLATING KEY SWITCHES OVER A PERIOD OF THREE YEARS				

BID RESPONSE DOCUMENTS SHALL BE ADDRESSED AS FOLLOWS:

BID RESPONSE DOCUMENTS MAY BE DEPOSITED IN THE BID BOX NO. 07 SITUATED AT (*STREET ADDRESS*):

**65 MASABALALA YENGWA AVENUE
PRASA REGIONAL OFFICE FOYER AREA
HELPPDESK
PRASA SCM
KWAZULU NATAL**

BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO

CONTACT PERSON	NOMFUNDO ZANTSI
TELEPHONE NUMBER	0318130105
E-MAIL ADDRESS	Nomfundo.Zantsi@prasa.com

SUPPLIER INFORMATION

NAME OF BIDDER					
POSTAL ADDRESS					
STREET ADDRESS					
TELEPHONE NUMBER	CODE		NUMBER		
CELLPHONE NUMBER					
FACSIMILE NUMBER	CODE		NUMBER		
E-MAIL ADDRESS					
VAT REGISTRATION NUMBER					
SUPPLIER COMPLIANCE STATUS	TAX COMPLIANCE SYSTEM PIN:		OR	CENTRAL SUPPLIER DATABASE No:	MAAA.....

<p>2.1 ARE YOU THE ACCREDITED REPRESENTATIVE IN SOUTH AFRICA FOR THE GOODS /SERVICES /WORKS OFFERED?</p>	<p><input type="checkbox"/>Yes <input type="checkbox"/>No</p> <p>[IF YES ENCLOSE PROOF]</p>	<p>2.2 ARE YOU A FOREIGN BASED SUPPLIER FOR THE GOODS /SERVICES /WORKS OFFERED?</p>	<p><input type="checkbox"/>Yes <input type="checkbox"/>No</p> <p>[IF YES, ANSWER THE QUESTIONNAIRE BELOW]</p>
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QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS

IS THE ENTITY A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)? YES NO

DOES THE ENTITY HAVE A BRANCH IN THE RSA? YES NO

DOES THE ENTITY HAVE A PERMANENT ESTABLISHMENT IN THE RSA? YES NO

DOES THE ENTITY HAVE ANY SOURCE OF INCOME IN THE RSA? YES NO

IS THE ENTITY LIABLE IN THE RSA FOR ANY FORM OF TAXATION? YES NO

IF THE ANSWER IS “NO” TO ALL OF THE ABOVE, THEN IT IS NOT A REQUIREMENT TO REGISTER FOR A TAX COMPLIANCE STATUS SYSTEM PIN CODE FROM THE SOUTH AFRICAN REVENUE SERVICE (SARS) AND IF NOT REGISTER AS PER 2.3 BELOW.

PART B: TERMS AND CONDITIONS FOR BIDDING

1. BID SUBMISSION:

- 1.1. BIDS MUST BE DELIVERED BY THE STIPULATED TIME TO THE CORRECT ADDRESS. LATE BIDS WILL NOT BE ACCEPTED FOR CONSIDERATION.
- 1.2. **ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL FORMS PROVIDED–(NOT TO BE RE-TYPED) OR IN THE MANNER**
- 1.3. **PRESCRIBED IN THE BID DOCUMENT.**
- 1.4. THIS BID IS SUBJECT TO THE PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT, 2000 AND THE PREFERENTIAL PROCUREMENT REGULATIONS, 2022, THE GENERAL CONDITIONS OF CONTRACT (GCC) AND, IF APPLICABLE, ANY OTHER SPECIAL CONDITIONS OF CONTRACT.

2. TAX COMPLIANCE REQUIREMENTS

- 2.1 BIDDERS MUST ENSURE COMPLIANCE WITH THEIR TAX OBLIGATIONS.
- 2.2 BIDDERS ARE REQUIRED TO SUBMIT THEIR UNIQUE PERSONAL IDENTIFICATION NUMBER (PIN) ISSUED BY SARS TO ENABLE THE ORGAN OF STATE TO VERIFY THE TAXPAYER'S PROFILE AND TAX STATUS.
- 2.3 APPLICATION FOR TAX COMPLIANCE STATUS (TCS) PIN MAY BE MADE VIA E-FILING THROUGH THE SARS WEBSITE WWW.SARS.GOV.ZA.
- 2.4 BIDDERS MAY ALSO SUBMIT A PRINTED TCS CERTIFICATE TOGETHER WITH THE BID.
- 2.5 IN BIDS WHERE CONSORTIA / JOINT VENTURES / SUB-CONTRACTORS ARE INVOLVED, EACH PARTY MUST SUBMIT A SEPARATE TCS CERTIFICATE / PIN / CSD NUMBER.
- 2.6 WHERE NO TCS PIN IS AVAILABLE BUT THE BIDDER IS REGISTERED ON THE CENTRAL SUPPLIER DATABASE (CSD), A CSD

NUMBER MUST BE PROVIDED.

2.7 NO BIDS WILL BE CONSIDERED FROM PERSONS IN THE SERVICE OF THE STATE, COMPANIES WITH DIRECTORS WHO ARE PERSONS IN THE SERVICE OF THE STATE, OR CLOSE CORPORATIONS WITH MEMBERS PERSONS IN THE SERVICE OF THE STATE.”

NB: FAILURE TO PROVIDE / OR COMPLY WITH ANY OF THE ABOVE PARTICULARS MAY RENDER THE BID NVALID.

SIGNATURE OF BIDDER:

CAPACITY UNDER WHICH THIS BID IS SIGNED:

(Proof of authority must be submitted e.g. company resolution)

DATE:

NB:

- *Quotation(s) must be addressed to PRASA before the closing date and time shown above.*
- *PRASA General Conditions of Purchase shall apply.*

SECTION 2

NOTICE TO BIDDERS

1. RESPONSES TO RFQ

Responses to this RFQ [Quotations] must not include documents or reference relating to any other quotation or proposal. Any additional conditions must be embodied in an accompanying letter.

Proposals must reach the PRASA before the closing hour on the date shown on SBD1 above, and must be enclosed in a sealed envelope.

2 COMMUNICATION

Respondent/s are warned that a response will be liable for disqualification should any attempt be made either directly or indirectly to canvass any SCM Officer(s) or PRASA employee in respect of this RFQ between the closing date and the date of the award of the business.

3 BIDDERS COMPLAINTS PROCESS

3.1 Bidders are advised utilize this email address (SCM.Complaints@prasa.co.za) for lodging of complains to PRASA in relation to this bid process. The following minimum information about the bidder must be included in the complaint:

3.1.1 Bid/Tender Description

3.1.2 Bid/Tender Reference Number

3.1.3 Closing date of Bid/Tender

3.1.4 Supplier Name;

3.1.5 Supplier Contact details

3.1.6 The detailed compliant

4 LEGAL COMPLIANCE

The successful Respondent shall be in full and complete compliance with any and all applicable national and local laws and regulations.

5 CHANGES TO QUOTATIONS

Changes by the Respondent to its submission will not be considered after the closing date and time.

6 PRICING

All prices must be quoted in South African Rand on a fixed price basis, including all applicable taxes.

7 BINDING OFFER

Any Quotation furnished pursuant to this Request shall be deemed to be an offer. Any exceptions to this statement must be clearly and specifically indicated.

8 DISCLAIMERS

PRASA is not committed to any course of action as a result of its issuance of this RFQ and/or its receipt of a Quotation in response to it. Please note that PRASA reserves the right to:

- Modify the RFQ's goods / service(s) and request Respondents to re-bid on any changes;
- Reject any Quotation which does not conform to instructions and specifications which are detailed herein;
- Reject Quotations submitted after the stated submission deadline or at the incorrect venue ;

Should a contract be awarded on the strength of information furnished by the Respondent, which after conclusion of the contract, is proved to have been incorrect, PRASA reserves the right to cancel the contract.

PRASA reserves the right to award business to the highest scoring bidder/s unless objective criteria justify the award to another Respondent.

