BID NUMBER: HO/PT/DMP/237/03/2023

REQUEST FOR PROPOSAL: APPOINTMENT OF A TURNKEY CONTRACTOR FOR THE UPGRADING AND MODERNISATION OF PAARDEN EILAND ROLLING STOCK DEPOT AND YARD

CLOSING DATE	**28 JUNE 2023**
CLOSING TIME	**12H00**
BID DOCUMENTS DELIVERY ADDRESS	**Passenger Rail Agency of South Africa, 30 Wolmarans Street Umjantshi House, Braamfontein**
BIDDER NAME	**……**
BID RETURN ADDRESS (BIDDING ENTITY RETURN ADDRESS)	**Contact Number…… Company Name…… …… …… ……**

Disclaimer

This document is provided solely for the purpose set out in this RFT and is not intended to form any part or basis of any investment decision by Bidders. The recipient should not consider the document as an investment recommendation by PRASA or any of its advisers.

Each person to whom this document (and other later documents) is made available must make his own independent assessment of the Project after making such investigation and taking such professional advice as he/she or it deems necessary. Neither the receipt of this document or any related document by any person, nor any information contained in the documents or distributed with them or previously or subsequently communicated to any Bidder or its advisers, is to be taken as constituting the giving of an investment advice by PRASA or its advisers.

Whilst reasonable care has been taken in preparing this RFT and other documents, they do not purport to be comprehensive or true and correct. Neither PRASA nor any of its advisers accept any liability or responsibility for the adequacy, accuracy or completeness of any of the information or opinions stated in any document.

They acquaint themselves with this RFT and take note that no representation or warranty, express or implied, is or will be given by PRASA, or any of its officers, employees, servants, agents or advisers with respect to the information or opinions contained in any document or on which any document is based. Any liability in respect of such representations or warranties, howsoever arising is hereby expressly disclaimed.

If any recipient, or its employees, advisers or agents make or offers to make any gift to any of the employees of PRASA or consultant to PRASA on the RFT either directly or through an intermediary then such recipient, Bidder will be disqualified forthwith from participating in the RFT.

Each recipient of this RFT agrees to keep confidential any information of a confidential nature which may be contained in the information provided (the “Confidential Information Provided”). The Confidential Information provided may be made available to Bidder’s subcontractors, employees and professional advisers who are directly involved in the appraisal of such information (who must be made aware of the obligation of confidentiality) but shall not, either in the whole or in part, be copied, reproduced, distributed or otherwise made available to any other party in any circumstances without the prior written consent of PRASA, nor may it be used for any other purpose than that for which it is intended.

These requirements do not apply to any information, which is or becomes publicly available or is shown to have been made available (otherwise than through a breach of a confidentiality obligation). Bidders, Key Contractors and their constituent members, agents and advisers, may be required to sign confidentiality Contracts/undertakings (in such form as PRASA may require from time to time).

All Confidential Information Provided (including all copies thereof) remains the property of PRASA and must be delivered to PRASA on demand. Further, by receiving this RFT each Bidder and each of its members agrees to maintain its submission in Bid to this RFT confidential from third parties other than PRASA and its officials, officers and advisers who are required to review the same for the purpose of procurement of the RFT.

Any recipient residing outside the Republic of South Africa is urged to familiarise themselves with and to observe any regulatory requirements relevant to the proposed transaction (whether these derive from a regulatory authority within or outside the Republic of South Africa).

Any requirement set out in this RFT regarding the content of a response to the RFT is stipulated for the sole benefit of PRASA, and serves as expressly stated to the contrary, may be waived at its discretion at any stage in the procurement process.

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

- Modify the RFT's goods / service(s) / works and request Respondents to re-bid on any changes;
- Withdraw, amend the RFT at any time without prior notice and liability to compensate or reimburse any respondent;
- Reject any Tender which does not conform to instructions and specifications which are detailed herein
- Disqualify Tenders submitted after the stated submission deadline;
- Call a respondent to provide additional documents which PRASA may require which have not been submitted to PRASA.
- Not necessarily accept the lowest priced Tender or alternative bid;
- Not accept any response to the RFT or appoint a final bidder;
- Reject all Tenders it if so decides;
- Withdraw the RFT on good cause shown;
- Award a contract in connection with this Tender at any time after the RFT's closing date;
- Award a contract for only a portion of the proposed goods/ service/s/ works which are reflected in the scope of this RFT;

- Split the award of the contract between more than one Contractor, should it at PRASA's discretion be more advantageous in terms of, amongst others, cost or development considerations;
- Make no award at all;
- Validate any information submitted by Respondents in response to this bid. This would include, but is not limited to, requesting the Respondents to provide supporting evidence. By submitting a bid, Respondents hereby irrevocably grant the necessary consent to PRASA to do so;
- Request annual financial statements prepared and signed off by a professional accountant or other documentation for the purposes of a due diligence exercise; and/or
- Not accept any changes or purported changes by the Respondent to the bid rates after the closing date and/or after the award of the business, unless the contract specifically provided for it.

To adopt any Tender made by any bidder at any time and to include such Tender in any procurement document which may or may not be made available to other bidders.

All costs and expenses incurred by Bidders in submitting responses to this RFT shall be borne by the Bidders and PRASA shall not be liable for any costs or expenses whatsoever or any claim for reimbursement of such costs or expenses.

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 and/or place the Respondent on PRASA's list of Restricted Suppliers.

PRASA reserves the right to negotiate market-related price with the bidder scoring the highest points or cancel the bid; if the bidder does not agree to a market related price, negotiate a market related price with the bidder scoring the second highest points or cancel the bid; 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 or cancel the bid. If the market related price is not agreed as envisaged in this paragraph, PRASA will cancel the bid.

PRASA reserves the right to negotiations Best and Final Offer (BAFO) with selected Respondents where none of the Tenders meet RFT requirement, are affordable and demonstrate value for money and there is no clear preferred response to the RFT

PRASA will not reimburse any Respondent for any preparatory costs or other work performed in connection with its Tender, whether or not the Respondent is awarded a contract.

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3 ACRONYMS

BBBEE	Broad Based-Black Economic Empowerment
CIDB	Construction Industries Development Board
DTiC	The Department of Trade and Industry and Competition
PPPFA	Preferential Procurement Policy Framework Act 5 of 2000 (as amended from time to time)
PFMA	Public Finance Management Act No.1 of 1999 (as amended from time to time)
PRASA	Passenger Rail Agency of South Africa
RFP	Request for Proposal
SANAS	South African National Accreditation System

4 INTERPRETATION

In this RFP, unless inconsistent with or otherwise indicated by the context –

- headings have been inserted for convenience only and should not be taken into account in interpreting the RFP;
- any reference to one gender shall include the other gender;
- words in the singular shall include the plural and vice versa;
- any reference to natural persons shall include legal persons and vice versa;
- words defined in a specific clause have the same meaning in all other clauses of the RFP, unless the contrary is specifically indicated;
- any reference to the RFP, schedule or appendix, shall be construed as including a reference to any RFP, schedule or appendix amending or substituting that RFP, schedule or appendix;
- the schedules, appendices and Briefing Notes issued pursuant to this RFP, form an indivisible part of the RFP and together with further clarifying and amending information provided by PRASA, constitute the body of RFP documentation which must be complied with by Bidders;
- in the event of any inconsistency between this RFP or other earlier information published with regard to the Project, the information in this RFP shall prevail; and
- this RFP shall be governed by and applied in accordance with South African law.

5 DEFINITIONS

In this RFP and in any other project documents (as defined below) which so provides, the following words and expressions shall have the meaning assigned to them below and cognate expressions shall have a corresponding meaning, unless inconsistent with the context:

- "Accounting Authority" means the Board of PRASA;
- "Contract" means the Contract to be entered between PRASA and the successful Bidder for the provision of the *services* procured in this RFP.
- "Bid" means the Bid to the RFP submitted by Bidders;
- "Bidders Briefing Session" means the compulsory briefing session to be held at the offices of PRASA, in order to brief the Bidders about this tender;
- "Black Enterprise" means an enterprise that is at least 51% beneficially owned by Black People and in which Black People have substantial Management Control. Such beneficial ownership may be held directly or through other Black Enterprises;
- "Black Equity" means the voting equity held by Black People from time to time;
- "Black People" has the same meaning as ascribed to the Broad-Based Black Economic Empowerment Act, 2003, as amended .
- "Black Woman" means African, Coloured and Indian South Africa Female citizen;
- "Briefing Note" means any correspondence to Bidders issued by the PRASA;
- "Business Day" means any day except a Saturday, Sunday or public holiday in South Africa;
- "Bidders" means individuals, organisations or consortia that have been submitted responses to the RFP in respect of the tender;
- "Consortium" means any group of persons or firms jointly submitting a Bid as Bid to this RFP and "Consortia" means more than one Consortium;
- "Contractor" the successful Bidders who has signed a Contract with PRASA in terms of this RFP.
- "Closing Date" means the closing date for submission of bids/ Proposals by Bidders which is **28 June 2023 at 12h00;**
- "Project" means this project for the **APPOINTMENT OF A TURNKEY CONTRACTOR FOR THE UPGRADING AND MODERNISATION OF PAARDEN EILAND ROLLING STOCK DEPOT AND YARD**
- "RFP" means the Request for Proposals issued by PRASA for this tender; and
- "Scope of Work" means the scope of work for this project as detailed out in the RFP technical specifications.

SECTION 2

NOTICE TO BIDDERS

1 INVITATION TO BID

You are hereby invited to submit a bid to meet the requirements of the Passenger Rail Agency of South Africa. Responses to this RFP [hereinafter referred to as a **Bid** or a **Proposal**] are requested from persons, companies, close corporations, or enterprises [hereinafter referred to as an **entity**, **Bidder**].

BID DESCRIPTION	**REQUEST FOR PROPOSAL: APPOINTMENT OF A TURNKEY CONTRACTOR FOR THE UPGRADING AND MODERNISATION OF PAARDEN EILAND ROLLING STOCK DEPOT AND YARD**
BID ADVERT	*This RFP may be downloaded directly from National Treasury's e-Tender Publication Portal at www.etenders.gov.za free of charge. With effect from* **29 March 2023**
ISSUE DATE	**29 March 2023**
BRIEFING SESSION	***COMPULSORY***
CLOSING DATE	**28 on June 2023 at 12h00** *Bidders must ensure that bids are delivered timeously to the correct address.* *As a general rule, if a bid is late or delivered to the incorrect address, it will not be accepted for consideration.*
VALIDITY PERIOD	***90 Working Days from Closing Date*** *Bidders are to note that they may be requested to extend the validity period of their bid, at the same terms and conditions, if the internal evaluation process has not been finalised within the validity period.*

CLOSING DATE FOR QUESTIONS	**21 April 2023**
CLOSING DATE FOR RESPONSES	**02 May 2023**
CONTACT PERSON	**Agnes Sekhuthe – asekhuthe@prasa.com**

Any additional information or clarification will be emailed to all Respondents, if necessary.

2 FORMAL BRIEFING

A compulsory RFP briefing will be conducted at **Metrorail Paarden Eiland Rolling Stcok Depot, Sunnyside Cresent, Paarden Eiland, Cape Town, Western Cape Province** on the **13 April 2023,** at **11h00**. [Respondents to provide own transportation and accommodation]. The briefing session will start punctually, and information will not be repeated for the benefit of Respondents arriving late.

2.1 A Certificate of Attendance in the form set out in Form D attached hereto must be completed and submitted with your Proposal as proof of attendance is required for a compulsory site meeting and/or RFP briefing. Bidders must also appear on the Compulsory Briefing session Regitser.

2.2 Respondents failing to attend the compulsory RFP briefing may be disqualified.

3 BRIEFING SESSION MINUTES AND NOTES

3.1 PRASA will issue briefing session minutes or notes together with the response to the clarification questions.

3.2 Bidders / Respondents are requested to promptly confirm receipt of any clarifications sent to them.

3.3 Bidders / Respondents must ensure responses to the clarifications are received on or before the deadline date stated.

3.4 Clarifications will be issued to all Respondents to this RFP utilizing the contact details provided at receipt of the responses to the RFP documentation, after submission to the authorised representative.

4 PROPOSAL SUBMISSION OF RFP RESPONSE

Proposal Responses should be submitted to PRASA in a sealed envelope addressed as follows:

RFP No: **HO/PT/DMP/237/03/2023**

Description of Bid **REQUEST FOR PROPOSAL: APPOINTMENT OF A TURNKEY CONTRACTOR FOR THE UPGRADING AND MODERNISATION OF PAARDEN EILAND ROLLING STOCK DEPOT AND YARD**

Closing date and time: **28 June 2023 at 12h00**

Closing address **Umjantshi House, at 30 Wolmarans Street, Braamfontein, JHB**

5 DELIVERY INSTRUCTION FOR RFP

Delivery of Bid

The Bid envelopes/packages must be submitted at PRASA, **Umjantshi House, at 30 Wolmarans Street, Braamfontein – (There will be a tender submission register which has to be completed by all the bidders submitting the tenders)**

6 B-BBEE JOINT VENTURES OR CONSORTIUMS

Respondents who would wish to respond to this RFP as a Joint Venture [**JV**] or consortium with B-BBEE entities, should state their intention to do so in their RFP submission. Such Respondents should also submit a signed JV or consortium agreement between the parties clearly stating the percentage [%] split of business and the associated responsibilities of each party. If such a JV or consortium agreement is unavailable, the partners should submit confirmation in writing of their intention to enter into a JV or consortium agreement should they be awarded business by PRASA through this RFP process. This written confirmation should clearly indicate the percentage [**%**] split of business and the responsibilities of each party. In such cases, award of business will only take place once a signed copy of a JV or consortium agreement is submitted to PRASA.

7 COMMUNICATION

7.1 For specific queries relating to this RFP during the RFP process, bidders are required to adhere strictly to the communication structure requirements. An RFP Clarification Form should be submitted to asekhuthe@prasa.com and copy Rosemary Moagi at rmoagi@prasa.com on or before 21 April 2023, substantially in the form set out in Annexure 1 attached hereto.

7.2 In the interest of fairness and transparency PRASA's response to such a query will be made available to the other Respondents who have attended a compulsory and a non-compulsory briefing session. For this purpose PRASA will communicate with Respondents using the contact details provided at the compulsory and a non-compulsory briefing session.

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

Furthermore, Respondents found to be in collusion with one another will automatically be disqualified and restricted from doing business with PRASA in future.

8 CONFIDENTIALITY

8.1 PRASA shall ensure all information related to this RFP is to be treated with strict confidence. In this regard Respondents / Bidders are required to certify that they have acquainted themselves with the Non-Disclosure Agreement All information related to a subsequent contract, both during and after completion thereof, will be treated with strict confidence. Should the need however arise to divulge any information gleaned from provision of the Services , which is either directly or indirectly related to PRASA's business, written approval to divulge such information should be obtained from PRASA.

8.2 Respondents must clearly indicate whether any information submitted or requested from PRASA is confidential or should be treated confidentially by PRASA. In the absence of any such clear indication in writing, PRASA shall deem the response to the RFP to have waived any right to confidentiality and treat such information as public in nature.

9 INSTRUCTIONS FOR COMPLETING THE RFP

9.1 All responses to the RFP should be submitted in two sealed envelopes/boxes; the first envelope/box shall have the technical and compliance response, the second envelope/box shall only have the financial response and Specific Goals response.

9.2 Bidders are required to package their response/Bid as follows:

Volume 1 (Envelope 1/Package 1)

Part A: Mandatory Requirements Response

Part B: Technical or Functional Response (response to scope of work)

Volume 2 (Envelope 2/ Package 2)

Part C: Financial Proposal and Specific Goals

Volume 2 should be submitted in a separate sealed envelope. Bidders should make their pricing offer in envelope 2/package 2.

9.3 Bidders must submit 1 original response and 1 hardcopy and 2 electronic versions which must be contained in a Memory Card/External hard drive etc clearly marked as Volume 1 and Volume 2 in the Bidders name. PRASA reserves the right to consider information provided in all formats irrespective the format i.e original/copy/electronic.

9.4 Bidders should ensure that their response to the RFP is in accordance with the structure of this document.

9.5 Where Bidders are required to sign forms they are required to do so using preferably black ink pen.

9.6 Any documents forming part of the original responses to RFP but which are not original in nature, should be certified as a true copy by a Commissioner of Oaths.

9.7 Each response to RFP must be in English and submitted in A4 format, except other graphic illustrations, which may not exceed A3 format, unless the contrary is specifically allowed for in this RFP. Responses to RFP should be neatly and functionally bound, preferably according to their different sections.

9.8 The original responses to RFP must be signed by a person duly authorized by each consortium member and Subcontractor to sign on their behalf, which authorization must form part of the responses to RFP as proof of authorization. By signing the responses to RFP the signatory warrants that all information supplied by it in its responses to RFP is true and correct and that the responses to RFP and each party whom the responses to RFP signatory represents, considers themselves subject to and bound by the terms and conditions of this RFP.

9.9 The responses to RFP formulation should be clear and concise and follow a clear methodology which responses to RFP should explain upfront in a concise Executive Summary and follow throughout the responses to RFP.

9.10 Responses to RFP must provide sufficient information and detail in order to enable PRASA to evaluate the responses to RFP, but should not provide unnecessary detail which does not add value and detracts from the ability of PRASA to effectively evaluate and understand the responses to RFP. The use of numbered headings, bullet points, sections, appendices and schedules are encouraged.

9.11 Information submitted as part of a responses to RFP should as far as possible, be orderly according to the order of the required information requested by PRASA. All pages should be consecutively numbered.

9.12 Responses to RFP should ensure that each requirement contained in the RFP is succinctly addressed. Responses to RFP should as far as possible use the terms and definitions applied in this RFP and should clearly indicate its interpretation of any differing terminology applied.

9.13 Response to RFP documents are to be submitted to the address specified in this RFP, and Bidders should ensure that the original and copies (where applicable) are identical in all respects as PRASA will not accept any liability for having disqualified a bidder for failing to provide a mandatory returnable document.

9.14 Unless otherwise expressly stated, all Proposals furnished pursuant to this RFP shall be deemed to be offers. Any exceptions to this statement must be clearly and specifically indicated**.**

9.15 Any additional conditions must be embodied in an accompanying letter. Subject only to clause 16 [Alterations made by the Respondent to Bid Prices] of the General Bid Conditions, alterations, additions or deletions must not be made by the Respondent to the actual RFP documents.

9.16 Bidders are required to review the Contract. Bidders may further amend and or delete any part of the Draft Contract where they deem fit to do so. Where Bidders have amended and or deleted any part of the Contract, it must be clearly visible by using track changes and must ensure that the disc copy of their bid submission for the Draft Contract is in word version and not password protected. **It must be noted that the marked up Contract will form part of contract negotiations processes with the preferred bidder.**

10 RFP TIMETABLE

PRASA may at its sole discretion amend any of the milestone dates indicated in the table below. Bidders will be informed of any amendments to the timeline through the issue of the Addendum.

RFP PROCESS	MILESTONE DATES
Appointment of the successful Bidder	TBA
Bid issue date	29 April 2023
Compulsory Briefing Session for Bidders at the Metrorail Paarden Eiland Rolling Stock Depot, Sunnyside Crescent, Paarden Eiland, Cape Town	13 April 2023 at 11h00
Closing date for Questions	21 April 2023
Closing date for Responses	02 May 2023
Closing Date for Submission of final Bid	28 June 2023 at 12h00

Contract Commencement	TBA
Contract Negotiations	TBA
Evaluation of Proposals (Bidders note that PRASA may call for Presentation of bidders offers at any stage of the evaluation process)	TBA
Signing of Contract	TBA

11 LEGAL COMPLIANCE

Bidders should ensure that they comply with all the requirements of the RFP and if Bidders fail to submit any of the required documents, such Bids may, at the sole discretion of PRASA, be disqualified . PRASA reserves the right to call a Bidder to provide additional documents which may have not been submitted.

The successful Bidder [hereinafter referred to as the **Service Provider**] shall be in full and complete compliance with any and all applicable laws and regulations.

12 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. 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. Respondents are required to provide the following to PRASA in order to enable it to verify information on the CSD:

Supplier Number: _____ **Unique registration reference number:** _____**.**

13 TAX COMPLIANCE

Respondents must be compliant when submitting a proposal to PRASA and remain compliant for the entire contract term with all applicable tax legislation, including but not limited to the Income Tax Act, 1962 (Act No. 58 of 1962) and Value Added Tax Act, 1991 (Act No. 89 of 1991).

It is a condition of this RFP that the tax matters of the successful bidder be in order, or that satisfactory arrangements have been made with South African Revenue Service (SARS) to meet the bidder's tax obligations.

The Tax Compliance status requirements are also applicable to foreign Respondents/ individuals who wish to submit bids.

Respondents are required to be registered on the Central Supplier Database (CSD) and the National Treasury shall verify the Respondent's tax compliance status through the Central Supplier Database (CSD).

Where Consortia / Joint Ventures / Sub-contractors are involved, each party must be registered on the Central Supplier Database (CSD) and their tax compliance status will be verified through the Central Supplier Database (CSD).

For this purpose, the attached SBD 1 marked Form A must be completed and submitted as an essential returnable document by the closing date and time of the bid.

New Tax Compliance Status (TCS) System

SARS has implemented a new Tax Compliance Status (TCS) system in terms of which a taxpayer is now able to authorise any 3rd party to verify its compliance status in one of two ways: either through the use of an electronic access PIN, or through the use of a Tax Clearance Certificate obtained from the new TCS system.

Respondents are required to provide the following to PRASA in order to enable it to verify their tax compliance status:

Tax Compliance Status (TCS) Pin:_____.

14 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.

15 VALIDITY PERIOD

This RFP shall be valid for *[90 working days]* calculated from Bid closing date.

16 POST TENDER NEGOTIATION (IF APPLICABLE)

PRASA reserves the right to conduct post tender negotiations with a shortlist of Respondent(s). The shortlist could comprise of one or more Respondents. Should PRASA conduct post tender negotiations, Respondents will be requested to provide their best and final offers to PRASA based on such negotiations. A final evaluation will be conducted in terms of 90/10 evaluation criteria/scoring methodology.

17 FINAL CONTRACT AWARD

PRASA will negotiate the final terms and condition the contract with the successful Respondent(s). This may include aspects such as Supplier Development, the B-BBEE Improvement Plan, price and delivery. Thereafter the final contract will be awarded to the successful Respondent(s).

18 FAIRNESS AND TRANSPARENCY

PRASA views fairness and transparency during the RFP Process as an absolute on which PRASA will not compromise. PRASA will ensure that all members of evaluation committees declare any conflicting or undue interest in the process and provide confidentiality undertakings to PRASA.

The evaluation process will be tightly monitored and controlled by PRASA to assure integrity and transparency throughout, with all processes and decisions taken being approved and auditable.

SECTION 3

BACKGROUND OVERVIEW AND SCOPE REQUIREMENTS

1 INTRODUCTION

This RFP is for the appointment of a turnkey contractor needed for the turnkey upgrading and modernisation of the Paarden Eiland Rolling Stock Depot and Yard in the Western Cape Region.

2 BACKGROUND INFORMATION

PRASA has embarked on a major rolling stock fleet renewal programme in order to replace all its existing metro trains over the next 20 years. The new technology and improved maintenance practices envisaged for the new rolling stock fleet will require new or refurbished maintenance depots and facilities.

The depots identified for modernisation are Braamfontein, Benrose, Wolmerton, Paarden Eiland, Salt River, Springfield and Durban. The development is aimed at supporting the execution of the proposed Rolling Stock Fleet Renewal Programme. The renewal programme has attracted the need to provide the incoming trains with modern servicing facilities.

This Programme is expected to run parallel with the phasing out of the existing rolling stock and it is expected that a complete retirement of the current fleet will have been achieved by the year 2033. The level of investment will increase gradually as the new rolling stock is introduced into service. It is expected that some of the current stock may be retained owing to increased commuter demand after completion of the phase out period.

PRASA is late with the development of all the aforementioned depots. In order to facilitate the delivery of the new trains to the Western Cape region, PRASA have implemented a number of interim measures at Paarden Eiland depot. More significant initiatives are required at Paarden Eiland to cater for some of Gibela's requirements (as PRASA's train supplier) for depot facilities provision as stipulated in the Gibela contract as well as for additional facilities to allow PRASA to also maintain the new trains to be delivered to the Western Cape region. Furthermore, the Paarden Eiland upgrade and modernisation would also create capacity for maintenance (running and lifting) of the old fleet when the Salt River depot is upgraded. The appointment of the turnkey contractor to develop the Paarden Eiland depot is crucial and important to ensure that Western Cape Region receives more new trains.

