

BID DESCRIPTION: REQUEST FOR PROPOSAL (RFP) FOR THE APPOINTMENT OF A SERVICE PROVIDER FOR REPLACEMENT OF OVERHEAD OPTIC FIBER CABLE FROM ROSSBURGH TO PINETOWN, MEREBANK TO CROSSMOOR, BRIARDENE TO STANGER, REUNION TO UMLAZI AND FROM UMKOMAAS TO KELSO STATIONS FOR PRASA RAIL IN KZN REGION	 prasa <small>PASSENGER RAIL AGENCY OF SOUTH AFRICA</small>
BID NUMBER: DBN/CAP(BAC)025	

Annexure 1

BID NUMBER: *DBN/CAP(BAC)025*

REQUEST FOR PROPOSAL (RFP) FOR THE APPOINTMENT OF A SERVICE PROVIDER FOR REPLACEMENT OF OVERHEAD OPTIC FIBER CABLE FROM ROSSBURGH TO PINETOWN, MEREBANK TO CROSSMOOR, BRIARDENE TO STANGER, REUNION TO UMLAZI AND FROM UMKOMAAS TO KELSO STATIONS FOR PRASA RAIL KZN REGION

CLOSING DATE	04 August 2023
CLOSING TIME	12:00
BRIEFING SESSION	COMPULSORY
	DATE: 24 July 2023
	TIME: 10H00
BID DOCUMENTS DELIVERY ADDRESS	PASSENGER RAIL AGENCY OF SOUTH AFRICA TENDER BOX NO.05 65 MASABALALA YENGWA AVENUE GREYVILLE DURBAN STATION ROOF LEVEL ENTRANCE
BIDDER NAME

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Disclaimer

This document is provided solely for the purpose set out in this RFP 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 RFP 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 RFP 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 RFP either directly or through an intermediary then such recipient, Bidder will be disqualified forthwith from participating in the RFP.

Each recipient of this RFP 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,

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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 RFP each Bidder and each of its members agrees to maintain its submission in Bid to this RFP 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 RFP.

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 RFP regarding the content of a response to the RFP 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 RFP and/or its receipt of a Proposal in response to it. Please note that PRASA reserves the right to:

- Modify the RFP's goods / service(s) / works and request Respondents to re-bid on any changes;
- Withdraw, amend the RFP at any time without prior notice and liability to compensate or reimburse any respondent;
- Reject any Proposal which does not conform to instructions and specifications which are detailed herein
- Disqualify Proposals submitted after the stated submission deadline;
- Call a respondent to provide additional documents which PRASA may require which have not been submitted to PRASA.

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- Withdraw the RFP on good cause shown;
- Award a contract in connection with this Proposal at any time after the RFP's closing date;
- 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 proposal made by any bidder at any time and to include such proposal 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 RFP 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 Proposals meet RFP requirement, are affordable and demonstrate value for money and there is no clear preferred response to the RFP

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

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LIST OF BID DOCUMENTS

INVITATION TO BID PART A	Form A
TERMS AND CONDITIONS FOR BIDDING PART B	Form B
TENDER FORM (PRICING SCHEDULE)	Form C
BRIEFING/SITE INSPECTION CERTIFICATE	Form D
STATEMENT OF WORK SUCCESSFULLY CARRIED OUT BY BIDDER	Form E
SECURITY SCREENING FORM	Form F
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2 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

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3 INTERPRETATION

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

- 4.1 headings have been inserted for convenience only and should not be taken into account in interpreting the RFP;
- 4.2 any reference to one gender shall include the other gender;
- 4.3 words in the singular shall include the plural and vice versa;
- 4.4 any reference to natural persons shall include legal persons and vice versa;
- 4.5 words defined in a specific clause have the same meaning in all other clauses of the RFP, unless the contrary is specifically indicated;
- 4.6 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;
- 4.7 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;
- 4.8 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
- 4.9 this RFP shall be governed by and applied in accordance with South African law.

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4 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:

- 5.1 “Accounting Authority” means the Board of PRASA;
- 5.2 “Contract” means the Contract to be entered between PRASA and the successful Bidder for the provision of the *services* procured in this RFP.
- 5.3 “Bid” means the Bid to the RFP submitted by Bidders;
- 5.4 “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;
- 5.5 “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;
- 5.6 “Black Equity” means the voting equity held by Black People from time to time;
- 5.7 “Black People” has the same meaning as ascribed to the Broad-Based Black Economic Empowerment Act, 2003, as amended .
- 5.8 “Black Woman” means African, Coloured and Indian South Africa Female citizen;
- 5.9 “Briefing Note” means any correspondence to Bidders issued by the PRASA;
- 5.10 “Business Day” means any day except a Saturday, Sunday or public holiday in South Africa;
- 5.11 “Bidders” means individuals, organisations or consortia that have been submitted responses to the RFP in respect of the tender;
- 5.12 “Consortium” means any group of persons or firms jointly submitting a Bid as Bid to this RFP and “Consortia” means more than one Consortium;
- 5.13 “Contractor” the successful Bidders who has signed a Contract with PRASA in terms of this RFP.
- 5.14 “Closing Date” means the closing date for submission of bids/ Proposals by Bidders which is **04 August 2023 @12H00**
- 5.15 “Project” means this project for **APPOINTMENT OF A SERVICE PROVIDER FOR THE REPLACEMENT OF OVERHEAD OPTIC FIBER CABLE FROM ROSSBURGH TO PINETOWN, MEREBANK TO CROSSMOOR, BRIARDENE TO STANGER , REUNION TO UMLAZI AND FROM UMKOMAAS TO KELSO STATIONS FOR PRASA RAIL IN KZN REGION**

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- 5.16 “RFP” means the Request for Proposals issued by PRASA for this tender; and
- 5.17 “Scope of Work” means the scope of work for this project as detailed out in the RFP technical specifications.

SECTION 1

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**].

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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 14 July 2023
ISSUE DATE	14 July 2023
COLLECTION DATE DEADLINE (not applicable)	
BRIEFING SESSION	COMPULSORY 24 July 2023 @10H00
CLOSING DATE	04 August 2023@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.

