



prasa
PASSENGER RAIL AGENCY
OF SOUTH AFRICA

REQUEST FOR QUOTATION (RFQ)

RFQ NUMBER: 10352602

REQUEST FOR QUOTATION (RFQ) FOR DESIGN, INSTALLATION, COMMISSIONING AND TESTING OF FALL PROTECTION SYSTEM

CIDB GRADING: 3GB or higher

Tender briefing: 28 February 2025 @ 10h00

Tender briefing address: Metrorail, Sunnyside Crescent, Off Voortrekker Road, Salt River

Closing date for Q&A: 07 March 2025

Closing date: 14 March 2025 at 12h00

SECTION 1: SBD1
PART A INVITATION TO BID

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

BID NUMBER:	10352602	CLOSING DATE:	14 March 2025	CLOSING TIME:	12h00
DESCRIPTION	Request for quote for Design, Installation, Commissioning and Testing of Fall Protection System				

BID RESPONSE DOCUMENTS SHALL BE ADDRESSED AS FOLLOWS:

BID RESPONSE DOCUMENTS MAY BE DEPOSITED IN THE BID BOX SITUATED AT (STREET ADDRESS):

No. 1 Adderley Street

Metrorail Supply Chain Management

6th Floor, Room 622A

Cape Town

BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO

CONTACT PERSON	Adriana Hagen
TELEPHONE NUMBER	021 818 7492
E-MAIL ADDRESS	Adriana.Hagen@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.....

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

IS THE ENTITY A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)?	☐ YES ☐ NO
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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 PRASA 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 INVALID.

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

2 COMMUNICATION

Bidder/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 (Complaints@prasa.com) for lodging of complaints 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; and

3.1.6 The detailed compliant.

4 LEGAL COMPLIANCE

The successful Bidder 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 Bidder 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 RFQ 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)/works and request Bidders to re-bid on any changes;
- Reject any Quotation which does not conform to instructions and specifications which are detailed herein; and
- 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 bidder, 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 bidder.

Should the preferred bidder 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 bidder provided that he/she/it is still prepared to provide the required goods at the quoted price.

9 LEGAL REVIEW

Proposed contractual terms and conditions submitted by a bidder 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

Bidders 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

bidder 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 Bidders. PRASA agrees that it shall only process the information disclosed by Bidders 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 Bidders or disclose or permit the disclosure of any personal data to any Third Party without the prior written consent from the Bidders. Similarly, PRASA requires Bidders 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 in choosing a Supplier/Service Provider:

EVALUATION CRITERIA	WEIGHTING
Stage 1 – Compliance	
Stage 1A	Mandatory Requirements
Stage 1B	Other Mandatory Requirements
Stage 2	
Technical/Functional Requirements	Threshold of 70% ► Capacity – Key staff – Fall Protection Technician - 50 points ► Previous company / Organizational Experience – 50 points
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 120 Working Days from the closing date. (09 September 2025)

14.2 Bidders 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 bidder(s)' bid will be deemed to remain valid until finalization of the award.).

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

Bidders 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 Bidders *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 Bidders are urged to ensure that these documents are returned with the quotation based on the consequences of non-submission as indicated below:

16.1. Mandatory Returnable Documents

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

SECTION 3

1 EVALUATION CRITERIA:

Stage 1A – Mandatory Requirements

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

Only bidders who comply with stage 1A will be evaluated further. **[Note: only include technical legislative requirements)**

No.	Description of requirement	
a)	Proof of CIDB grading 3GB or higher	x
b)	Bid Bond from South African Bank	N/A

Stage 1B –Other Mandatory Requirements

If you do not submit the following mandatory documents/requirements, PRASA may request the bidder to submit the information **within three (3) 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)	Letter of Good Standing: COID	
b)	Valid SARS Pin	
c)	CSD supplier registration number	
d)	Key Staff Qualification Registered Professional Engineer (PE) (Certificate not older than 3 months) Registered with ECSA	
e)	Fall Protection Technician with Certified Certificate (fall protection system installation, maintenance and / or inspection from either a manufacturer or institution) and CV highlighting experience	
f)	Completion of ALL RFP documentation (includes ALL)	
g)	Briefing Session Form D. Bidders must also reflect on the Compulsory Briefing Session Attendance Register	
H)	Signed Joint Venture, Consortium Agreement or Partnering Agreement (whichever is applicable)	

2.1 Stage 2

Technical / Functionality Requirements

<u>Item</u>	<u>Criteria</u>	<u>Weight</u>
1	Key staff experience	50
2	Previous Experience / Organizational Experience	50
	TOTAL	100

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.