In summary, the intention is to:

- upgrade the existing four line shed to be able to accommodate some maintenance inspections of the new trains while still accommodating the maintenance of the old trains;
- build a new shed alongside the existing shed for the additional maintenance of the new trains;
- build additional warehouse, administration and mess and ablution buildings
- upgrade and install new security systems including CCTV, lighting, access control systems, etc;
- upgrade existing and install new accessways for vehicles and pedestrians; and
- upgrade and install new services like stormwater, sewer, electricity, water, compressed air, etc.

The concept and detail design drawings that must be prepared by the appointed supplier will be forwarded to the Rail Safety Regulator (RSR) for their assessment and review.

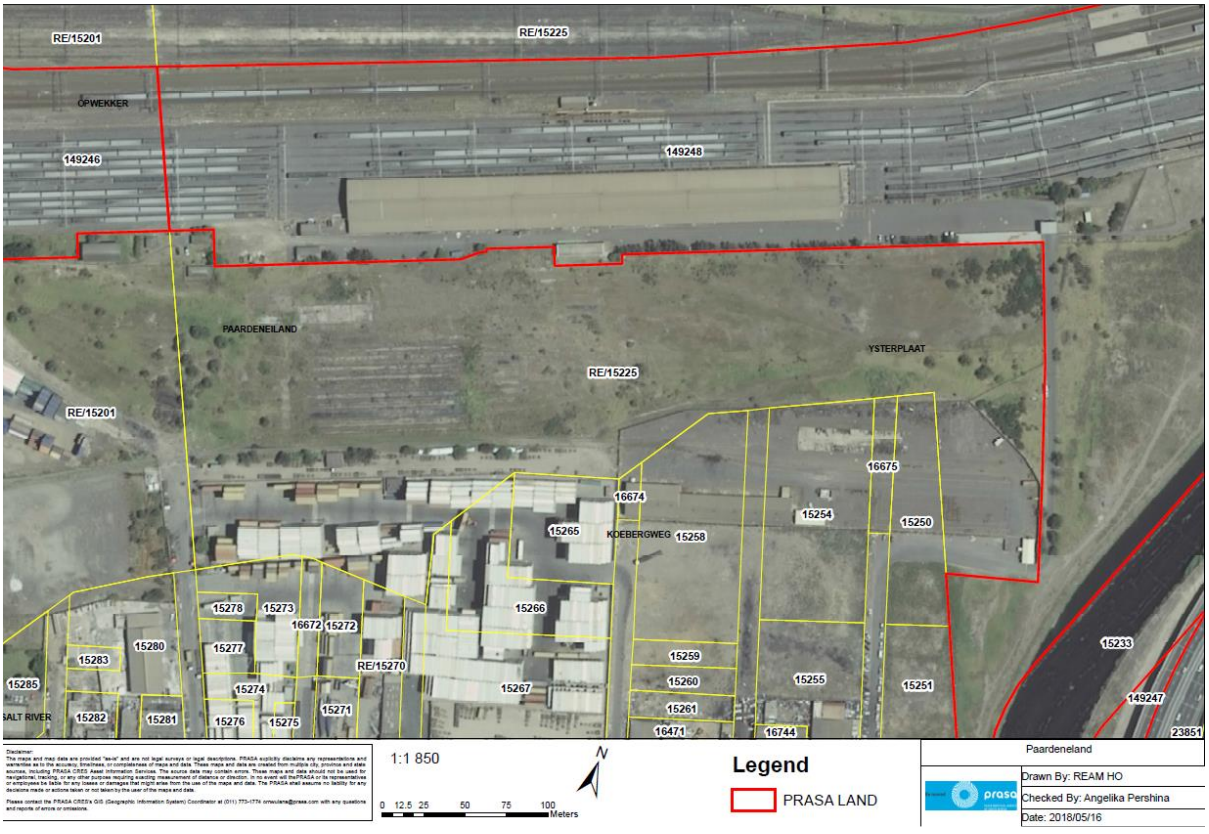


Figure 1: Existing Layout of Paarden Eiland Depot

2.1 Status Quo

The Paarden Eiland depot is currently being used to maintain trains as well as to stage trains.

2.2 Problem Statement

Paarden Eiland Depot and Yard needs to be developed to cater for maintenance requirements for the new trains. This depot will also be required to provide for lost capacity for lifting and running maintenance of the old fleet when the Salt River depot is being upgraded.

2.3 Pictorials

Figure 2: Current Shed East Entrance

Figure 3: Entrance on Sunny Side Crescent

Figure 4: Oil Store Room

Figure 5: Current Shed West Entrance

Figure 6: Abandoned Building

Figure 7: Dilapidated Building

Figure 8: Old Mess Facility (which has been rehabilitated to house Gibela personnel temporarily)

3 OBJECTIVES OF THE PROJECT

Paarden Eiland Depot and Yard should be designed to provide maintenance and staging facilities for the new trains while still sustaining the ability to maintain the existing trains. The facility will handle all warranty maintenance issues for the next 20 years and beyond that point it will remain a PRASA facility for the maintenance of the new rolling stock. It is required that the new facility should be able to maintain approximately 40 new 6-car train sets and 35 old 12/14 car train sets using a single shift system.

3.1 DESIRED OUTCOMES FOR CARRYING OUT THE PROPOSED PROJECT

The objective of the proposed project is to upgrade the existing Paarden Eiland Depot and staging yard into a modern maintenance facility for new and existing trains.

3.2 PROJECT BENEFITS TO PRASA

PRASA as a business shall realise the following significant benefits after the implementation of the project:

- Ability to fast track the acceptance of the new rolling stock in Western Cape Region;
- Mitigation of lost capacity when the Salt River Depot is upgraded;
- Provision of the facilities required to sustain the reliability and availability of the new fleet and old fleet;
- Modernisation and capacity enhancement;
- Anticipation of and response to the changing and dynamic needs of our railway passengers and stakeholders, and transport trends;
- The upskilling of the PRASA maintenance personnel who will be trained to use state of the art rolling stock maintenance equipment; and
- Improved compliance with the National Railway Safety Regulator Act, 2002 (Act No. 16 of 2002) and Occupational Health and Safety Act, 1993 (Act No. 85 of 1993); as per the latest amendments.

The benefits outlined above are in line with the PRASA Corporate Plan for MTEF 2021 to 2024.

3.3 CURRENT MECHANISMS IN PLACE TO ADDRESS THE PROBLEM

There are no mechanisms that could be used other than the proposed solution of developing the existing PRASA facilities and land at Paarden Eiland to construct a new facility for the maintenance of the new trains. The following sites were considered as options but were flawed for the reasons in brackets:

- Firgrove Depot (Litigation and distance from operations);
- Firgrove Vacant Site (Earmarked for Development by PRASA Cres);
- Maitland Yard (Space Constraints);
- Culemborg (Space Constraints & Owned by Transnet);
- Wictra (Privately owned);
- CTE Touwsrivier (Privately owned);
- Transnet Engineering (Currently Used by Transnet); and
- Phillippi (Too volatile and overtaken by informal settlements).

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:

4.1.1 Studies and Surveys

4.1.1.1 The appointed turnkey contractor shall perform the following activities:

4.1.1.1.1 Submit all surveys, studies and assessment reports to the relevant authorities for approval and or review.

4.1.1.1.2 The required studies and surveys include:

4.1.1.1.2.1 Cadastral Surveys;

4.1.1.1.2.2 Topographical Surveys;

4.1.1.1.2.3 Traffic Impact Studies;

4.1.1.1.2.4 Geotechnical Studies;

4.1.1.1.2.5 Geohydrological Studies;

4.1.1.1.2.6 Ergonomics Study;

4.1.1.1.2.7 Services identification and bulk services capacity Studies;

4.1.1.1.2.8 Depot electrical loading and capacity assessment and/or electrical Studies (both domestic/low voltage and high voltage/OHTE);

4.1.1.1.2.9 Any other survey or study required for the upgrade of the depot; and

4.1.1.1.3 All signed reports of surveys, assessments and studies performed by the contractor to be handed over to PRASA (3 hard copies and 3 soft copies (pdf format)).

4.1.1.1.4 It is PRASA's intention to appoint a separate Occupational Health, Safety and Environmental (OHSE) Agent that will assist PRASA to obtain the Environmental approvals required to develop the Paarden Eiland Depot. This separately appointed OHSE Agent will also assist PRASA during the construction stage as PRASA has inadequate OHSE resources to manage a project of this magnitude.

4.1.2 Operational Readiness Plan

4.1.2.1 Provide Operational readiness plan for the implementation of the project. This will include support requirements for all new equipment, facilities and systems, people preparedness for construction, operations and maintenance and integration of all new technology into the PRASA business environment.

4.1.2.2 Additionally, business continuity/contingency plans to be recommended by the appointed supplier, approved by PRASA and put in place by the appointed supplier before and during construction to ensure there are minimal to no disruptions to the current operations and damage to PRASA assets during construction. The appointed supplier is to take note that PRASA maintenance operations taking place at the depot must continue during construction and therefore the appointed supplier will have to complete the works required in parts while PRASA personnel still work in other parts of the depot. The appointed supplier is to take this in consideration when preparing the bid, the schedule as well as the methodology that forms part of the evaluation and will form part of the contract.

4.1.3 Capacity Simulation Studies

4.1.3.1 Provide simulated capacity analysis for the designs to indicate what capacity would be created at end state. Simulations must include train movements, maintenance facilities and equipment. These simulations should indicate installed capacity and scenarios on how it could be optimised. Depots are planned to be operational 24 hours a day but currently only work one shift. It is required that the new modernised facility as a whole should be able to maintain approximately 40 new 6-car train sets and 35 old 12/14 car train sets using a single shift system.

4.1.3.2 The simulation must also cover the industrial/process design and layout design of maintenance warehouses, maintenance facilities, maintenance storage areas, maintenance workshops, etc and not just cover train operations/train movements.

4.1.3.3 The simulation must also be able to be predict the maintenance capacity that will be available for train maintenance and train operations when the depot is under construction. This simulation could then be used to phase construction activities to allow operations at the depot to continue during construction.

4.1.4 Photography and Videography

4.1.4.1 Take professional photographs and videos to show the transformation of the depot. Deliverables will include a ten (10) minute video and five (5) captioned colour coffee table books as well as **all** photographs/videos taken **clearly labelled**. The photographs should cover the current facilities and layouts, the construction undertaken (the transformation of the depot) and the completed end state.

4.1.5 Required Professionals / Services

4.1.5.1 In order to achieve the proposed solution, the appointed contractor is to provide the following services/professionals:

4.1.5.1.1 Project Manager/Team Leader;
4.1.5.1.2 Architectural Services;
4.1.5.1.3 Quantity Surveying Services;
4.1.5.1.4 Civil Services;
4.1.5.1.5 Structural Services;
4.1.5.1.6 Mechanical Services (Both domestic services and lifting equipment);
4.1.5.1.7 Electrical (Low voltage/Light current);
4.1.5.1.8 Electronic Services;
4.1.5.1.9 Perway Services;
4.1.5.1.10 OHTE Services;
4.1.5.1.11 Rail signalling Services;
4.1.5.1.12 Fire Services;
4.1.5.1.13 ICT Services;
4.1.5.1.14 Telecoms Services;
4.1.5.1.15 Industrial Engineering Services;
4.1.5.1.16 Environmental Services;
4.1.5.1.17 Risk Management Services
4.1.5.1.18 Town Planning Services;
4.1.5.1.19 Community Relation Management Services;
4.1.5.1.20 Construction Management Services;

4.1.5.1.21 Construction Health and Safety Services; and

4.1.5.1.22 Interns/Learnerships/Provision of training opportunities to be provided for the duration of the contract, i.e. Architectural, Construction Management, Quantity Surveying, Civil, Structural, Mechanical (Lifting and Domestic services), Electrical (low voltage/domestic), Electrical (OHTE/high voltage) and Perway. Eighty percent (80%) of the interns/learners/students should be from previously disadvantaged groups and at least 50% should be female. PRASA requires that the turnkey contractor/consultants hires 2 interns per discipline. The interns/trainees should be South African citizens, either qualified or requiring experiential training to fulfil their qualification requirements (e.g. P1, P2 or vacation work).

4.1.6 Design Stage Requirements

4.1.6.1 The appointed turnkey company professional team shall perform the following activities during this stage:

4.1.6.1.1 Perform all studies and surveys listed in 4.1.1 above;

4.1.6.1.2 Issue a detailed report with drawings and different proposed concept design options available for implementation. A solution should be recommended accompanied by a clear motivation. Since a concept is already required at tender stage, the appointed supplier can provide those options that were considered at tender stage, have discussions with PRASA personnel to gain insights or gather further information not available at tendering stage, consider any alternatives workshopped with PRASA and provide a recommended option with reasons why the option was chosen;

4.1.6.1.3 Upon approval of the recommended concept by PRASA and the Railway Safety Regulator (RSR), prepare preliminary technical designs (report and drawings and equipment specifications) based on the scope of works and on the recommended solution and submit to PRASA end user teams including Engineering, Operations, Maintenance, Infrastructure, Security and ICT for perusal, input and approval. The preliminary designs should be informed by latest available information from PRASA, PRASA's train supplier (Depot Facilities Agreement and Technical Support and Spares Supply Agreement signed between PRASA and Gibela), latest available technology and operational efficiencies;

4.1.6.1.4 Existing/reference drawings and guideline specifications are provided as guidance only and the Bidders are to confirm all measurements on site and complete relevant designs;

4.1.6.1.5 Provide a masterplan for the new precinct and the masterplan should reflect the integration of the new facilities and the existing facilities;

4.1.6.1.6 Prepare detailed technical designs (reports and drawings and equipment specifications) for final review and approval by PRASA in accordance with all applicable laws, regulations and

standards. PRASA end user teams including Engineering, Operations, Maintenance, Infrastructure, Security, PRASA CRES and ICT will review and approve the detailed designs to ensure that end user requirements have been provided for in the detailed designs;

4.1.6.1.7 All detailed design reports, specifications and drawings to be provided to PRASA in pdf and editable/native versions (Word, Excel, CAD, etc). Two (2) hard copies and two (2) soft copy (pdf and native/editable files) must be submitted to PRASA.

4.1.6.1.8 Any other specialist services that will be required to deliver the proposed solution in compliance with any regulatory and SANS/NBR requirements;

4.1.6.1.9 The contractor will be responsible for the compilation of all required design and construction drawings, technical specifications, bills of quantities and the implementation of the scope of work required in the Paarden Eiland Rolling Stock maintenance depot and yard;

4.1.6.1.10 Where necessary, prepare technical specifications for the appointment of all sub-contractors to implement the approved detailed designs;

4.1.6.1.11 Prepare and submit all design reports, drawings and specifications to the relevant authorities (including RSR, municipal, fire chief) for approval as per submission guidelines provided by each authority;

4.1.6.1.12 The bidder is to make provision for all regulatory submissions for approvals i.e. building plans, service connections, wayleaves etc. that may be required for and during construction and upon occupation by PRASA;

4.1.6.1.13 Obtain all town planning approvals required for the recommended solutions to be implemented;

4.1.6.1.14 Should notarial ties be required, the appointed team should prepare all documentation required in conjunction with PRASA teams and submit to the relevant authorities for approval and finalisation.

4.1.6.1.15 Prepare a testing and commissioning plan clearly stating pass/no pass criteria for all construction works, equipment, equipment installation and facility/equipment commissioning;

4.1.6.1.16 Prepare documentation for PRASA capitalisation process including lists of all equipment, facilities and services to be installed/constructed/demolished with breakdowns of all equipment, facilities and services to be installed/constructed/demolished into asset groups as identified by the PRASA asset controller with quantities and respective values for each asset breakdown/asset group;

4.1.6.1.17 Provide warranty and maintenance requirements for all new equipment and system installations; and

4.1.6.1.18 Prepare recommended maintenance plans including a list and specification of all spares and maintenance tools that will be required by PRASA for all facilities and equipment to be installed/constructed.

4.1.7 Construction Stage Requirements

4.1.7.1 The appointed team shall perform the following activities during the stage:

4.1.7.1.1 Construct the depot as per approved detailed designs and in accordance with all applicable laws, regulations and standards;

4.1.7.1.2 Provide project management services, technical support and address all design related queries during the construction;

4.1.7.1.3 Provide Level 3 construction monitoring services for the project (as described in the latest ECSA guidelines) to ensure that construction is undertaken in accordance with designs or revised designs as may be required by professionals listed in 4.1.5;

4.1.7.1.4 Provide quality assurance process for the project and implement the testing and commissioning plan compiled during design stage and provide signed off monthly reports/certificates of all tests performed and results thereof;

4.1.7.1.5 Provide periodic (monthly) cash flow forecasts linked to key project milestones;

4.1.7.1.6 Provide regular project reports to PRASA at agreed intervals with the information listed in the contract and any additional information as may be required by the PRASA Project Manager;

4.1.7.1.7 Provide construction documentation;

4.1.7.1.8 Provide schedule and financial control reports;

4.1.7.1.9 Provide various certificates of Compliance as work is completed;

4.1.7.1.10 Facilitate and administer technical meetings and stakeholder meetings;

4.1.7.1.11 Facilitate and administer document management and archiving;

4.1.7.1.12 Attend practical completion and snagging meetings and assist in compiling defects list as identified by PRASA Project Manager and PRASA end user departments at practical completion stage;

4.1.7.1.13 Measures should be in place to minimise disruptions of the existing Paarden Eiland Rolling Stock Maintenance depot and yard during construction;

4.1.7.1.14 Implement dust control measures on site to ensure that existing operations and trains, equipment and infrastructure and employees in the yard/depot are not affected by the dust emanating from construction;

4.1.7.1.15 Construction will not commence until designs are approved by PRASA or by the nominated/appointed PRASA Owners Engineers (OE), including approval by the Railway Safety Regulator (RSR).

4.1.7.1.16 It must be noted that there may be a delay between completion of designs and start of construction on **new** facilities and infrastructure at Paarden Eiland depending on the requirements and outcome of the Environmental Authorisation process. Upon preliminary scans, a full Environmental Authorisation process may not be necessary on the current PRASA land that is intended for development, however, PRASA have estimated a six month period where Environmental Authorisation may not be granted or delayed. Bidders should note that work on the existing shed and buildings could continue unhindered in this time. PRASA have made a provision for this possible delay and the appointed turnkey contractor will have to prove the delay and the costs to be able to access the provisional sum.

4.1.8 Close Out Stage Requirements

4.1.8.1 The appointed turnkey contractor team shall perform the following activities during the construction stage:

4.1.8.1.1 Inspect and verify the rectification of the identified defects on site

4.1.8.1.2 Ensure that the training, operations and maintenance manuals and warranties/guarantees are issued for the installed assets in editable soft and hard copies (3 hard and 3 soft copies (pdf format and editable format))

4.1.8.1.3 Prepare and submit signed off (with Pr Eng No.) as-built drawings (in CAD and pdf formats, 3 hard and 3 soft copies). If other packages are being used, PRASA still requires that the contractor convert the as built drawings to CAD drawings for submission to PRASA.

4.1.8.1.4 Contractor to provide all as built drawings, operations, maintenance and training manuals for the deliverables as follows:

4.1.8.1.4.1 As built drawings: As per timing in FIDIC contract;

4.1.8.1.4.2 Maintenance, operations and training manuals: As per timing in FIDIC contract.

4.1.8.1.5 Training materials/manuals for all installed equipment will be provided with certificates and copyrights to allow PRASA to continue offering training on their own. The training to be completed such that the PRASA Trainers have authority to certify and provide refresher training to others. PRASA to be provided with a letter stating it is an accredited training service provider for the equipment installed at the depot;

4.1.8.1.6 Functional training and certification where necessary should be provided with all supporting material in hard copy and editable format;

4.1.8.1.7 Training material should be provided to PRASA in Video format, Editable soft copies and pdf;

4.1.8.1.8 Train the Trainers should be provided for and assessment tools should be provided to the trainers post training;

4.1.8.1.9 Provide certificated (certificated as competent Trainers, operators and maintainers not just certificates of attendance) for PRASA Trainers, operators and maintainers of all equipment installed (lifting jacks, bogie turntables, bogie drop, fire protection and suppression systems, forklifts, quad bikes, security systems, rail signalling equipment, OHTE equipment, transformers, PA systems, ICT hardware and systems, life lines, etc.);

4.1.8.1.10 Review and submit documentation for PRASA capitalisation process including lists of all equipment, facilities and services installed/constructed/demolished with breakdowns of all equipment, facilities and services installed/constructed/demolished into asset groups as identified by the PRASA asset controller with quantities and respective values for each asset breakdown/asset group;

4.1.8.1.11 Provide all signed off handover and warranty documentation including but not limited to compliance certificates, operations and maintenance manuals, training manuals, guarantees and warranties and spares holding requirements;

4.1.8.1.12 Provide Professional verification and signoff that the construction/installation is in compliance with the developed designs, the OSH Act, relevant SANS standards and applicable laws and regulations;

4.1.8.1.13 Provide all signed quality assurance documentation in accordance with the testing and commissioning plan;

4.1.8.1.14 Conclude the final accounts statement;

4.1.8.1.15 Prepare and submit a close out report to PRASA (1 hard copy, 1 pdf format and 1 editable soft copy); and

4.1.8.1.16 Submit a copy of the safety file for the project to PRASA (2 hard copies and 1 scanned electronic copy).

4.2 The Paarden Eiland Yard Upgrade Works

4.2.1.1 The Paarden Eiland upgrade works will include the following:

4.2.1.1.1 Phase 1a (to be delivered 5 months from contract signing)

4.2.1.1.1.1 Organisation/Gathering of design and critical construction team members by the appointed supplier;

4.2.1.1.1.2 Preparation of safety file, approval of safety file and induction of critical appointed supplier personnel;

4.2.1.1.1.3 Completion of all surveys/investigations required for the preparation of designs

4.2.1.1.1.4 Preparation, workshopping and approval by PRASA and the RSR of concept designs;

4.2.1.1.1.5 Preparation, workshopping and approval by PRASA and the RSR of detailed technical designs;

4.2.1.1.1.6 Erection of site establishment; and

4.2.1.1.1.7 Placing of orders for long lead material and equipment by the appointed supplier.

4.2.1.1.2 Phase 1b (to be delivered 6 months from detailed design approval by PRASA and RSR and obtaining Environmental Authorisation)

4.2.1.1.2.1 Upgrade of the existing maintenance shed to accommodate existing and new rolling stock (for running maintenance);

4.2.1.1.2.2 New Warehouse and storage areas;

4.2.1.1.2.3 New mess and ablution facilities;

4.2.1.1.2.4 Upgrade/refurbish/remodel existing staging yard; and

4.2.1.1.2.5 New maintenance shed (for running and lifting maintenance).

4.2.1.1.3 Phase 2 (to be delivered 18 months from detailed design approval by PRASA and RSR and obtaining Environmental Authorisation)

4.2.1.1.3.1 New office building (with Control Room for depot security);

4.2.1.1.3.2 New depot accessways for pedestrians and vehicles;

4.2.1.1.3.3 Road works at depot entrance on Sunny Side Crescent (or alternate access/exit);

4.2.1.1.3.4 New parking area;

4.2.1.1.3.5 New precinct security systems:

4.2.1.1.3.5.1 Access control equipment;

4.2.1.1.3.5.2 CCTV cameras;

4.2.1.1.3.5.3 New security and access control buildings; and

4.2.1.1.3.5.4 New shunter's/guard's watchtowers at both rail entrances.

4.2.1.1.3.6 Supply and install new underfloor wheel lathe

4.2.1.1.3.7 All services reticulation to entire depot;

4.2.1.1.3.8 Electricity and water meters;

4.2.1.1.3.9 Fire detection and suppression systems;

4.2.1.1.3.10 Compressed air system;

4.2.1.1.3.11 Information, Communication and Technology provision

4.2.1.1.3.12 External train wash facilities

4.2.1.1.3.13 Demolish unused buildings

4.2.1.1.3.14 Provision of depot support equipment

4.2.1.2 Existing Maintenance Shed Upgrade

4.2.1.2.1 Clean the existing pits using manual cleaning of all oil and grease build up. Clean and clear away the oil/grease from the oil/water separator;

4.2.1.2.2 Evaluate the existing water drainage system in each of the four pits to ensure that the drainage system is working and linked to the existing oil/water separator to allow for washing of the pits. Undertake any required cleaning, unblocking and repairs to the water drainage system in the pits;

4.2.1.2.3 Close off the shed and install electrical mechanised roller doors/sliding doors operable by one person (when in manual mode) at 8 train entrances of the running sheds to prevent wind driven rain from entering the shed as well as protecting the shed against wind driven debris and dirt and employees from adverse weather conditions;

4.2.1.2.4 Install a 30-meter concrete apron that will span the entire width of the shed on the eastern side of the shed and canopies/roof structures that will span the entire width of the shed (to cover the 8 train entrances) on both sides of the shed to prevent wind driven rain entering the sheds and for the provision of an extended maintenance/component drop off area. Ensure that the canopies/roof structures on the western side of the maintenance shed are made from anti-corrosive material or are treated to withstand the more corrosive environment.