Should the preferred fail to sign or commence with the contract within a reasonable period after being requested to do so, PRASA reserves the right to award the business to the next highest ranked Respondent provided that he/she is still prepared to provide the required goods at the quoted price.

9 LEGAL REVIEW

Proposed contractual terms and conditions submitted by a Respondent will be subjected to review and acceptance or rejection by PRASA's Legal Counsel, prior to consideration for an award of business.

10 NATIONAL TREASURY'S CENTRAL SUPPLIER DATABASE

Respondents are required to self-register on National Treasury's Central Supplier Database (CSD) which has been established to centrally administer supplier information for all organs of state and facilitate the verification of certain key supplier information. PRASA is required to ensure that price quotations are invited and accepted from prospective bidders listed on the CSD. Business may not be awarded to a

respondent who has failed to register on the CSD. Only foreign suppliers with no local registered entity need not register on the CSD. The CSD can be accessed at <https://secure.csd.gov.za/>.

11 PROTECTION OF PERSONAL DATA

In responding to this bid, PRASA acknowledges that it may obtain and have access to personal data of the Respondents. PRASA agrees that it shall only process the information disclosed by Respondents in their response to this bid for the purpose of evaluating and subsequent award of business and in accordance with any applicable law.

Furthermore, PRASA will not otherwise modify, amend or alter any personal data submitted by Respondents or disclose or permit the disclosure of any personal data to any Third Party without the prior written consent from the Respondents. Similarly, PRASA requires Respondents to process any personal information disclosed by PRASA in the bidding process in the same manner.

12 EVALUATION METHODOLOGY

PRASA will utilise the following criteria [not necessarily in this order] in choosing a Supplier/Service Provider, if so required:

EVALUATION CRITERIA	WEIGHTING
Stage 1 – Compliance	
Stage 1A	Mandatory Requirements
Stage 1B	Other Mandatory Requirements
Stage 2	
Technical/Functional Requirements	Threshold of 70%
Stage 3	
Price	80
Specific Goals	20
TOTAL	100

13 ADMINISTRATIVE RESPONSIVENESS

The test for administrative responsiveness will include completeness of response and whether all returnable and/or required documents, certificates; verify completeness of warranties and other bid requirements and formalities have been complied with. Incomplete Bids will be disqualified.

14 VALIDITY PERIOD

14.1 PRASA requires a validity period of **60 Working Days** from the closing date.

14.2 Respondents are to note that they may be requested to extend the validity period of their response, on the same terms and conditions, if the internal processes are not finalized within the validity

period. However, once the delegated authority has approved the process the validity of the successful respondent(s)' bid will be deemed to remain valid until finalization of the of award.),

15 PUBLICATION OF INFORMATION ON THE NATIONAL TREASURY E-TENDER PORTAL

Respondents are to note that, bid awards, amendments and cancellations will be published on the e-tender portal and or media used to advertise the bid. For the award of business, PRASA is required to publish the prices and preferences claimed of the successful and unsuccessful Respondents *inter alia* on the National Treasury e-Tender Publication Portal, (www.etenders.gov.za), on CIDB website for construction related RFQ's. (*Where applicable*).

16 RETURNABLE DOCUMENTS

Returnable Documents means all the documents, Sections and Annexures, as listed in the tables below. There are three types of returnable documents as indicated below and Respondents are urged to ensure that these documents are returned with the quotation based on the consequences of non-submission as indicated below:

15.1. Mandatory Returnable Documents

Failure to provide Mandatory Returnable Documents at the Closing Date and time of this RFQ will result in a Respondent's disqualification. Respondents are therefore urged to ensure that all documents are returned with their Quotations.

SECTION 3

1 EVALUATION CRITERIA:

Bidders are to comply with the following requirements and failure to comply may lead to disqualification.

Stage 1A – Mandatory Requirements

If you do not submit/meet the following mandatory documents/requirements, your be will be automatically disqualified.

Only bidders who comply with stage 1A will be evaluated further.

No.	Description of requirement	
a)	Completion of ALL RFP documentation (includes ALL declarations)	
b)	Price Schedule / Pricing form	
c)	Contractors must quote on all items listed on the BOQ	
d)	Joint Venture , Consortium Agreement or Partnering Agreement signed by all parties. The agreement should indicate the leading bidder where applicable.	

	(Delete if not applicable)	
e)	Bidders to complete submission register when dropping off bids into the tender-box	

Stage 1B –Other Mandatory Requirements

If you do not submit/meet the following mandatory documents/requirements, PRASA may request the bidder to submit the information within five (5) working days. Should this information not be provided, your bid proposal will be disqualified.

Only bidders who comply with stage 1B will be evaluated further.

No.	Description of requirement	
a)	Supply of valid SARS Pin	
b)	CSD supplier registration number	

2.1 Stage 2

Technical / Functionality Requirements

Scoring of Functionality:

The minimum threshold for the Technical/functionality criteria is **(70%)** and bidders who score below this minimum will not be considered for further evaluation in terms of price and Specific Goals.

ITEM	CRITERIA	SUB-CRITERIA	SCORING	WEIGHT
1	Calibration	The supplier must provide calibration certificates for <ul style="list-style-type: none"> • Multimeter • Insulation tester 	<ul style="list-style-type: none"> • Two calibration certificates (Multimeter, Insulation tester) = 5 • One calibration certificate =3 • No calibration certificate =1 	30
2	Contractor Experience	Relevant to Statement of work; Supply detailed Information of accumulated Projects in the last 5 years with traceable references in the form of purchase orders (PO) or	<ul style="list-style-type: none"> • Accumulated > R400,000.00 = 5 	20

		<p>contracts or signed invoices based on the thresholds listed in the scoring column.</p>	<ul style="list-style-type: none"> • Accumulated R300,000.00 to R399,999.99 = 4 • Accumulated R100,000.00 to R299,999.99 = 3 • Accumulated < R100,000.00 = 2 • No contracts or PO or invoices = 1 	
3	<p>Capacity: Staff experience; Relevant to Statement of Work</p>	<ul style="list-style-type: none"> • Bidders must provide CV and certified qualifications (not older than 3 months) of staff that will be undertaking the repairs, indicating relevant experience pertaining to the Statement of work and their qualification. The following qualifications are acceptable: Electrician/Electrical Fitter/Electronics Technician/Engineering Technician (light or heavy current). 	<ul style="list-style-type: none"> • Qualifications and CV with above three years' experience = 5 • Qualifications and CV with above two to three years' experience = 4 • Qualifications and CV with between one to two years' experience = 3 • Qualifications and CV under one year experience = 2 • No Qualifications or CV or part thereof = 1 	<p>20</p>

4	Capability	Tools: Bidder to provide letter indicating that the following test bench is available Mater controller test bench (Rollmech)	<ul style="list-style-type: none"> • 10M5 Master controller test bench (Rollmech) = 5 • No test bench (Rollmech) = 1 	30
	TOTAL			100

2.2 Stage 3- Price and Specific Goals

The following formula, shall be used to allocate scores to the interested bidders :

The maximum points for this tender are allocated as follows:

DETAILS	POINTS
PRICE	80
SPECIFIC GOALS	20
TOTAL POINTS FOR PRICE AND SPECIFIC GOALS	100

FORMULAE FOR PROCUREMENT OF GOODS AND SERVICES

POINTS AWARDED FOR PRICE

THE 80/20 PREFERENCE POINT SYSTEMS

A maximum of 80 points is allocated for price on the following basis:

80/20

$$PS = 80 \left(1 - \frac{Pt - P_{min}}{P_{min}} \right)$$

Where

Ps = Points scored for price of tender under consideration

Pt = Price of tender under consideration

Pmin = Price of lowest acceptable tender

POINTS AWARDED FOR SPECIFIC GOALS

3.1. In terms of Regulation 4(2); 5(2); 6(2) and 7(2) of the Preferential Procurement Regulations, preference points must be awarded for specific goals stated in the tender. For the purposes of this tender the tenderer will be allocated points based on the goals stated in table 1 below as may be supported by proof/ documentation stated in the conditions of this tender:

Table 1: Specific goals for the tender and points claimed are indicated per the table below.