No	FUNCTIONALITY QUALITY CRITERIA	SUB-CRITERIA SCORING (Refer to Indicators for The Rating of Quality Criteria Table below and Breakdown)		POINTS
1	<u>Capacity – Key Staff: Fall Protection technician</u> - Provide a technician who will install and inspect the system - The technician needs to hold a certificate for fall protection systems installation, maintenance and/or inspection from either a manufacturer or institution - Their respective experience and knowledge must pertain to fall protection maintenance, installation, repair or inspection - Experience will be listed in a CV	1 x technician with more than 4 years' experience	50	50
		1 x technician with more than 3 years but less than 4 years' experience	40	
		1 x technician with more than 2 years but less than 3 years' experience	30	
		1 x Technician with more than 1 year but less than 2 years' experience	20	
		1 x technician with less than 1 years' experience	10	
		Unrelated work Experience of Key staff CVs or no CVs were Submitted	0	
2	<u>Previous Experience/ Organizational Experience</u> Supply evidence of previous experience in the form of completed projects/services/contracts that required <i>Installation and/or Commissioning of Fall Protection systems</i>	5 projects successfully completed with 5 relevant reference letters.	50	50
		4 projects successfully completed with 4 relevant reference letters.	40	

No	FUNCTIONALITY QUALITY CRITERIA	SUB-CRITERIA SCORING (Refer to Indicators for The Rating of Quality Criteria Table below and Breakdown)		POINTS
	Applications. The evidence should come in the form of five (5) completed reference letters. Where 1 reference letter equates to 1 project completed. The reference letter must address the below items. Attached is a reference letter that can be used. The reference letter must be sent to the company/business where services were previously rendered for. Should the bidder be in possession of an existing letter, the letter shall cover all aspects outlined below. A. Previous Client and Completed Works/Services Information: i. Name of the organization ii. Description of works/goods/services that were provided iii. Year iv. Duration B. Evaluation of Service Provider's Performance i. Project completed within the stipulated timeframes and adhering to lead times. ii. Quality of products and services provided.	3 projects successfully completed with 3 relevant reference letters.	30	
		2 projects successfully completed with 2 relevant reference letters.	20	
		1 project successfully completed with 1 relevant reference letters.	10	
		0 projects successfully completed with 0 relevant reference letters.	0	
TOTAL				100

METRORAIL- WESTERN CAPE

CONTACTABLE REFERENCE FOR TENDERER

TENDER/PROJECT: Design, Installation and Commissioning of Fall Protection System

Name of the Tenderer: _____

To: **PRASA – Metrorail – Western Cape**

I, the undersigned duly authorized representative, hereby furnish this reference on behalf of the organization named herein: _____

A. Previous client and completed works/services information.

I. Name of the organization : _____

II. Summary and Description of works/goods/services that were provided :

III. Year : _____

V. Duration : _____

V. Value of works/services/goods :

B. Evaluation of service provider's performance

1. Were the works/service/ product completed/delivered within stipulated timeframes ☐ Yes ☐ No
If no kindly comment _____

2. Were the works/services/product meet the expected and specified quality ☐ Yes ☐ No

If no kindly comment _____

Signature: _____

Telephone: _____

Date: _____

Business stamp with date

QUALITY CRITERIA	INDICATORS					
	0	10	20	30	40	50
Capacity – Key Staff: Fall Protection technician - Provide a technician who will install and inspect the system - The technician needs to hold a certificate for fall protection systems installation, maintenance and/or inspection from either an accredited manufacturer or an institution - Their respective experience and knowledge must pertain to fall protection maintenance, installation, repair or inspection - Experience will be listed in a CV	Unrelated work Experience of Key staff CVs or no CVs were Submitted. Key staff experience total score will be rated a 0.	<i>A technician with With less than 1 years' experience</i>	<i>A technician with More than 1 years But less than 2 years' experience</i>	<i>A technician with More than 2 years but less than 3 years' experience</i>	<i>A technician with More than 3 years but less than 4 years' experience</i>	<i>A technician with more than 4 years' experience</i>