4.2.1.2.5 Three lines/pits to be fitted with a lifeline that must be safe for use with existing OHTE in the sheds. The lifelines must be able to accommodate 4 people using the lifeline at any given time in any position along the line/pit/shed. An employee should not have to crossover the OHTE to hook themselves onto the lifeline. The lifelines should not be obstructed by any obstacle along the length of the shed. There is a possibility that the scope for the provision of one of the lifelines is removed but this will be discussed with the appointed bidder. Bidders are to price to complete the scope as described above and the price of one lifeline can be removed at PRASA's request at negotiation stage before contract signing on agreement with the appointed bidder;

4.2.1.2.6 The newly installed lifeline on the fourth line/pit of the existing shed needs to be inspected and upgraded to accommodate 4 people using the lifeline at any given time in any position along the line/pit/shed. There is a possibility that this scope for the modification/upgrade of the one lifeline is increased to the modification/upgrade of two lifelines but this will be discussed with the appointed bidder. Bidders are to price to complete the scope as described above and the price of the modification/upgrade of one lifeline can be offset against scope exclusions/reductions at negotiation stage before contract signing on agreement with the appointed bidder;

4.2.1.2.7 Install security cameras (static and PTZ cameras) at the entrances, maintenance pits and other strategic positions as may be required outside and inside the sheds to monitor the pit, door and roof accesses along the entire length of the shed. The redesigned existing offices/stores/workshops and ablution facilities (refer to 4.1.9.2.6) should also be under surveillance along the entire length of the shed;

4.2.1.2.8 The existing offices/stores/workshops and ablution facilities in the existing shed need to be redesigned and upgraded taking into account the requirements of the entire depot (existing and new facilities, equipment, warehouse, office and mess and ablution provisions). PRASA requires that all admin facilities for example are located in the same facility. Same for warehouses/mess rooms/workshops, etc. Depending on the proposed layout of the entire precinct, there is however a need for the existing shed to have accessible toilets, green area meeting rooms and a supervisor office. The electronic card repair room could also be located in this area;

4.2.1.2.9 Provide and maintain temporary facilities for PRASA personnel while the offices, ablution- and mess facilities are being refurbished. Temporary facilities to have air conditioning, lighting and should be lockable. Furniture to be moved from offices into temporary facilities;

4.2.1.2.10 Provide shore supply for the new trains to three lines/pits in the shed. The shore supply for the existing fleet is to be retained. Install 400VAC (minimum 2x35KVA) per six (6) car train three phase earthed and 230VAC earthed with 4 connections along each line in the shed. See specifications for shore supply provision for the new rolling stock. All connections (male and female) and all cables to be provided;

4.2.1.2.11 Provide 10 Bar, oil free and filtered compressed air supply to four lines/pits. The upgraded compressed air system must be consolidated with existing systems at the depot. The outlets shall be spaced at either end of the new 6 car train and at all inter-vehicle or gangway connections. The quality of the compressed air supplied must be tested;

4.2.1.2.12 Install an adjustable gap filling system between all 8 platform edges and train to allow both new and old coaches access to these platforms. The gap filler is required as the structural

gauge of the existing and new fleet differ thereby causing the potential of tools falling or people being injured by the gap between the new train and existing door access platforms;

4.2.1.2.13 Install a Wi-Fi and Telecoms system in the shed. Ensure the shed is connected with ICT and Telecoms equipment as proposed for the new sheds;

4.2.1.2.14 Check shed roof for leaks. Any leaks found should be fixed. Make a provision to replace 10% of the roof sheeting, including necessary accessories, i.e. flashings, fascia's, gutters, ridging to be replaced with new to match existing roof. All gutters and downpipes to be assessed and cleaned and repaired or replaced where necessary;

4.2.1.2.15 Check all overhead lighting and improve to 300-lux levels (or higher levels if required and appropriate for night time working) using energy efficient LED light bulbs. The lighting should be upgraded to provide for emergency lighting in the event of a power interruption at night;

4.2.1.2.16 Check all existing pits and improve lighting to 300-lux levels (or higher levels if required and appropriate for night time working) using energy efficient LED light bulbs. These levels to be achieved in the pits at night with a train covering the pit.

4.2.1.2.17 Install lighting to allow for day and night work (both inside and outside the sheds including all outside walkways and driveways to the sheds);

4.2.1.2.18 Provide access platforms for all four lines/pits providing access to train roofs for inspection and light repairs. These access platforms should allow for both types of fleet/rolling stock. Employee access to these roof access platforms should only be granted if the OHTE is switched off so there must be a lockout system installed to work with the OHTE interlocking. Should the existing OHTE interlocking need to be modified, this should also be catered for. Design and install interlockings, lockouts and other depot protection systems for everyday use;

4.2.1.2.19 The OHTE lockout/switching area/crows nest area must be refurbished;

4.2.1.2.20 Voltage indicators or volt meters for each line to be installed. This should be through numerical LED displays of the voltage reading in the OHTE that is visible from the OHTE switching panel. A visual indication at both ends of each line is also required (either green or red light) to indicate presence of power in the OHTE system;

4.2.1.2.21 Install a fire detection and protection system and ensure safety with OHTE installations. Fire suppression systems must be safe with live 3kV OHTE lines;

4.2.1.2.22 The shed must be bird proofed. Maintenance free nets need to be installed inside the roof structures of the shed. This net must be installed just above the roof light fittings to prevent birds from sitting on the roof structures. The design team can propose alternative bird proofing systems to ensure that birds do not nest or stay in the sheds (if the alternatives are

more cost effective including maintenance costs than the netting and can provide the guarantee of keeping the birds away);

4.2.1.2.23 All uneven surfaces of all floors and pits to be fixed. The pits and floors must be painted with a polyurethane paint. The coating used must provide a non-slippery surface when completed. Various paint colours may be required to demarcate certain areas;

4.2.1.2.24 Paintwork of all previously painted surfaces (steel, plastered surfaces, floors, pit floors, concrete surfaces, doors, frames);

4.2.1.2.25 Install a public announcement system (PA system) in the shed. A microphone must be installed at the OHTE switching panel as well as at both ends of each platform in the shed. The PA system must be one integrated system for the whole depot but must allow for announcements to various sheds/offices;

4.2.1.2.26 All existing services (low voltage electrical reticulation, stormwater, water, sewer, ICT, Telecoms etc) to be renewed and designed in accordance with the new services layout of the entire Paarden Eiland precinct;

4.2.1.2.27 Install an appropriate HVAC or temperature control system for the sheds (to work in conjunction with the doors required at the 8 train entrances to the shed);

4.2.1.2.28 Handrails to be fitted on six platform edges for the entire length of the shed (i.e. approx. 300m x 6 = 1800m). See the handrail section of this specification (Clause 4.1.9.5). There is a possibility that this scope for the provision of handrails can be reduced to 1200m but this will be discussed with the appointed bidder. Bidders are to price to complete the scope as described above and this price can be removed at PRASA's request at negotiation stage before contract signing on agreement with the appointed bidder; and

4.2.1.2.29 Provide a fire/emergency alarm system linked to the PA system.

4.2.1.3 Existing yard remodel/upgrade/refurbishment

4.2.1.3.1 The new maintenance shed could be built alongside the northern side of the existing shed at Paarden Eiland thereby affecting the existing staging yards.

4.2.1.3.2 The existing yard/any space remaining at Paarden Eiland after the new sheds are built must be remodelled to accommodate as many 6 coach trains as possible;

4.2.1.3.3 The PRASA owned land on the eastern side of the Paarden Eiland depot between Voortrekker Road and Black River can be considered as a possibility for staging. Another option that could be considered as a possibility for staging is Maitland. Both these areas will have to be secured if they will be used as staging yards with the same type of fencing being built at Paarden Eiland currently. The securing and construction of the possible "new" yards will be the responsibility of the appointed supplier to ensure business continuity for PRASA.

4.2.1.3.4 The changes in the existing yard/construction of the ”new yards” must be implemented as part of Phase 1 to ensure that the new trains can be staged at Paarden Eiland or Maitland;

4.2.1.3.5 The remodelled staging yard should minimise the train movements necessary to get a train from the staging yard to the main line or to the existing and new maintenance sheds;

4.2.1.3.6 All new infrastructure to be installed;

4.2.1.3.7 All existing infrastructure must be removed carefully and as per instruction from regional maintenance teams so that the material can be used elsewhere for maintenance purposes. The existing material must be transported to the Infra store in Salt River by the appointed turnkey contractor;

4.2.1.3.8 The yard fire protection and suppression system must be upgraded and in compliance with relevant legislation;

4.2.1.3.9 The storm water drainage system to be upgraded;

4.2.1.3.10 Install water points between the rail lines for the use of the train cleaning personnel as well as separate fire protection access points;

4.2.1.3.11 Hinged high mast lighting to be installed to cover the remodelled staging yard. The high mast lighting must be adequate for night time working as well as for camera visibility at night;

4.2.1.3.12 The OHTE design must ensure that the staging yards can be isolated from the maintenance shed areas i.e. a trip/switch off in one area should not impact the provision of power in the other area.

4.2.1.3.13 Install concrete walkways between the rail lines for the use of train cleaning, train operations, maintenance and security personnel. As part of the walkways, install brick staircases for personnel to access/exit the new train driver’s cabs;

4.2.1.3.14 Install security cameras (static- and PTZ cameras) between each rail line covering the length of each line; and

4.2.1.3.15 Design and deploy a Wi-Fi MESH System covering all areas of the staging yards to provide connectivity for trains as well as personnel. The Wi-Fi solution must also cover rail lines outside the various running and lifting sheds for up to 250m.

4.2.1.4 New Maintenance Shed

4.2.1.4.1 The new maintenance shed could be built alongside the northern side of the existing shed at Paarden Eiland thereby affecting the existing staging yards and train wash plant.

4.2.1.4.2 The running maintenance lines in the new shed will be built to cater strictly for the new rolling stock whilst the lifting maintenance lines will be built to maintain both old and new fleet and locomotives. The list below indicates the works required to achieve this objective:

4.2.1.4.2.1 Design and construct a new maintenance shed with forklift access between all the lines and walls. The roof height should be such that it allows for the maintenance of cranes and overhead equipment;

4.2.1.4.2.2 One line will serve as a bogie storage/bogie movement line and provide forklift access to the lifting line; and

4.2.1.4.2.3 One lifting line with the following workstations/maintenance bays:

4.2.1.4.2.3.1 Four (4) workstations/bays with equipment for lifting single coaches of the old fleet; and

4.2.1.4.2.3.2 One (1) workstation/maintenance bay dedicated to lift new six coach trains.

4.2.1.4.2.4 Two (2) running maintenance lines (Make provision for four (4) workstations/ maintenance bays each accommodating a new six coach train); and

4.2.1.4.2.5 A bogie drop system (either deep pit or drop table system) is to be positioned on one of the lines mentioned above that will produce the maximum efficiency/capacity, if unable to achieve the desired maintenance capacity listed in 4.1.3. Any special tools/lines that will be required for getting the removed bogie to the storage line or a new bogie to the bogie drop system must be provided.

4.2.1.4.3 Running Line Requirements

4.2.1.4.3.1 Half the length of the running lines (approx. 150 m) should be designed such that it allows for raised rail levels for forklift access to underframe equipment (Swimming Pool Configuration). These workstations in the swimming pool configuration should also be pitted. The workstations with the swimming pool configuration should be designed with the following:

4.2.1.4.3.1.1 Mobile Platforms should be supplied as follows for the half of the shed with the swimming pool configuration:

4.2.1.4.3.1.1.1 Two (2) Train-Door-Level Access platforms per workstation;

4.2.1.4.3.1.1.2 Two (2) Train Roof-Level Access platforms per workstation; and

4.2.1.4.3.1.1.3 Two (2) Nose-end Access platforms per workstation.

4.2.1.4.3.1.2 Space should be provided where mobile platforms should be stored when they are not in use;

4.2.1.4.3.1.3 The forklift access on both ends should have slopes suitable for a loaded forklift and should not be too steep;

4.2.1.4.3.1.4 Install a fixed staircase at one end of each workstation with the swimming pool configuration for the train drivers to access/enter the train drivers' cab;

4.2.1.4.3.2 Half the length of the running lines (approx 150 m) should be fitted with fixed access platforms providing three level access as described below:

4.2.1.4.3.2.1 This section should be equipped with elevated fixed access platforms that allows train door and train roof access;

4.2.1.4.3.2.2 Train Roof level access must be such that a technician can be able to conduct roof inspection;

4.2.1.4.3.2.3 Train door and train roof access platforms should be fitted with removable handrails;

4.2.1.4.3.2.4 A pit is required for access to the train undercarriage; and

4.2.1.4.3.2.5 There should be 1 ton hoists operating through a monorail system in each work station with fixed access platform configuration. The shed roof structure must be strong enough to accommodate these monorail hoists. These monorail hoists to work in conjunction with the OHTE system and life lines in the sheds.

4.2.1.4.3.3 In the centre of the shed (In between the workstations with swimming pool configuration and workstations with fixed access platforms) there should be a provision for a path for a forklift to move with spares;

4.2.1.4.3.4 Install lifelines in each work station that must be safe for use with OHTE and hoists in the sheds. The lifelines must be able to accommodate 4 people using the lifeline at any given time in any position along the line/pit/shed. An employee should not have to crossover the OHTE to hook themselves onto the lifeline. The lifelines should not be obstructed by any obstacle along the length of the shed; and

4.2.1.4.3.5 Each of the four (4) workstations in the running shed must have its own independent OHTE supply, i.e. one line can be live while the other line is dead. The switching and earthing for each workstation must be electrically operated (with appropriate lock out systems) and operated independently.

4.2.1.4.4 Lifting Line Requirements

4.2.1.4.4.1 Procure and install one (1) set of synchronised lifting jacks to lift a new six coach train all at once (Screw Type). There should therefore be a total of 24 x 16 ton synchronised lifting jacks. Provide an additional 4 lifting jacks as spares;

4.2.1.4.4.2 Procure and install four (4) sets of 4 x 25 ton coach lifting jacks for lifting single coaches of the old trains. Provide an additional 4 lifting jacks as spares;

4.2.1.4.4.3 Make provision for forklift access and forklift movements between all the lifting workbays/workstations;

4.2.1.4.4.4 Two (2) x 40 ton overhead cranes to run over and across the two lines in the lifting area (lifting line and bogie storage line). The cranes to be fitted with audible warning device and light beacon. The crane is to be designed to cater for the lifelines on the lifting line (excluding the bogie storage line). Access equipment for maintenance of the cranes to the provided;

4.2.1.4.4.5 Adequate bogie turn tables on bogie storage and lifting lines with rail links from the lifting line to the bogie storage line. The bogie turntables should be motorised with the option to operate manually. If operated manually, the bogie turntable should be operated by a single person;

4.2.1.4.4.6 Install lifelines in each lifting work station capable of carrying four people using the lifeline at any given time in any position along the workstation/line/pit/shed. The lifelines should not be obstructed by any obstacle along the length of the workstation. The life lines to be designed to cater for the cranes running over and across the lifting and bogie storage lines;

4.2.1.4.4.7 Provide movable platforms for the one lifting workstations for the new trains:

4.2.1.4.4.7.1 Two (2) Train-Door-Level Access platforms;

4.2.1.4.4.7.2 Two (2) Train Roof-Level Access platforms; and

4.2.1.4.4.7.3 Two (2) Nose-end Access platforms.

4.2.1.4.4.8 Make provision for a bogie storage line with a one coach pit with a pit cover solution suitable for a loaded forklift to drive over. The pit cover solution can be moved with the crane but adequate thought must be given to where the pit cover solution will be stored when removed;

4.2.1.4.4.9 There should be road access to the bogie storage line to facilitate the loading and offloading of bogies on road trucks using the 40 ton crane in the facility. This could be in the form of the requested extended concrete apron;

4.2.1.4.4.10 The bogie storage line should be built closest to the wall of the shed and close to the warehouse; and

4.2.1.4.4.11 All lifting workstations should have pit access for working on the train underframe equipment. The pits are to be adequately lit for night working with a train covering the pit.

4.2.1.4.5 General Contents across the Shed

4.2.1.4.5.1 The new maintenance shed will require the following works across the entire shed:

4.2.1.4.5.1.1 The shed must be bird proofed. Maintenance free nets need to be installed inside the roof structures of the shed. This net must be installed just above the roof light fittings to prevent birds from sitting on the roof structures. The design team can propose alternative bird proofing systems to ensure that birds do not nest or stay in the sheds (if the alternatives are more cost effective including maintenance costs than the netting and can provide the guarantee of keeping the birds away);

4.2.1.4.5.1.2 Provide not less than minimum required distance/clearance between the rail lines inside the shed as well as between the shed and the adjacent main lines.

4.2.1.4.5.1.3 Provide not less than minimum required distance/clearance between the rail lines and the shed walls/columns;

4.2.1.4.5.1.4 Install electrical mechanised roller doors/ sliding doors operable by one person (when in manual mode) at all train entrances of the new shed to prevent wind driven rain from entering the shed as well as protecting the shed against wind driven debris and dirt and employees from adverse weather conditions;

4.2.1.4.5.1.5 Install 30-meter concrete aprons that will span the entire width of the shed and canopies/roof structure over all train entrances for the provision of an extended maintenance area. Ensure that the canopies on the western side of the maintenance shed are made from anti-corrosive material or is treated to withstand the more corrosive environment;

4.2.1.4.5.1.6 Implementation of Sustainable Building Principles (Green Building) - Regardless of whether the buildings are to be certified or not, care must be taken during the preliminary and detailed design stage to address the environmental and climatic conditions prevalent in Cape Town, in order to reduce the energy and water use and reduce the long-term running and maintenance costs of the facilities to be built/upgraded. The new and upgraded facilities should include water conservation and harvesting, increased use of natural light, solar and/or wind electricity generation equipment as well as electricity saving techniques and equipment where possible. Built in back up electrical and water provision is a requirement for the precinct;

4.2.1.4.5.1.7 All maintenance workstations should be pitted;

4.2.1.4.5.1.8 Forklift access should also be provided to all workstations from both ends of the sheds;

4.2.1.4.5.1.9 Shore supply to all lines 400VAC (minimum 2x35KVA per 6 car train) three phase earthed and 230VAC earthed with 4 connections each along each line in the new line in the shed. See shore supply specifications;

4.2.1.4.5.1.10 All workstations to have access to the consolidated compressed air system for the depot. System must provide 10 Bar oil free and filtered supply, with multiple outlets on each road. The outlets shall be spaced to provide a minimum of one outlet aligned with the nominal positions of each end of a new train, plus one at each inter-vehicle connection.(i.e. gangway);

4.2.1.4.5.1.11 Install security cameras (static and PTZ cameras) at the entrances, maintenance pits and other strategic positions as may be required outside and inside the sheds to monitor the pit, door and roof accesses along the entire length of the shed;

4.2.1.4.5.1.12 All electrical and lighting connections to be supplied and installed. 300-lux levels (or higher levels if required and appropriate for night time working) using energy efficient LED light bulbs is required. The lighting should provide for emergency lighting in the

event of a power interruption at night. These levels to be achieved in the pits at night with a train covering the pit;

4.2.1.4.5.1.13 Install lighting to allow for day and night work (both inside and outside the sheds including all outside walkways and driveways to the sheds);

4.2.1.4.5.1.14 Install a fire detection and protection system and ensure safety with OHTE installations. Fire suppression systems must be safe with live 3kV OHTE lines;

4.2.1.4.5.1.15 Install a water drainage system in each of the pits and link them to an oil/water separator to allow for washing of the pits;

4.2.1.4.5.1.16 The entrance / exit of the shed should have drainage system that takes storm water away from the shed;

4.2.1.4.5.1.17 Voltage indicators and volt meters to be installed for each workstation/ maintenance bay in the sheds that has OHTE installed. This should be through red/green lights at each end of the shed as well as numerical LED displays of the voltage reading in the OHTE that must be visible from the electrical switching panel;

4.2.1.4.5.1.18 Design and install interlockings, lockouts and other depot protection systems for everyday use;

4.2.1.4.5.1.19 Employee access to fixed roof access platforms should only be granted if the OHTE is switched off so there must be a lockout system installed to work with the OHTE interlocking;

4.2.1.4.5.1.20 All services installations, reticulation and connection is required (water, sewer, storm water, low voltage electricity, Wi-Fi, Telecoms, etc);

4.2.1.4.5.1.21 Paintwork to all new surfaces to manufacturer's requirements;

4.2.1.4.5.1.22 Install a public announcement system (PA system) in the shed. A microphone must be installed at the OHTE switching panel as well as at both ends of each workstation in the shed. The PA system must be one integrated system for the whole depot but must allow for announcements to various sheds/ offices;

4.2.1.4.5.1.23 Install an appropriate HVAC or temperature control system for the sheds;

4.2.1.4.5.1.24 Adequate storage space for all mobile access platforms and spare lifting jacks while still providing for forklift movements;

4.2.1.4.5.1.25 Provide a fire/emergency alarm system linked to the PA system; and

4.2.1.4.5.1.26 All new maintenance sheds and warehouses to have level rails and floors. A quality control methodology must be in place to monitor and evaluate if the floors and rails are level.

4.2.1.5 Handrails

4.2.1.5.1 The handrails must conform to National Building Regulations;

4.2.1.5.2 The contractor is to install galvanized and painted hand rails on each side of all fixed access platforms. The hand rails are to span the entire length of the platforms concerned;

4.2.1.5.3 The handrails shall be easily and quickly removed and easily and quickly re-installable;

4.2.1.5.4 The handrails shall be installed in sections that can be easily lifted by one person;

4.2.1.5.5 The anchors are to be designed such that there is no allowance for swaying or any deviation from upright position of any section of handrail;

4.2.1.5.6 In some locations longer open sections (with no uprights) are required to provide access to the train equipment and the handrail system needs to provide for these longer open areas. These longer handrails may need to be removed and reinstalled by more than one person but not more than two people;

4.2.1.5.7 In sheds that must accommodate both types of fleet, the design team is to note the different configurations of the trains to determine where these longer open sections need to be installed;

4.2.1.5.8 The hooks onto which the removed handrail sections are stored should not create a potential for injuring employees; and

4.2.1.5.9 See attached for a design that was prototyped and implemented at Wolmerton depot.

4.2.1.6 Demolitions

4.2.1.6.1 All unused and scattered facilities must be demolished after approval by PRASA;

4.2.1.6.2 Small facilities that can be relocated or consolidated into other facilities must also be demolished after approval by PRASA;

4.2.1.6.3 Should any buildings be proposed for demolition, there should be adequate alternative accommodation of the personnel and services that are housed in that building;

4.2.1.6.4 Make good the surface area where any buildings are demolished;

4.2.1.6.5 Export the waste material/rubble to a designated and approved dumping area (with proof to be provided to PRASA Project Manager);

4.2.1.6.6 All assets in the buildings to be demolished must be handed to PRASA. All scrap metal removed from the demolitions is to be disposed to a suitable and compliant disposal site and any income generated from such to be paid to PRASA. This will be done in liaison with PRASA Project manager and Local Asset Controller; and

4.2.1.6.7 Make provision for safe and compliant asbestos removal to a designated and approved dumping area (with proof to be provided to PRASA Project Manager).

4.2.1.7 New Office Building (Administration)

4.2.1.7.1 Design and construct three storey new office block building including all required services (HVAC, power, water reticulation, sewer reticulation, ICT infrastructure, Wi-Fi, telecoms, access roads, access walkways, etc).