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CLOSING DATE FOR QUESTIONS	01 August 2023@16H00
CLOSING DATE FOR RESPONSES	02 August 2023@16H00
CONTACT PERSON	Nomfundo.Zantsi@prasa.com

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

2 FORMAL BRIEFING

A compulsory/non-compulsory pre-proposal RFP briefing will be conducted at PRASA RAIL KZN, 65 Masablalala Yengwa Avenue, Greyville, Durban Station on the **24 July 2023 @10H00**. [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 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 Register.

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 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.

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

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

4 PROPOSAL SUBMISSION OF RFP RESPONSE

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

The Secretariat

RFP No:

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Closing date and time:	04 AUGUST 2023 @12H00
Closing address	PRASA RAIL KZN, 65 Masabalala Yengwa Avenue, Greyville, Durban Station, Roof Level Entrance

5 DELIVERY INSTRUCTION FOR RFP

Delivery of Bid

The Bid envelopes should be deposited in the **PRASA tender box No. 05** which is located at the main entrance of the PRASA HOUSE and should be addressed as follows:

THE SECRETARIAT
PRASA RAIL KZN
65 MASABALALA YENGWA AVENUE
GREYVILLE
DURBAN STATION

5.1 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.

6 COMMUNICATION

6.1 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 Nomfundo.Zantsi@prasa.com before or on **01 August 2023 @16H00**, substantially in the form set out in **Annexure 4** hereto.

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6.2 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.

6.3 After the closing date of the RFP, a Respondent may only communicate in writing with the Bid Secretariat, at telephone number 031 8130138, email Nomfundo.Zantsi@prasa.com on any matter relating to its RFP Proposal.

6.4 Respondents are to note that changes to its submission will not be considered after the closing date.

6.5 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.

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

7.6.1 Bid/Tender Description

7.6.2 Bid/Tender Reference Number

7.6.3 Closing date of Bid/Tender

7.6.4 Supplier Name;

7.6.5 Supplier Contact details

7.6.6 The detailed compliant

7 CONFIDENTIALITY

7.1 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

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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.

7.2 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.

8 INSTRUCTIONS FOR COMPLETING THE RFP

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

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

Volume 1 (Envelop 1/Package 1)

- **Part A:** Mandatory Requirements Response

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

Volume 2 (Envelop 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 envelop 2/package 2.

8.3 Bidders must submit 1 original response and may submit copies and an electronic version which must be contained in a Memory Card/External hard drive etc clearly marked in the Bidders name. PRASA reserves the right to consider information provided in all formats irrespective the format i.e original/copy/electronic.

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- 8.4 Bidders should ensure that their response to the RFP is in accordance with the structure of this document.
- 8.5 Where Bidders are required to sign forms they are required to do so using preferably black ink pen.
- 8.6 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.
- 8.7 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.
- 8.8 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.
- 8.9 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.
- 8.10 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.
- 8.11 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.
- 8.12 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

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applied in this RFP and should clearly indicate its interpretation of any differing terminology applied.

- 8.13 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.
- 8.14 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.
- 8.15 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.
- 8.16 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.**

9 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
Bid issue date	14 July 2023
Briefing Session for Bidders	24 July 2023@10H00
Closing date for Questions	01 August 2023@16H00
Closing date for Responses	02 August 2023@16H00
Closing Date for Submission of final Bid	04 August 2023@12H00

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

10 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.

11 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:** _____.

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12 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) as indicated in paragraph 12 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 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:_____.

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13 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.

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SECTION 2

BACKGROUND OVERVIEW AND SCOPE REQUIREMENTS

1 INTRODUCTION AND BACKGROUND

Passenger Rail Agency of South Africa (“PRASA”) has identified the need to appoint a service provider for APPOINTMENT OF A SERVICE PROVIDER FOR THE REPLACEMENT OF OPTIC FIBER CABLE FORM ROSSBURGH TO PINETOWN, MEREBANK TO CROSSMOOR, BRIARDENE TO STANGER , REUNION TO UMLAZI STATIONS FOR PRASA RAIL KZN

OVERVIEW

PRASA KZN has an overhead fiber optic cable that is mainly used as primary means of network communication to our signalling system at CTC and relay rooms, IT services at stations and depot and electrical services at sub-stations. This overhead optic fiber cable current condition is damaged in various sections also has several joints that affect the integrity and reliability of its function which requires replacement in order to keep services reliable for business operations.

The Region is facing a great deal of vandalism and theft, and this has also affected the optic fiber cable. The current overhead cable is damaged from Rossburgh station to Pinetown station, Briardene Station to Stanger Station, Merebank Station to Crossmoor Station, Reunion to Umlazi Station and Umkomaas Station to Kelso Station.

- 1.1 PRASA must receive reduced cost of acquisition and improved service benefits resulting from the Service Provider’s economies of scale and streamlined service processes.
- 1.2 PRASA must achieve appropriate availability that meets user needs while reducing costs for both PRASA and the chosen Service Provider(s).
- 1.3 PRASA must receive proactive improvements from the Service Provider with respect to provision of Services and related processes.
- 1.4 PRASA’s overall competitive advantage must be strengthened by the chosen Service Provider’s leading edge technology and service delivery systems.
- 1.5 PRASA end users must be able to rely on the chosen Service Provider’s personnel for service enquiries, recommendations and substitutions.

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1.6 PRASA must reduce costs by streamlining its acquisition of Services, including managed service processes on a Group basis.

2 KEY OBJECTIVES OF THE RFP

This RFP has been prepared for the following purposes:

2.1 TO SET OUT THE RULES OF PARTICIPATION IN THE BID PROCESS REFERRED TO IN THIS RFP.

2.2 TO DISSEMINATE INFORMATION ON THE PROJECT CONTEMPLATED IN THIS RFP.

2.3 TO GIVE GUIDANCE TO BIDDERS ON THE PREPARATION OF THEIR RFP BIDS.

2.4 TO GATHER INFORMATION FROM BIDDERS THAT IS VERIFIABLE AND CAN BE EVALUATED FOR THE PURPOSES OF APPOINTING A SUCCESSFUL BIDDER.

2.5 TO ENABLE PRASA TO SELECT A SUCCESSFUL BIDDER THAT IS:

- a) technically qualified and meet the empowerment criteria described in this RFP;
- b) Carry all the obligations of the Contract.