QUALITY CRITERIA	INDICATORS					
	0	10	20	30	40	50
<u>Previous Experience / Organizational Experience</u> Supply evidence of previous experience in the form of completed projects/services/contracts that required <i>Installation and/or Commissioning of Fall Protection systems</i> The evidence should come in the form completed reference letters. Where 1 reference letter equates to 1 project completed. The reference letter must address the below items should it not be on the standard template. <i>Attached is a reference letter that can be used. Reference letters will contain contactable project manager numbers and be on an official letterhead and be signed and/or stamped from the company where services were provided</i> A. Previous Client and Completed Works/Services Information: i. Name of the organization ii. Description of works/goods/services that were provided iii. Year and /or Duration B. Evaluation of Service Provider's Performance i. Project completed within the stipulated timeframes and adhering to lead times. ii. Quality of products and services provided	Note: 0% of points allocated for these criteria. 0 Project completed with 0 relevant reference letters.	Note: 20% of points allocated for these criteria. 1 project completed with 1 relevant reference letters.	Note: 40% of points allocated for these criteria. 2 projects successfully completed with 2 relevant reference letters.	Note: 60% of points allocated for these criteria. 3 projects successfully completed with 3 relevant reference letters.	Note: 80% of points allocated for these criteria. 4 projects successfully completed with 4 relevant reference letters.	Note: 100% of points allocated for these criteria. 5 projects successfully completed with 5 relevant reference letters.

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)	Acceptable Evidence to be provided by tenderer for points claim
B-BBEE contributor status of at least level 2	4		B-BBEE certificate / Affidavit (in case of JV, a consolidate scorecard will be accept)
Black women owned	4		Certified copy of ID documents of the Owners
Black Youth Owned	4		Certified copy of ID documents of the Owners
EME or QSE 51% Black owned	4		Audited Annual Financial / B-BBEE Certificate / Affidavit
51% Black owned	4		CIPC document / B-BBEE Certificate / Affidavit
Total	20		

OBJECTIVE CRITERIA – N/A

- 4.1** Section 2(1)(f) of the PPPFA empowers an organ of state to award a tender to the highest scoring bidder unless there is an objective criterion that justify the award to another tenderer.
- 4.2** PRASA reserves the right to apply the objective criteria for this bid.
- 4.3** PRASA may award a bid to a bidder that did not score the highest points under the following circumstances:
 - a) A negative track record of the bidder in other related projects.
 - b) spreading the award to bidders that have not been previously appointed.
 - c) the need to avoid concentrating awards to the previously appointed bidders.

Prasa shall take into account the following:

 - i. the number of bid(s) awarded to the highest scoring bidder(s) in the preceding financial years.
 - ii. the capacity of the highest scoring bidder(s) despite the previous appointments.

- iii. the value and scope of the bid(s) already awarded to the highest scoring bidder(s);
- iv. the materiality of the price difference between the highest scoring bidder and other bidders; and
- v. whether the goods, services or works are of a specialised nature.

SPLITTING OF AWARDS – N/A

- 4.4** PRASA reserves the right to split the award of this bid to more than one service provider, provided that the nature of the services or goods or works to be provided are capable of being split to more than one service provider.

APPOINTMENTS OTHER THAN THE SUCCESSFUL BIDDER

- 4.5** PRASA may appoint a bidder other than the successful bidder under the following instances:
- (i) When a successful bidder, after having been informed of the acceptance of its Bid, fails to sign a contract within a prescribe period of time e.g. 14 (fourteen) days after being called upon to do so;
 - (ii) When a successful bidder has failed to provide the necessary security, bonds or guarantees within the time required to do so by PRASA;
 - (iii) When a successful bidder fails to meet a condition precedent for the award of business (e.g. to obtain the necessary funding); and
 - (iv) When final contract negotiations with a preferred bidder fails and a contract is not agreed upon.
- 4.6** PRASA will only award a bid to a bidder other than the highest scoring bidder provided that such bid is still within the bid validity period.
- 4.7** Only if the second ranked bidder is also unable/unwilling, PRASA may proceed to the third ranked bidder.