4.2.1.7.2 Ground Floor of New Office Building

4.2.1.7.2.1 Access to the building to be controlled via palm readers. Access to other parts of the building from reception to also have access control measures;

4.2.1.7.2.2 Provide a reception area that will be manned by two personnel:

4.2.1.7.2.2.1 The reception should have a telephone and LAN connections;

4.2.1.7.2.2.2 There should be a separate toilet for male and females in the reception area;

4.2.1.7.2.2.3 The reception area should be able to accommodate ten (10) visitors with furniture;

4.2.1.7.2.2.4 A water cooler to be provided in the reception area for visitors;

4.2.1.7.2.2.5 Provide a small kitchenette for reception staff with wash basin, hydroboil, microwave, paper towel dispenser and bar bridge; and

4.2.1.7.2.2.6 Install a public announcement (PA) microphone linked to central PA system.

4.2.1.7.2.3 Install burglar proofing on all ground floor windows.

4.2.1.7.2.4 On one side of reception provide a sick room bay, configuration office and cleaning store as follows:

4.2.1.7.2.4.1 A sick bay room that is equipped with a bed and all first aid requirements;

4.2.1.7.2.4.2 Provide for a configuration office/technical library/archive that makes accommodation for 2 people and a manager. Appropriate shelving and fire protection to be provided. Printer/scanner to be provided in the configuration office; and

4.2.1.7.2.4.3 A small cleaning store to be provided.

4.2.1.7.2.5 On the other side of reception provide for meeting rooms as follows:

4.2.1.7.2.6 Air-conditioned meeting rooms must have a roof mounted data projector, wall mounted projector screen, wall mounted interactive white boards with laptop/wifi connection and telephone conference facilities.

4.2.1.7.2.6.1 A meeting room that can accommodate thirty (30) employees/visitors and adequate electrical plug points for laptops;

4.2.1.7.2.6.2 A meeting room that can accommodate ten (10) employees/visitors and adequate electrical plug points for laptops; and

4.2.1.7.2.6.3 A meeting room that can accommodate six (6) employees/visitors and adequate electrical plug points for laptops.

4.2.1.7.2.7 The meeting rooms to have a nearby kitchenette with wash basin, hydroboil, microwave, paper towel dispenser, water cooler and fridge with two tables and eight chairs in total (four per table);

4.2.1.7.2.8 All meeting room furniture to be provided as per PRASA furniture guidelines/ specifications; and

4.2.1.7.2.9 Each meeting room to be equipped with side tables for catering equipment.

4.2.1.7.3 First Floor of New Office Building

4.2.1.7.3.1 Provide offices with internet connectivity (High speed i.e. 100MByte, with Wi-Fi access), LAN points, 2 power outlets per desk plus wall mounted power outlets all of 230VAC 50 Hz with UPS and lightning protection dimensioned with several outlets allowing multiple connections, telephone lines, LAN connections and furniture as per PRASA guidelines.

4.2.1.7.3.2 The following offices to be provided:

4.2.1.7.3.2.1 Provide ten (10) offices for managers with respective furniture as per PRASA guidelines/specification;

4.2.1.7.3.2.2 Provide three (3) open plan offices that can accommodate eight (8) employees each with respective furniture as per PRASA guidelines/specification; and

4.2.1.7.3.2.3 Provide one (1) open plan office that can accommodate ten (10) employees with respective furniture as per PRASA guidelines/specification.

4.2.1.7.3.3 Provide air conditioned meeting rooms that have a roof mounted data projector, wall mounted projector screen, wall mounted glass magnetic white boards. Meeting rooms are as follows:

4.2.1.7.3.3.1 A meeting room that can accommodate twenty (20) people and adequate electrical plug points for laptops;

4.2.1.7.3.3.2 Two meeting rooms that can accommodate ten (10) people and adequate electrical plug points for laptops; and

4.2.1.7.3.3.3 All meeting room furniture to be provided as per PRASA furniture guidelines/specifications.

4.2.1.7.3.4 Provide for security control room with the following requirements:

4.2.1.7.3.4.1 This control room will monitor all cameras and access control equipment across the upgraded depot (including the cameras installed by the separate perimeter walling project that is currently running);

4.2.1.7.3.4.2 An office for Security Manager or Control Room Supervisor outside the actual control room;

4.2.1.7.3.4.3 The control room should be equipped with all equipment and features of a control room;

4.2.1.7.3.4.4 Exclusive access to be provided through palm readers to control room staff.

4.2.1.7.3.4.5 There should be a fixed camera (or cameras for redundance) at the entrance of the control room;

4.2.1.7.3.4.6 The control room should be kitted with all necessary features as specified by Security requirements including appropriate lighting, temperature control, sound proofing and appropriate monitoring screens;

4.2.1.7.3.4.7 The control room should be able to accommodate four people working 24 hours daily;

4.2.1.7.3.4.8 The control room to have appropriate CCTV monitoring inside;

4.2.1.7.3.4.9 A walk-in safe for documents and equipment with access control;

4.2.1.7.3.4.10 A server/recorder room with separate access to the control room. Exclusive access to be provided to the server room to the maintenance staff and appointed security manager/ supervisor;

4.2.1.7.3.4.11 A Kitchenette with wash basin, hydroboil, microwave, paper towel dispenser, fridge, water cooler, built in food lockers, a small cabinet as well as table with four chairs;

4.2.1.7.3.4.12 The control room to have a PA system microphone and be connected to all sheds and offices so that an emergency can be communicated to the depot staff from the control room;

4.2.1.7.3.4.13 The control room is to also have a panic alarm linked to CMOCC in Windermere/Bellville/Cape Town station;

4.2.1.7.3.4.14 Separate toilets for males and females with built in lockers and change room facilities;

4.2.1.7.3.5 The floor to also provide:

4.2.1.7.3.5.1 A general storeroom;

4.2.1.7.3.5.2 A cleaning storeroom;

4.2.1.7.3.5.3 A printer room with a printer/scanner provided;

4.2.1.7.3.5.4 An IT server room;

4.2.1.7.3.5.5 Kitchenette with wash basin, hydroboil, microwave, paper towel dispenser, fridge and water cooler for office personnel and cleaners with four tables and sixteen chairs in total (four chairs per table); and

4.2.1.7.3.5.6 Separate toilets for males and females.

4.2.1.7.4 Second Floor of New Office Building

4.2.1.7.4.1 Provide 250sqm air-conditioned open plan office space equipped with desks, chairs and cabinets per person that can be accommodated in the space as per PRASA guideline/specification with the following provisions:

4.2.1.7.4.1.1 2 power outlets per desk plus 10 wall mounted power outlets all of 230VAC 50 Hz with UPS and lightening protection dimensioned with several outlets allowing multiple connections;

4.2.1.7.4.1.2 Internet connectivity (High speed i.e. 100MByte);

4.2.1.7.4.1.3 Additional two (2) tables (2m x 1m); and

4.2.1.7.4.1.4 Additional one (1) Glass topped table (2m x 1.5m) with built-in illumination below the table surface for display of engineering drawings.

4.2.1.7.4.2 Provide ten (10) offices for managers with respective furniture as per PRASA guidelines/specification;

4.2.1.7.4.3 Provide one (1) open plan office that can accommodate ten (10) employees with respective furniture as per PRASA guidelines/ specification;

4.2.1.7.4.4 Provide air-conditioned meeting rooms that have a roof mounted data projector, wall mounted projector screen, wall mounted glass magnetic white boards. Meeting rooms are as follows:

4.2.1.7.4.4.1 Two (2) meeting rooms that can accommodate ten (10) people and adequate electrical plug points for laptops;

4.2.1.7.4.4.2 One (1) meeting room that can accommodate twenty (20) people and adequate electrical plug points for laptops; and

4.2.1.7.4.4.3 All meeting room furniture to be provided as per PRASA furniture guidelines/specifications.

4.2.1.7.4.5 Training facilities with the following requirements must be provided for:

4.2.1.7.4.5.1 One (1) office for Manager;

4.2.1.7.4.5.2 One (1) office for Administrator which must also be the receptionist area for the training facility. The office must also accommodate a filing unit 3m (L) x 1,2m (w) x 2,3m (h);

4.2.1.7.4.5.3 Record room with appropriate fire protection, access control and key logout system;

4.2.1.7.4.5.4 A dedicated printer room with printer/scanner provided that also has space / racks / desk to store temporarily the printed documents and/or manuals;

4.2.1.7.4.5.5 Open plan office for 10 people each with respective furniture as per PRASA guidelines/specification; and

4.2.1.7.4.5.6 Three (3) classrooms for technical training to accommodate 15 students with network points and sufficient plugs for facilitator and students. Have projectors installed in all the rooms. First and second row of lights, where projector is installed, must be working independently for training purposes. Sound proof classrooms. Each classroom to have a whiteboard.

4.2.1.7.4.5.7 The floor to also provide:

4.2.1.7.4.5.7.1 A general storeroom;

4.2.1.7.4.5.7.2 A cleaning storeroom;

4.2.1.7.4.5.7.3 A printer room with a printer/scanner provided;

4.2.1.7.4.5.7.4 An IT server room;

4.2.1.7.4.5.7.5 Kitchenette with wash basin, hydroboil, microwave, paper towel dispenser, water cooler, fridge and small cabinet for office personnel with four tables and sixteen chairs in total (four chairs per table); and

4.2.1.7.4.5.7.6 Separate toilets for males and females.

4.2.1.7.5 General Requirements for New Office Building

4.2.1.7.5.1 Entire building to be linked to central PA system;

4.2.1.7.5.2 All proposed furniture for all new offices to be provided in compliance with PRASA furniture specifications. Furniture and space layout to be approved by PRASA before procurement;

4.2.1.7.5.3 The building must be universal access friendly. Provide for adequate access lifts for staff and visitors. Provide one goods lift;

4.2.1.7.5.4 Install palm readers at all entrance doors of the building. Palm readers should also be installed at all accesses to offices;

4.2.1.7.5.5 Install security cameras at all entrances and passages and common areas of the new office building;

4.2.1.7.5.6 Provide for emergency evacuation routes and points;

4.2.1.7.5.7 Provide fire detection, protection and suppression system for building as per required legislation;

4.2.1.7.5.8 Provide a fire/emergency alarm system linked to the PA system;

4.2.1.7.5.9 Use dry walling for inner walls; and

4.2.1.7.5.10 All offices to have telephone and LAN points and adequate plug points.

4.2.1.8 Mess and Ablution Building

4.2.1.8.1 A separate mess and ablution facility is required for all non-administrative personnel at the depot;

4.2.1.8.2 The mess and ablution facility can be linked to the new office building but should have a separate access point than the new office building;

4.2.1.8.3 The mess and ablution building must provide:

4.2.1.8.3.1 Separate male and female ablution and shower facilities for 120 males and 80 females;

4.2.1.8.3.2 Provide changing rooms with built-in lockers and built in benches for these male and female employees;

4.2.1.8.3.3 Provide a mess facility to accommodate two hundred (200) employees with three washbasins, three hydroboils, three microwave ovens, two fridges, two water coolers, built in chairs and tables and built in food lockers for 200 people;

4.2.1.8.3.4 Make provision for 7 x indoor built in braai places for staff functions;

4.2.1.8.3.5 Make provision for a small canteen facility that could sell light snacks;

4.2.1.8.3.6 Provide a paved outdoor area next to the mess facility with concrete furniture, trash bins, water fountain (providing drinking water) and trees where employees can sit and relax. This area must be big enough to accommodate 50 employees; and

4.2.1.8.3.7 Install outdoor gym equipment in and around the relaxing area with trees providing cover from the sun.

4.2.1.8.4 General Requirements for Mess and Ablution Building

4.2.1.8.4.1 Entire building to be linked to central PA system;

4.2.1.8.4.2 Install multiple palm readers at all entrance doors of the building;

4.2.1.8.4.3 Install security cameras at all entrances, passages, mess rooms and canteen facilities and common areas of the building;

4.2.1.8.4.4 Provide for emergency evacuation routes and points;

4.2.1.8.4.5 Provide fire detection, protection and suppression system for building as per required legislation;

4.2.1.8.4.6 Provide a fire/emergency alarm system linked to the PA system;

4.2.1.8.4.7 Use dry walling for inner walls where possible; and

4.2.1.8.4.8 Enough provision to be made for waste and a small cleaning store will be required.

4.2.1.9 Warehouse & Storage Requirements

4.2.1.9.1 Design and construct a new warehouse building including all required services (HVAC, power supply, water reticulation and connections, sewer reticulation and connections, ICT infrastructure, Wi-Fi, telecoms, all required service connections and access roads) and has the following features:

4.2.1.9.1.1 **Indoor Secured Spares Storage (2000 m^2)**

4.2.1.9.1.1.1 Must be located close to maintenance sheds;

4.2.1.9.1.1.2 Road access for a 16ton truck (max) to be provided to the warehouse ;

4.2.1.9.1.1.3 Forklift access to be provided from the warehouse to the maintenance sheds;

4.2.1.9.1.1.4 Area to include loading / offloading platform;

4.2.1.9.1.1.5 Entire area to make provision for forklift movements;

4.2.1.9.1.1.6 Area to have secure parking for all forklifts in the warehouse with the forklift parking also providing electrical 3 phase connections;

4.2.1.9.1.1.7 Access must be controlled by palm readers with only limited access to stores personnel and management;

4.2.1.9.1.1.8 Provision to be made for separate dispatch and separate receiving area outside of the actual warehouse area;

4.2.1.9.1.1.9 Floor surface must be flat, sealed, dry and non-slippery;

4.2.1.9.1.1.10 Fire detection, protection and suppression for entire new warehouse as per required legislation;

4.2.1.9.1.1.11 Provide a fire/emergency alarm system linked to the PA system;

4.2.1.9.1.1.12 Minimum 10 ton overhead crane with warning beacon and audible alarm when moving and provide for transfer of large items including bogies between trucks in the loading bay and their storage area, including stacking with suitable packers;

4.2.1.9.1.1.13 Suitable heavy duty steel racking and shelving will be detailed further during design in line with PRASA and train supplier requirements (some guidelines are provided (see documents provided as Additional Information)) (all racking and shelving should be load tested (with certificates) and safe load markings/labels should be provided);

4.2.1.9.1.1.14 Storage height for racking and shelving should be designed such that it allows for overhead crane movements (min 2,5m between crane and racking);

4.2.1.9.1.1.15 Floor load at least 10 tonnes/$m^{2;}$

4.2.1.9.1.1.16 Adequate lighting for day and night working (300 Lux levels or more);

4.2.1.9.1.1.17 Interior fencing/barriers for demarcation of separate areas within the warehouse will be required with access control measures to each demarcated area;

4.2.1.9.1.1.18 Building Height to accommodate overhead mezzanine area and associated access for storage of small parts of minimum area of 200 m^2;

4.2.1.9.1.1.19 Install security cameras (static- and PTZ cameras) that cover all entrances, all open and work areas and in all passages between racking/shelves of the new warehouse. An alarm system should be installed linked to the control room;

4.2.1.9.1.1.20 Provision must be made for a quality inspection area and area for non-conforming products;

4.2.1.9.1.1.21 Provision must be made for a designated separate area for storage of rubber products;

4.2.1.9.1.1.22 3 Metal topped tables (min 2m x 1m) for examination of parts; and

4.2.1.9.1.1.23 1 Table of 2m x 1m.

4.2.1.9.1.2 **General Office Space (30m^2)**

4.2.1.9.1.2.1 Two open plan offices each accommodating five (5) people with desks, chairs and lockable cabinets per workstation as per PRASA guidelines/specification;

4.2.1.9.1.2.2 2 power outlets per desk plus 2 wall mounted power outlets, all of 230VAC 50Hz with UPS and lightning protection (dimensioned for 2 outlet multiple connections);

4.2.1.9.1.2.3 2 Internet connections (High Speed >100 Mbytes/Second with Wi-fi access in the warehouse);

4.2.1.9.1.2.4 Telephone lines to be provided; and

4.2.1.9.1.2.5 Separate male and female ablutions to be provided for the warehouse personnel as well as kitchenette with hydroboil, microwave, fridge, paper towel dispenser, water cooler and wash basin with two tables and ten chairs.

4.2.1.9.1.3 **Segregated Air Conditioned and Dust Free Area (30m^2)**

4.2.1.9.1.3.1 This may be located at the mezzanine level;

4.2.1.9.1.3.2 Provide 2 wall mounted power outlets, all of 230VAC 50Hz with UPS and lightning protection (dimensioned for 2 outlets multiple connections) and 110VDC power supply socket; and

4.2.1.9.1.3.3 CCTV coverage of this area required.

4.2.1.9.1.3.4 Steel shelving to be provided with load testing certificate and safe load markings (some guidelines are provided)

4.2.1.9.2 Other Segregated Storage Areas

4.2.1.9.2.1 Design and build a waste classification area where all waste will be separated according to its classification:

4.2.1.9.2.1.1 Hazardous Waste;

4.2.1.9.2.1.2 Chemical Waste;

4.2.1.9.2.1.3 General Waste;

4.2.1.9.2.1.4 Valuable Scrap Metal;

4.2.1.9.2.1.5 Segregated space for scrap and other waste material to be quarantined or removed

4.2.1.9.2.1.6 Vehicle (truck) access to be provided to this area;

4.2.1.9.2.1.7 Install security cameras (static- and PTZ cameras) that cover all scrap and waste areas and ensure there are no blindspots when trucks are being off loaded/loaded.

4.2.1.9.2.2 Segregated space for storage of chemicals and paints and appropriate environmental protection equipment such as grid covered basins, etc with access control by palm readers. The chemical store should have emergency doors, have adequate ventilation and contain

steel grid racking which must be load tested with safe load markings/labels displayed. The chemical store must be compliant with all relevant legislation;

4.2.1.9.2.3 Segregated space for storage of cleaning chemicals and equipment that must be compliant with all relevant legislation with access control by palm readers; and

4.2.1.9.2.4 Segregated space for storing and servicing of fire extinguishers with access control by palm readers. This area to have vehicle access and be covered by security cameras with no blind spots when loading/off loading/servicing.

4.2.1.9.2.5 **Special Tools Storage (200m^2)**

4.2.1.9.2.5.1 Consideration should be given on locating the Special Tool Store closer to the Shedding Area in the new maintenance shed;

4.2.1.9.2.5.2 Design and build a special storage facility that has forklift access to and inside the storage area;

4.2.1.9.2.5.3 Supply and install all racks to accommodate the tools (the racking/shelving to be steel, to be load tested with certificates and the safe loads marked/labelled);

4.2.1.9.2.5.4 Supply and install air-conditioning system;

4.2.1.9.2.5.5 Access to be controlled by palm reader and area outside and inside this area to be covered by static and PTZ cameras;

4.2.1.9.2.5.6 Supply and install appropriate shelving and cages (the racking/shelving to be steel, to be load tested with certificates and the safe loads marked/labelled); and

4.2.1.9.2.5.7 Appropriate fire suppression and protection to be provided.

4.2.1.10 Electrical Sub-Stations

4.2.1.10.1 A detailed assessment must first be done to determine the electrical loading and capacity required at the depot for the planned scope and compare this to existing capacity at the depot. The electrical capacity assessment must be for high voltage or traction supply and low/medium voltage or domestic supply. The size of the transformers required to be determined from this capacity assessment. Any upgrade, repairs or replacements of equipment and cables and associated infrastructure are to be included in the priced offer and implemented;

4.2.1.10.2 Dry type transformers to be considered;

4.2.1.10.3 Install back up power supply system for the low/medium voltage power supply that is built into the designs for the Paarden Eiland precinct and should come on automatically in case of a power interruption. A generator is being proposed as the back up system but should there be other systems with lower life cycle costs, these will be considered;

4.2.1.10.4 The nearby traction/high voltage transformers at Paarden Eiland are being upgraded through another project which is already at detailed design stage;

4.2.1.10.5 Install security cameras in and around the substation/s;

4.2.1.10.6 Install a fire detection, protection and suppression system in the transformer room and provide a fire and burglar alarm system inside the substations that are linked to the control room;

4.2.1.10.7 Allow vehicle access to the substation/s;

4.2.1.10.8 Access to be controlled by palm reader; and

4.2.1.10.9 If the current location of the current low/medium voltage substation is problematic, the current facility can be demolished and rebuilt. Any assets that can be salvaged from any demolitions remain the property of PRASA and should be transported by the contractor to the PRASA stores in Salt River.

4.2.1.11 Pedestrian and Vehicle Access Works At Depot Entrances

4.2.1.11.1 Design and build covered walkways inside the depot precinct from the Ysterplaat and Paarden Eiland access gates to the maintenance and admin areas;

4.2.1.11.2 A traffic flow/impact study should be completed to determine if the existing Sunny Side Crescent entrance will be sufficient for passenger and delivery vehicle entrance and exit or whether the depot will require one entrance and another exit. The traffic flow/impact study should also look at existing alternate entrances and propose new alternate entrances to the Paarden Eiland depot as the current entrance is problematic. If another exit is required or if alternate access/exits are identified and approved by the Municipality, the appointed supplier will have to complete the road and layer works required;

4.2.1.11.3 Large truck movement simulations to be done to ensure that large trucks can enter, deliver and leave the depot safely;

4.2.1.11.4 The Sunny Side Crescent (or alternate access/exits) road and layer works should be upgraded including concrete kerbs, surfacing, road marking, road signage, drainage etc in line with the findings of the traffic flow/ impact study/ simulations;

4.2.1.11.5 Adequate lighting at the vehicle and pedestrian access approaches to be installed.

4.2.1.11.6 The road surface should be strong enough to carry a truck with a gross weight of 25 tons;

4.2.1.11.7 Where possible, level crossings should be avoided. Where level crossings are the only economical solution, these should be fitted with signage (road markings and pole mounted), height gauges and appropriate protection as per SANS standards;

4.2.1.11.8 All roads to have speed humps to break speed of vehicles. Max speed allowed inside the depot to be 20km/h;

4.2.1.11.9 Road signage (speed boards, warning signs for humps and level crossings) and directional signage is required; and

4.2.1.11.10 More detail is provided under the Security requirements for vehicle and rail depot entrance facilities.

4.2.1.12 New Parking Area

4.2.1.12.1 Design and construct a parking facility for the employees/visitors. The following is required:

4.2.1.12.1.1 The parking facility must be closed off with a fence and must have its own secure entry/exit gates for security purposes. (The existing clear view perimeter fence at the depot will be replaced with a concrete wall, and the clear view fence can be used here);

4.2.1.12.1.2 The parkings should be covered and the design is to accommodate for the strong winds in Cape Town and could potentially be used as solar power generation for the depot;

4.2.1.12.1.3 The parking facilities must make provision for one hundred (100) covered parking bays;

4.2.1.12.1.4 Each parking bay needs to be numbered;

4.2.1.12.1.5 Four parking bays must be earmarked for disabled parking bays;

4.2.1.12.1.6 Thirty (30) parking bays must be earmarked for visitor parking bays;

4.2.1.12.1.7 A new security building for employees/visitors must be built at the entrance/exit of the parking facility where everyone must gain access to the depot/parking facilities. There should therefore be vehicle access to the parking and pedestrian access to the depot maintenance and storage areas; and

4.2.1.12.1.8 Install security cameras at the entrances and inside the parking facility ensuring there are no blind spots.

4.2.1.13 Precinct Security System

4.2.1.13.1 The turnkey contractor is to ensure that all equipment provided can be linked to other external PRASA control rooms. For example the Paarden Eiland depot control room should be able to link with the Western Cape centralized control room in Cape Town Station or Windermere or Bellville, when PRASA is ready to link the various control rooms. The security system should be integrated to the Babylon system.

4.2.1.13.2 Access Control Equipment and Systems

4.2.1.13.2.1 The following equipment must be supplied and installed and linked to the Paarden Eiland control room:

4.2.1.13.2.1.1 CCTV cameras (Static and/or PTZ with clear face recognition features) to be provided in the entire precinct including buildings, sheds and staging yards as stated in each section

for each facility. The positioning of the CCTV cameras to be designed to not allow for any blindspots. CCTV cameras on the precinct perimeter will be supplied and installed by another project separate to this tender/project and these CCTV cameras and all associated equipment must be incorporated into the Paarden Eiland control room by the appointed supplier for this Turnkey project since a temporary equipment room is only provided by the separate project;

4.2.1.13.2.1.2 Pedestrian access for staff with palm readers across the entire precinct including at the main entrances. Certain areas should only allow certain employees access e.g. warehouse;

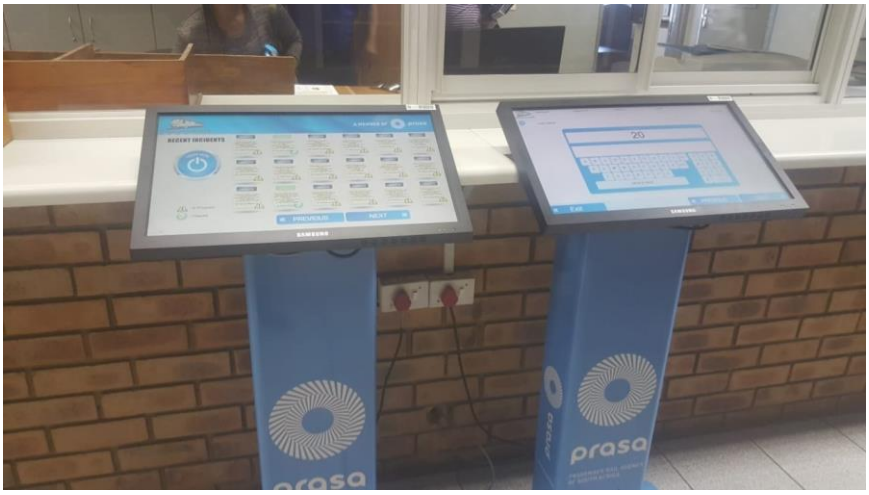
4.2.1.13.2.1.3 Metal detectors and/or bag scanners to be provided for entrance/exit points of the depot before employees/visitors access their cars in the parking facility.