3 SCOPE OF WORK

4. SCOPE OF THE DESIRED SOLUTION

The scope of the work is to restore the optic fiber cable for the purpose of recovering all telecommunication service

PROJECT BENEFITS TO PRASA

This project will assist in ensuring that there is enough capacity and availability of all the telecommunication serves in these sections. It will minimise train delays and provide a fair, safe and reliable service to customers.

4.1 SCOPE OF WORK AND AREAS OF FOCUS

SCOPE OF WORKS

- To supply and install single mode fiber cable to various PRASA buildings in KZN region,
- To supply and install all accessories eg brackets, dead ends , cabinets dome joints and tension support.

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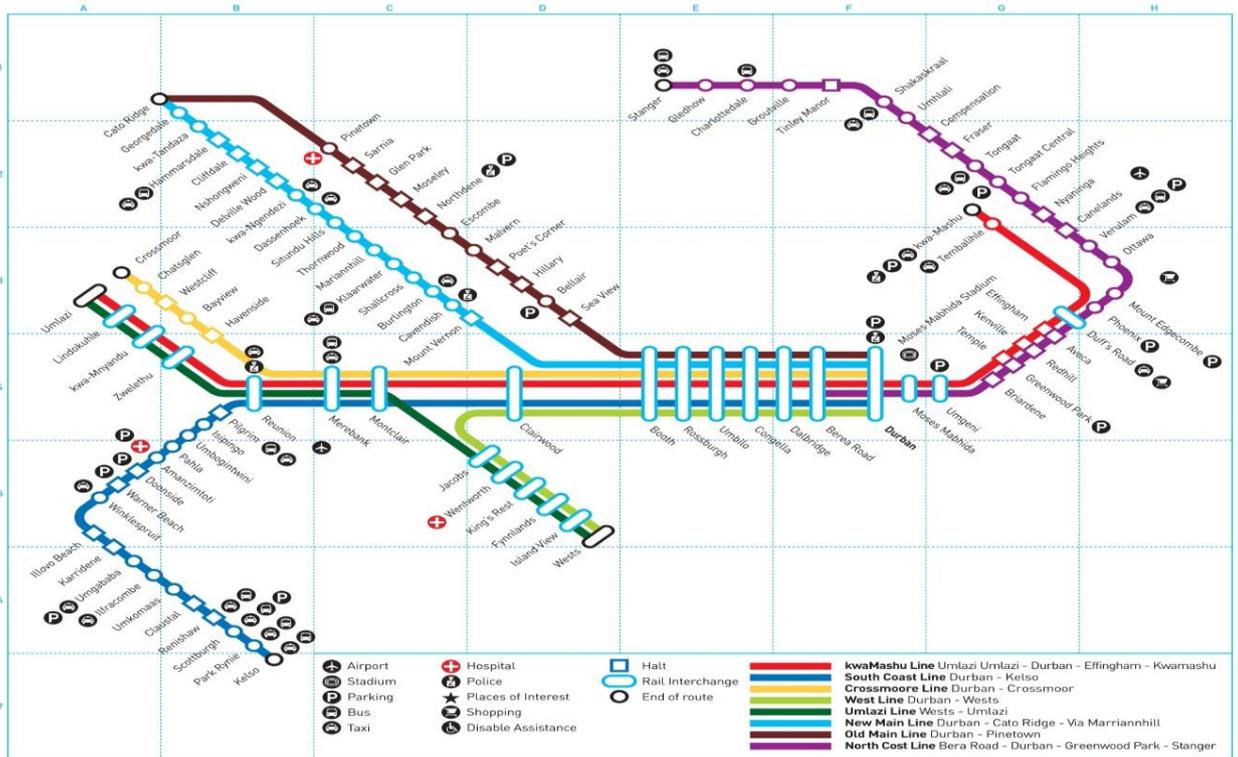


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4.2 TARGETED AREA BY THIS PROJECT

This project is targeting the following areas:

- Rossburgh to Pinetown
- MerEBank to Crossmoor
- Briardene to Stanger
- Reunion to Umlazi
- Umkomaas to Kelso Station



4.3 EXTENT AND COVERAGE OF THE PROPOSED PROJECT

- This project covers the stations, relay room, substation, and depots within the highlighted sections.

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Table 2: Rossburgh to Pinetown

OVERHEAD FIBRE 48CORE	NO. STATIONS	DISTANCE
ROSSBURGH TO PINETOWN		
ROSSBURGH TO SEAVIEW	3	3,5KM
SEAVIEW TO BELLAIR	2	2,5KM
BELLAIR TO HILLARY	2	2,5KM
HILLARY TO POET'S CORNER	2	2,5KM
POET'S CORNER TO MALVERN	2	2KM
MALVERN TO ESCOMBE	2	3KM
ESCOMBE TO NORTHDENE	2	3,5KM
NORTHDENE TO MOSELEY	2	2,5KM
MOSELEY TO GLEN PARK	2	1,5KM
GLEN PARK TO SARNIA	2	2,5KM
SARNIA TO PINETOWN	2	3,5KM
TOTALS	23	35,5km

Table 3: Rossburgh to Pinetown

OVERHEAD FIBRE 12 CORE	NO. STATIONS/SUB-STATIONS/RELAY ROOM/BTS/MER/SER	DISTANCE
ROSSBURGH	9	3,5KM
SEAVIEW	0	0KM
BELLAIR	3	900M
HILLARY	2	900M
POET'S CORNER	0	0KM
MALVERN	4	1,7KM
ESCOMBE	2	700M
NORTHDENE	5	1,6KM
MOSELEY	0	0KM
GLEN PARK	0	0KM
SARNIA	2	400M
PINETOWN	5	1,8KM
	32	11,5 KM

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Table 4: Merebank to Crossmoor

OVERHEAD FIBRE 48CORE	NO. STATIONS	DISTANCE
MEREBANK TO CROSSMOOR		
MEREBANK TO HAVENSIDE	2	3,5KM
HAVENSIDE TO BAYVIEW	2	2,5KM
BAYVIEW TO WESTCLIFF	2	2,5KM
WESTCLIFF TO CHATSGLEN	2	2,5KM
CHATSGLEN TO CROSSMOOR	1	2,5KM
TOTALS	9	13,5km