SECTION 4

PRICING AND DELIVERY SCHEDULE

Bidders are required to complete the attached Pricing Schedule **Annexure: 9** (Page 38)

- 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 (delete if not 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 Bidders are to note that if price offered by the highest scoring bidder is not market related, PRASA may not award the contract to the Bidder. PRASA may:
- 9 Negotiate a market-related price with the Bidder scoring the highest points;
- 10 If that Bidder does not agree to a market-related price, negotiate a market-related price with the Bidder scoring the second highest points;
- 11 If the Bidder scoring the second highest points does not agree to a market-related price, negotiate a market-related price with the Bidder scoring the third highest points;
- 12 If a market-related price is not agreed with the Bidder 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 affected 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 Bidder awarded the contract may only enter into a subcontracting arrangement with PRASA's prior approval. The contract will be concluded between the successful Bidder and PRASA, therefore, the successful Bidder 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 whether or not they are bidding for this contract? **YES/NO**

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.

2.3.1 If so, furnish particulars:

.....
.....

3 Bidder's declaration regarding PEPs/PIPs

PRASA requires bidders to disclose if they have Politically Exposed Persons ("PEP")² or Prominent Influential Persons ("PIP")³ and related individuals in their organisation and/or beneficial owners / shareholders who are PEP/PIP.

PRASA reserves the right not to enter into a business relationship with such person, official or entity, provided there are objective factors that justify the conclusion of such business relationship, and the decision is based on achieving the best interest of PRASA.⁴

3.1 Is the bidder a PEP/PIP? **YES/NO**

3.2 Does the bidder have an existing relationship with a PEP/PIP? **YES/NO**

3.3 Where a relationship with a PEP/PIP exists, the bidder is required to furnish particulars of the nature of the exposure, term of the office and description of activities relating to exposure, in table below.

Name of PEP/PIP & Nature of the Exposure/Influence	Term of the office	Description of activities relating to Exposure/Influence

3.4 Declaration:

I/We the undersigned _____ (Name) hereby certify that the PEP/PIP information furnished in this bid document is true and correct. We further certify

² Both foreign and domestic politically exposed person as specified in Schedule 3A and 3B of the Financial Intelligence Centre Act No. 38 of 2001 as amended. (refer to Annexure 2 of the PRASA Code of Conduct for dealing with Politically Exposed Persons, Prominent Influential Persons and Related Parties).

³ As reflected in Schedule 3C of the Financial Intelligence Centre Act No.38 of 2001 (refer to Annexure 2.1.2 of the PRASA Code of Conduct for dealing with Politically Exposed Persons, Prominent Influential Persons and Related Parties).

⁴ Clause 4.5 of the PRASA Code of Conduct for dealing with Politically Exposed Persons, Prominent Influential Persons and Related Parties.

that we understand that where it is found that we have made a false declaration or statement in this bid, PRASA may disqualify our bid or terminate a contract we may have with PRASA where we are successful in this tender.

Signature

Date

Position

Name of bidder

4 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:

- 4.1 I have read and I understand the contents of this disclosure;
- 4.2 I understand that the accompanying bid will be disqualified if this disclosure is found not to be true and complete in every respect;
- 4.3 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 consortium⁵ will not be construed as collusive bidding.
- 4.4 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.
- 4.5 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.
- 4.6 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.
- 4.7 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.

⁵ 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.

I CERTIFY THAT THE INFORMATION FURNISHED IN PARAGRAPHS 1, 2, 3 and 4 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 COMBATING ABUSE IN THE SUPPLY CHAIN MANAGEMENT SYSTEM SHOULD THIS DECLARATION PROVE TO BE FALSE.

.....
Signature

.....
Date

.....
Position

.....
Name of bidder

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 90/10 preference point system.~~
- b) The applicable preference point system for this tender is the 80/20 preference point system.
- c) Either the 90/10 or 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.

case of a tender for income-generating contracts) shall be awarded for:

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

1.4 To be completed by the organ of state:

The maximum points for this tender are allocated as follows:

	POINTS
PRICE	80
SPECIFIC GOALS	20
Total points for Price and Specific Goals	100

1.5 Failure on the part of a tenderer to submit proof or documentation required in terms of this tender to claim points for specific goals with the tender, will be interpreted to mean that preference points for specific goals are not claimed.