4.2.1.13.2.1.4 Provide two (2) Substance Abuse testing equipment/meters;

4.2.1.13.2.1.5 Public Announcement System linked to the emergency alarm system; and

4.2.1.13.2.1.6 Provision to be made for adequate lighting for the entire depot precinct that allows for day and night working and proper functioning of the CCTV cameras.

4.2.1.13.2.2 A signing on and off system must be installed for Section Managers, Train Drivers and Metro Guards as well as Yard Personnel (i.e. Yard Masters, Yard Foremen and Yard Officials) in the new office building. (See picture 4.1.9.15.2.2);



Picture 4.1.9.15.2.2

4.2.1.13.3 Cameras and Facility Monitoring

4.2.1.13.3.1 CCTV cameras will operate during day and night and the turnkey contractor to ensure that the lighting supplied and installed supports the CCTV monitoring. Strategic cameras placed at all building/shed entrances should have a pan, tilt and zoom function with clear face recognition features;

4.2.1.13.3.2 Overhead cameras to be used;

4.2.1.13.3.3 Cameras and lights along the perimeter fence will be supplied and installed by another project separate to this project/ tender but the cameras must be linked to the new control room that will be built in the New Office Building by the appointed turnkey supplier;

4.2.1.13.3.4 Cameras and lights to be fitted across the precinct, inside and outside the maintenance sheds (old and new), inside and outside buildings and across the entire new and existing yards. A mix of fixed cameras and PTZ's with clear face recognition features may be utilised. The CCTV equipment installed must comply with electromagnetic compatibility specifications for the rolling stock environment;

4.2.1.13.3.5 Patrolling recording devices or a guard monitoring system must be installed on the perimeter wall;

4.2.1.13.3.6 At these guard monitoring points, install a speed dial/microphone to the PA system/communication device that can be used to contact the depot control room in case of an emergency;

4.2.1.13.3.7 Procure three (3) T3 or 3 wheeled bikes for security to patrol the depot/react to incidents;

4.2.1.13.3.8 The entire depot camera monitoring system should have redundancy built in in case of cable damage/fault in one area;

4.2.1.13.3.9 Footage must be recorded and kept for at least thirty days. Older recordings should be archived;

4.2.1.13.3.10 Remote and real time access by managers (on cell phone or laptop) to view certain cameras must be considered;

4.2.1.13.3.11 Provide adequate recorders, screens and equipment racks in the control room;

4.2.1.13.3.12 Provide a system and equipment that has the capability to link with main control room in Cape Town Station (ICT) or Windermere or Bellville when PRASA is ready for the link. PRASA is using the Babylon system as its communication backbone and the systems and equipment provided must be compatible with the Babylon system. Compatibility with the Babylon system must be proven; and

4.2.1.13.3.13 Product, operational and maintenance manuals needs to be compiled for training purposes. All training to be provided to security personnel and maintenance teams as well as to the Security Trainers. PRASA to be certified to train others on the systems that have been installed.

4.2.1.13.4 Main Entrance Facilities

4.2.1.13.4.1 Design and construct new entrance security building at the main entrance of the depot for employees/visitors including all required services (power, water reticulation, ICT, Wi-Fi, infrastructure, sewer, and all required service connections);

4.2.1.13.4.2 The security buildings at the entrance/s must accommodate the following facilities:

4.2.1.13.4.2.1 A cabinet with a counter top and four chairs for employees;

4.2.1.13.4.2.2 Air conditioning;

4.2.1.13.4.2.3 LAN connection;

4.2.1.13.4.2.4 Connected to and with the PA system at the depot. Microphone to be provided in this facility;

4.2.1.13.4.2.5 An ablution facility for males and females containing toilet, washbasin, shower and change room with built in lockers and built in benches;

4.2.1.13.4.2.6 A toilet and wash basin for visitors;

4.2.1.13.4.2.7 A water cooler in the visitor area;

4.2.1.13.4.2.8 A kitchenette facility with a washbasin, water hydro boil, bar fridge, paper towel dispenser and microwave oven with a table and two chairs;

4.2.1.13.4.2.9 A waiting facility to accommodate eight (8) chairs for visitors;

4.2.1.13.4.2.10 Search room to be provided for males and females;

4.2.1.13.4.2.11 Turnstiles whereby pedestrians (visitors/employees) will enter or exit the depot/parking facility with a palm reader on both sides of the turnstiles;

4.2.1.13.4.2.12 A telephone must be installed that is linked to the admin office reception, control room and emergency services only;

4.2.1.13.4.2.13 The roof structure of the security building must accommodate both the entrance- and exit roads and must be high enough to accommodate delivery vehicles. The roof structure must be wide and long enough for security personnel to search vehicles without getting wet when it rains;

4.2.1.13.4.2.14 Separate sliding gates for staff and visitor vehicles with access controlled by palm readers or remote controlled by the security guards;

4.2.1.13.4.2.15 The sliding gates should not be see through;

4.2.1.13.4.2.16 A sensor with buzzer in the facility that will alert guards when movement is detected at the entrance approach;

4.2.1.13.4.2.17 Security cameras must be installed/repositioned at the entrance/s to display any movement within a fifty (50) meter radius inside and outside these gates;

4.2.1.13.4.2.18 A camera monitor must be installed inside the entrance building where the security personnel can view any movement at the gates and approaches;

4.2.1.13.4.2.19 Lighting needs to be installed on both sides of the security facility to support the CCTV cameras that are installed/ repositioned;

4.2.1.13.4.2.20 Panic buttons that are linked to the control room must be installed in the entrance facility and outside the facility at strategic locations;

4.2.1.13.4.2.21 All windows of the building must be bullet proof with one-way see-through glass;

4.2.1.13.4.2.22 Install depot name boards at these entrances according to PRASA standards;

4.2.1.13.4.2.23 Allow for visitor vehicles to park while registering onto the access control system; and

4.2.1.13.4.2.24 All proposed furniture for all new offices to be provided in compliance with PRASA furniture specifications. Furniture and space layout to be approved by PRASA before procurement.

4.2.1.13.5 New Entrance/Exit Security Building For Employees/Visitors:

4.2.1.13.5.1 Design and construct a new entrance security building for all employees/visitors to access the depot after parking their cars/entering the pedestrian main gate including all required services (power, water reticulation, ICT infrastructure, sewer, and all required service connections);

4.2.1.13.5.2 The building is for management of all employee/visitor movements at the depot. This security building must accommodate the following facilities:

4.2.1.13.5.2.1 An ablution facility – one (1) toilet and washbasin;

4.2.1.13.5.2.2 A kitchenette with a washbasin, water hydro boil, microwave oven, paper towel dispenser and bar fridge with one table and two chairs;

4.2.1.13.5.2.3 A cabinet with a counter top (below eye level when seated) and three (3) chairs for employees;

4.2.1.13.5.2.4 A waiting facility to accommodate eight (8) chairs for visitors;

4.2.1.13.5.2.5 A water cooler in waiting facility;

4.2.1.13.5.2.6 Turnstiles whereby employees/visitors will enter or exit the depot/parking facility;

4.2.1.13.5.2.7 Palm biometric readers will be installed on both sides of the turnstile;

4.2.1.13.5.2.8 A telephone must be installed in the security building that is linked to the control room. A panic button linked to the control must be provided;

4.2.1.13.5.2.9 A luggage scanner needs to be installed next to the turnstile;

4.2.1.13.5.2.10 All proposed furniture for all new offices to be provided in compliance with PRASA furniture specifications. Furniture and space layout to be approved by PRASA before procurement;

4.2.1.13.5.2.11 Covered walkways leading to/from the administration buildings and parking areas and entrance points must be provided;

4.2.1.13.5.2.12 Install security cameras inside the building and at the entrances and turnstiles with no blind spots; and

4.2.1.13.5.2.13 Install a safe for firearms and other items that are not allowed in the depot.

4.2.1.13.6 Yard/ Rail Entrance Guard's/ Shunter's Watchtower

4.2.1.13.6.1 Design and construct a new guards/shunter's watchtower (maximum 3m x 3m) at the two rail entrances to the depots including all required services (power, water reticulation, ICT infrastructure, sewer, and all required service connections);

4.2.1.13.6.2 Each new watchtower must be constructed inside the depot and must be a double storey (or higher) building taking into account OHTE clearance requirements. The ground level of the building must accommodate the following:

4.2.1.13.6.2.1 An ablution facility – one toilet and washbasin; and

4.2.1.13.6.2.2 A kitchenette facility consisting of a washbasin, water hydro boil, bar fridge, paper towel dispenser and a microwave oven with one table and two chairs.

4.2.1.13.6.3 The upper level must accommodate the following:

4.2.1.13.6.3.1 Glass windows all around to allow for 360-degree visibility. All windows must be bullet proof with one-way see-through glass. Window openings must be installed on the top side of the window;

4.2.1.13.6.3.2 A telephone must be installed that is linked to the control room and emergency services. A panic button that is linked to the control room must also be installed;

4.2.1.13.6.3.3 A counter top must be installed on the inside walls and provide four (4) chairs;

4.2.1.13.6.3.4 The roof structure overhang must be extended to ward off the sun;

4.2.1.13.6.3.5 All proposed furniture for all new offices to be provided in compliance with PRASA furniture specifications. Furniture and space layout to be approved by PRASA before procurement;

4.2.1.13.6.3.6 Walkways leading to the new guard's/shunter's watchtower must be paved;

4.2.1.13.6.3.7 Install security cameras inside the upper floor watchtower area and at the entrance of the facility; and

4.2.1.13.6.3.8 The watchtower area should also have air-conditioning.

4.2.1.14 Supply and install new underfloor wheel lathe

4.2.1.14.1 In total 197 x 6 coach new EMUs will be delivered to the Western Cape region (rollout currently estimated by 2027). The appointed turnkey supplier will supply, deliver, install, test and commission a new underfloor wheel lathe and associated facilities required at Paarden Eiland.

4.2.1.14.2 A guideline specification for the underfloor wheel lathe has been provided as additional information (see documents provided as Additional Information).

4.2.1.15 Depot Support Equipment

4.2.1.15.1 The upgrade of the existing Paarden Eiland facility provides an opportunity to improve the site layout, modernise technology, and improve operational functionality and integration with the mainline operations. The upgrading of the Paarden Eiland facilities will require the following equipment / plant:

4.2.1.15.1.1.1 1 x Road Rail Shunt Vehicles (see documents provided as Additional Information) (specification attached is a minimum spec and similar RRVs will be acceptable);

4.2.1.15.1.1.2 1 x 2 ton Forklift;

4.2.1.15.1.1.3 1 x 7 ton Forklift; and

4.2.1.15.1.1.4 1 x Degreasing plant/Steam Jenny for large components (exhausters, motors, etc) linked to an oil/water separator

4.2.1.16 New Electricity/ Power Supply And Water Meters

4.2.1.16.1 The contractor is required to install separate water and electricity meters to the following buildings:

4.2.1.16.1.1 New running/lifting sheds;

4.2.1.16.1.2 Existing running sheds;

4.2.1.16.1.3 New Warehouse;

4.2.1.16.1.4 External train wash plant;

4.2.1.16.1.5 Depot vehicle entrance facility;

4.2.1.16.1.6 New Rail Entrance Guard's/Shunter's Watchtowers;

4.2.1.16.1.7 New three level office/administration building; and

4.2.1.16.1.8 New mess and ablution building.

4.2.1.17 Upgrade Depot Compressed Air System

4.2.1.17.1 The existing depot compressed air system at the depot needs to be upgraded. Design, manufacture, supply, deliver, install, test, commission and complete handover of all new plant, equipment and all materials necessary for compressed air system to deliver a constant air pressure of 10 BAR which is filtered and oil free. Contractor to make provision for servicing of existing air compressors and compressor tanks. The price must include connection of the new system to the existing system and all necessary tests and re-

commissioning. Compressed air systems (either new or refurbished or serviced) are required in the following areas:

4.2.1.17.1.1 New Maintenance sheds.

4.2.1.17.1.2 Existing Maintenance sheds.

4.2.1.17.1.3 Warehouse. and

4.2.1.17.1.4 Workshops

4.2.1.18 Information, Communications And Technology (ICT)

4.2.1.18.1 Upgrade and install all required ICT connectivity to support depot operations, including maintenance sheds, staging yards, security monitoring, office buildings and cleaning facilities. The ICT requirements are attached (see documents provided as Additional Information).

4.2.1.19 Electronic Card Repair Room

4.2.1.19.1 In the maintenance precinct redesign, provision must be made for an electronic card repair room which should be dust free, equipped with a workbench, steel shelving, appropriate cooling systems and ventilation and have 2 wall mounted power outlets, 230VAC 50Hz with UPS and lightning protection (dimensioned for 2 outlets multiple connections) and 110V DC power supply socket.

4.2.1.20 Provision Of Two (2) Containers For Office Accommodation For PRASA during construction only

4.2.1.20.1 One container to have four desks and four chairs with four lockable cabinets with air-conditioning and adequate electrical plug points and lights and windows;

4.2.1.20.2 The second container to be provided must contain a boardroom table and chairs for eight people with adequate plug points, lights, windows and air conditioner; and

4.2.1.20.3 This requirement for containers for office accommodation for PRASA during construction is over and above the provision of temporary accommodation and services when existing offices and ablutions are being refurbished.

4.2.1.21 External Train Washing Facilities

4.2.1.21.1 Paarden Eiland does have an existing external train wash plant but it has not been in use for the past few years due to vandalism and insufficient maintenance. With the new shed

being proposed alongside the existing maintenance shed, the location of the existing wash plant must be reviewed;

4.2.1.21.2 With the re-design of the Paarden Eiland layout, the position of the existing external train wash plant is to be investigated/simulated for efficiency of train movements;

4.2.1.21.3 A new external train wash plant must be built in the optimal location. The external train wash plant should be located where the majority of trains enter/leave the depot;

4.2.1.21.4 A previous specification/user requirement for an external train wash plant is attached (see documents provided as Additional Information). However, the appointed turnkey contractor to provide all services which were previously reflected as to be completed by the purchaser or PRASA. Also, the external train wash plant must not be fitted with a haulage system for existing fleet. All trains should move through the external wash plant under their own traction power;

4.2.1.21.5 Provide adequate lighting for night work;

4.2.1.21.6 Install security cameras (static and PTZ cameras) at the train wash plant;

4.2.1.21.7 Provide road access to the new/upgraded external wash plant for delivery vehicles; and

4.2.1.21.8 Provide for demolishing and removing the existing train wash plant and associated facilities.

4.2.1.22 Depot Wide Works

4.2.1.22.1 Other works will include:

4.2.1.22.1.1 All pedestrian walkways between buildings, parking and sheds should be surfaced or paved and should have covered walkways;

4.2.1.22.1.2 Landscaping across the depot especially next to new office building and mess and ablution building;

4.2.1.22.1.3 Floodlights or high mast lights must be designed and installed throughout the entire precinct (in conjunction with perimeter lighting that will be installed by another project separate to this tender/project) to ensure that lighting to a minimum level of 300-lux levels (or higher levels if required and appropriate for night time working) is provided for night time working and to ensure that all CCTV cameras operate optimally. Energy efficient LED light bulbs should be provided and high mast lighting must be hinged. The lighting system to provide for emergency lighting/UPS back up supply in the event of a power interruption at night. All maintenance tools and equipment for the high mast lights to be provided by the contractor;

4.2.1.22.1.4 Designs must include directional, safety and hazards, disclaimer, general building signs, depot and building name boards and universal access signage. All signage to be as per the PRASA Norms, Guidelines and Standards provided to all Bidders. All signage to be

installed as per designs. The depot name board at the depot entrance/s must be D1.1 pylon signs, naming double sided and illuminated;

4.2.1.22.1.5 A fire suppression agent such as FM200 or Novec 1230 or similar (that are safe for humans and equipment) shall be used in areas where electronic equipment is located, for instance in the control rooms as well as equipment rooms and server rooms. Water or powder based systems shall not be used in these areas. Where sprinkler systems are installed, ASIB certification and accredited design and installed is required. Where fire detection systems are proposed, cognisance must be taken that spurious/unwarranted alarm activations must be prevented. All fire detection, suppression and protection system installations must be signed off by a professional Fire Engineer and the Fire Chief;

4.2.1.22.1.6 All existing services inside the Paarden Eiland precinct and connecting to main municipal supplies (e.g. electrical, mechanical, power, water, sewer, drainage, access roads and earthworks, ICT, telecoms, etc.) must be upgraded/refurbished/replaced to ensure the smooth operation of the depot; and

4.2.1.22.1.7 All external doors and windows shall not allow the ingress and ponding of water (either rain/high pressure cleaning) into any building or work area.

4.2.1.23 General Requirements

4.2.1.23.1 Implementation of Sustainable Building Principles (Green Building) - Regardless of whether the buildings are to be certified or not, care must be taken during the preliminary and detailed design stage to address the environmental and climatic conditions prevalent in Cape Town, in order to reduce the energy and water use and reduce the long-term running and maintenance costs of the facilities to be built/upgraded. The new and upgraded facilities should include water conservation and harvesting, increased use of natural light, solar and/or wind electricity generation equipment as well as electricity saving techniques and equipment where possible. Back up electrical and water provision is a requirement for the precinct.

4.2.1.23.2 Warranty

4.2.1.23.2.1 New equipment and systems installations should have a minimum one (1) year warranty effective from final handover;

4.2.1.23.2.2 The warranty requirements for all new equipment and system installations must be part of the information provided to PRASA at design stage.

4.2.1.23.3 Contractor/consultant participation

4.2.1.23.3.1 The contractor and consultants are to participate in project review meetings every second week;

4.2.1.23.3.2 The contractor and consultants are to participate in design reviews that may be scheduled to facilitate the design of the facilities to be delivered;

4.2.1.23.3.3 The contractor is to develop and maintain (i.e. keep up to date) a schedule for the design, installation and commissioning of all deliverables;

4.2.1.23.3.4 Should the contractor elect to subcontract the construction or supply of certain parts of the deliverables, the tendered price will be inclusive of all required procurement costs regardless of whether repeat procurement processes are required;

4.2.1.23.3.5 The contractor is to provide PRASA with design and construction progress reports on a monthly basis;

4.2.1.23.3.6 All details and requirements stated in the technical specifications are minimum requirements and it is the contractor's responsibility to ensure all proposed designs must meet the requirements of a fully functional and compliant depot;

4.2.1.23.3.7 The turnkey contractor is to ensure that depot operations are in no way affected by construction activities at the site. PRASA's operational requirements at the existing depot facilities will take priority over construction works. For refurbished buildings/extensions, the contractor is to note that sections of buildings will be handed over to the contractor at a time to ensure continuity of maintenance and administrative operations;

4.2.1.23.3.8 The turnkey contractor should make adequate provision for working at night when there are less staff and operations at the depot for certain activities. When working at night, the contractor should be mindful of any residential properties neighbouring the depot and make provision for equipment and machinery that is not too noisy;

4.2.1.23.3.9 Access to the depot and all buildings (for trains, cars, emergency vehicles and pedestrians) should be available at all times. Access to any of the buildings and sheds should also be maintained at all times;

4.2.1.23.3.10 If the contractor is working on parking areas or roads, there must be a temporary or alternative parking or roads identified for the construction period; and

4.2.1.23.3.11 Should there be any disruption of any services to the depot during construction by the contractor; the break in service should be repaired within five (5) hours. Failure to do so will attract a penalty of R10, 000.00 per day that the service is unavailable and this penalty will be deducted in the next invoice.

4.2.1.23.4 Construction Related Security

4.2.1.23.4.1 All security companies used by the Contractor shall be PSIRA registered with a valid letter of good standing.

4.2.1.23.4.2 Security personnel used by the Contractor or its sub-contractors shall all be PSIRA registered with a clear criminal record and no criminal pending cases.

4.2.1.23.4.3 All security officials utilised on this project shall be South African Citizens.

4.2.1.23.4.4 The security to be provided by the contractor shall be responsible for safeguarding both the appointed contractor's and PRASA's assets on site until the site is handed over to PRASA. A list of all functioning equipment that do not form part of this scope of work will be shared with the successful bidder and shall be signed off by both the successful bidder and PRASA's representative.

4.2.1.23.4.5 The contractor's security plan will have to be approved and signed off by a PRASA Security Representative before any construction works commences.

4.2.1.23.4.6 The boundary limits for the Paarden Eiland depot and yard will include all assets contained within the concrete perimeter walling at Paarden Eiland rolling stock depot and yard.

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

4.2.1.23.4.8 Furthermore it is the contractor's responsibility to ensure that valuable metal i.e. copper is adequately protected while in transit to and from site.

4.2.1.23.4.9 The contractor shall make sure that all material removed from site is quantified, counted, logged in the site diary and that it is co-signed by PRASA representative on site before it is removed from site.

4.2.1.23.4.10 Demolished equipment and scrap metal to be returned to PRASA shall be adequately protected until it is delivered to an identified PRASA site.

4.2.1.23.4.11 PRASA reserves the right to conduct ad-hoc inspections to ensure Compliance.

4.2.1.23.5 Care of the Works

4.2.1.23.5.1 From the date on which the Site is handed over to the Contractor to the date of the issue of a Certificate of Completion, the Contractor shall take full responsibility for the care of the Works and the Employer's Assets on the Site and of all Plant intended for incorporation into the Works and materials on the Site intended for incorporation into the Works.

4.3 INSURANCE REQUIREMENTS FOR THE PROJECT

4.3.1 PRASA

PRASA, as the Employer/Principle, can take out the following insurances:

- Contract Works – insured at full value of the contract including free issue material (for the period of the contract followed by the defects liability period);
- SASRIA Cover;
- Removal of Lateral Support – if there is lateral support risk exposure;
- Third Party Liability;
- Professional Indemnity (PI) cover – If additional required; and
- Marine cover – should there be marine risks exposures.

4.3.2 CONTRACTOR

The Contractor should take out his own insurance to cover the following:

- Contractors Plant & Equipment;
- Workman's Compensation;
- Professional Indemnity (PI) Cover; and
- And any other insurance they deem necessary but not insured by the Employer.

4.4 TARGETED AREA BY THIS PROJECT

Existing PRASA maintenance depot and staging yard at Paarden Eiland

4.5 EXTENT AND COVERAGE OF THE PROPOSED PROJECT

The project will cover the following areas:

- Paarden Eiland PRASA maintenance depot facilities and equipment;
- Parden Eiland PRASA staging yard;
- Paarden Eiland road entrance and main entrance gate; and
- Paarden Eiland security and access facilities.

4.6 MEASUREMENTS AND PAYMENT

- Payments will only be made against completed physical/verifiable milestones as per the appointed turnkey contractor's schedule of works, payment schedule and proposal;
- The PRASA Project Manager will certify payments to the appointed turnkey contractor; and
- Where variations may become applicable, the contractor must demonstrate market related rates and full breakdowns of all costs that will be incurred and time extensions required must be priced.

4.7 FORM OF CONTRACT

- FIDIC Silver Book will be used as form of contract; and
- Contract amendments proposed by PRASA to the FIDIC Silver Book are included as Annexure 2 of the RFP.

4.8 OTHER RELATED PROJECTS

- Recovery of the Central Line;
- Rolling Stock Fleet Renewal Programme;
- Upgrade of the Mess and Ablution Facilities by PRASA CRES;
- Resignalling project by PRASA Corporate;
- Transformer Upgrade project by PRASA Technical;
- Depot Fencing and Security project by PRASA Technical; and
- Preparation of existing Paarden Eiland depot by PRASA Cres for first batch of new train sets.
- Salt River Depot Modernisation Project by PRASA Technical (at detailed design stage)

5 SPECIFICATION OF THE WORK OR PRODUCTS OR SERVICES REQUIRED

5.1 PROFESSIONAL TECHNICAL STAFF REQUIREMENTS

The appointed company will be required to provide a qualified professional team and experienced professional staff with the following key expertise.