Note to tenderers: The tenderer must indicate how they claim points for each preference point system.)

The specific goals allocated points in terms of this tender	Number of points allocated (80/20 system) (To be completed by the organ of state)	Number of points claimed (80/20 system) (To be completed by the tenderer)
B-BBEE - BEE cert/Affidavit (in case of JV, a consolidate scorecard will be accepted)	4 points	
Black Women Owned-Certified Copy of ID Documents of the owners	4 points	
Black Youth Owned-Certified Copy of ID documents of owners	4 points	
EME OR QSE 51% Black owned- Audited Annual Financial/B-BBEE Cert/Affidavit	4 points	
51% Black Owned - CIPC Documents/B-BBEE Certificate/Affidavit	4 points	

SECTION 4

PRICING AND DELIVERY SCHEDULE

Respondents are required to complete the attached Pricing Schedule **Annexure:**

- 1 Prices must be quoted in South African Rand, inclusive of all applicable taxes.
- 2 Price offer is firm and clearly indicate the basis thereof.
- 3 Pricing Bill of Quantity is completed in line with schedule if applicable.
- 4 Cost breakdown must be indicated.
- 5 Price escalation basis and formula must be indicated.

- 6 To facilitate like-for like comparison bidders must submit pricing strictly in accordance with this price schedule and not utilise a different format. Deviation from this pricing schedule could result in a bid being declared non-responsive.
- 7 Please note that should you have offered a discounted price(s), PRASA will only consider such price discount(s) in the final evaluation stage on an unconditional basis.
- 8 Respondents are to note that if price offered by the highest scoring bidder is not market related, PRASA may not award the contract to the Respondent. PRASA may:
 - 9 negotiate a market-related price with the Respondent scoring the highest points;;
 - 10 if that Respondent does not agree to a market-related price, negotiate a market-related price with the Respondent scoring the second highest points;
 - 11 if the Respondent scoring the second highest points does not agree to a market-related price, negotiate a market-related price with the Respondent scoring the third highest points;
 - 12 If a market-related price is not agreed with the Respondent scoring the third highest points, PRASA must cancel the RFQ.

I / We _____ (Insert Name of Bidding Entity) of _____

_____ code

(Full address) conducting business under the style or title of: _____ represented by: _____ in my capacity as:

_____ being duly authorised, hereby offer to undertake and complete the above-mentioned work/services at the prices quoted in the bills of quantities / schedule of quantities or, where these do not form part of the contract, at a lumpsum, of _____ R (amount in numbers);

_____ (amount in words) Incl. VAT.

DELIVERY PERIOD: Suppliers are requested to offer their earliest delivery period possible.



Delivery will be effected within working days from date of order. (To be completed by Service provider)

SECTION 5

PRASA GENERAL CONDITIONS OF PURCHASE

General

PRASA and the Supplier enter into an order/contract on these conditions to supply the items (goods/services/works) as described in the order/contract.

Conditions

These conditions form the basis of the contract between PRASA and the Supplier. Notwithstanding anything to the contrary in any document issued or sent by the Supplier, these conditions apply except as expressly agreed in writing by PRASA.

No servant or agent of PRASA has authority to vary these conditions orally. These general conditions of purchase are subject to such further special conditions as may be prescribed in writing by PRASA in the order/contract.

Price and payment

The price or rates for the items stated in the order/contract may include an amount for price adjustment, which is calculated in accordance with the formula stated in the order/contract.

The Supplier may be paid in one currency other than South African Rand. Only one exchange rate is used to convert from this currency to South African Rand. Payment to the Supplier in this currency other than South African Rand, does not exceed the amounts stated in the order/contract. PRASA pays for the item within 30 days of receipt of the Suppliers correct tax invoice.

Delivery and documents

The Supplier's obligation is to deliver the items on or before the date stated in the order/contract. Late deliveries or late completion of the items may be subject to a penalty if this is imposed in the order/contract. No payment is made if the Supplier does not provide the item as stated in order/contract.

Where items are to be delivered the Supplier:

Clearly marks the outside of each consignment or package with the Supplier's name and full details of the destination in accordance with the order and includes a packing note stating the contents thereof; On dispatch of each consignment, sends to PRASA at the address for delivery of the items, an advice note specifying the means of transport, weight, number of volume as appropriate and the point and date of dispatch; Sends to PRASA a detailed priced invoice as soon as is reasonably practical after dispatch of



the items, and states on all communications in respect of the order the order number and code number (if any).

Containers / packing material

Unless otherwise stated in the order/contract, no payment is made for containers or packing materials or return to the Supplier.

Title and risk

Without prejudice to rights of rejection under these conditions, title to and risk in the items passes to PRASA when accepted by PRASA.

Rejection

If the Supplier fails to comply with his obligations under the order/contract, PRASA may reject any part of the items by giving written notice to the Supplier specifying the reason for rejection and whether and within what period replacement of items or re-work are required.

In the case of items delivered, PRASA may return the rejected items to the Supplier at the Supplier's risk and expense. Any money paid to the Supplier in respect of the items not replaced within the time required, together with the costs of returning rejected items to the Supplier and obtaining replacement items from a third party, are paid by the Supplier to PRASA.

In the case of service, the Supplier corrects non-conformances as indicated by PRASA.

Warranty

Without prejudice to any other rights of PRASA under these conditions, the Supplier warrants that the items are in accordance with PRASA's requirements, and fit for the purpose for which they are intended, and will remain free from defects for a period of one year (unless another period is stated in the Order) from acceptance of the items by PRASA.

Indemnity

The Supplier indemnifies PRASA against all actions, suits, claims, demands, costs, charges and expenses arising in connection therewith arising from the negligence, infringement of intellectual or legal rights or breach of statutory duty of the Supplier, his subcontractors, agents or servants, or from the Supplier's defective design, materials or workmanship.

The Supplier indemnifies PRASA against claims, proceedings, compensation and costs payable arising out of infringement by the Supplier of the rights of others, except an infringement which arose out of the use by the Supplier of things provided by PRASA.

Assignment and sub-contracting

The successful Respondent awarded the contract may only enter into a subcontracting arrangement with PRASA's prior approval. The contract will be concluded between the successful Respondent and



PRASA, therefore, the successful Respondent and not the sub-contractor will be held liable for performance in terms of its contractual obligations.

Governing law

The order/contract is governed by the law of the Republic of South Africa and the parties hereby submit to the non-exclusive jurisdiction of the South African courts.

BIDDER'S DISCLOSURE

1. PURPOSE OF THE FORM

Any person (natural or juristic) may make an offer or offers in terms of this invitation to bid. In line with the principles of transparency, accountability, impartiality, and ethics as enshrined in the Constitution of the Republic of South Africa and further expressed in various pieces of legislation, it is required for the bidder to make this declaration in respect of the details required hereunder.

Where a person/s are listed in the Register for Tender Defaulters and / or the List of Restricted Suppliers, that person will automatically be disqualified from the bid process.

2. Bidder's declaration

2.1 Is the bidder, or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest¹ in the enterprise, employed by the state? **YES/NO**

2.1.1 If so, furnish particulars of the names, individual identity numbers, and, if applicable, state employee numbers of sole proprietor/ directors / trustees / shareholders / members/ partners or any person having a controlling interest in the enterprise, in table below.

Full Name	Identity Number	Name of State institution

2.2 Do you, or any person connected with the bidder, have a relationship with any person who is employed by the procuring institution? **YES/NO**

2.2.1 If so, furnish particulars:

.....
.....

2.3 Does the bidder or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest in the enterprise have any interest in any other related enterprise

¹ the power, by one person or a group of persons holding the majority of the equity of an enterprise, alternatively, the person/s having the deciding vote or power to influence or to direct the course and decisions of the enterprise.

whether or not they are bidding for this contract?