Table 5: Merebank to Crossmoor

OVERHEAD FIBRE 12 CORE	NO. STATIONS/SUB-STATIONS/RELAY ROOM/BTS	DISTANCE
MEREBANK TO CROSSMOOR		
MEREBANK	1	400M
HAVENSIDE	2	600M
BAYVIEW	1	200M
WESTCLIFF	1	500M
CHATSGLEN	2	900M
CROSSMOR	1	600M
TOTAL	8	3,2 KM

Table 6: Briardene to Stanger

OVERHEAD FIBRE 48CORE	NO. STATIONS	DISTANCE
BRIARDENE TO STANGER		
BRIARDENE TO GREENWOOD PARK	2	1,5KM
GREENWOOD PARK TO REDHILL	2	1,5KM
REDHILL TO AVOCA	2	3KM
AVOCA TO DUFFS ROAD	2	3,5KM
DUFFS ROAD TO PHOENIX	2	3,5KM
PHOENIX TO MOUNT EDGECOMBE	2	4KM
MOUNT EDGECOMBE TO OTTAWA	2	4KM
OTTAWA TO VERULAM	2	3KM
VERULAM TO CANELANDS	2	3KM
CANELANDS TO NYANINGA	2	2,5KM
NYANINGA TO FLAMINGO HEIGHTS	2	2,5KM
FLAMINGO HEIGHTS TO TONGAAT CENTRAL	2	3,5KM
TONGAAT CENTRAL TO TONGAAT	2	2,5KM
TONGAAT TO FRASER	2	4KM

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FRASER TO COMPENSATION	2	5,5KM
COMPENSATION TO UMHLALI	2	3,5KM
UMHLALI TO SHAKASKRAAL	2	3KM
SHAKASKRAAL TO TINLEY MANOR	2	5KM
TINLEY MANOR TO GROUTVILLE	2	3KM
GROUTVILLE TO CHARLOTTEDALE	2	3,5KM
CHARLOTTEDALE TO GLEDOW	2	3,5KM
GLEDHOW TO STANGER	2	4,5KM
TOTALS	44	73,5KM

Table 7: Briardene to Stanger

OVERHEAD FIBRE 12 CORE	NO. STATIONS/SUB-STATIONS/RELAY ROOM/BTS	DISTANCE
BRIARDENE TO STANGER		
BRIARDENE	0	0KM
GREENWOOD PARK	3	800M
REDHILL	4	1KM
AVOCA	3	700M
DUFFS ROAD	2	0,600KM
PHOENIX	1	0,250KM
MOUNT EDGECOMBE	1	0,350KM
OTTAWA	1	0,200KM
VERULAM	1	0,200KM
CANELANDS	1	0,200KM
NYANINGA	0	0KM
FLAMINGO HEIGHTS	1	0,200KM
TONGAAT CENTRAL	1	0,300KM
TONGAAT	1	0,350KM
FRASER	1	0,200KM
COMPENSATION	1	0,200KM
UMHLALI	1	0,200KM
SHAKASKRAAL	1	0,200KM
TINLEY MANOR	0	0KM
GROUTVILLE	1	0,200KM
CHARLOTTEDALE	1	0,200KM
GLEDHOW	1	0,200KM
STANGER	1	0KM
TOTALS	28	5,400KM

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OVERHEAD FIBRE 48CORE	NO. STATIONS/SUB-STATIONS/RELAY ROOM/BTS	DISTANCE
UMKOMAAS TO KELSO		
UMKOMAAS TO CLAUSTAL	2	5,5KM
CLAUSTAL TO RENISHAW	2	5KM
RENISHAW TO SCOTTBURGH	1	2KM
SCOTTBURGH TO PARK RYNIE	2	4,5KM
PARK RYNE TO KELSO	2	7KM
TOTALS	30	24km

Table 8: Umkomaas to Kelso

Table 9: Umkomaas to Kelso

OVERHEAD FIBRE 12 CORE	NO. STATIONS/SUB-STATIONS/RELAY ROOM/BTS/MER's	DISTANCE
UMKOMAAS TO KELSO		
UMKOMAAS	2	0,500KM
CLAUSTAL	2	0,500KM
RENISHAW	2	0,500KM
SCOTTBURGH	2	0,500KM
PARK RYNIE	2	0,750KM
KELSO	1	0,500KM
TOTAL	30	3,250 KM

Table 10: Reunion to Umlazi 48Core

OVERHEAD FIBRE 48 CORE	NO. STATIONS	DISTANCE
REUNION TO UMLAZI		
REUNION TO ZWELETHU	2	5KM
ZWELETHU TO KWAMNYANDU	2	3KM
KWAMNYANDU TO LINDOKUHLE	2	3M5KM
LINDOKUHLE TO UMLAZI	2	5KM
TOTAL	8	16 KM

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Table 11: Reunion to Umlazi

OVERHEAD FIBRE 12 CORE	NO. STATIONS/SUB-STATIONS/RELAY ROOM/BTS	DISTANCE
REUNION TO UMLAZI		
REUNION	0	0KM
ZWELETHU	3	1,5KM
KWAMNYANDU	3	1,2KM
LINDOKUHLE	3	1,5KM
UMLAZI	5	2,3KM
TOTAL	14	6,5 KM

4.4 OTHER RELATED PROJECTS

- None

5. SPECIFICATION OF THE WORK OR PRODUCTS OR SERVICES REQUIRED

The following specifications, instructions and documents shall form part of this contract:

- Basic specification
- Bill of quantities

This specification covers the requirements for the supply of the following optical fibre accessories and services to Prasa rail:

- Pigtailed (ruggedized and unruggedized).
- Mid-Coupler (Mid alignment sleeves).
- Patch cords with Connectors.
- ODF's (Optical distribution sub racks)
- ODF's (Optical distribution Main Frames)
- Splice protectors.
- Joint closures with splice organizers.