- Project Manager / Team Leader;
- Architectural Services;
- Quantity Surveying Services;
- Civil Services;
- Structural Services;
- Mechanical Services (Both domestic services and lifting equipment);
- Electrical (Low voltage/domestic supply);
- Electronic Services;
- Perway Services;
- OHTE (high voltage) Services;
- Rail signalling Services;
- Fire Services;
- ICT Services;

- Risk Management Services;
- Telecoms Services;
- Industrial Engineering Services;
- Environmental Services;
- Town Planning Services;
- Community Relation Management Services;
- Construction Management Services;
- Construction Health and Safety Services;
- Interns/Learnerships/Provision of training opportunities to be provided for the duration of the contract, i.e. Architectural, Construction Management, Quantity Surveying, Civil, Structural, Mechanical (Lifting and Domestic services), Electrical (low voltage/domestic), Electrical (OHTE/high voltage) and Perway. Eighty percent (80%) of the interns/learners/students should be from previously disadvantaged groups and at least 50% should be female. PRASA requires that the turnkey contractor/consultants hires 2 interns per discipline. The interns/trainees should be South African citizens, either qualified or requiring experiential training to fulfil their qualification requirements (e.g. P1, P2 or vacation work).

The turnkey contractor is required to provide all services as listed in 4.1.5 above for the duration of the contract.

Details of the minimum qualification and professional registration requirements for the key professional staff listed above are outlined below. **These minimum qualification and professional registration requirements will be used for compliance evaluation purposes.** No duplication of Professional Technical Staff will be permitted. Copies of the professional registration and qualification certificates for all Professional Technical Staff must be submitted with the Bid. These copies do not have to be certified. If the required copies of professional registration and qualification certificates are not included with the Bid, your Bid will be immediately disqualified.

Furthermore, the number of years of experience required for the key professional staff listed above are outlined in the section that follows. CVs must be submitted for each key professional staff member as part of the bidder's proposal. The submitted CV's will be used for technical functionality evaluation after a bidder has met the mandatory compliance evaluation requirements.

Qualifications, Professional Registration and Experience requirements of key staff (professional staff) in relation to the scope of work – Professionals Services:

5.1.1 PROJECT MANAGER/ TEAM LEADER

The desired minimum qualifications for the Project Manager / Team Leader are as follows:

- BSc/ B-Tech Degree qualification in Civil Engineering;
- ECSA registration as a Professional Engineer (Pr Eng)/ Technologist (Pr Tech Eng);
- Ten (10) years of post-graduation experience;
- Five (5) of the experience should be in the Project Management environment in a similar projects disciplines including leading multidisciplinary teams; and
- Registration as a Professional Construction Project Manager (Pr. CPM) with the South African Council for the Project and Construction Management Professions (SACPCMP) with a minimum of five (5) years' relevant post-certification practical experience.

5.1.2 ELECTRICAL ENGINEER (DOMESTIC SUPPLY/ LOW VOLTAGE)

The desired minimum qualifications for the Electrical Engineer are as follows:

- BSc/B-Tech Degree in Electrical Engineering.
- ECSA registration as a Professional Engineer (Pr Eng)/ Technologist (Pr Tech Eng)
- Ten (10) years post graduating experience;
- Five (5) of the ten (10) years should be in domestic/low voltage design experience including Construction Management, post professional registration (Pr Eng/ Pr Tech Eng)

5.1.3 ELECTRICAL ENGINEER (OHTE/ HEAVY VOLTAGE)

The desired minimum qualifications for the Electrical Engineer are as follows:

- BSc/B-Tech Degree in Electrical Engineering.
- ECSA registration as a Professional Engineer (Pr Eng)/ Technologist (Pr Tech Eng)
- Ten (10) years post graduating experience;
  Five (5) of the ten (10) years should be in Substation and Transmission Line design experience including Construction Management, post professional registration (Pr Eng/ Pr Tech Eng)

5.1.4 MECHANICAL ENGINEER (BOTH DOMESTIC SERVICES AND LIFTING EQUIPMENT)

The desired minimum qualifications for the Mechanical Engineer are as follows:

- BSc/B-Tech Degree in Mechanical Engineering.
- ECSA registration as a Professional Engineer (Pr Eng)/ Technologist (Pr Tech Eng)
- Ten (10) years post graduating experience.

- Five (5) of the ten (10) years should be in mechanical design experience including Construction Management, post professional registration (Pr Eng/ Pr Tech Eng).

5.1.5 CIVIL ENGINEER (CIVIL AND STRUCTURAL)

The desired minimum qualifications for the Civil and Structural Engineer/s are as follows:

- BSc/B-Tech Degree in Civil Engineering.
- ECSA registration as a Professional Engineer (Pr Eng)/ Technologist (Pr Tech Eng)
- Ten (10) years post graduating experience.
- Five (5) of the ten (10) years should be in civil, structural and industrial/office building design including Construction Management experience, post professional registration (Pr Eng/ Pr Tech Eng).

5.1.6 CIVIL ENGINEER (PERMANENT WAY)

The desired minimum qualifications for the Civil Engineer (Perway) are as follows:

- BSc/B-Tech Degree in Civil Engineering;
- ECSA registration as a Professional Engineer (Pr Eng)/ Technologist (Pr Tech Eng);
- Ten (10) years post graduating experience; and
- Five (5) of the ten (10) years should be in permanent way design including construction management experience, post professional registration (Pr Eng/ Pr Tech Eng).

5.1.7 RAIL SIGNALLING ENGINEER

The desired minimum qualifications for the Signal Engineer are as follows:

- BSc/B-Tech Degree in Electrical/ Electronic Engineering (specialising in rail signalling);
- ECSA registration as a Professional Engineer (Pr Eng)/ Technologist (Pr Tech Eng);
- Ten (10) years post graduating experience; and
- Five (5) of the ten (10) years should be in rail signalling design and Implementation Management experience, post professional registration (Pr Eng/ Pr Tech Eng).

5.1.8 TELECOMMUNICATIONS AND/OR ICT ENGINEER

The desired minimum qualifications for the Telecommunication/ICT Engineer/s are as follows:

- BSc/B-Tech Degree in Electrical/Electronic Engineering (specialising in Telecommunications and ICT);
- ECSA registration as a Professional Engineer (Pr Eng)/ Technologist (Pr Tech Eng);
- Ten (10) years post graduating experience; and

- Five (5) of the ten (10) years should be in Telecommunications and ICT Design and implementation experience, post professional registration (Pr Eng/ Pr Tech Eng).

5.1.9 INDUSTRIAL ENGINEER

The desired minimum qualifications for the Industrial Engineer are as follows:

- BSc/B-Tech Degree in Industrial Engineering;
- ECSA registration as a Professional Engineer (Pr Eng)/ Technologist (Pr Tech Eng);
- Ten (10) years post graduating experience; and
- Five (5) of the ten (10) years should be in planning and implementing production environment layouts experience, post professional registration (Pr Eng/ Pr Tech Eng).

5.1.10 ELECTRONIC ENGINEER

The desired minimum qualifications for the Electronic Engineer are as follows:

- BSc/B-Tech Degree in Electrical/Electronic Engineering;
- ECSA registration as a Professional Engineer (Pr Eng)/ Technologist (Pr Tech Eng);
- Ten (10) years post graduating experience; and
- Five (5) of the ten (10) years should be in planning and implementing electronics systems in production environments experience, post professional registration (Pr Eng/ Pr Tech Eng).

5.1.11 ARCHITECT

The desired minimum qualifications for the Architect are as follows:

- B-Tech / Bachelor's degree in architectural studies.
- The South African Council for the Architectural Profession (SACAP) registration as a Professional Architect (PrArch) or a Professional Senior Architectural Technologist (PSAT);
- Ten (10) years post graduating experience; and
- Five (5) of the ten (10) years should be in Architectural Design and Construction Management experience, post professional registration.

5.1.12 QUANTITY SURVEYOR

The desired minimum qualifications for the Quantity Surveyor are as follows:

- Bachelor Degree/ B-Tech in Quantity Surveyor;
- SACQSP registration as a Quantity Surveying Professional (PrQS);
- Ten (10) years post graduating experience; and

- Five (5) of the five (10) years should be in planning and monitoring construction projects, post professional registration.

5.1.13 TOWN PLANNING MANAGER

The desired minimum qualifications for the Town Planning Manager are as follows:

- Bachelors Degree (B-Tech, BSC) in Town Planning;
- SACPLAN registration as a Professional Town Planner;
- Ten (10) years post graduating experience; and
- Five (5) years' experience as a Town Planning Manager in similar or related projects, post professional registration.

Qualifications, Professional Registration and Experience requirements of key staff (assigned site personnel) in relation to the scope of work - Construction Works:

5.1.14 PROFESSIONAL CONSTRUCTION MANAGER (Pr CM)

The desired minimum qualifications for the Construction Manager are as follows:

- National Diploma/ BSc / B-Tech (Building, Construction Management, Civil Engineering, Electrical Engineering, Mechanical Engineering, Quantity Surveying and Architectural); and
- Registration as a Professional Construction Manager (Pr. CM) with the South African Council for the Project and Construction Management Professions (SACPCMP)
- Minimum of five (5) years' relevant post-certification practical experience.

5.1.15 CONSTRUCTION HEALTH AND SAFETY MANAGER (CHSM)

The desired minimum qualifications for the Construction Health and Safety Manager (CHSM) are as follows:

- National Diploma/ B-Tech in Safety Management
- Registration with the South African Council for the Project and Construction Management Professions (SACPCMP) as professional construction health and safety Manager
- Minimum of five (5) years industry experience, post Professional Construction Health and Safety Manager (CHSM) registration.

5.1.16 CONSTRUCTION HEALTH AND SAFETY OFFICER (CHSO)

The desired minimum qualifications for the Construction Health and Safety Officer are as follows:

- National Diploma/ B-Tech in Safety Management

- Registration with the South African Council for the Project and Construction Management Professions (SACPCMP) as professional construction health and safety officer
- Minimum of five (5) years industry experience, post Professional Construction Health and Safety Officer (CHSO) registration.

5.1.17 ENVIRONMENTAL CONTROL OFFICER (ECO)

The desired minimum qualifications for the Environmental Control Officer are as outlined below:

- Diploma/ B- degree in Environmental Management/ Natural Science or a related discipline; and
- Minimum five (5) years' relevant experience in managing environmental control for similar or related projects.

5.1.18 COMMUNITY LIAISON MANAGER

The desired minimum experience for the Community Liaison Manager are as follows:

- Matric certificate/ Grade 12 Certificate; and
- Minimum five (5) years' experience as a Liaison Manager in similar or related projects.

5.2 TECHNICAL INFORMATION TO BE PROVIDED WITH TENDER

The Bidders shall submit a detailed priced proposal with the following information at the time of tendering:

- Detailed Design & Construction Method Statement clearly identifying all design and construction activities that the contractor will undertake and the method that the contractor will use to undertake the activities. The Method Statement provided must
    - Be aligned to the scope of work of this project
    - Include design phase methodology and reviews
    - Include construction phase activities and methodology of completing works
    - Highlight the risks and mitigation measures associated with working within the Rail environment
    - Must cover the critical issues that the contractor will experience during construction for example (but not limited to)
        - Identification and protection/diversion of underground services
        - Access to the work sites over the tracks while the existing depot operations continue
        - How the contractor plans to barricade the new works from the existing depot and train operations

- How the contractor will control dust during construction
- How the contractor will ensure that the stability of existing depot structure is monitored and remains safe while doing deep excavations alongside the existing depot structure
- Whether and in what sections the contractor will require PRASA to switch off the OHTE
- How the contractor recommends completing the work in stages to allow PRASA to continue maintenance operations as per Clause 4.1.2.2

- Detailed health, safety and environmental plan that is customized for working in a railway environment showing that the bidder has taken note of the PRASA Technical SHE Specification and SPK7/1 which are included as Annexure 3 and 4 of the RFP;
- Detailed quality management plan clearly stating all the quality management processes and procedures that the contractor will follow in delivering the scope of work to PRASA including tests to be completed during construction and on completion/commissioning and pass/fail parameters for all tests to be completed;
- Project schedule in MS Project (or similar) format clearly covering the following key milestones:
  - Studies to be completed
  - Design Development timelines including reviews by PRASA and RSR;
  - Environmental Authorisation
  - Submission to Municipality and obtain Approval of Site Development Plan and Building Plans;
  - Site establishment;
  - Works commencement;
  - Ordering of equipment/ materials;
  - Equipment installations;
  - Works completion with breakdown of sections of work to be completed in order to allow PRASA maintenance to continue;
  - Snag close out;
  - Practical completion – Phase 1;
  - Practical completion – Phase 2;
  - Provision of close out documentation;
  - Final Works Completion;
  - Warranty and defects notification periods
  - The overall schedule should clearly indicate sequencing of activities with clear understanding of scope and include the critical path.
- A conceptual design and brief report showing the following (including but not limited to):
  - Existing buildings;
  - New running/ lifting shed with approximate measurements;

- Proposed location of train wash plant with approximate measurements;
- Location of new office and mess & ablution buildings with approximate measurements;
- Location of new warehouse/s with approximate measurements;
- Location of new parking with approximate measurements;
- Proposed security buildings with approximate measurements;
- Proposed access roads and walkways;
- Proposed track layouts (existing and new staging yards included); and
- Rail entrance watchtowers with approximate measurements.

6 TECHNICAL SPECIFICATIONS OF THE WORK

The design for this project shall meet technical capabilities & performance requirements for all specifications and standards approved and adopted by PRASA. Each discipline is to ensure that the latest specifications are used in completing designs and in construction works. A detailed list of the technical specifications is as follows (not limited to):

6.1 *SANS 3000 - Railway Safety Management;*

6.2 *SANS 0400 - Application of the National Building Regulations;*

6.3 *SANS 10142-1 - Code of Practice for the Wiring of Premises – Part 1;*

6.4 *SANS 1200A - Standardised Specification for Civil Engineering Construction, Section A: General;*

6.5 *SANS 2100C - Standardised Specification for Civil Engineering Construction, Section C: Site Clearance;*

6.6 *SANS 2100D - Standardised Specification for Civil Engineering Construction, Section D: Earthworks;*

6.7 *BBB.8205 - High Voltage Supply Transformers in Accordance with IEC 60076 and BS 171;*

6.8 *BBC.0198 - Requirements for the Supply of Cables;*

6.9 *BBB.1616 - 450 Volt Gas Arrester Type Spark Gap for Traction Supplies;*

6.10 *CEE.0023 - Specification for the Installation of Cables;*

6.11 *CEE.0088 - Specification for the Installation of Electrical Equipment in Indoor Substation;*

6.12 *CEE.0045 - Painting of Steel Components of Electrical Equipment;*

6.13 *CEE.0224 - Drawings, Catalogues, Instruction Manuals and Spares Lists for Electrical Equipment Supplied under Contract;*

6.14 *CEE-T-T6E-006 - Specification for 3 kV DC Electrification Overhead Track Equipment;*

6.15 *CEE.0128 - Maintenance of 3 kV DC Electrification;*

6.16 *CEE.0183 - Specification for Hot Dip Galvanising and Painting of Electrification Steelwork;*

6.17 *CEE.0200 - 11 kV, Outdoor, Three Phase, Air Break Isolating Switch;*

6.18 *CEE.0017 - Provision of Foundations for Electrification Masts;*

6.19 *CEE-PA-0019 - Symbols for Electrical Installations;*

6.20 *SPK7/1 - Specification for Works On, Over, Under, or Adjacent to Railway Lines and Near High Voltage Equipment;*

6.21 *E4E - Safety Arrangements and Procedural Compliance with the Occupational Health and Safety Act, 1993 (Act 85 of 1993) including applicable regulations;*

6.22 CEE-GL-018 Version 2 – Inspection and handing over of Electrical Equipment;

6.23 CEE-GI-065 Version 3 – Procedure for Energizing / De-energising of High Voltage Electrical Equipment;

6.24 D224EB – Standard Specification for the cabling of High Voltage Substation;

6.25 BBB0937 Version 4 - Requirements for outdoor post type current transformers for traction and distribution substations;

6.26 CEE.0045 Version 2002/1 - Painting of steel components of electrical equipment;

6.27 CEE.0183 Version 2 - Hot dip galvanizing and painting of electrification steelwork;

6.28 D220EB - General standard specifications applicable to high voltage substations;

6.29 NRS 029 - Current transformers;

6.30 NRS 030 - Voltage transformers;

6.31 IEC 61545 - Connecting devices - Devices for the connection of aluminium conductors in clamping units of any material and copper conductors in aluminium bodied clamping units;

6.32 SANS 32 – Version Internal and/or external protective coatings for steel tubes - Specification for hot dip galvanized coatings applied in automatic plants;

6.33 SANS 1019 - Standard voltages, currents and insulation levels for electricity supply;

6.34 SANS 1186-1 - Symbolic safety signs – Part 1: Standard signs and general requirements;

6.35 SANS 1195 – Busbars;

6.36 SANS 10139 – Fire detection and alarm systems for buildings – System design, installation and servicing

6.37 SANS 10142 - The wiring of premises (all Parts);

6.38 SANS 10162 - The structural use of steel;

6.39 SANS 10199 - The design and installation of earth electrodes;

6.40 SANS 10280 - Overhead power lines for conditions prevailing in South Africa;

6.41 SANS 10280-1 - Overhead power lines for conditions prevailing in South Africa – Part 1: Safety;

6.42 SANS 50025 - Hot rolled products of structural steels;

6.43 SANS 51706 - Aluminium and aluminium alloys - Castings - Chemical composition and mechanical properties;

6.44 *SANS / IEC 60044-1 - Instrument transformers – Part 1: Current transformers;*

6.45 *SANS / IEC 60044-2 - Instrument transformers – Part 2: Voltage transformers;*

6.46 *SANS / IEC 60137 - Insulated bushings for alternating voltages above 1 000 V*

6.47 *SANS / IEC 60273 - Characteristics of indoor and outdoor post insulators for systems with nominal voltages greater than 1 000 V;*

6.48 *SANS / IEC 60383 - Insulators for overhead lines with a nominal voltage above 1000 V;*

6.49 *SANS / IEC 60720 - Characteristics of line post insulators;*

6.50 *SANS / IEC 60815 - Selection and dimensioning of high-voltage insulators intended for use in polluted conditions (all Parts);*

6.51 *SANS / IEC 62271-1 - High-voltage switchgear and control gear – Part 1: Common specifications;*

6.52 *SANS / IEC 62271-100 - High-voltage switchgear and control gear – Part 101: Alternating current circuit breakers;*

6.53 *SANS / IEC 62271-1:102 - High-voltage switchgear and control gear – Part 102: Alternating current disconnectors and earthing switches;*

6.54 *SANS / IEC 62271-1:103 - High-voltage switchgear and control gear – Part 103: Switches for rated voltages above 1 kV up to and including 52 kV;*

6.55 *SANS / IEC 62273 - Characteristics of indoor and outdoor post insulators for systems with nominal voltages greater than 1 000 V;*

6.56 *SANS / IEEE 725 / 80 - IEEE guide for safety in AC substation grounding;*

6.57 *SANS 474 – South African Code of Practice for Electricity Metering.*

6.58 *Perway Design / Construction Standards*

6.59 *Station Norms, Guidelines and Standards*

7 TIME FRAMES / PROGRAM

The total contract period for the implementation of this proposed project is 29 months with a programme that consists of the following activities:

Activity	**Contract period (Months)**
Phase 1a - Designs	5
Environmental Authorisation (not the responsibility of the supplier)	6

Phase 1b – Construction of critical infrastructure	6
Phase 2 – Completion of all construction of full scope of works	12
Total contract period	**29**

The bidders are to bid based on the shortest realistic time frame for the completion of this project. If the timelines as requested cannot be met, this must be clearly stated with reasons in bid documents.

8 EVALUATION METHODOLOGY

The evaluation of the Bids by the evaluation committees will be conducted at various levels.

The following levels will be applied in the evaluation:

LEVEL	DESCRIPTION
Verify completeness	The Bid is checked for completeness and whether all required documentation, certificates; verify completeness warranties and other Bid requirements and formalities have been complied with. Incomplete Bids will be disqualified.
Verify compliance	The Bids are checked to verify that the essential RFP requirements have been met. Non-compliant Bids will be disqualified.
Detailed Evaluation of Technical	Detailed analysis of Bids to determine whether the Bidder is capable of delivering the Project in terms of business and technical requirements. The minimum threshold for technical evaluation is [80%], any bidder who fails to meet the minimum requirement will be disqualified and not proceed with the evaluation of Price and Specific Goals.
Specific Goals	Evaluate Specific Goals
Price Evaluation	Bidders will be evaluated on price offered.
Scoring	Scoring of Bids using the Evaluation Criteria.
Recommendation	Report formulation and recommendation of Preferred and Reserved Bidders
Best and Final Offer	PRASA may go into the Best and Final Offer process in the instance where no bid meets the requirements of the RFP and/or the Bids are to close in terms of points awarded.

LEVEL	DESCRIPTION
Approval	Approval and notification of the final Bidder.

8.1 EVALUATION CRITERIA

Interested bidders for this project shall be evaluated in terms of their business credentials, financial standing, empowerment, technical capacity and experience. The evaluation committee shall use the following Evaluation Criteria depicted in

EVALUATION CRITERIA	WEIGHTING
Stage 1	**Compliance**
Stage 1A - Mandatory Requirements	
Stage 1B – Other Mandatory Requirements	
Stage 2	**Technical/Functionality**
Technical/Functional Requirements	Threshold of 70%
Stage 3	**Price and Specific Goals**
Price	90
Specific Goals	10
TOTAL	**100**

Table 8.1 below for the selection of the preferred bidder that shall render professional services and execute construction work for the project.

EVALUATION CRITERIA	WEIGHTING
Stage 1	**Compliance**
Stage 1A - Mandatory Requirements	
Stage 1B – Other Mandatory Requirements	
Stage 2	**Technical/Functionality**
Technical/Functional Requirements	Threshold of 70%
Stage 3	**Price and Specific Goals**
Price	90
Specific Goals	10
TOTAL	**100**

Table 8.1: Evaluation criteria for the selection of a potential bidder

The details of the stages outlined in

EVALUATION CRITERIA	WEIGHTING
Stage 1	**Compliance**
Stage 1A - Mandatory Requirements	
Stage 1B – Other Mandatory Requirements	
Stage 2	**Technical/Functionality**
Technical/Functional Requirements	Threshold of 70%
Stage 3	**Price and Specific Goals**
Price	90
Specific Goals	10
TOTAL	**100**

Table 8.1 above are presented in the following sections below.

8.1.1. STAGE 1: COMPLIANCE REQUIREMENTS

Bidders must comply with the following requirements and failure to comply will lead to immediate disqualification**.**

8.1.1.1. Stage 1A- Mandatory Requirements

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

No.	Description of requirement	
a)	Completion of ALL RFP documentation including all declarations	
b)	Briefing Session Form D. Bidders must also reflect on the Compulsory Briefing Session Attendance Register	
c)	Signed Joint Venture, Consortium Agreement or Partnering Agreement (whichever is applicable)	
d)	The National Industrial Participation Programme Form (SBD5) must be completed and duly signed.	