YES/NO

2.3.1 If so, furnish particulars:

.....
.....

3 DECLARATION

I, the undersigned, (name)..... in submitting the accompanying bid, do hereby make the following statements that I certify to be true and complete in every respect:

- 3.1 I have read and I understand the contents of this disclosure;
- 3.2 I understand that the accompanying bid will be disqualified if this disclosure is found not to be true and complete in every respect;
- 3.3 The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However, communication between partners in a joint venture or consortium² will not be construed as collusive bidding.
- 3.4 In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications, prices, including methods, factors or formulas used to calculate prices, market allocation, the intention or decision to submit or not to submit the bid, bidding with the intention not to win the bid and conditions or delivery particulars of the products or services to which this bid invitation relates.
- 3.4 The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.
- 3.5 There have been no consultations, communications, agreements or arrangements made by the bidder with any official of the procuring institution in relation to this procurement process prior to and during the bidding process except to provide clarification on the bid submitted where so required by the institution; and the bidder was not involved in the drafting of the specifications or terms of reference for this bid.
- 3.6 I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No 89 of 1998 and or may be reported to the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

I CERTIFY THAT THE INFORMATION FURNISHED IN PARAGRAPHS 1, 2 and 3 ABOVE IS CORRECT.

I ACCEPT THAT THE STATE MAY REJECT THE BID OR ACT AGAINST ME IN TERMS OF PARAGRAPH 6 OF PFMA SCM INSTRUCTION 03 OF 2021/22 ON PREVENTING AND

² Joint venture or Consortium means an association of persons for the purpose of combining their expertise, property, capital, efforts, skill and knowledge in an activity for the execution of a contract.

COMBATING ABUSE IN THE SUPPLY CHAIN MANAGEMENT SYSTEM SHOULD THIS DECLARATION PROVE TO BE FALSE.

.....
Signature Date

.....
Position Name of bidder

SBD 6.1

PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2022

This preference form must form part of all tenders invited. It contains general information and serves as a claim form for preference points for specific goals.

NB: BEFORE COMPLETING THIS FORM, TENDERERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF THE TENDER AND PREFERENTIAL PROCUREMENT REGULATIONS, 2022

1. GENERAL CONDITIONS

1.1 The following preference point systems are applicable to invitations to tender:

- the 80/20 system for requirements with a Rand value of up to R50 000 000 (all applicable taxes included); and
- the 90/10 system for requirements with a Rand value above R50 000 000 (all applicable taxes included).

1.2 **To be completed by the organ of state**

(delete whichever is not applicable for this tender).

- a) The applicable preference point system for this tender is the **80/20** preference point system.
- b) Either the **80/20 preference point system** will be applicable in this tender. The lowest/ highest acceptable tender will be used to determine the accurate system once tenders are received.

1.3 Points for this tender (even in the case of a tender for income-generating contracts) shall be awarded for:

- (a) Price; and
- (b) Specific Goals.

$$Ps = 80 \left(1 - \frac{Pt - P_{min}}{P_{min}} \right) \quad \text{or} \quad Ps = 90 \left(1 - \frac{Pt - P_{min}}{P_{min}} \right)$$

Where

- Ps = Points scored for price of tender under consideration
Pt = Price of tender under consideration
Pmin = Price of lowest acceptable tender

3.3. FORMULAE FOR DISPOSAL OR LEASING OF STATE ASSETS AND INCOME GENERATING PROCUREMENT

3.3.1. POINTS AWARDED FOR PRICE

A maximum of 80 or 90 points is allocated for price on the following basis:

$$\begin{array}{ccc} \mathbf{80/20} & \mathbf{or} & \mathbf{90/10} \\ \\ Ps = 80 \left(1 + \frac{Pt - P_{max}}{P_{max}} \right) & \text{or} & Ps = 90 \left(1 + \frac{Pt - P_{max}}{P_{max}} \right) \end{array}$$

Where

- Ps = Points scored for price of tender under consideration
Pt = Price of tender under consideration
Pmax = Price of highest acceptable tender

4. POINTS AWARDED FOR SPECIFIC GOALS

- 4.1. In terms of Regulation 4(2); 5(2); 6(2) and 7(2) of the Preferential Procurement Regulations, preference points must be awarded for specific goals stated in the tender. For the purposes of this tender the tenderer will be allocated points based on the goals stated in table 1 below as may be supported by proof/ documentation stated in the conditions of this tender:
- 4.2. In cases where organs of state intend to use Regulation 3(2) of the Regulations, which states that, if it is unclear whether the 80/20 or 90/10 preference point system applies, an organ of state must, in the tender documents, stipulate in the case of—
- (a) an invitation for tender for income-generating contracts, that either the 80/20 or 90/10 preference point system will apply and that the highest acceptable tender will be used to determine the applicable preference point system; or
 - (b) any other invitation for tender, that either the 80/20 or 90/10 preference point system will apply and that the lowest acceptable tender will be used to determine the applicable preference point system,
- then the organ of state must indicate the points allocated for specific goals for both the 90/10 and 80/20 preference point system.

Table 1: Specific goals for the tender and points claimed are indicated per the table below.

(Note to organs of state: Where either the 90/10 or 80/20 preference point system is applicable, corresponding points must also be indicated as such.)

Note to tenderers: The tenderer must indicate how they claim points for each preference point system.)

The specific goals allocated points in terms of this tender	Number of points allocated (80/20 system) (To be completed by the organ of state)	Number of points claimed (80/20 system) (To be completed by the tenderer)
B-BBEE - BEE cert/Affidavit (in case of JV, a consolidate scorecard will be accepted)	4 points	
Black Women Owned-Certified Copy of ID Documents of the owners	4 points	
Black Youth Owned-Certified Copy of ID documents of owners	4 points	
EME OR QSE 51% Black owned- Audited Annual Financial/B-BBEE Cert/Affidavit	4 points	
51% Black Owned - CIPC Documents/B-BBEE Certificate/Affidavit	4 points	

DECLARATION WITH REGARD TO COMPANY/FIRM

4.3. Name of company/firm.....

4.4. Company registration number:

4.5. TYPE OF COMPANY/ FIRM

- Partnership/Joint Venture / Consortium
- One-person business/sole propriety
- Close corporation
- Public Company
- Personal Liability Company
- (Pty) Limited
- Non-Profit Company
- State Owned Company

[TICK APPLICABLE BOX]

4.6. I, the undersigned, who is duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the specific goals as advised in the tender, qualifies the company/ firm for the preference(s) shown and I acknowledge that:

- i) The information furnished is true and correct;
- ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form;

- iii) In the event of a contract being awarded as a result of points claimed as shown in paragraphs 1.4 and 4.2, the contractor may be required to furnish documentary proof to the satisfaction of the organ of state that the claims are correct;
- iv) If the specific goals have been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the organ of state may, in addition to any other remedy it may have –
 - (a) disqualify the person from the tendering process;
 - (b) recover costs, losses or damages it has incurred or suffered as a result of that person's conduct;
 - (c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation;
 - (d) recommend that the tenderer or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted from obtaining business from any organ of state for a period not exceeding 10 years, after the *audi alteram partem* (hear the other side) rule has been applied; and
 - (e) forward the matter for criminal prosecution, if deemed necessary.

.....
SIGNATURE(S) OF TENDERER(S)

SURNAME AND NAME:

DATE:

ADDRESS:

.....

.....

.....

SECTION 7-N/A

CERTIFICATE OF ATTENDANCE OF COMPULSORY RFQ BRIEFING

Request number:	
Request for Proposal:	

Attendance

This is to certify that _____ has / have today attended the site inspection / RFQ briefing session to which this enquiry relates.