1.6 The organ of state reserves the right to require of a tenderer, either before a tender is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the organ of state.

2. DEFINITIONS

- (a) **“tender”** means a written offer in the form determined by an organ of state in response to an invitation to provide goods or services through price quotations, competitive tendering process or any other method envisaged in legislation;
- (b) **“price”** means an amount of money tendered for goods or services, and includes all applicable taxes less all unconditional discounts;
- (c) **“rand value”** means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes;
- (d) **“tender for income-generating contracts”** means a written offer in the form determined by an organ of state in response to an invitation for the origination of income-generating contracts through any method envisaged in legislation that will result in a legal agreement between the organ of state and a third party that produces revenue for the organ of state, and includes, but is not limited to, leasing and disposal of assets and concession contracts, excluding direct sales and disposal of assets through public auctions; and
- (e) **“the Act”** means the Preferential Procurement Policy Framework Act, 2000 (Act No. 5 of 2000).

NT OF GOODS AND SERVICES

3.2. POINTS AWARDED FOR PRICE

3.1.1 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

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 points is allocated for price on the following basis:

80/20

$$Ps = 80 \left(1 + \frac{Pt - P_{max}}{P_{max}} \right)$$

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)	Acceptable Evidence to be provided by tenderer for points claim
B-BBEE contributor status of at least level 2	4		B-BBEE certificate / Affidavit (in case of JV, a consolidate scorecard will be accept)
Black women owned	4		Certified copy of ID documents of the Owners
Black Youth Owned	4		Certified copy of ID documents of the Owners
EME or QSE 51% Black owned	4		Audited Annual Financial / B-BBEE Certificate / Affidavit
51% Black owned	4		CIPC document / B-BBEE Certificate / Affidavit
Total	20		

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

CERTIFICATE OF ATTENDANCE OF COMPULSORY RFQ BRIEFING

Request number:	PR 10352602
Request for Proposal:	Design, Installation, Commissioning and Testing of Fall Protection System

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 _____

for / on behalf of PRASA

Designation

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 – ANNEXURE 1

SPECIFICATION/SCOPE OF WORK

1.1 Objective

- 1.1.1 This document presents the specifications and qualifying requirements for the equipment, systems and services to be provided by the successful bidder. The objective of the specification is to set minimum standards of safety, quality, reliability and performance of the Fall Protection System to ensure customer satisfaction.

1.2 System Description

- 1.2.1 The system must be able to provide a structural fall restraint and fall arrest capability of withstanding a total of 6 (six) adult persons with an average weight of 140 kg each per life line. A total of 2 (two) lifelines will be installed above 2 (two) of the 4 (four) shedding pits at Paarden Eiland depot and a total of 3 (three) lifelines will be installed above 3 (three) of the 8 (eight) shedding pits at Salt River depot. The fall protection system must comply with all the specified OSHA and other applicable safety codes or standards. The system must also provide fall protection anchors permanently attached to the roof structure of the building. Systems will be exposed to outdoor and corrosive service conditions. The selection for suitable material will be vital to accommodate the exposure to the outdoor and corrosive environment. Workers will be required to walk from one end of the anchor point to the other end. The whole system must cater for safety from the ground to roof and visa-versa.

1.3 Scope of Supply and Services

- 1.3.1 Successful bidders shall be required to provide all equipment, installation and services required to supply and install a complete Fall Protection System in accordance with the specifications set forth in this document.
- 1.3.2 The supplier will provide the most appropriate system integration, components, assembly and packaging that meet all the requirements of this specification that includes a fail-safe lock out system.
- 1.3.3 The system will be constructed such that a user can perform routine maintenance such as inspecting individual components, so that a technician can easily and safely replace components.
- 1.3.4 The successful bidder will be required to develop and conduct a comprehensive training program which will cover training of service technicians and end users. Additionally, the successful bidder will be required to submit documentation which describes in detail their training programs.

1.4 Qualifying Systems

- 1.4.1 This specification applies to the installation of lifelines as the preferred Fall Protection System. Other Fall Protection Systems will be considered as an option granted it can be suitably motivated.