5.1 HEALTH AND SAFETY AND ENVIRONMENTAL

5.1.1 This specification covers the trenching of optic fiber cable and erection of aerial optical fiber cable on 3 kV DC overhead high-tension electrification (OHTE) masts for PRASA

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- KZN.
- 5.1.1 PRASA-KZN requires the installation and commissioning of Optic fiber cable in various railway corridors. Details of spurs and terminations, specific to each section, will be provided in Bill of Quantity (BOQ)
 - 5.1.2 Emphasis is placed on safety and safe working procedures and Respondents shall adhere to all instructions and procedures issued with this tender enquiry, especially the Written Safe Working Procedure PRC-00112
 - 5.1.3 The work must be planned to ensure minimal interruption to normal train services. Underground track crossings must be executed by means of the method specified.
 - 5.1.4 Respondents must note that many of the underground track crossing works may have to be conducted at off peak hours to reduce disruptions to train services. They must allow for significant overtime and weekend working.
 - 5.1.5 Maximum benefit must be gained from normal electrical and track occupations requested by other departments. It is therefore imperative that the PRASA KZN regional personnel attend the regular “occupation” meetings arranged by Train Operations.
 - 5.1.6 Respondents must take specific note of the safety aspects as depicted in Written Safe Work Procedure PRC-00112 as well as the safety arrangements and instructions attached there to and procedural compliance with the Occupational Health and Safety Act;85 of 1993 and regulations. A full Statement of Compliance must be submitted for WSWP PRC-00112, and this compliance document must be included in the Respondent’s Site Safety File.
 - 5.1.7 An Occupational Health and Safety Plan and Risk Assessment must be outlined in the tender document and submitted to the Project Manager by the successful Respondent before work commences. The Risk Assessment and Safety Plan must also be placed on the Respondent’s Site Safety File.
 - 5.1.8 Safety induction by PRASA KZN electrical officers is required before commencement of work. Minimum safety clearances from live electrical conductors and Safety Instructions and Guidelines will be taught and must be observed and exercised at all times.
 - 5.1.9 Technicians or any other employee working on installation of optic fiber near OHTE structures must be in the respondent employment during construction works. Employee must have “C” Green certificates, level 2 first aid and ladder working rules certificate.
 - 5.1.10 The Respondent must be equipped with all the required tools, safety equipment and PPE (Personal Protective Equipment) to effectively and safely carry out the Works.
 - 5.1.11 Respondents must note that PRASA-KZN will utilize one PRASA-KZN (Telecoms) supervisor / Project manager/inspector at any time during the contract period to inspect the progress and quality of the Respondent's work. This person is not available on a full-time basis (on site) and will make scheduled and random site visits.

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- 5.1.12 The successful Respondent must appoint a Site Supervisor for the duration of the contract. The Site Supervisor must be “in charge” on site for the full duration of the contract.
- 5.1.13 The Respondent's site supervisor must be issued with a site diary and PRASA-KZN will provide a site instruction book. These books must be kept updated at all times and copies handed over to the PRASA KZN Project Manager at progress meetings.
- 5.1.14 Respondents must take note that PRASA-KZN Perway or OHE Departments must approve and supervise all underground and overhead (boom or other) rail (track) crossings.
- 5.1.15 The contractor shall be responsible for the safety of personnel on site; a detailed safety plan shall therefore be submitted with the tender offer for evaluation. The following shall also form part of the safety plan:
- 5.1.15.1 Transportation of equipment and personnel.
 - 5.1.15.2 Transportation, storage, and handling of hazardous equipment
 - 5.1.15.3 The site access certificate shall only be issued (to the successful bidder) after the evaluation and approval of the safety file.
 - 5.1.15.4 The Contractor shall comply with all applicable Health and Safety legislation and PRASA's safety requirements adopted from time to time and instructed by the Project Manager / Technical Officer. Such compliance shall be entirely at the contractor's cost and shall be deemed to have been allowed for in the rates and prices in the contract.
 - 5.1.15.5 The Contractor shall report all incidents in writing to the Project Manager / Technical Officer. Any incident resulting in the death of or injury to any person on the works shall be reported within 15 minutes of its occurrence and any other incident shall be reported within 12 hours of its occurrence.
 - 5.1.15.6 The Contractor shall make necessary arrangements for sanitation, water and electricity at these relevant sites during the installation of the equipment.
 - 5.1.15.7 The successful Contractor is required to survey the railway section(s) awarded to him / her the contractor is not allowed to revise the original bill of quantities.
 - 5.1.15.8 The Contractor will test the fibers in the delivered cable drums and send these results to PRASA-KZN Project manager, alerting him if any traces differ from the supplier's records.
 - 5.1.15.9 The Contractor must install the OFC according to PRASA KZN specifications and Written Safe Working Procedures.
 - 5.1.15.10 The Contractor must test all the fibers of the OFC from ODF to ODF and submit the fiber traces to PRASA-KZN Project Manager/Telecom department.

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5.2 TRENCHING AND LAYING OF CABLE

- As per Annexure Trenching and cable laying specification attached

5.3 FIBER CABLE SPECIFICATION

5.3.1 CABLE SPECIFICATION AND CHARACTERISTICS

The cable shall be designed, manufactured and tested according to international standards as follow

ISO9001	Quality Management Systems
ISO 14001	Environmental Management Systems
IEC60793-1	Optical fiber Part 1: Generic specifications
IEC60793-2	Optical fiber Part 2: Product specifications
ITU-T G.650	Definition and test methods for the relevant parameters of single mode fibers
ITU-T G.652	Characteristics of a single-mode optical fiber cable
IEC60794-3-10	Outdoor cables - Family specification for duct and directly buried optical telecommunication cables
IEC60794-3-20	Outdoor cables - Family specification for optical self-supporting aerial telecommunication cables

Table 12: Cable international standards

- Optical Fiber characteristics (G.652D FIBER)

Table 13: Fiber Characteristics

CATEGORY	DESCRIPTION	SPECIFICATIONS	
		G.652D	
Optical Specifications	Attenuation vs. Wavelength	@ 1310 nm	≤0.35 dB/km
		@ 1550 nm	≤0.25 dB/km
		@ 1288 ~ 1339 nm	≤0.05 dB/km