THUS DONE and SIGNED at _____ on this _____ day of _____

_____ Designation
for / on behalf of PRASA

Acknowledgement

This is to certify that the Bidder attended the above mentioned briefing session/ site inspection and has / have acquainted himself / themselves with the Contract, Project Specification / Special Conditions, Specifications and / or Bills of Quantities / Schedule of Quantities / Schedule of Prices, together with the drawings enumerated therein, as laid down by the PRASA for the carrying out of the proposed WORKS to which the enquiry relates

THUS DONE and SIGNED at _____
on this _____ day of _____

DULY AUTHORISED SIGNATORY(IES)	WITNESSES
1. _____	1. _____
2. _____	2. _____
3. _____	3. _____

SECTION 8- SCOPE OF WORK

1. INTRODUCTION

The purpose of this project is to obtain the services of a suitably qualified organisation to provide repair and supply to 10m5 Single handed master controller, Vigi- drive, Emergency brake valve, Auxiliary isolating switch and High-Tension Isolating key switch (powering and braking system components) over a period of thirty-six months.

2. BACKGROUND INFORMATION

The triple lever 10M5 master controller is used as a single hand control for authorisation, direction, power and brake operations.

The purpose of the Vigi-drive system is to ensure that the driver is vigilant at all times while the system is active.

The Emergency Valve Applicator functions as a stand-alone unit for engaging the emergency brakes

The interlock kit is a set of controls, consisting out of a two interface plates and a set of keys with a double-bolt lock for a door. The plates serve purpose of triggering the lowering and rising of the pantographs and grounding the electricity

2.1 STATUS QUO

The 10M5 powering and braking system components are failing to performed their function, which powering, braking, acceleration and vigilance due to vandalism and deterioration.

2.2 PROBLEM STATEMENT

Previously this item was procured every quarter on a three-quote system. Due to an audit finding as per policy, this system of procurement was deemed to be parcelling. Stock outs have a negative effect on train availability and increases delays and cancellations. Therefore, Train Operations will be forced to reduce the number of coaches per train set. In some cases, the entire trainset will have to be removed from service. The ripple effect of this is:

- Overcrowding on trains that are in service
- Safety risks imposed on commuters which could be fatal
- Abnormal stress placed on the high voltage rotating machines and braking systems.
- Commuters sitting in-between coaches, hence tramping cables and causing in-service delays and cancellations

2.3 PICTORIALS



Fig A – Components as per Scope of Work

3. OBJECTIVE OF THE PROPOSED PROJECT

3.1 DESIRED OUTCOMES FOR CARRYING OUT THE PROPOSED PROJECT

The main objective of the contract is to improve the availability of trainsets by meeting the required daily trainset demands for income generation, commuter satisfaction and passenger safety.

3.2 PROJECT BENEFITS TO PRASA

This contract will enable PRASA to meet its customer needs by ensuring a stable and maintainable trainset fleet for operational improvement. This contract will add value by sustaining passenger safety, reducing train delays and cancellations caused by material shortages.

3.3 CURRENT MECHANISMS IN PLACE TO ADDRESS THE PROBLEM

- Borrow from other regions, this is depended on stock availability
- Cannibalize from stopped coaches which is not recommended

4. SCOPE OF WORK AND AREAS OF FOCUS

4.1 SCOPE OF THE DESIRED SOLUTION

- The scope of work for this project shall entail the following activities:
- Collect components
- Assess and submit a quotation for repairs
- On receiving a Purchase order, repair component and return to Metrorail KZN, Rolling stock

4.2 REQUIRED PROFESSIONAL SERVICES

Setup a contract for the repairs and supply to 10M5 powering and braking system components on an “as-and-when” basis for a period of 36 months for contractors that undergo and meet the minimum requirements

4.3 DETAILS ON THE PREFERRED SOLUTION

- These BOQ components are a daily maintenance requirement for Rolling Stock maintenance teams and are regarded as critical; therefore, there must always be a stable and sustained float.
- This will further allow PRASA to comply with its own safety standard set in the checklists and to address the RSR improvement directive in a long-term basis

4.4 TARGETED AREA BY THIS PROJECT

This contract and its service, target all KZN Metrorail Rolling Stock coaches

4.5 PRASA’S RESPONSIBILITIES

Before commencement of any work, PRASA to provide contractor with a Purchase Order.

4.6 OTHER RELATED PROJECTS

None

5. TECHNICAL SPECIFICATION OF THE SERVICES REQUIRED

5.1. This contract covers the Repairs and supply to 10m5 Single handed master controller, Vigi- drive, Emergency brake valve, Auxiliary isolating switch and HT Isolating switch (powering and braking system components) over a period of three years for KZN Metrorail

5.1.1 Single handed master controller (10M5):

- The triple lever 10M5 master controller is used as a single hand control for authorisation, direction, power and brake operations. Designed as a single and more user-friendly replacement for the traditional set of controls of the 10M based locomotive.
- Lever one, ON/OFF
- Lever two, directional
- Lever three, power and braking
- Horizontal pushbutton, dead man’s switch
- Vertical pushbutton, incremental speed increase
- Provision has been made for a dead man’s system.

- The controller is fitted with a pushbutton (4) on the main control lever that forces the driver to press or depress the button after extended periods of inactivity.
- If the driver remains passive an alarm is sounded and if still no activity is detected the emergency brakes will be applied.
- Single unit controlling many functions and operations.
- Interlock mechanism prevents wrongful selection of drive.
- Dimensions- Weight: 11.6kg
- Materials used Black anodised and powder coated high tensile aluminium frame, levers and cover plate.
- Stainless steel screws and nuts, used for oxidation free properties.
- Electric parameters
- S847* S870*
- Conventional thermal current: 10A, 10A
- Rated insulation voltage: 400V ,250V
- Used at 110V DC
- (*S870- switches: in Power/brake lever; S847- cam following switches)
- Pneumatic parameters: Maximum pressure: 8 bar & Minimum pressure : 4 bar
- Maintenance: No lubrication required due to dry running Vesconite bearings.
- Heavy duty design requires only maintenance if breakage occurs.
- None of the 3 levers are damaged or bent.
- The DCK Socket is intact.
- No physical or visual damage to the frame.
- No physical or visual damage to the valves.
- No physical or visual damage to the micro switches.
- No physical or visual damage to the WAGO plugs and connectors.
- No physical or visual damage to the wiring.
- The 2 diodes are still connected on the WAGO Strip.
- The pipes between the valves are present and connected
- Check that DCK socket functions properly (cannot be turned by any other means besides Drivers Control Key).
- Replace DCK socket
- Check that DCK lever can move freely between ON and OFF positions when DCK is on.
- Check that Forward and Reverse lever can move freely between FORWARD (F) and REVERSE(R) positions when DCK is on and DCK lever is in the ON position.
- Check that Powering and Braking lever can move freely between from the OFF position to SER. PAR. WF. LAP. ON and EMR. and REVERSE positions when DCK is on and DCK lever is in the ON position and the Forward and Reverse lever is in either 'F' or 'R' positions.
- Check that both the 'Deadman' and 'Notch' switches are not stuck.

5.1.2 *Vigi- drive(10M5):*

- The purpose of the Vigi-drive system is to ensure that the driver is vigilant at all times while the system is active.
- The system has been designed for ease of operation and improved safety of the trainsets.