1.5 Environmental

- 1.5.1 Systems shall be designed and built to withstand the environmental conditions experienced in South Africa. For design purposes, consider that temperature extremes could range from -10 to +55 degrees Centigrade with humidity levels of 85%. Maximum altitudes reach 2000 meters above sea level.

1.6 Warranties

- 1.6.1 The supplier will provide at a minimum a one-year system warranty against defects, workmanship and installation. During this period, the supplier will be responsible for parts, labour, transport and all other cost associated with the repair or replacement of the system components. After the expiration of the system warranty, the supplier will be responsible only for component replacement, but not associated labour or transport cost, during the warranty periods for the key components.
- 1.6.2 Manufacturer warranties must be effective and transferable to the end user at time of installation.

1.7 Site Inspection

- 1.7.1 A site inspection is mandatory prior to the submission of a bid whereby bidders will need to confirm dimensional accuracy and construction constraints with respect to bids for their respective proposals.
- 1.7.2 Project plan and duration to be determined during site inspection.

2. SYSTEM REQUIREMENTS

2.1 General

- 2.1.1 The Maintenance (Shedding) area at Paarden Eiland depot consists of 4 (four) lanes approximately 300 metres long and the Maintenance (Shedding) area at Salt River depot consists of 8 (eight) lanes approximately 240meters long. Each lane has a 3000 Volt direct current overhead contact wire suspended above it that can be independently switched and isolated. The height of the overhead contact wire (as measured from the rail) varies between 4.22 metres and 4.5 metres. The safe

clearance from any 3000 Volt source is 600 millimetres. The Fall Protection System will initially be installed on the 2 (two) outer most lanes, i.e. lanes 1 and 4

2.2 System Description

- 2.2.1 This fall arrest system must accommodate all the specified OSHA and other applicable safety codes (section 6).
- 2.2.2 The system must also provide fall protection anchors permanently attached to the support structure of the building.
- 2.2.3 The selection for suitable material will be vital to accommodate the exposure to the outdoor and corrosive environment.
- 2.2.4 Workers will be required to walk from one end of the anchor point to the other end.
- 2.2.5 The whole system must cater for safety from the platform to roof and visa-versa.

2.3 Performance

- 2.3.1 The installer shall provide a secure attachment means to the supporting structure in conjunction with the manufacturer's requirements.
- 2.3.2 The anchor shall provide compatible connects with the applicable personal connection equipment.
- 2.3.3 All components shall be designed by the fall protection system supplier and shall meet the applicable requirements of SANS and applicable OSHA regulations.

2.4 Structural Performance

- 2.4.1 Structure supporting anchor points must be capable of withstanding the design loads as required by governing regulations and codes.
- 2.4.2 Where component design loads are specified herein, they represent design minimum requirements.
- 2.4.3 All fall protection components shall be designed with a minimum safety factor.
- 2.4.4 Bidder to ensure that installation of any part of the system does not impair structural integrity of supporting structure.
- 2.4.5 Bidder to ensure that the supporting structure is capable of withstanding additional loads and strains of Fall Protection System including personnel. If not, bidder to ensure necessary re-enforcements is

made to supporting structure which is in compliance to applicable OSHA, SANS, ISO and related standard.

2.5 General Requirements

2.5.1 General

- 2.5.1.1 The lifeline shall comply with current applicable OSHA, SANS, ISO, and state regulations and standards.
- 2.5.1.2 Anchors and any supporting structure shall be designed by a Lifeline registered partner or Installer.
- 2.5.1.3 Lifeline or fall protection device installation to structure shall be designed and installed, under the supervision of a qualified Person, as part of a complete personal Fall Protection system.
- 2.5.1.4 The integrated energy absorbers shall not be used to limit the maximum arrest force of the worker.
- 2.5.1.5 Integrated energy absorbers shall be used only to control or reduce the maximum arrest load on the structure.
- 2.5.1.6 The design engineer shall ensure the increased clearance requirements of a deployed Lifeline will not conflict with the required clearance of the system.
- 2.5.1.7 Anchor point(s) shall satisfy the seismic conditions for non-structural components.
- 2.5.1.8 No exceptions can be taken if the system is required to function for life-safety purposes after an earthquake.
- 2.5.1.9 Brackets and supports shall be attached to the structure with appropriate anchors of proper size to adequately support the intended loading.
- 2.5.1.10 The designer shall consider environmental factors (snow, ice, debris, etc...) when designing an anchor point such that the lifeline functions properly.
- 2.5.1.11 The fall protection system shall be used exclusively for its designed use and shall be marked to prevent other uses.
- 2.5.1.12 The design shall take into consideration the potential uses of and loads on the fall protection system, to facilitate the prompt rescue of workers who may fall while attached to the system.
- 2.5.1.13 The anchor(s) shall be selected to meet EN ISO 9227 (salt spray test). If required by engineer of record, the installer shall test the design using a 5 kN load for 30 seconds on applicable roof structures (tensile test).
- 2.5.1.14 The anchor shall be capable of providing a consistent level of energy absorption in any direction in the plane of the support structure.