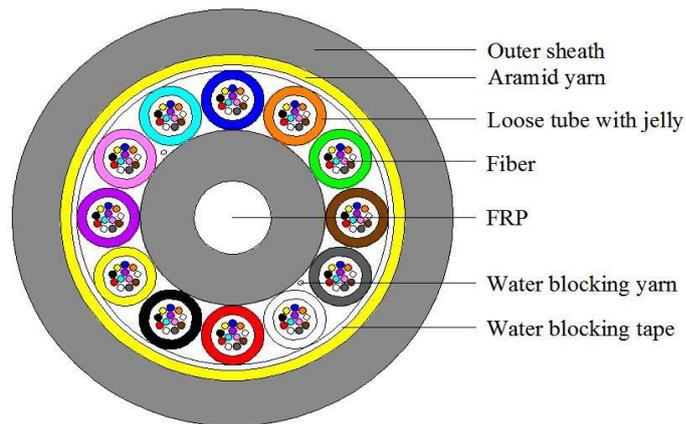
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		@ 1525 ~ 1575 nm	≤0.05 dB/km
	Zero Dispersion Wavelength (nm)		1300 ~ 1324
	Zero Dispersion Slope		≤0.092 ps/nm ² .km
	Dispersion	@ 1285~1330 nm	≤3.5 ps/nm.km
		@ 1550 nm	≤18 ps/nm.km
	Polarization Mode Dispersion (PMD)		≤0.2 ps/km ^{1/2}
	PMD Link Value		≤0.15 ps/km ^{1/2}
	Cable Cutoff Wavelength		≤1260 nm
	Macro bending Loss (100 turns; Ø60 nm) @1550 nm		≤0.05 dB
	(100 turns; Ø60 nm) @1625 nm		≤0.05 dB
	Mode Field Diameter	@ 1310 nm	9.3±0.5 μm
		@ 1550 nm	10.4±1.0 μm
Dimensional Specifications	Fiber Curl Radius		≥4.0 m
	Cladding Diameter		125±1.0 μm
	Mode Field Core/clad concentricity		≤0.6 μm

- Cable construction



Structure	Unit	Parameter			
Fiber count	fibers	12	24	48	96
Element	--	6	6	6	8

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Loose tube Diameter	mm	2.0	2.0	3.4/2.0	
Cores of per tube (no more)	--	6	8	12	
Weight	Kg/km	78	79	81	101
Span	ft	600	600	600	600
Tensile strength	N	2500	2500	2500	3000

Table 14: Mechanical characteristics

Table 15: Fiber Diameter

Impact strength (R=12.5mm)	--	0.45kg, 1m	
Torsion	--	±180°	
Crush Resistance	N/	1000	
Bending Radius	Dynamic	100mm	≥20×Cable Diameter
	Static	--	≥10×Cable Diameter
Operating Temperature	°C	-40~+70	

Table 16: Fibers and Tube color code

FIBERS AND TUBE COLOR CODE SCHEME:											
1	2	3	4	5	6	7	8	9	10	11	12
Blue	Orange	Green	Brown	Slate	White	Red	Black	Yellow	Violet	Pink	Aqua

5.3.2 PACKING AND DRUM

5.3.2.1 Cable marking

The cable is wound on a non-returnable wooden drum. Both ends of cable are securely fastened to drum and sealed with a shrinkable cap. The following information shall be marked on the outer sheath of the cable at an interval of about 1 meter.

- Cable type
- Number of optical fiber
- Manufacture name

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- Month/Year of Manufacture
- Cable length
- The sequential number of the cable length shall be marked on the outer sheath of the cable at an interval of 1 meter \pm 1%.

Drum marking

Each side of every wooden drum shall be permanently marked in a minimum of 3 cm high lettering with following:

- Manufacture name
- Cable type
- Cable length
- Number of fibers
- Cross and net weight of cable

5.3.2.2 Packing and shipping

The both end of each cable shall be sealed with suitable caps to prevent ingress of moisture, The factory length of the cable wound on a strong wooden drum.

5.4 DOME JOINT

5.4.1 Specification

Table 17: Dome joint spec

Type	DOME Type (Vertical Type)
Dimension	440mm x Φ 190mm
Number of Splice Trays	1~4 Pieces
Number of Inlet/Outlet Ports	4 Pieces
Diameter of Fiber Cable	Φ 5mm~ Φ 25mm
Max Capacity (Cores)	Bunchy:96F, Ribbon:144F
Operation Temperature	-40~65 (°C)
Storage Temperature	-40~85 (°C)

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5.4.2 4Ports/4Trays/144Fibers



Features

- Easy to assemble
- Protection level reaches IP66
- High Quality ABS body material ensure the durability
- Suitable for $\Phi 5\text{mm} \sim \Phi 38\text{mm}$ cables
- Aerial, underground, pipeline, man-holes, hand-holes assembling
- Adapt to the ambient temperature from -40°C to $+65^{\circ}\text{C}$

5.4.3 PIGTAIL AND PATCH-LEAD IDENTIFICATION

A unique serial number must be printed on a permanent affixed label and attached to each unit between 10 -20 cm from the boot of each connector. This label can also serve as proof of testing/QA.

Labelling must be done at both ends in the case of a duplex patch-lead.

The following information must accompany each assembly:

- Insertion loss @ 13 10 nm and 1550 nm (Single mode).
- Return loss @ 13 10 nm and 1550 nm (Single mode).
- Unique serial number.
- Product description.
- Order number.
- Date tested.
- Length of tail or patch-lead.
- Type of connector.

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- Type of fiber (e.g. 13101 1550 nm single modes).

The rubber boot of the connector can be blue for 0" flush-polished connectors and green for 8" angle polished connectors.

A unique identification mark (color or number) must be applied to either end of patched-leads to assist with identification of patched-leads in densely populated ODF's or termination cabinet.

The A and B leg of Duplex Patch lead must be identified.

5.4.4 DUST CAPS

Each E-2000 (or otherwise specified) connector or mid-coupler supplied must be fitted with an integrated dust cap to protect the end face from dust and scratches.

The E-2000 (or otherwise specified) dust cap must be spring loaded to ensure positive closure when not mated and constructed of a material to protect users from laser radiation.

Dust caps for other connectors and mid-couplers must comply with the requirements of this specification.

Dust caps must be color coded to differentiate between single mode and multi- mode units as well as angle and flush polished (refer to sub clause 8.3).

5.4.5 MID-COUPLER (BULKHEAD)

Single mode mid-couplers must have a ceramic alignment sleeve with a yellow insert for identification purposes.

Mid-coupler offered must have a self-secured clip that can easily connect onto the coupling plate supplied by the optical distribution frame or rack.

The color coding must be blue for 0" flush polished and green for 8" angle polished mid-couplers.

5.4.6 CONNECTORS

This specification generally specifies the (angle polished connector) APC E2000 connectors unless otherwise specified.