- There is a Deadman function, which will cause an Emergency Brake Application and Traction Shutdown after a short time when a Deadman trigger is detected.
- In addition, there is a vigilance mode that requires to be reset after a variable period of about 30 to 50 seconds.
- Failure to reset the Vigilance mode will cause an Emergency Brake Application.
- The driver is given an audible alarm when the system needs to be reset.
- The system is deactivated in the following conditions: - The cab is vacated. &
- The train is stationary, and the Forward/Reverse lever is in the Neutral Position.
- Deadman Mode: While the train is moving, or the Forward/Reverse lever is not in neutral, then the system is active, and the Deadman push button must be depressed at all times.
- System Validation and Reset: To verify that the Deadman system is functioning correctly, it is a requirement that the system be reset when the Powering/Braking lever is moved from any powering position to the OFF position.
- When the OFF position is attained, the alarm will sound reminding the driver that the Deadman System has to be reset.
- To reset the system, the driver must release and again depress the Deadman Push Button.
- This will cause the system to reset, and the alarm will stop sounding.
- Failure to reset the system after a short time limit will cause an Emergency Brake Application and Traction Shutdown.
- Deadman Operation: If the Deadman Push Button is released at any time while the system is active, an Emergency Brake Application will be made without any warning after a short time delay.
- To allow for hand repositioning, the Deadman Push Button may be released and again quickly depressed without the Deadman system triggering an Emergency Brake.
- If the Emergency Brake Application occurs while in the powering mode, then the Powering/Braking lever must be returned to the OFF position to reset the Deadman system.
- Vigilance Mode: When the Deadman Push Button has been continuously depressed for a variable period between 30 and 50 seconds, the alarm will sound reminding the driver that the Vigilance System has to be reset.
- To reset the system, the driver must release and again depress the Deadman Push Button irrespective of the position of the Powering/Braking lever.
- This will reset the system and the alarm will stop sounding.
- Failure to reset the system after a short time limit will cause an Emergency Brake Application.
- If the Emergency Brake Application occurs while in the powering mode, then the Powering/Braking lever must be returned to the OFF position to reset the Deadman system.
- When the SHMC is in the OFF or any Braking position, and the Deadman Push Button is released and again depressed after even a very short time, the 50-second timer will be reset before the timer has expired.
- The 50-second timer will therefore only provide a warning signal and require to be reset if the push button has been depressed continuously for more than 30 to 50 seconds.
- When the SHMC is in any Powering position, and the Deadman Push Button is released and again depressed, there will be no effect on the 50-second timer.
- The timer will not be reset in this mode
- Check that the casing is intact and not physically damaged.
- Check that all 10 LED's are still present and mounted to the PCB.
- Check that the three plug connectors, CN1, CN2 & CN3 are intact and still connected to the PCB.
- Check that the 4 threaded mounts are still present at the bottom of the Vigi-drive unit.
- Check that LED indication sticker is present and legible.
- Check that the 4 hexagon cap screws that hold the cover are not stripped and can be unscrewed.
- Check that the 4 threaded mounts at the bottom of the Vigi-drive unit are not stripped.

5.1.3 Emergency brake valve (10M5):

- The Emergency Valve Applicator functions as a stand-alone unit for engaging the emergency brakes
- The unit mechanically nullifies the brake unit vacuum when engaged.
- The one lever unit fits into the driver cabin and bolts onto the vacuum system of the brakes.
- The lever has two positions, ON and OFF.
- The unit also features a safety pin that locks when ON is engaged.
- The unit breaks the vacuum, when engaged, by mechanically opening a valve which is directly connected to the air vacuum system.
- Simultaneously a NO/NC electric switch is triggered that turns the exhausters off until the Emergency brake is disengaged.
- A pin locks the lever in the ON position.
- Resistance is offered against the engagement of the brakes by two pistons that pushes against the upward motion of the lever through positive air pressure applied to their cylinders.
- These pistons and cylinders are made from Copolymer to counter corrosion, especially when used in coastal areas.
- The force needed to overcome the force exerted on the handle by the piston is in the region of 50kg or 490N.
- To engage the brake, opening the valve, the lever must be pushed into the ON position.
- The large amount of resistance provided from two pistons pushing downward causes that a person will not easily engage the brake in a situation that is irrelevant to the application of the brake, such as a being used as a handbrake.
- The interface with the operator consists out of a single lever that when engaged, opening the valve, locks a pin in place that prevents the lever from returning to the OFF position by accident.
- To return the lever to the OFF position the pin must be lifted by the operator.
- The pin is situated on the lever itself but placed so that the pin can only be lifted by intent.
- The pin is incorporated into the design, as a safety precaution to ensure that when a scenario arises where the locomotive experiences extreme forces, such as in a derailing, the lever does not jump back to OFF.
- Check that the casing is intact and not physically damaged.
- Check that all 10 LED's are still present and mounted to the PCB.
- Check that the three plug connectors, CN1, CN2 & CN3 are intact and still connected to the PCB.
- Check that the 4 threaded mounts are still present at the bottom of the Vigi-drive unit.
- Check that LED indication sticker is present and legible.
- Check that the 4 hexagon cap screws that hold the cover are not stripped and can be unscrewed.
- Check that the 4 threaded mounts at the bottom of the Vigi-drive unit are not stripped.

5.1.4 Auxiliary isolating key switch unit (10m5):

- The interlock kit is a set of controls, consisting out of a two interface plates and a set of keys with a double-bolt lock for a door.
- The plates serve purpose of triggering the lowering and raising of the pantographs and grounding the electricity.
- The keys force a process whereby the appropriate course of activation, or deactivation, of the controls and components of the train is followed.

- The two plates each have two levers and two keyholes. Lever one, on both plates, has a hole where the DCK (Driver Control Key) is to be used.
- The other keyhole is for the key that fits in both the lock (used in the door to other controls) and the panel.
- This keyhole is colour coded and is to be used in conjunction with the double-bolt lock.
- The Auxiliary HT plate consists of two levers each triggering two NO/NC electric snap switches and a pneumatic switch actuated by lever one.
- Provided is a lock set with one lock and two keys, colour coded (blue and orange).
- Lever one has a lock built in which can only be unlocked with the DCK.
- The lock built into the panel is locked by the blue key that is used on the lock provided as well.
- The lock provided is fitted to a door that encloses other, high voltage, controls.
- The lock has two keyholes.
- Both plates works in exactly the same way to the operator (only differ in the key colours).
- With the Aux HT plate and its accompanying lock the door, to other controls, is locked with the blue key free.
- In this stadium the orange key is captive in the double-bolt lock with the door locked closed.
- From here the DCK is used to unlock Lever one and then the lever can be turned.
- When the lever is in the Live position the DCK can be removed again.
- Thus the DCK is never captive in the process.
- If and only if Lever one is in the Live position and the blue key is used on the panel can Lever two be turned.
- To return the levers to the Earthed position first Lever two must be moved to to Earthed where after the DCK must be inserted and then Lever one can be moved to then Earthed position.
- Both the DCK and the blue key can be removed.
- The blue key can now be used to unlock the door to the controls, the blue key is captive when the door is open and the orange key can be removed.
- The reason or this process is to hand authority to the right person at the right time through the capabilities of the keys.
- The driver handles the DCK and a technician the colour coded keys.
- This facilitates a process whereby each member busies himself with tasks assigned to him.
- Check for any physical damage to the Auxiliary isolating switch frame.
- Check for excessive wear on the cams.
- Check for any damage to the air valve.
- Check that the DCK socket is not physically damaged.
- Check that the respective Blue and Orange Master Keys socket is not physically damaged.
- Check that the two levers are not damaged.
- Check that the electrical plugs and wiring is not damaged.
- Check that the micro switches are not burnt or damaged.
- Mechanical inspection for defects:
 - Check that DCK socket cannot be turned by any other means than with a drivers control key.
 - Check that lever 1 turns 90° when the DCK is inserted and turned.
 - Check that the micro switches are switching when lever is turned.
 - Check that lever 2 turns 90° when respective master key is inserted and turned
 - Check that the micro switches are switching when lever is turned.

5.1.5 High Tension Isolating key switch unit (10m5)

- The interlock kit is a set of controls, consisting out of a two interface plates and a set of keys with a double-bolt lock for a door.