- 2.5.1.15 Each component of the fall protection system and lifeline shall be fully traceable.
- 2.5.1.16 The system shall not cause hindrance or interference with shedding or shunting activities.
- 2.5.1.17 The system shall include a total of 40 (forty) SANS approved lanyards and full body harnesses compatible with proposed system.

2.5.2 Restraint Anchors Requirements

- 2.5.2.1 Restraint anchors of lifeline and fall protection shall be designed per EN 363:2002, EN 795:2012 and all other applicable standards.
- 2.5.2.2 The lifeline and fall arrest protection system shall prevent workers from reaching and falling into any open space or off the edge of a working surface such between the coaches.
- 2.5.2.3 The lifeline and fall arrest protection system shall comply with the requirements for fall arrest anchor(s).
- 2.5.2.4 Anchor(s) may be used in restraint systems; provided that the engineer has determined that the restraint forces will not cause the lifeline to deploy and ensures that the anchor extension in combination with other deformations of the restraint system will not permit the worker(s) to reach the fall hazard.

2.5.3 Fall Arrest Anchor Point(s) requirements

- 2.5.3.1 Fall Arrest anchor point(s) shall be designed per EN 363:2002, EN 795:2012 and all other applicable standards.
- 2.5.3.2 The selection, design, and installation of fall arrest anchors shall be performed under the supervision of a Qualified Person.
- 2.5.3.3 Anchorages designed for fall arrest systems shall have the strength capable of sustaining static loads applied in the directions permitted by the system of at least two times the maximum arresting force.
- 2.5.3.4 When more than one user is attached to a horizontal lifeline, the load on the lifeline can be determined using either lumped mass or sequential fall calculations.
- 2.5.3.5 The clearance safety margin shall comply where a worker is using a full body harness the force on the worker's body shall not exceed 8 kN.

2.6 Examination

- 2.6.1 Examine framing, substrate and verify conditions comply with structural requirements for proper system performance.
- 2.6.2 Proceed with installation of roof anchors only after verifying conditions are satisfactory.

3. INSTALLATION AND INSPECTION

3.1 Installation

- 3.1.1 Contractor to comply to contractual obligations as laid out in the Occupational Health and Safety Act (No. 85 of 1993) and as required by PRASA (see Appendix I).
- 3.1.2 Install in accordance with approved shop drawings and manufacturer's instructions.
- 3.1.3 The Fall Protection System shall be installed under the direction of manufacturer's authorized trained personnel and under the supervision of a Qualified Person.
- 3.1.4 Install anchorages and fasteners in accordance with their manufacturer's recommendations to obtain the allowable working loads published in the product literature and in accordance with this specification.
- 3.1.5 Do not load or stress the Fall Protection System until all materials and fasteners are properly installed and ready for service.
- 3.1.6 Where bolting is used for fastening, no fewer than three threads are to be exposed and the nut is to be positively locked using a thread-locking fluid or the double nutting technique.
- 3.1.7 Dissimilar materials with greater than 0.15V shall be separated by a faying surface anchor points must be secured to roof surface with waterproof rust/corrosion resistant mechanical connectors as approved.

3.2 Final Inspection

- 3.2.1 Verify that all manufactured units have been installed in accordance with specifications and details, and will function as intended. Adjust any items where necessary to ensure proper operation.
- 3.2.2 Provide a complete drawing set with any revisions to the design or layout of the fall protection system during installation.