Other types of connector's angle or flush polished may be required and the minimum requirement is conformance to this specification.

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All connectors must consist of a ceramic ferrule and strain relief boot. Other materials will be considered but comprehensive technical information and test results will be required.

Isopropyl alcohol together with lint free tissue will be used for cleaning connectors. Assemblies must be inert to cleaning with this fluid.

5.4.7 SPLICE PROTECTORS

Heat crimping type

- Splice protectors must be manufactured from a durable crimping material.
- It must have a non-corrosive material insert for strengthening purposes.
- The length of splice protectors offered must be 60 mm.
- All splice protectors offered must have a crimping temperature range of 210 °C ±10 °C.

5.5 RACK CABINET – 19U TYPE

The 19-inch stackable ODF sub-rack must have a combined splicing, termination and storage function with a capacity for the termination, cross-connecting, store excess fiber and patching of minimum 24 fibers.

Each unit must be easily accessible and easy to terminate and patch fibers.

Each unit must have a maximum height of 3U and must include a patch- lead routing scheme.

The unit must be designed to optimize accessibility allowing minimum movement of pigtailed and fibers when the unit is opened and closed while connected systems remain fully operational.

The unit must be designed with a front panel for the protection of optical fiber patch-leads.

The unit must be designed to organize excess patching cords with the option for distribution via the front or rear of the rack.

The unit must be supplied with standard accessories -splice organizers, connector plate, cable clamp, fan-out device and transportation tubes.

5.6 SUSPENSION CABLE BRACKET

5.6.1 SUSPENSION BRACKET (DC Type Fittings)

These fittings are specifically designed for 3Kva DC (Direct Current) electrical traction installations and are installed on mast poles +/- 6m above ground after which the cable is suspended.

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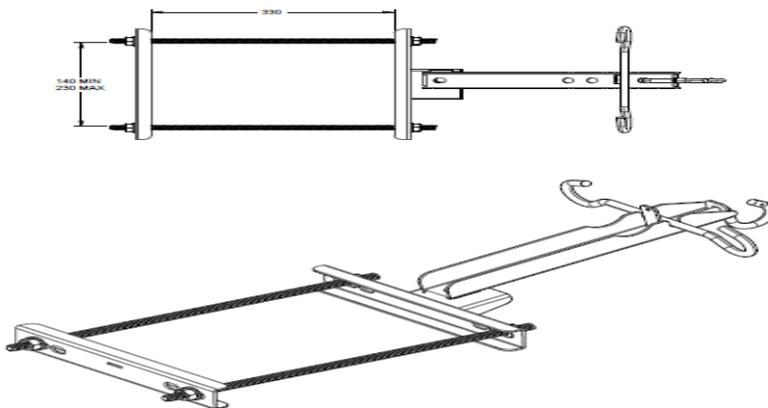
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It is completely universal and by means of a 19mm spanner adjustable and able to be fitted to the following mast poles: universal columns masts (I Beam Masts), width sizes: 153mm, 185mm, 205mm, as well as left and right configured rail type masts 105mm and 125mm. Occasionally 215mm, 225mm and 250mm I Beam masts are encountered that will necessitate the fitting to be fitted with a longer adjustable slide arm. (This requirement to be specified when ordering fittings.)

Please note that AC Type fittings can also be utilized on DC Sections, but it is not recommended in urban areas where the electrical traction systems are more complex and usually consist of a mixture of Rail and I Beam masts as well as odd spacing between masts.

- **BELOW IS THE SUSPENSION DRAWING WITH THE DIMENSION.**

DIMENSION: Height = 140Min / 250 Max
Length = 330



5.6.1 DEAD END DRAWINGS AND DIAMETER

- Diameter: 11,7mm to 12,8mm

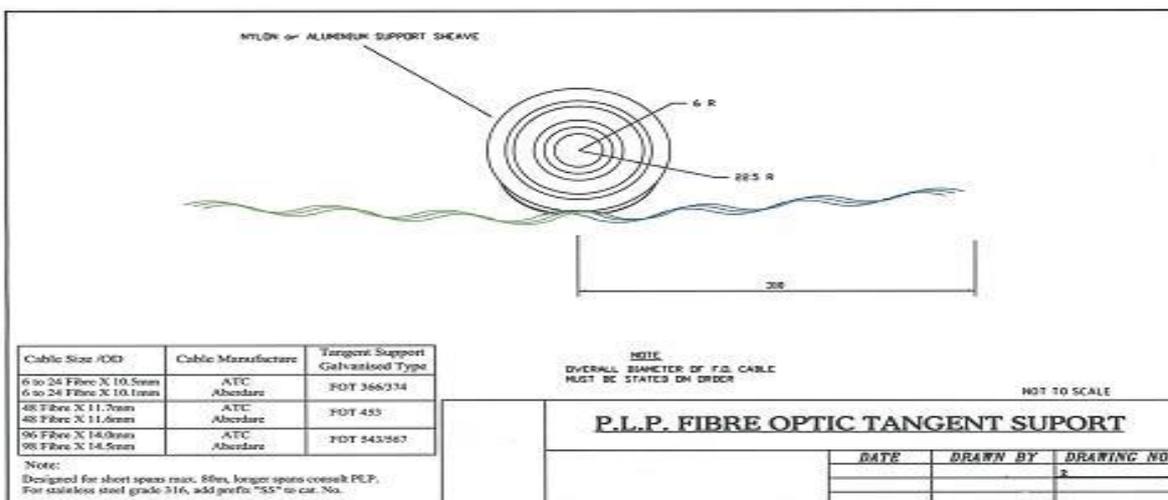
Cable Size /ØD	Cable Manufacture	Dead End Galvanized Type
6 to 24 Fibre X 10.5mm 6 to 24 Fibre X 10.1mm	ATC /Aberdare	FDE 325/414
48 Fibre X 11.7mm 48 Fibre X 11.6mm	ATC /Aberdare	FDE 400/505
96 Fibre X 14.6mm 96 Fibre X 14.5mm	ATC /Aberdare	FDE 551/550

Note:
Designed for sheet space max. 800, longer spans consult P.L.P.
For stainless steel grade 316, add prefix "SS" to cat. No.

P.L.P. DEAD END			
DATE	DRAWN BY	DRAWING NO.	