- The plates serve purpose of triggering the lowering and raising of the pantographs and grounding the electricity.
- The keys force a process whereby the appropriate course of activation, or deactivation, of the controls and components of the train is followed.
- The two plates each have two levers and two keyholes.
- Lever one, on both plates, has a hole where the DCK (Driver Control Key) is to be used.
- The other keyhole is for the key that fits in both the lock (used in the door to other controls) and the panel.
- This keyhole is colour coded and is to be used in conjunction with the double-bolt lock.
- The HT plate consists of two levers. Lever one actuating two NO/NC electric snap switches and a pneumatic switch.
- Lever two actuates two NO/NC electric snap switches.
- As with the Aux HT kit there is a lock set provided, with one double-bolt lock and two keys, colour coded (yellow and green).
- Lever one has a lock built in which can only be unlocked with the DCK.
- The lock built into the panel is locked by the green key that is used on the lock provided as well.
- The lock provided is fitted to a door that encloses other, high voltage, controls (different to those of the Aux HT).
- The lock has two keyholes.
- Both plates works in exactly the same way to the operator (only differ in the key colours).
- With the Aux HT plate and its accompanying lock the door, to other controls, is locked with the blue key free.
- In this stadium the orange key is captive in the double-bolt lock with the door locked closed.
- From here the DCK is used to unlock Lever one and then the lever can be turned.
- When the lever is in the Live position the DCK can be removed again.
- Thus the DCK is never captive in the process.
- If and only if Lever one is in the Live position and the blue key is used on the panel can Lever two be turned.
- To return the levers to the Earthed position first Lever two must be moved to to Earthed where after the DCK must be inserted and then Lever one can be moved to then Earthed position.
- Both the DCK and the blue key can be removed.
- The blue key can now be used to unlock the door to the controls, the blue key is captive when the door is open and the orange key can be removed.
- The reason or this process is to hand authority to the right person at the right time through the capabilities of the keys.
- The driver handles the DCK and a technician the colour coded keys.
- This facilitates a process whereby each member busies himself with tasks assigned to him.
- Check for any physical damage to the Auxiliary isolating switch frame.
- Check for excessive wear on the cams.
- Check for any damage to the air valve.
- Check that the DCK socket is not physically damaged.
- Check that the respective Green and Yellow Master Keys socket is not physically damaged.
- Check that the two levers are not damaged.
- Check that the electrical plugs and wiring is not damaged.
- Check that the micro switches are not burnt or damaged.
- Check that DCK socket cannot be turned by any other means than with a drivers control key.
- Check that lever 1 turns 90° when the DCK is inserted and turned.
- Check that the micro switches are switching when lever is turned.
- Check that lever 2 turns 90° when respective master key is inserted and turned
- Check that the micro switches are switching when lever is turned.

5.2 WARRANTY

- The repaired components must be supplied with a twelve-month warranty from date of fitment
- New components to be supplied with an eighteen-month warranty from date of fitment

5.3 TRANSPORT

- The delivery and collection of the components from KZN Rolling stock depot will be at the cost of the Contractor. This cost must be factored into the final price of the component.
- While in transit to and from the Springfield depot the supplier will be held liable/responsible for any loss or damage to the components.

5.4 PACKAGING:

- Due to the sensitivity of the components, they must be individually bubble wrapped and packaged into boxes.
- Components will be sent for Repairs in batches of no less than five items at a time (combined)

5.5 DELIVERY

- 10 days for strip and quote after collection of components.
- Three weeks from the date of the Purchase Order to deliver refurbished components.
- Purchase orders will be issued on an as and when basis throughout the duration of the contract.

5.6 COMPLIANCE

- Components that were refurbished and delivered which are found to be non-conforming will be returned to the supplier at their own transport cost. The contractor will be allowed 10 working days to correct the non-conformance and return the refurbished components to PRASA.
- All specifications listed in this tender document must be met
- Supplier to make use of original equipment manufacturer (OEM) approved material/spare parts
- All components must be upgraded to the latest software as per OEM specifications
- All components, once tested and certified, shall be issued with a compliance certificate
- All components must have a quality assurance label indicating the name of the organisation, date, card tested by.
- Contractors are not allowed to change the serial numbers of the components.

5.7 PREVIOUS EXPERIENCE

- Contractors to supply detailed information of projects that were done which are of similar nature. Only purchase orders, contracts or signed invoices will be accepted
- These Purchases orders, contracts or signed invoices must be related to the repairs as listed in the statement of work
- Qualification and CV of staff that will be undertaking the repairs, indicating their qualification and relevant experience pertaining to the Statement of work. The following qualifications are acceptable: Electrician/Electrical Fitter/Electronics Technician/Engineering Technician (light or heavy current)

5.8 PENALTIES

- 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.
- Metrorail KZN reserves the right to test the product at any given time during the contract period for compliance. The Supplier 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 (Metrorail KZN and the Contractor) to discuss the outcome of the investigation and costs incurred.

5.9. TOOLS REQUIRED

The following tools are required in order to repair coach and traction controller equipment

- Calibrated Multimeter
- Calibrated Insulation tester
- An OEM approved 10M5 Single handed master controller test bench (Rollmech)

6. TIME FRAMES / PROGRAMS

Contract period

This contract will be over a period of thirty-six months or attaining a value of R5 million (including VAT). The contract will terminate, either when the thirty-six months or the contract value is reached, whichever comes first

Program of works

The contract will be driven by maintenance demand that arises as PRASA continuously executes the recovery plan to increase and number of trains in service and sustain as such

BILL OF QUANTITIES
10 m5 Single handed master controller

ITEM NO	ITEM DESCRIPTION	UOM	QTY	UNIT PRICE – Including VAT	
1.	Strip and quote	Each	1		
2.	Replace Black Anodised & Powder Coated High Tensile Aluminium Frame	Each	1		
3.	Repair Black Anodised & Powder Coated High Tensile Aluminium Frame	Each	1		
4.	Replace Black Anodised & Powder Coated High Tensile Aluminium Cover Plate	Each	1		
5.	Repair Black Anodised & Powder Coated High Tensile Aluminium Cover Plate	Each	1		
6.	Replace Drivers Control Key(DCK) Keyhole Slot/Socket	Each	1		
7.	Replace Drivers Control Key(DCK) ON/OFF Lever	Each	1		
8.	Replace Forward and Reverse Directional Lever	Each	1		
9.	Replace Powering and Braking/Deadman switch/Notch switch Assembly Lever	Each	1		
10.	Replace Deadman Push Button Switch	Each	1		
11.	Replace Notch Push Button Switch	Each	1		
12.	Replace ON/OFF Lever Cam	Each	1		
13.	Replace Directional Lever Cam	Each	1		
14.	Replace Powering and Braking Lever Cam	Each	1		
15.	Replace Cam Shaft Assembly including Vesconite bearings	Each	1		
16.	Replace Valve (R-3-1/4B) with Lever	Each	1		
17.	Replace Main Air Chamber	Each	1		
18.	Repair Main Air Chamber	Each	1		
19.	Replace Valve (VL/0-3-1/4)	Each	1		
20.	Replace Solenoid Valve (MFH-3-M5)	Each	1		

21.	Replace Solenoid for valve (MFHG-96/110) 110Vdc	Each	1		
22.	Replace Wago Plug crimp socket strip (DIN rail type fitting)	Each	1		
23.	Replace DIN rail	Each	1		
24.	Replace Air pipe Couplers	Each	1		
25.	Replace Micro switch with lever (S847 W3B2e)	Each	1		
26.	Replace Diode BY2000 (2000 Volt; 3 Amp)	Each	1		
27.	Replace Air Pipe	Each	1		
28.	Replace Wire Electrical Multi-strand 2mm ²	Each	1		
29.	Replace Screws (Stainless steel)	Each	1		
30.	Replace Nuts (Stainless steel)	Each	1		
31.	Replace Electrical switches	Each	1		
32.	Replace Solenoid coil	Each	1		
33.	Assemble and test for full functionality	Each	1		
34.	New mater controller 10M5 (PRASA material no. M00104974)	Each	1		
	TOTAL:				