No.	Description of requirement	
e)	Copies of the professional registration and qualification certificates for all key Professional Technical Staff listed in section 5 must be submitted with the Bid. No duplication of Professional Technical Staff will be permitted. These copies do not have to be certified. If the required copies of professional registration and qualification certificates are not included with the Bid, your Bid will be immediately disqualified. The recognition of foreign qualifications not issued in English must be done in terms of the South African Qualification Authority (SAQA). The statutory bodies in South Africa are as follows: 1. The Engineering Council of South Africa (ECSA) is the statutory body for engineering profession in South Africa; 2. The South African Council for the Project and Construction Management Professions (SACPCMP) is a juristic person established by Section 2 of the Project and Construction Management Professions Act (Act No.48 of 2000); 3. The South African Council for the Architectural Profession (SACAP) is a professional organisation for the architectural community in South Africa; and 4. The South African Council for the Quantity Survey Profession (SACQSP) Act 2000 (Act No.49 of 2000); and 5. South African Council For Planners (SACPLAN) is a professional organization for the Planners in South in terms of the Planning Profession Act, 2002 (Act 36 of 2002). Professional registration of key personnel: **Professional Team:** 1. Project Manager with SACPCMP (Pr CPM) and ECSA (Pr Eng/ Pr Tech Eng); 2. Electrical Engineer (OHTE) with ECSA (Pr Eng/ Pr Tech Eng); 3. Electrical Engineer (Domestic Supply) with ECSA (Pr Eng/ Pr Tech Eng); 4. Mechanical Design Engineer with ECSA (Pr Eng/ Pr Tech Eng);	

No.	Description of requirement	
	5. Civil Engineer (Civils &Structural) Engineer with ECSA (Pr Eng/ Pr Tech Eng); 6. Civil Engineer (Permanent Way) with ECSA (Pr Eng/ Pr Tech Eng); 7. Rail Signalling Engineer with ECSA (Pr Eng/ Pr Tech Eng); 8. Telecommunications / ICT Engineer with ECSA (Pr Eng/ Pr Tech Eng); 9. Industrial Engineer with ECSA (Pr Eng/ Pr Tech Eng); 10. Electronic Engineer with ECSA (Pr Eng/ Pr Tech Eng); 11. Quantity Surveyor with SACQSP(PrQS); 12. Architect with SACAP (PrArch/ PSAT); 13. Town Planning Manager with SACPLAN (Professional Planner). **Construction Works Team:** 1. Construction Manager (Pr.CM) with SACPCMP; 2. Construction Health and Safety Manager (CHSM) with SACPCMP; and 3. Construction Health and Safety Officer (CHSO) with SACPCMP; Environmental Control Officer (ECO).	

Table 8.2: Mandatory Requirements

8.1.1.2. 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.

NO	DESCRIPTION OF REQUIREMENT	
a)	Letter of Good Standing: COID relevant to this project	
b)	Valid SARS Pin	
c)	CSD supplier registration number	
d)	Minimum contractor grading of CIDB 9CE (will be verified on the CIBD website by PRASA)	

Table 8.3: Other Mandatory Requirements

8.1.2. STAGE 2: TECHNICAL / FUNCTIONALITY REQUIREMENTS

Qualifying bidders shall then be evaluated on functionality after meeting all compliance requirements outlined above. The minimum threshold for the technical/functionality requirements is 70% as per the standard Evaluation Criteria presented in

EVALUATION CRITERIA	WEIGHTING
Stage 1	**Compliance**
Stage 1A - Mandatory Requirements	
Stage 1B – Other Mandatory Requirements	
Stage 2	**Technical/Functionality**
Technical/Functional Requirements	Threshold of 70%
Stage 3	**Price and Specific Goals**
Price	90
Specific Goals	10
TOTAL	**100**

Table 8.1 above. Bidders who score below this minimum requirement shall not be considered for further evaluation in stage 3.

Details of the technical/functional requirements are presented in table 8.4 below.

ITEM	CRITERIA	WEIGHT
1	Track Record of Tenderer on similar type and sizes (or more) of projects previously executed – Professionals Services	10
2	Experience of Key Personnel (based on Submitted CVs) – Professionals Services	10
3	Detailed Design & Construction Method Statement clearly identifying all design and construction activities that the contractor will undertake and the method that the contractor will use to undertake the activities.	10
4	Conceptual Design Report	10
5	Organisational Experience Projects - Construction Works	20
6	Experience of key Construction Related staff (based on Submitted CVs) in relation to the scope of Construction Works	10
7	Project Schedule	10
8	Detailed health, safety and environmental plan that is customized for working in a railway environment showing that the bidder has taken note	5

ITEM	CRITERIA	WEIGHT
	of the PRASA Technical SHE Specification and SPK7/1 which are included as Annexure 3 and 4 of the RFP	
9	Detailed quality management plan clearly stating all the quality management processes and procedures that the contractor will follow in delivering the scope of work to PRASA including tests to be completed during construction and on completion/commissioning and pass/fail parameters for all tests to be completed	10
10	Subcontracting to EMEs/QSE's based in Paarden Eiland and/or surrounding areas	5
	TOTAL	**100**

Table 8.4: Technical Evaluation Criteria

8.1.2.1 Functional Evaluation Criteria

Bidders are evaluated based on the functional criteria set out in this RFP. Only those Bidders which score [70] points or higher (out of a possible 100) during the functional evaluation will be evaluated during the second stage of the Bid.

Details of the scoring methodology presented above are outlined in table 8.5.

Multi-Disciplinary Design Team Evaluation			
CRITERIA	**SUB-CRITERIA**	**SCORING**	**MAXIMUM POINTS**
Track Record of Tenderer on similar type and sizes (or more) of projects previously executed – Professionals Services	Points are allocated for track record of 5 projects of similar type and scale executed by tenderer in the following disciplines: 1. **Civil Projects** (Geotechnical, Structural, Industrial and Commercial Infrastructure) 2. **Electrical Projects** (Electrical Building Services & Reticulation, Electronic Building Services, Transmission and Distribution and Industrial) 3. **General Building Projects** (Offices, Parking and Mess and Ablution);	Score will be based on the similar successfully completed / similar designed projects over the last ten years from the presented details in the tender document (attach the Certificate of Completion): 0. Not submitted information/ no response; 1. Unrelated references of projects provided without Certificate of Completion; 2. Project Experience of Similar Type consisting of Four (4) disciplines;	10%

Multi-Disciplinary Design Team Evaluation			
CRITERIA	**SUB-CRITERIA**	**SCORING**	**MAXIMUM POINTS**
	4. **Mechanical Projects** (Mechanical Building Services, Fire protection and Industrial); and 5. **Rail Infrastructure Projects** (Perway, OHTE, Rail Signalling). Documents to be submitted: • **The Certificate of Completion** indicating the value and the type of work performed on a letterhead of the client, signed and dated by an official from the client.	3. Project Experience of Similar Type consisting of All Five (5) Listed Disciplines totalling less than R 100 million (R100m) with Certificate of Completion; 4. Project Experience of Similar Type consisting of All Five (5) Listed Disciplines totalling between R100m and R200m with Certificate of Completion; and 5. Project Experience of Similar Type consisting of All Five (5) Listed Disciplines with a combined value totalling more than R200m with Certificates of Completion.	
Experience of Key Personnel (based on Submitted CVs) - Professionals Services 1. Project Manager; 2. Electrical Engineer (OHTE); 3. Electrical Engineer (Domestic Supply); 4. Mechanical Design Engineer; 5. Civil Engineer (Civils &Structural) Engineer; 6. Civil Engineer (Permanent Way) 7. Rail Signalling Engineer;	Qualifications and Professional Registration were compliance requirements. No of years of experience of key professional team members are now evaluated.	Score will be allocated based on more than five (5) years' related experience post Professional Certification: 0. No response/ Not submitted CV's or Unrelated CV's provided; 1. Eight (8) or more out of the thirteen (13) listed key staff team members have more than 5-years' related experience post professional registration; 2. Ten (10) or more out of the thirteen (13) listed key staff team members have more than 5-years' related experience post professional registration; 3. Twelve (12) or less of the thirteen (13) listed key staff team	10%

Multi-Disciplinary Design Team Evaluation			
CRITERIA	**SUB-CRITERIA**	**SCORING**	**MAXIMUM POINTS**
8. Telecommunications / ICT Engineer; 9. Industrial Engineer; 10. Electronic Engineer. 11 Quantity Surveyor; 12. Architect; and 13. Town Planning Manager.		members have more than 5 years related experience post professional registration; 4. All thirteen (13) listed key staff team members have between 5- and 10-years' related experience post professional registration; and 5. All thirteen (13) listed key staff team members have 10 or more years' related experience post professional registration.	
Approach and Methodology	Detailed Design & Construction Method Statement clearly identifying all design and construction activities that the contractor will undertake and the method that the contractor will use to undertake the activities. The Method Statement provided must 1. Be aligned to the scope of work of this project 2. Include design phase methodology and reviews 3. Include construction phase activities and methodology of completing works 4. Highlight the risks and mitigation measures associated with working within the Rail environment 5. Must cover the critical issues that the contractor will	0. No Information submitted/ no response; 1. Generic method statement/methodology or provided a detailed technical approach and methodology that covered five (5) or less of the eleven (11) sub-criteria requirements; 2. Provided a detailed technical approach and methodology that covered six (6) to eight (8) of the eleven (11) sub-criteria requirements; 3. Provided a detailed technical approach and methodology that covered nine (9) of the eleven (11) sub-criteria requirements; 4. Provided a detailed technical approach and methodology that covered ten (10) of the eleven (11) sub-criteria requirements; and	10%

Multi-Disciplinary Design Team Evaluation			
CRITERIA	**SUB-CRITERIA**	**SCORING**	**MAXIMUM POINTS**
	experience during construction for example (but not limited to) 5.1. Identification and protection/diversion of underground services 5.2. Access to the work sites over the tracks while the existing depot operations continue 5.3. How the contractor plans to barricade the new works from the existing depot and train operations 5.4. How the contractor will control dust during construction 5.5. How the contractor will ensure that the stability of existing depot structure is monitored and remains safe while doing deep excavations alongside the existing depot structure 5.6. Whether and in what sections the contractor will require PRASA to switch off the OHTE 5.7. How the contractor recommends completing the work in stages to allow PRASA to continue maintenance operations as per Clause 4.1.2.2	5. Provided a detailed technical approach and methodology that covered all eleven (11) of the sub-criteria requirements.	
Concept Design	Concept site master plan and brief conceptual design report covering the following areas:	0. No Information submitted/ no response	10%

Multi-Disciplinary Design Team Evaluation			
CRITERIA	**SUB-CRITERIA**	**SCORING**	**MAXIMUM POINTS**
	1. Existing buildings; 2. New running/ lifting shed with approximate measurements; 3. Proposed location of external train wash plant with approximate measurements; 4. Location of new office and mess & ablution buildings with approximate measurements; 5.Location of new warehouse/s with approximate measurements; 6. Location of new parking with approximate measurements; 7. Proposed security buildings with approximate measurements; 8. Proposed access roads and walkways; 9. Proposed track layouts (existing and new staging yards included); and 10. Rail entrance watchtowers with approximate measurements.	1. Inadequate / unrelated submission; 2. Only concept master plan or brief report submitted or both submitted but covering seven (7) or less of the areas listed; 3. Concept site master plan and brief report submitted covering eight (8) of areas listed; 4. Concept site master plan and brief report submitted covering nine (9) of areas listed; and 5. Concept site master plan and brief report submitted covering all ten (10) areas listed.	
		Professional Team Sub-Total	**40%**

Construction Evaluation (9CE)			
CRITERIA	**SUB-CRITERIA**	**SCORING**	**MAXIMUM POINTS**
Organisational Experience Projects) - Construction Works	Points are allocated for track record of 5 projects of similar type and scale executed by tenderer in consideration. 1. **Civil Projects** (Geotechnical, Structural, Industrial and Commercial Infrastructure) 2. **Electrical Projects** (Electrical Building Services & Reticulation, Electronic Building Services, Transmission and Distribution and Industrial)	Score will be based on the similar successfully completed / similar construction projects over the last ten years from the presented details in the tender document (attach the Certificate of Completion): 0. No submitted information/ no response; 1. Unrelated references of projects provided without Certificate of Completion;	20%

Multi-Disciplinary Design Team Evaluation			
CRITERIA	**SUB-CRITERIA**	**SCORING**	**MAXIMUM POINTS**
	3. **General Building Projects** (Offices, Parking and Mess and Ablution); 4. **Mechanical Projects** (Mechanical Building Services, Fire protection and Industrial); and 5. **Rail Infrastructure Projects** (Perway, OHTE, Rail Signalling). Documents to be submitted: • **The Certificate of Completion** indicating the value and the type of work performed on a letterhead of the client, signed and dated by an official from the client.	2. Project Experience of Similar Type consisting of Four (4) disciplines; 3. Project Experience of Similar Type consisting of All Five (5) Listed Disciplines totalling less than R 200 million (R200m) with Certificate of Completion; 4. Project Experience of Similar Type consisting of All Five (5) Listed Disciplines totalling between R200m and R500m with Certificate of Completion; and 5. Project Experience of Similar Type consisting of All Five (5) Listed Disciplines with a combined value totalling more than R500m with Certificates of Completion.	
Experience key staff (assigned site personnel) in relation to the scope of work - Construction Works: 1. Construction Manager (Pr.CM); 2. Construction Health and Safety Manager (CHSM); 3. Construction Health and Safety Officer (CHSO); and 4. Environmental Control Officer (ECO).	Qualifications and Professional Registration were compliance requirements. Points allocated for experience based on submitted CVs.	Score will be allocated based on more minimum five (5) years' related experience: 0. No response/ Not submitted CV's; 1. Unrelated CV's provided; 2. Two (2) or less of the four (4) listed key staff team members have more than 5 years; 3. Three (3) of the four (4) listed key staff team members have more than 5 years; 4. All four (4) listed key staff team members have between 6-and 10-years' related experience; 5. All four (4) listed key staff team members have more than 10 years related experience.	10%

Multi-Disciplinary Design Team Evaluation			
CRITERIA	**SUB-CRITERIA**	**SCORING**	**MAXIMUM POINTS**
Project Schedule	Provide a project schedule in MS Project (or similar) format that meets the clients timeline requirements and the schedule to cover the following **key** Milestones: 1. Studies to be completed 2. Design Development timelines including reviews by PRASA and RSR; 3. Environmental Authorisation 4. Submission to Municipality and obtain Approval of Site Development Plan and Building Plans; 5. Site establishment; 6. Works commencement; 7. Ordering of equipment/ materials; 8. Equipment installations; 9. Works completion with breakdown of sections of work to be completed in order to allow PRASA maintenance to continue; 10. Snag close out; 11. Practical completion – Phase 1; 12. Practical completion – Phase 2; 13. Provision of close out documentation; 14. Final Works Completion; 15. Warranty and defects notification periods The overall schedule should clearly indicate sequencing of activities with clear understanding of scope and provide the critical path.	0. No response 1. General Project schedule (not customised to scope of work) provided; 2. MS Project (or similar) schedule with less than six (6) of the fifteen (15) listed key milestones; 3. MS Project (or similar) schedule with six to fourteen (6-14) of the fifteen (15) listed key milestones on required format; 4. MS Project (or similar) schedule with all fifteen (15) listed key milestones clearly indicating sequencing of activities and commitment to practical and final works completion. 5. MS Project (or similar) schedule with all fifteen (15) listed key milestones clearly indicating sequencing of activities and commitment to practical and final works completion and also provide critical path.	10%

Multi-Disciplinary Design Team Evaluation			
CRITERIA	**SUB-CRITERIA**	**SCORING**	**MAXIMUM POINTS**
Health, Safety & Environment	Detailed health, safety and environmental plan that is customized for working in a railway environment showing that the bidder has taken note of the PRASA Technical SHE Specification and SPK7/1 which are included as Annexure 3 and 4 of the RFP: 1. Legal Appointments: Construction Manager, Construction Health and Safety Officer/ Manager (CHSO/ CHSM) and Environmental Control Officer (ECO). 2. Provide a project specific and comprehensive baseline risk assessment aligned to scope and specifically tailored to the project. 3. Provide Risk Mitigation plan to address identified Risks. 4. Provide a Safety Plan based on PRASA's Health and Safety specification. "**Kindly note that you are required to submit a comprehensive safety file for approval on appointment as the preferred bidder."**	0. No submitted information/ no response; 1. Generic Health and Safety Plan is provided, not related to the project; 2. Met the requirements of only one (1) item of the sub-criteria; 3. Met the requirements of two (2) items of the sub-criteria; 4. Met the requirements of three (3) items of the sub-criteria; and 5. Met the requirements of all four (4) sub-criteria.	5%
Quality	Provide a detailed quality management plan that the contractor will follow in delivering the scope of work to PRASA. The quality management plan must be related to the scope of work of this project and must include:	0. No submitted information/ no response; 1. Generic quality management plan is provided, not related to the scope of work of the project;	10%

Multi-Disciplinary Design Team Evaluation			
CRITERIA	**SUB-CRITERIA**	**SCORING**	**MAXIMUM POINTS**
	1. quality management processes/procedures for ensuring designs are integrated between all disciplines 2. quality management processes/procedures for ensuring end-user comments/review comments are incorporated into final detailed designs 3. quality management processes/procedures for ensuring construction is completed in accordance with the detailed designs 4. include a list of all construction tests that will be done and the pass/fail criteria for each test to be undertaken 5. include a list of all tests that will be done at commissioning phase for all new installations and equipment and the pass/fail criteria for each test to be undertaken 6. include a list of all compliance certificates that will be provided to PRASA upon completion	2. Provided a quality management plan that covered three (3) or less of the sub-criteria requirements 3. Provided a quality management plan that covered four (4) of the sub-criteria requirements 4. Provided a quality management plan that covered five (5) of the sub-criteria requirements 5. Provided a quality management plan that covered all six (6) of the sub-criteria requirements	
Subcontracting	A portion of the Works (in Rand value) must be subcontracted to EME's/QSE's/SMME's based in Paarden Eiland and/or surrounding areas.	0. No submitted information/ no response; 1. Proof of 0-10% of the works being subcontracted to EME's/QSE's/SMME's based in	5%

Multi-Disciplinary Design Team Evaluation			
CRITERIA	**SUB-CRITERIA**	**SCORING**	**MAXIMUM POINTS**
	PRASA requires a signed agreement/s or Memorandum/da Of Understanding from the Bidders to reflect the names of companies that it intends subcontracting to, the nature of the works to be subcontracted and contract % (in Rand value) that will be subcontracted to the respective companies.	Paarden Eiland and/or surrounding areas 2. Proof of greater than 10% up to and including 20% of the works being subcontracted to EME's/QSE's/SMME's based in Paarden Eiland and/or surrounding areas 3. Proof of greater than 20% up to and including 30% of the works being subcontracted to EME's/QSE's/SMME's based in Paarden Eiland and/or surrounding areas 4. Proof of greater than 31% up to and including 35% of the works being subcontracted to EME's/QSE's/SMME's based in Paarden Eiland and/or surrounding areas 5. Proof of greater than 35% of the works being subcontracted to EME's/QSE's/SMME's based in Paarden Eiland and/or surrounding areas	
		Construction Team Sub-Total	**60%**
		TOTAL	**100%**

Table 8.5: Detailed scoring methodology

Note: Bidders that fail to achieve the minimum overall qualifying score of 70% on functional/ technical requirements will not be considered for further Price and Specific Goals (Stage 3) evaluation.

8.1.3. STAGE 3 - PRICING AND SPECIFIC GOALS

Bidders should provide their price proposal in envelope 2, which should include Form C (Financial Offer) and also provide proof of Specific Goals.

The maximum points for this tender are allocated as follows:

	POINTS
PRICE	90
SPECIFIC GOALS	10
TOTAL POINTS FOR PRICE AND SPECIFIC GOALS	**100**

POINTS AWARDED FOR PRICE

The following formula, shall be used by the Bid Evaluation Committee to allocate scores to the qualified bidders :

$$PS = 90\left(1 - \frac{Pt - Pmin}{Pmin}\right)$$

Where

Ps = Points scored for price of tender under consideration

Pt = Rand value of tender under consideration

Pmin = Rand value of lowest acceptable tender

POINTS AWARDED FOR SPECIFIC GOALS

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 8.6 below as may be supported by proof/documentation stated in the conditions of this tender:

Table 8.6: 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 (90/10 system) (To be completed by the organ of state)	Number of points claimed (90/10 system) (To be completed by the tenderer)	Acceptable evidence to be submitted with tender to allow evaluation
B-BBEE (Level 2 or higher)	4		B-BBEE Certificate/Affidavit (in case of JV, a consolidated score card will be accepted)
At least 51% Black Owned	3		Certified copy of ID Documents of the Owners
At least 51% Black Women Owned	3		Certified copy of ID Documents of the Owners
TOTAL	10		

Table 8.6: Specific Goals and Points Claimed

Should the documents stated as acceptable evidence not be provided in the Bid Response by the Bidder or not be provided in the form required by PRASA in the Bid Response document, points will not be allocated to the Bidder for that section of the Specific Goals evaluation.

9 THE NATIONAL INDUSTRIAL PARTICIPATION PROGRAMME

The National Industrial Participation (NIP) Programme, which is applicable to all government procurement contracts that have an imported content, became effective on the 1 September 1996. The NIP policy and guidelines were fully endorsed by Cabinet on 30 April 1997. In terms of the Cabinet decision, all state and parastatal purchases / lease contracts (for goods, works and services) entered into after this date, are subject to the NIP requirements. NIP is obligatory and therefore must be complied with. The Industrial Participation Secretariat (IPS) of the Department of Trade and Industry (DTI) is charged with the responsibility of administering the programme.

BIDDERS ARE THEREFORE REQUIRED TO COMPLETE SBD 5 TO GIVE EFFECT TO THE ABOVE. BIDDERS WHO DO NOT COMPLETE THIS FORM WILL BE AUTOMATICALLY DISQUALIFIED.

SECTION 4

PRICING AND DELIVERY SCHEDULE

Respondents are required to complete the Pricing Schedule and Form C (Volume 2 /Envelope 2)

1 PRICING

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

1.2. Price offer is firm and clearly indicate the basis thereof.

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

1.4. Cost breakdown must be indicated.

1.5. Price escalation basis and formula must be indicated.

1.6. 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.

1.7. 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.

1.8. 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:

1.8.1 negotiate a market-related price with the Respondent scoring the highest points or cancel the RFP;

1.8.2 if that Respondent does not agree to a market-related price, negotiate a market-related price with the Respondent scoring the second highest points or cancel the RFP; and

1.8.3 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 or cancel the RFP.

1.8.4 If a market-related price is not agreed with the Respondent scoring the third highest points, PRASA must cancel the RFP.

2 DISCLOSURE OF PRICES QUOTED

Respondents are to note that, on award of business, PRASA is required to publish the tendered prices and preferences claimed of the successful and unsuccessful Respondents inter alia on the National Treasury e-Tender Publication Portal, (www.etenders.gov.za) , the other medium used to advertise the bid i.e CIDB as required per National Treasury Instruction Note 09 of 2022/2023.

3 PERFORMANCE BOND

3.1 The preferred Bidder shall provide PRASA with a performance bond which shall be 10% of the value of the entire Project price offered and it shall be issued within 30 days of receipt of notice of appointment. The Performance Bond shall be valid for the Contract period. The format of the Performance Bond is attached as **Annexure 5.**

4 OWNERSHIP OF DESIGN

4.1 The plans and design developed and to be provided by the Service Provider shall at all times remain the property of PRASA.]

5 SERVICE LEVELS

5.1 An experienced national account representative(s) is required to work with PRASA's procurement department. [No sales representatives are needed for individual department or locations]. Additionally, there shall be a minimal number of people, fully informed and accountable for this agreement.

5.2 PRASA will have quarterly reviews with the Service provider's account representative on an on-going basis.

5.3 PRASA reserves the right to request that any member of the Service provider's team involved on the PRASA account be replaced if deemed not to be adding value for PRASA.

5.4 The Service provider guarantees that it will achieve a 100% [hundred per cent] service level on the following measures:

Random checks on compliance with quality/quantity/specifications

On time delivery.

5.5 The Service provider must provide a telephone number for customer service calls.

5.6 Failure of the Service provider to comply with stated service level requirements will give PRASA the right to cancel the contract in whole, without penalty to PRASA, giving 30 [thirty] calendar days' notice to the Service provider of its intention to do so.

Acceptance of Service Levels:

YES	

6 TOTAL COST OF OWNERSHIP (TCO)

6.1 PRASA will strive to procure goods, services and works which contribute to its mission. In order to achieve this, PRASA must be committed to working with suppliers who share its goals of continuous improvement in service, quality and reduction of Total Cost of Ownership (TCO).

6.2 Respondents shall indicate whether they would be committed, for the duration of any contract which may be awarded through this RFP process, to participate with PRASA in its continuous improvement initiatives to reduce the total cost of ownership [**TCO**], which will reduce the overall cost of transportation services and related logistics provided by PRASA's operating divisions within South Africa to the ultimate benefit of all end-users.

7 FINANCIAL STABILITY

Respondents are required to submit their latest financial statements prepared and signed off by a professional accountant for the past …….. years with their Proposal in order to enable PRASA to establish financial stability.

SIGNED at _____ on this _____ day of _____ 20…….