4. OPERATORS INSTRUCTION

- 4.1.1 Provide a minimum of 4 hours of operator training after system has been installed at both depots.
- 4.1.2 Training is to be for the users of the system conducted at the installation site.

5. MAINTENANCE, INSPECTION AND TESTING

- 5.1.1 Provide manufacturer maintenance, inspection and testing instructions.
- 5.1.2 Provide documentation that is consistent with applicable OSHA ,SANS and EN standards.

6. REFERENCES

- 6.1.1 EN 795 2012 : Personal Fall protection equipment
- 6.1.2 SANS 50360:2003/EN 360:2002, Personal protective equipment against falls from a height
Retractable type fall arrester
- 6.1.3 SANS 50358:2008/EN 358:1999, Personal protective equipment for work positioning and prevention
of falls from a height - Belts for work positioning and restraint and work positioning lanyards
- 6.1.4 SANS 50355:2003/EN 355:2002, Personal protective equipment against falls from a height. Energy
absorbers.
- 6.1.5 EN 354:2002, Personal protective equipment against falls from a height – Lanyards.
- 6.1.6 EN 362, Personal protective equipment against falls from a height – Connectors.
- 6.1.7 EN 363:2002, Personal protective equipment against falls from a height - fall arrest systems.
- 6.1.8 EN 364:1992, Personal protective equipment against falls from a height - Test methods.
- 6.1.9 EN 365:1992, Personal protective equipment against falls from a height - General requirements for
instructions for use and for marking.
- 6.1.10 SANS 50363, Fall Restraint Installation
- 6.1.11 SABS EN 361, Full body harness
- 6.1.12 SANS 50354, Lanyards
- 6.1.13 OSHA 1926.502, Fall Protection Systems Criteria and Practices
- 6.1.14 OSHA 1910.66, Personal Fall Arrest System

NB: All the standards listed are not limiting the use of other applicable standards.

7. QUALITY ASSURANCE

- 7.1.1 Who employs or contracts a registered Professional Engineer (PE) registered with ECSA
- 7.1.2 Professional Engineer and Fall Protection Qualified Person: Shall oversee the fall protection systems' design, such that all component items meet the "Structural Performance" requirements, including sizing and spacing of all attachments to the building structure and verify the design is compliant with all applicable OSHA, SANS and ISO standards and not limited to other regulations.
- 7.1.3 Additionally, they must prepare, stamp and sign all required calculations; while also approving the system designer's drawings.
- 7.1.4 All welding work to be executed by coded welders in accordance with Welding Standard requirements.

8. DATA PACKAGE

- 8.1.1 Preparation instructions and recommendations.
- 8.1.2 Storage and handling requirements and recommendations
- 8.1.3 Installation methods
- 8.1.4 Indicate anchor fabrication compliance with performance requirements.
- 8.1.5 Procedure will be required for maintenance intervals.
- 8.1.6 Fall protection procedures shall include a requirement that any incidents, including accidents or near misses, be investigated to determine if procedures can be improved.
- 8.1.7 Provide the employer of the workers using the system to develop and implement a rescue plan before the system is used.

9. COMPLIANCE

Employs or contracts a registered Professional Engineer (PE), with evidence of being the principal PE on atleast one fall arrest system.

10.DRAWINGS

- 10.1.1 Show the layout of the system including where the system is located and the complete assembly of all components.
- 10.1.2 Include a specification of the number, location and qualifications of workers using the system.
- 10.1.3 Clearly specify the equipment dimensions, materials, fabrication details, hardware and installation instructions.

11.BILL OF QUANTITIES

Item	Description	Quantity	Unit Cost Incl Vat	Total Cost incl Vat
1	Design, Supply, Install, Test, and commission Fall protection system on Lane 1 and 4 (Paarden Eiland Depot)	2	R	R
2	Design, Supply, Install, Test, and commission Fall protection system on Lane 1 - 3 (Salt River Depot)	3	R	R
3	Supply, Install and Commission fall Arrestors	40	R	R
4	Supply and Commission Safety Harnesses	40	R	R
5	Training for 50 persons	1	R	R
6	Renew Fall Arrest Runners at PDD on lines 2 and 3. As per Spec. EN363 type LDV141.	8	R	R
Total Cost Incl. vat			R	