b. 10m5 Vigi- drive

ITEM NO	ITEM DESCRIPTION	UOM	QTY	UNIT PRICE – Including VAT	
1.	Strip and quote	Each	1		
2.	Replace Metal Electroplated Base Plate with 10 threaded Stud mounts	Each	1		
3.	Replace Metal Electroplated Cover with 4 mounting holes	Each	1		
4.	Replace PCB Spacer HEX Stand-Off Pillar 55mm long	Each	1		
5.	Replace Cover Mounting Cap Screw Stainless Steel	Each	1		
6.	Replace PCB Double sided	Each	1		
7.	Replace Relay and base OA5602.18/2016L1/61, 110 Volt coil, 10 Amp Contacts	Each	1		
8.	Replace Diode BY2000, 2000 Volt, 3 Amp	Each	1		
9.	Replace Resistor Carbon Film, 1 Watt, 5% tolerance	Each	1		
10.	Replace Resistor Carbon Film, ½ Watt, 1% tolerance	Each	1		
11.	Replace Resistor Wire wound, 5 Watt, 5% tolerance	Each	1		
12.	Replace Capacitor 330nF 250 Volt, Polyester	Each	1		
13.	Replace Capacitor 22µF 160 Volt, Electrolytic, Radial	Each	1		
14.	Replace Capacitor 47µF 160 Volt, Electrolytic, Radial	Each	1		
15.	Replace Capacitor 220µF 250 Volt, Electrolytic, Radial	Each	1		
16.	Replace Transient-Voltage-Suppression Diode KE16A 1500 Volt	Each	1		
17.	Replace Hex FET Power MOSFET IRF1840, 500 Volt, 4.5 Amp	Each	1		
18.	Replace LED Classic Red 3mm LT-0074	Each	1		
19.	Replace Holder for 3mm LED, Black Plastic, 90° angle.	Each	1		
20.	Replace PCB Mount Terminal Block, 5-Pin	Each	1		
21.	Replace PCB Mount Terminal Block, 10-Pin	Each	1		
22.	Replace PCB Mount Terminal Block, 12-Pin	Each	1		

23.	Replace Assemble and test for full functionality	Each	1		
24.	New Vigi drive (PRASA Material no. M00031245)	Each	1		
TOTAL:					

c. 10m5 Emergency brake valve

ITEM NO	ITEM DESCRIPTION	UOM	QTY	UNIT PRICE – Including VAT	
1.	Strip and quote	Each	1		
2.	Replace Black Anodised & Powder Coated High Tensile Aluminium Frame	Each	1		
3.	Repair Black Anodised & Powder Coated High Tensile Aluminium Frame	Each	1		
4.	Replace Black Anodised & Powder Coated High Tensile Aluminium Cover Plate	Each	1		
5.	Repair Black Anodised & Powder Coated High Tensile Aluminium Cover Plate	Each	1		
6.	Replace Emergency Braking Lever	Each	1		
7.	Replace Safety Catch Pin	Each	1		
8.	Replace PVC Cam Braking Assembly	Each	1		
9.	Repair PVC Cam Braking Assembly	Each	1		
10.	Replace SIL Male Power Terminal 8-Way	Each	1		
11.	Replace Micro switch with lever (S847 W3B2e)	Each	1		
12.	Replace Solenoid Valve (MFH-3-M5)	Each	1		
13.	Replace Solenoid for valve (MFHG-96/110) 110Vdc	Each	1		

14.	Replace Main Brake Valve Assembly with mounting.	Each	1		
15.	Repair Main Brake Valve Assembly with mounting.	Each	1		
16.	Replace Air pipe Couplers.	Each	1		
17.	Replace Air Pipe.	Each	1		
18.	Replace Wire Electrical Multi-strand 2mm ²	Each	1		
19.	Replace Screws (Stainless steel)	Each	1		
20.	Replace Nuts (Stainless steel)	Each	1		
21.	Replace Solenoid coil	Each	1		
22.	Assemble and test for full functionality	Each	1		
23.	New emergency brake valve (PRASA material no. M00015942)	Each	1		
TOTAL:					

d. 10m5 Auxiliary isolating switch

ITEM NO	ITEM DESCRIPTION	UOM	QTY	UNIT PRICE – Including VAT	
1.	Strip and quote	Each	1		
2.	Replace Black Anodised & Powder Coated High Tensile Aluminium Frame	Each	1		
3.	Replace Black Anodised & Powder Coated High Tensile Aluminium Cover Plate	Each	1		
4.	Replace Lever 1 HVCDIL Aluminium with (DCK) Keyhole Slot/Socket Lever Assembly	Each	1		
5.	Replace Drivers Control Key Slot/Socket Mechanism	Each	1		
6.	Replace Lever 2 HVCDIL Aluminium Lever Assembly	Each	1		
7.	Replace Lever 1 HVCDIL Cam Aluminium	Each	1		
8.	Replace Lever 2 HVCDIL Cam Aluminium	Each	1		
9.	Replace Insert for Master Key	Each	1		
10.	Replace Master Key Lock Mechanism	Each	1		
11.	Replace Lever 2 HVCDIL Linkage Connector	Each	1		

12.	Replace Cam Controlled Interlock Mechanism	Each	1		
13.	Repair Cam Controlled Interlock Mechanism	Each	1		
14.	Replace SIL Male Power Terminal 8-Way	Each	1		
15.	Replace Micro switch with lever (S847 W3B2e)	Each	1		
16.	Replace Switch Valve (R-3-1/4B) with Lever	Each	1		
17.	Replace Wire Electrical Multi-strand 2mm ²	Each	1		
18.	Replace Screws (Stainless steel)	Each	1		
19.	Replace Nuts (Stainless steel)	Each	1		
20.	Replace Clips(Stainless steel)	Each	1		
21.	Replace Pins(Stainless steel)	Each	1		
22.	Assemble and test for full functionality	Each	1		
24.	New auxiliary isolating key switch, complete with key and auxiliary door lock mechanism (Black)	Each	1		
TOTAL:					

e. 10m5 High Tension (HT) Isolating switch

ITEM NO	ITEM DESCRIPTION	UOM	QTY	UNIT PRICE – Including VAT	
1.	Strip and quote	Each	1		
2.	Replace Black Anodised & Powder Coated High Tensile Aluminium Frame	Each	1		
3.	Replace Black Anodised & Powder Coated High Tensile Aluminium Cover Plate	Each	1		
4.	Replace Lever 1 HVCDIL Aluminium with (DCK) Keyhole Slot/Socket Lever Assembly	Each	1		
5.	Replace Drivers Control Key Slot/Socket Mechanism	Each	1		
6.	Replace Lever 2 HVCDS Aluminium	Each	1		
7.	Replace Lever 1 HVCDIL Cam Aluminium	Each	1		
8.	Replace Lever 2 HVCDS Cam Aluminium	Each	1		
9.	Replace Insert for Master Key	Each	1		
10.	Replace Master Key Lock Mechanism	Each	1		

11.	Replace Lever 2 HVCDS Linkage Connector	Each	1		
12.	Replace Cam Controlled Interlock Mechanism	Each	1		
13.	Repair Cam Controlled Interlock Mechanism	Each	1		
14.	Replace SIL Male Power Terminal 8-Way	Each	1		
15.	Replace Micro switch with lever (S847 W3B2e)	Each	1		
16.	Replace Wire Electrical Multi-strand 2mm ²	Each	1		
17.	Replace Screws (Stainless steel)	Each	1		
18.	Replace Nuts (Stainless steel)	Each	1		
19.	Replace Clips(Stainless steel)	Each	1		
20.	Replace Pins(Stainless steel)	Each	1		
21.	Assemble and test for the full functionality	Each	1		
22.	New high tension (HT) isolating key switch, complete with key and HT door lock mechanism (Black)	Each	1		
TOTAL:					

SUMMARY OF ABOVE BILL OF QUANTITIES

ITEM NO	ITEM DESCRIPTION	UOM	QTY	TOTAL – Including VAT	
a.	10 m5 Single handed master controller	Each	1		
b.	10m5 <i>Vigi- drive</i>	Each	1		
c.	10m5 Emergency brake valve	Each	1		
d.	10m5 Auxiliary isolating switch	Each	1		
e.	10m5 High Tension Isolating switch	Each	1		
TOTAL					