SIGNATURE OF WITNESSES ADDRESS OF WITNESSES

1 _____ _____

Name _____ _____

2 _____ _____

Name _____ _____

SIGNATURE OF RESPONDENT'S AUTHORISED REPRESENTATIVE: _____

NAME: _____

DESIGNATION: _____

8 VALIDITY OF RETURNABLE DOCUMENTS

The successful Respondent will be required to ensure the validity of all returnable documents, including but not limited to its Tax Clearance Certificate and valid B-BBEE Verification Certificate, where applicable, for the duration of any contract emanating from this RFP. Should the Respondent be awarded the contract [the Agreement] and fail to present PRASA with such renewals as and when they become due, PRASA shall be entitled, in addition to any other rights and remedies that it may have in terms of the eventual Agreement, to terminate such Agreement forthwith without any liability and without prejudice to any claims which PRASA may have for damages against the Respondent.

SIGNED at _____ on this _____ day of _____ 20…….

SIGNATURE OF WITNESSES ADDRESS OF WITNESSES

1 _____ _____

Name _____ _____

2 _____ _____

Name _____ _____

SIGNATURE OF RESPONDENT'S AUTHORISED REPRESENTATIVE: _____

NAME: _____

DESIGNATION: _____

9 CERTIFICATE OF ACQUAINTANCE WITH RFP TERMS & CONDITIONS & APPLICABLE DOCUMENTS

By signing this certificate the Respondent is deemed to acknowledge that he/she has made himself/herself thoroughly familiar with, and agrees with all the conditions governing this RFP, including those contained in any printed form stated to form part hereof, including but not limited to the documents stated below and PRASA will recognise no claim for relief based on an allegation that the Respondent overlooked any such condition or failed properly to take it into account for the purpose of calculating tendered prices or any other purpose:

1. PRASA's General Bid Conditions*
2. Standard RFP Terms and Conditions for the supply of Goods or Services or Works to PRASA

Should the Bidder find any terms or conditions stipulated in any of the relevant documents quoted in the RFP unacceptable, it should indicate which conditions are unacceptable and offer alternatives by written submission on its company letterhead, attached to its submitted Bid. Any such submission shall be subject to review by PRASA's Legal Counsel who shall determine whether the proposed alternative(s) are acceptable or otherwise, as the case may be. A material deviation from the Standard terms or conditions could result in disqualification.

Bidders accept that an obligation rests on them to clarify any uncertainties regarding any bid to which they intend to respond, before submitting the bid. The Bidder agrees that he/she will have no claim based on an allegation that any aspect of this RFP was unclear but in respect of which he/she failed to obtain clarity.

The bidder understands that his/her Bid will be disqualified if this Certificate of Acquaintance with RFP documents included in the RFP as a returnable document, is found not to be true and complete in every respect.

SIGNED at _____ on this _____ day of _____20…..

SIGNATURE OF WITNESSES ADDRESS OF WITNESSES

1 _____ _____

Name _____ _____

2 _____ _____

Name _____ _____

SIGNATURE OF RESPONDENT'S AUTHORISED REPRESENTATIVE: _____

NAME: _____

DESIGNATION: _____

10 GENERAL CONDITIONS

10.1 ALTERNATIVE BIDS – NOT APPLICABLE FOR THIS TENDER

Bidders may submit alternative Bid only if a main Bid, strictly in accordance with all the requirements of the RFP is also submitted. The alternative Bid is submitted with the main Bid together with a schedule that compares the requirements of the RFP with the alternative requirements the Bidders proposes. Bidders must note that in submitting an alternative Bid they accept that PRASA may accept or reject the alternative Bid and shall be evaluated in accordance with the criteria stipulated in this RFP.

10.2 PRASA'S TENDER FORMS

Bidders must sign and complete the PRASA's Bid Forms and attach all the required documents. Failure by Bidders to adhere to this requirement may lead to their disqualification.

10.3 PRECEDENT

In case of any conflict with this RFP and Bidders response, this RFP and its briefing notes shall take precedence.

10.4 RESPONSE TO RFP-CONFIDENTIALITY

Response to RFPs must clearly indicate whether any information conveyed to or requested from PRASA is confidential or should be treated confidentially by PRASA. In the absence of any such clear indication in writing from a response to RFP, PRASA shall deem the response to RFP to have waived any right to confidentiality and treat such information as public in nature.

Where a Bidder at any stage during the RFP Process indicates to PRASA that information or any response to RFP requested from PRASA is or should be treated confidentially, PRASA shall treat such information or response to RFP confidentially, unless PRASA believes that to ensure the transparency and competitiveness of the RFP Process the content of the information or response to RFP should be conveyed to all Bidders, in which event it shall apply the following process:

- PRASA shall confirm with the Bidder whether the raising of confidentiality applies to the entire response to the RFP or only specific elements or sections of the response;
- Where confidentiality is maintained by the Bidder and PRASA is of the opinion that the information or response to RFP if made publicly available would affect the commercial interests of the Bidder or is commercially sensitive information, PRASA shall not release such information to other Bidders if providing such information or response to the RFP would prejudice the competitiveness and transparency of the RFP Process;
- Where PRASA is of the opinion that information provided is not commercially sensitive or would have no impact on the commercial interests of the relevant Bidder if released and fairness and transparency requires that such information be released to all Bidders, PRASA may:

    i. inform the relevant Bidder of the necessity to release such information and/or response to RFP and request the Bidder to consent to the release thereof by PRASA; or
    ii. obtain legal advice regarding the confidentiality of the relevant information and/or response to RFP and the legal ability of PRASA to release such information; or

iii. refrain from releasing the information and/or response to RFP, in which event PRASA shall not take account of the contents of such information in the evaluation of the relevant response to RFP.

The above procedures regarding confidentiality shall not apply to any information which is already public knowledge or available in the public domain or in the hands of PRASA or is required to be disclosed by any legal or regulatory requirements or order of any competent court, tribunal or forum.

10.5 RESPONSE TO THE RFP – RFP DISQUALIFICATION

Responses to RFP which do not comply with the RFP requirements, formalities, terms and conditions may be disqualified by PRASA from further participation in the RFP Process.

In particular (but without prejudice to the generality of the foregoing) PRASA may disqualify, at its sole discretion and without prejudice to any other remedy it may have, a Bidder where the Bidder, or any of its consortium members, subcontractors or advisors have committed any act of misrepresentation, bad faith or dishonest conduct in any of its dealings with or information provided to PRASA.

10.6 CORRUPTION, GIFTS AND PAYMENTS

Neither the Bidders to RFPs, its equity members, the sub-contractors, consortium members nor any of their agents, lenders or advisors shall directly or indirectly offer or give to any person in the employment of PRASA or any other Government official or any of the Advisory Team any gift or consideration of any kind as an inducement or reward for appointing a particular Bidder, or for showing or omitting to show favour or disfavour to any of the Bidders, its equity members or the sub-contractors in relation to the Project.

In the event that any of the prohibited practices contemplated under the above paragraph is committed, PRASA shall be entitled to terminate any Response to RFP's status and to prohibit such Response to RFP, its equity members, its SPV members, its Sub Contractors and their agents, lenders and advisors from participating in any further part of the procurement of the Project.

10.7 INSURANCE

Unless specifically provided for in this RFP or draft contracts, Bidders will be required to submit with their Bid for services professional indemnity insurance and works insurance to an extent (if any) if insurance provided by PRASA may not be for the full cover required in terms of the relevant category listed in this RFP. The Bidder is advised to seek qualified advice regarding insurance.

10.8 NO CONTACT POLICY

Bidders may only contact the bid administrator of PRASA as per the terms of the Communication Structure established by this RFP, except in the case of pre-existing commercial relationships, in which case contact may be maintained only with respect thereto and, in making such contact, no party may make reference to the Project or this RFP.

10.9 CONFLICT OF INTEREST

No Bidder member, subcontractor or advisor of the response to RFP may be a member of or in any other way participate or be involved, either directly or indirectly in more than one response to RFP or response to RFP during any stage of the Project procurement process, but excluding specialist suppliers of systems and equipment, non-core service providers or financial or commercial institutions whose role is limited purely to lending money or advancing credit to the response to RFP. Bidders are to sign the declaration of interest form. In order to prevent the conflict or potential conflict of interest between Lenders and Bidders to RFP, no advisors or the Contractor/s or Consortium/s to any response to RFP, consortium member or subcontractor may fulfil the role of arranger, underwriter and/or lead bank to the response to RFP. PRASA may disqualify the response to RFP from further participation in the event of a failure to comply with this provision. PRASA views the potential conflict of interest so great as to warrant the reduction of competition for advisory services.

10.10 COLLUSION AND CORRUPTION

Any Bidder shall, without prejudice to any other remedy available to PRASA, be disqualified, where the response to RFP –

- communicates to a person other than persons nominated by PRASA a material part of its response to RFP; or
- Enters into any Contract or arrangement with any other person or entity that it shall refrain from submitting a response to RFP to this RFP or as to any material part of its Response to RFP to this RFP (refer the prohibition contained in Section 4(1)(b)(iii) of the Competition Act 89 of 1998). . The Bidders represents that the Bidder has not, directly or indirectly, entered into any agreement, arrangement or understanding or any such like for the purpose of, with the intention to, enter into collusive Biding or with reasonable appreciation that, collusive any agreement, arrangement or understanding or any such like may result in or have the effect of collusive Biding. The Bidder undertakes that in the process of the Bid but prior to PRASA awarding the Bid to a preferred bidder become involved in or be aware of or do or caused to be done any agreement, arrangement or understanding or any such like for the purpose of or which may result in or have the effect of a collusive Bid, the Bidder will notify PRASA of such any agreement, arrangement or understanding or any such like.; or
- offers or agrees to pay or give any sum of money, inducement or valuable consideration directly or indirectly to any person for doing or having done, or causing, or having caused to be done any act or omission in relation to the RFP Process or any proposed response to RFP (provided nothing contained in this paragraph shall prevent a response to RFP from paying any market-related commission or bonus to its employees or contractors within the agreed terms of their employment or contract).

10.11 CONSORTIUM CHANGES

If exceptional circumstances should arise in which a after the submission to the bid and after closing date of submission of bids, there is change in the composition of the Bidder, either through substitution or omission of any member of the Bidder:

- The Response to RFP must notify PRASA in writing of the proposed changes supported by complete details of the material reasons for the changes, the parties impacted by the changes and the impact on the response to RFP.
- PRASA shall evaluate the reasons advanced by the Bidder for the requested changes to the Bidder structure and where PRASA is not satisfied that the reasons advanced are reasonable or material, refuse to accept the change and disqualify the response to RFP, or notify the Bidder in writing of its non-acceptance of the changes and require the Bidder to propose a suitable

alternative to PRASA within 10 (TEN) days of its receipt of the decision of PRASA, upon receipt of which PRASA shall -

i. Evaluate the alternative proposed for suitability to PRASA, and where the alternative is accepted by PRASA, inform the Bidder in writing of such acceptance and PRASA shall reassess the response to RFP against the RFP requirements and criteria; or

ii. Where the alternative is not accepted by PRASA, inform the Bidder in writing of such non-acceptance as well as its disqualification from the RFP Process.

iii. Where PRASA is satisfied that the changes requested under (i) above are reasonable and material, the response to RFP, shall be allowed to effect the required changes and PRASA shall reassess the response to RFP against the RFP requirements and criteria.

10.12 COSTS OF RESPONSE TO THE RFP SUBMISSION

All costs and expenses associated with or incurred by the Bidder in relation to any stage of the Project, shall be borne by the Bidder. PRASA shall not be liable for any such costs or expenses or any claim for reimbursement of such costs or expenses.

To avoid doubt, PRASA shall not be liable for any samples submitted by the Bidder in support of their Responses to RFP and reserves the right not to return to them such samples and to dispose of them at its discretion.

10.13 RESPONSE TO THE RFP WARRANTY

Bidders must provide a warranty as part of their Responses to RFP that their Responses to RFP are true and correct in all respects, that it does not contain a misrepresentation of any kind and that the taxes of all members of the Bidder company, consortium members and or subcontractors are in order and none of the members are undergoing corruption or any criminal-related investigations or have any past convictions for fraud or corruption.

11 CONDITIONS OF TENDER

General

Actions

1 PRASA's *Representative* and each *tenderer* submitting a tender shall act as stated in these Conditions of Tender and in a manner which is fair, equitable, transparent, competitive and cost-effective.

Interpretation

2 Terms shown in *italics* vary for each tender. The details of each term for this tender are identified in the Request for Tender / Scope of work/ specification. Terms shown in capital initials are defined terms in the appropriate conditions of contract.

3 Any additional or amended requirements in the Scope of work/ specification, and additional requirements given in the Schedules in the *tender returnables* are deemed to be part of these Conditions of Tender.

4 The Conditions of Tender and the Scope of work/ specification shall form part of any contract arising from this invitation to tender.

Communication

5 Each communication between PRASA and a *tenderer* shall be to or from PRASA*'s Representative* only, and in a form that can be read, copied and recorded. Communication shall be in the English language. PRASA takes no responsibility for non-receipt of communications from or by a *tenderer.*

PRASA's rights to accept or reject any tender

6 PRASA may accept or reject any variation, deviation, tender, or alternative tender, and may cancel the tender process and reject all tenders at any time prior to the formation of a contract. PRASA or PRASA*'s Representative* will not accept or incur any liability to a *tenderer* for such cancellation and rejection, but will give reasons for the action. PRASA reserves the right to accept the whole or any part of any tender.

7 After the cancellation of the tender process or the rejection of all tenders PRASA may abandon the proposed work and services, have it performed in any other manner, or re-issue a similar invitation to tender at any time.

Tenderer's obligations

The *tenderer* shall comply with the following obligations when submitting a tender and shall:

Eligibility 1 Submit a tender only if the *tenderer* complies with the criteria stated in the Scope of work/ specification.

Cost of tendering 2 Accept that PRASA will not compensate the *tenderer* for any costs incurred in the preparation and submission of a tender.

Check documents 3 Check the *tender documents* on receipt, including pages within them, and notify PRASA*'s Representative* of any discrepancy or omissions in writing.

Copyright of documents 4 Use and copy the documents provided by PRASA only for the purpose of preparing and submitting a tender in response to this invitation.

Standardised specifications and other publications 5 Obtain, as necessary for submitting a tender, copies of the latest revision of standardised specifications and other publications, which are not attached but which are incorporated into the *tender documents* by reference.

Acknowledge receipt 6 Preferably complete the Receipt of invitation to submit a tender form attached to the Letter of Invitation and return it within five days of receipt of the invitation.

	7	Acknowledge receipt of Addenda / Tender Briefing Notes to the *tender documents,* which PRASA*'s Representative* may issue, and if necessary apply for an extension to the *deadline for tender submission*, in order to take the Addenda into account.
Site visit and / or clarification meeting	8	Attend a site visit and/or clarification meeting at which *tenderer*s may familiarise themselves with the proposed work, services or supply, location, etc. and raise questions, if provided for in the Scope of work/ specification. Details of the meeting are stated in the RFP document, *i*-tender website and CIDB website.
Seek clarification	9	Request clarification of the *tender documents,* if necessary, by notifying PRASA*'s Representative* earlier than the *closing time for clarification of queries*.
Insurance	10	Be informed of the risk that needs to be covered by insurance policy. The *tenderer* is advised to seek qualified advice regarding insurance.
Pricing the tender	11	Include in the rates, prices, and the tendered total of the prices (if any) all duties, taxes (except VAT), and other levies payable by the successful *tenderer.* Such duties, taxes and levies are those applicable 14 days prior to the *deadline for tender submission*.
	12	Show Value Added Tax (VAT) payable by PRASA separately as an addition to the tendered total of the prices.
	13	Provide rates and prices that are fixed for the duration of the contract and not subject to adjustment except as provided for in the *conditions of contract.*
	14	State the rates and Prices in South African Rand unless instructed otherwise as an additional condition in the Scope of work/ specification.

The selected *conditions of contract* may provide for part payment in other currencies.

Alterations to documents

15 Not make any alterations or an addition to the tender documents, except to comply with instructions issued by PRASA's *Representative* or if necessary to correct errors made by the *tenderer.* All such alterations shall be initialled by all signatories to the tender. Corrections may not be made using correction fluid, correction tape or the like.

Alternative tenders

16 Submit alternative tenders only if a main tender, strictly in accordance with all the requirements of the *tender documents* is also submitted. The alternative tender is submitted with the main tender together with a schedule that compares the requirements of the *tender documents* with the alternative requirements the *tenderer* proposes. – Not applicable for this tender.

17 Accept that an alternative tender may be based only on the criteria stated in the Scope of work/ specification and as acceptable to PRASA.

Submitting a tender

18 Submit a tender for providing the whole of the works, services or supply identified in the Contract Data unless stated otherwise as an additional condition in the Scope of work/ specification.

NOTE:

19 **Return the completed and signed *PRASA Tender Forms and SBD forms provided with the tender. Failure to submit all the required documentation will lead to disqualification***

20 **Submit the tender as an original plus 1 copy and 2 copies of the electronic version which should be contained in Memory Cards clearly marked as Volume 1 and 2 in the Bidders name as stated in the RFP and provide an English translation for documentation**

submitted in a language other than English. Tenders may not be written in pencil but must be completed in ink.

21 Sign and initial the original and all copies of the tender where indicated. PRASA will hold the signatory duly authorised and liable on behalf of the *tenderer*.

22 Seal the original and each copy of the tender as separate packages marking the packages as "ORIGINAL" and "COPY". Each package shall state on the outside PRASA's address and invitation to tender number stated in the Scope of work/ specification, **as well as the *tenderer*'s name and contact address.** Where the tender is based on a two envelop system tenderers should further indicate in the package whether the document is **envelope / box 1 or 2.**

23 Seal original and copies together in an outer package that states on the outside only PRASA's address and invitation to tender number as stated in the Scope of work/ specification. The outer package should be marked “CONFIDENTIAL”

24 Accept that PRASA will not assume any responsibility for the misplacement or premature opening of the tender if the outer package is not sealed and marked as stated.

Note:
PRASA prefers not to receive tenders by post, and takes no responsibility for delays in the postal system or in transit within or between PRASA offices.

PRASA prefers not to receive tenders by fax, PRASA takes no responsibility for difficulties in transmission caused by line or equipment faults.

Where tenders are sent via courier, PRASA takes no responsibility for tenders delivered to any other site than the tender office.

PRASA employees are not permitted to deposit a tender into the PRASA tender box on behalf of a tenderer, except those lodged by post or courier.

Closing time

25 Ensure that PRASA has received the tender at the stated address with the Scope of work / specification no later than the *deadline for tender submission*. Proof of posting will not be taken by PRASA as proof of delivery. PRASA will not accept a tender submitted telephonically, by Fax, E-mail or by telegraph unless stated otherwise in the Scope of work/ specification.

26 Accept that, if PRASA extends the *deadline for tender submission* for any reason, the requirements of these Conditions of Tender apply equally to the extended deadline.

Tender validity

27 Hold the tender(s) valid for acceptance by PRASA at any time within the *validity period* after the *deadline for tender submission*.

28 Extend the *validity period* for a specified additional period if PRASA requests the *tenderer* to extend it. A *tenderer* agreeing to the request will not be required or permitted to modify a tender, except to the extent PRASA may allow for the effects of inflation over the additional period.

Clarification of tender after submission

29 Provide clarification of a tender in response to a request to do so from PRASA's *Representative* during the evaluation of tenders. This may include providing a breakdown of rates or Prices. No change in the total of the Prices or substance of the tender is sought, offered, or permitted except as required by PRASA*'s Representative* to confirm the correction of arithmetical errors discovered in the evaluation of tenders. The total of the Prices stated by the *tenderer* as corrected by

PRASA's *Representative* with the concurrence of the *tenderer*, shall be binding upon the *tenderer*

Submit bonds, policies etc.

30 If instructed by PRASA's *Representative* (before the formation of a contract), submit for PRASA's acceptance, the bonds, guarantees, policies and certificates of insurance required to be provided by the successful *tenderer* in terms of the *conditions of contract*.

31 Undertake to check the final draft of the contract provided by PRASA's *Representative,* and sign the Form of Agreement all within the time required.

32 Where an agent on behalf of a principal submits a tender, an authenticated copy of the authority to act as an agent should be submitted with the tender.

Fulfil BEE requirements

33 Comply with PRASA's requirements regarding BBBEE Suppliers, where applicable.

PRASA'S UNDERTAKINGS

PRASA, and PRASA's *Representative*, shall:

Respond to clarification

1 Respond to a request for clarification received earlier than the *closing time for clarification of queries.* The response is notified to all *tenderer*s.

Issue Addenda

2 If necessary, issue to each *tenderer* from time to time during the period from the date of the Letter of Invitation until the *closing time for clarification of queries*, Addenda that may amend, amplify, or add to the *tender documents.* If a *tenderer* applies for an extension to the *deadline for tender submission*, in order to take Addenda into account

in preparing a tender, PRASA may grant such an extension and PRASA's *Representative* shall notify the extension to all *tenderer*s.

Return late tenders

3 Return tenders received after the *deadline for tender submission* unopened to the *tenderer* submitting a late tender. Tenders will be deemed late if they are not in the designated tender box at the date and time stipulated as the deadline for tender submission.

Non-disclosure

4 Not disclose to *tenderer*s, or to any other person not officially concerned with such processes, information relating to the evaluation and comparison of tenders and recommendations for the award of a contract.

Grounds for rejection

5 Consider rejecting a tender if there is any effort by a *tenderer* to influence the processing of tenders or contract award.

Disqualification

6 Instantly disqualify a *tenderer* (and his tender) if it is established that the *tenderer* offered an inducement to any person with a view to influencing the placing of a contract arising from this invitation to tender.

Test for responsiveness

7 Determine before detailed evaluation, whether each tender properly received

- meets the requirements of these Conditions of Tender,
- has been properly signed, and
- is responsive to the requirements of the *tender documents*.

8 Judge a responsive tender as one which conforms to all the terms, conditions, and specifications of the *tender documents* without material deviation or qualification. A material deviation or qualification is one which, in PRASA *'s* opinion would

- detrimentally affect the scope, quality, or performance of the works, services or supply identified in the Contract Data*,*

- change PRASA's or the *tenderer*'s risks and responsibilities under the contract, or
- affect the competitive position of other *tenderer*s presenting responsive tenders, if it were to be rectified.

Non-responsive tenders

10 Reject a non-responsive tender, and not allow it to be subsequently made responsive by correction or withdrawal of the non-conforming deviation or reservation.

Arithmetical errors

11 Check responsive tenders for arithmetical errors, correcting them as follows:

- Where there is a discrepancy between the amounts in figures and in words, the amount in words shall govern.
- If a bill of quantities applies and there is a discrepancy between the rate and the line item total, resulting from multiplying the rate by the quantity, the rate as quoted shall govern. Where there is an obviously gross misplacement of the decimal point in the rate, the line item total as quoted shall govern, and the rate will be corrected.
- Where there is an error in the total of the Prices, either as a result of other corrections required by this checking process or in the *tenderer*'s addition of prices, the total of the Prices, if any, will be corrected.

12 Reject a tender if the *tenderer* does not accept the corrected total of the Prices (if any).

Evaluating the tender

13 Evaluate responsive tenders in accordance with the procedure stated in the RFP / Scope of work/ specification. The evaluated tender price will be disclosed only to the relevant PRASA tender committee and will not be disclosed to *tenderer*s or any other person.

Clarification of a tender	14	Obtain from a *tenderer* clarification of any matter in the tender which may not be clear or could give rise to ambiguity in a contract arising from this tender if the matter were not to be clarified.
Acceptance of tender	15	Notify PRASA's acceptance to the successful *tenderer* before the expiry of the *validity period*, or agreed additional period. Providing the notice of acceptance does not contain any qualifying statements, it will constitute the formation of a contract between PRASA and the successful *tenderer*.
Notice to unsuccessful tenderers	16	After the successful *tenderer* has acknowledged PRASA's notice of acceptance, notify other *tenderer*s that their tenders have not been accepted, following PRASA's current procedures.
Prepare contract documents	17	Revise the contract documents issued by PRASA as part of the *tender documents* to take account of • Addenda issued during the tender period, • inclusion of some of the *tender returnables*, and • other revisions agreed between PRASA and the successful *tenderer,* before the issue of PRASA's notice of acceptance (of the tender).
Issue final contract	18	Issue the final contract documents to the successful *tenderer* for acceptance within one week of the date of PRASA's notice of acceptance.
Sign Form of Agreement	19	Arrange for authorised signatories of both parties to complete and sign the original and one copy of the Form of Agreement within two weeks of the date of PRASA's notice of acceptance of the tender. If either party requires the signatories to initial every page of the contract documents, the signatories for the other party shall comply with the request.

Provide copies of the contracts

20 Provide to the successful *tenderer* the number of copies stated in the Scope of work/ specification of the signed copy of the contracts within three weeks of the date of PRASA's acceptance of the tender.