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5.6.2 TENSION SUPPORT



6 SURVEY

- 6.1 Aerial optical fiber cable should normally be ordered in lengths of 2 000 or 4 000 meters. Shorter lengths can be provided on request. It is however advisable not to exceed 4 000 meters due to excessive drag under installation conditions.
- 6.2 When a route is to be measured for the purpose of erecting an aerial optic fiber cable, a measuring wheel should be used for accuracy. It should therefore be determined in advance on which mast a joint/splice will be required.
- 6.3 Specific lengths should be determined as follows:
 - 6.3.1 Start measuring at the termination cabinet up to the 2 000 / 4 000-meter mark. At the 2 000 / 4 000 meters mark, a suitable mast should be selected at which a joint could be made without any obstructions. The selected mast must be situated in a position where it accessible for splicing. A standard length of slack on either end must be allowed for termination and splicing of the fibers at ground level.
 - 6.3.2 Add at least 35meters to every length of cable to allow for splicing and add additional for the sag of the cable per span.
 - 6.3.3 False terminations must be placed at intervals of less than 500 meters.
 - 6.3.4 The mast must also be identified for the construction team exactly where the first length of cable ends and the second length starts. These masts are to be indicated on the

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survey sheets. The whole route must be measured and marked in this way. Masts where joints are to be made must not have any other traction equipment on it.

- 6.3.5 It should be noted that no additional splices, without the approval of the Project Manager would be allowed. That means that the cable shall be fed through any obstacle that may occur.
- 6.3.6 Care should also be taken, when measuring, to avoid short lengths of cable at the end of the routes, thus eliminating extra splices in the cable. Transmission losses must be reduced to a minimum.
- 6.3.7 The final route selected must avoid an excessive number of track crossings. It is important that the correct side of the track be selected beforehand. This should normally be where the service road runs, for ease of access and added fire protection.
- 6.3.8 Care must be taken at platforms, bridges and footbridges to keep the cable clear from pedestrians in order to avoid tampering and malicious damage to the cable.
- 6.3.9 The positioning of the optical fiber cable on 3 kV DC, 25 kV and 50 kV AC electrified structures must be selected to avoid placing the cable in strong electric fields. Surveyors must specifically adhere to the minimum clearances required.
- 6.3.9.1 Possible damage by grass and bush fires, e.g. on the embankments of cuttings, must be taken into account during the survey. All potential grass and bush fire hazards must be indicated on the survey. An alternative route must be indicated on the survey on how to avoid these potential fire hazards.
- 6.3.10 All positions where intermediate poles are required must be indicated on the survey drawings.
- 6.3.11 On completion of the work, "As Build" route drawings must be submitted, as per the survey sheets and as stipulated in the Main Specification, which must indicate the following:
- 6.3.11.1 Joint numbers and traction mast numbers.
- 6.3.11.2 Amount of cable slack at joints, underground deviations and at other intermediate points.
- 6.3.11.3 The co-ordinates of all joints, terminations and significant changes in direction must be recorded via GPS. These co-ordinates must be shown on the "As Built" drawings and must be provided in electronic format (Auto Cad or Micro stations) in order for it to be loaded into Metrorail KZN G.I.S Database.

7 INSTALLATION

- 7.1 On receipt of the cable, the following steps must be taken:

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- 7.1.1 Ensure that the cable or drums are not damaged.
- 7.1.2 Record drum numbers and lengths and verify cable lengths.
- 7.1.3 Arrange drums according to the survey to ensure that the relative lengths are erected in the correct order.
- 7.1.4 Ensure that all pre-testing has been completed and approved.
- 7.2 Preparation must be carried out on the route on which the cable is to be erected. Trees, bushes and grass must be cut so that work can be carried out without any obstacles by the contractor. The aerial route must be at least 3 meters clear of bush and trees within the PRASA-KZN rail reserve. Where excessive trees or bush, which could become a fire hazard are encountered, an alternative route must be chosen in accordance with the PRASA-KZN Project Manager's approval and the availability of alternative land within the PRASA-KZN rail reserve. Tree branches overhanging the cable must be removed.
- 7.3 It is recommended that a 7 mm nylon ski-rope of $\pm 2\ 000$ meters shall be obtained to haul the cable through the special manufactured pulleys.
- 7.4 The rope must be fed through the pulleys before hauling commences. Equipment such as a mechanical fuse and swivel must be inserted between the end of the cable and the hauling rope to prevent the cable from twisting during installation. A grip on or Kellems Grip must be used to pull the fiber optic cable. The correct size grip for the particular cable must be used. If aramid yarn is a part of the cable structure, it must be tied to the grip to further distribute the pulling force between the hauling rope and the cable.
- 7.5 The mechanical fuse must be examined after every few hauls. If the fuse has worn more than halfway it must be replaced with special copper fuse wire.
- 7.6 Erection of Cable on AC/DC Traction Masts:
 - 7.6.1 Fit the universal multipurpose bracket at $\pm 1,5$ meters above ground level.
 - 7.6.2 Fit a pulley or sling on every suspension bracket for a distance equivalent to the length of the cable to be hauled in.
 - 7.6.3 Feed the hauling rope through the pulleys or slings. Two hauling ropes may be used to expedite the hauling i.e. while the one is used for hauling, the other can be fed through the pulleys of the next section.
 - 7.6.4 Place the drum with cable at least one span length of 70 meters away from the mast where the cable will pass through the first pulley. This would prevent the cable from bending too much while being hauled. Under no circumstances should the cable be bent excessively. This drum should be placed on cable jacks with an axle. The rate of the hauling should be controlled from this point.
 - 7.6.5 The cable must be fed off the drum according to the speed with which the cable is

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hauled. Care must be taken that the cable is not tightening between the drum and the first pulley. A constant tension must be maintained on the cable by braking of the cable drum when necessary. Tension must be maintained to avoid contact with trains. Hauling should be avoided on very windy days.

- 7.6.6 The hauling team must haul the cable evenly and slowly to prevent the cable from jerking which can result in broken fibers.
- 7.6.7 Good communication between persons at the drum, alongside the cable end and the hauling team, is absolutely essential and must be available at all times. If the communication breaks down, the hauling must be stopped immediately until such time that communication had been re-established.
- 7.6.8 When hauling the cable, a person with a two-way radio must walk alongside the cable-end to ensure that the cable is not twisting with the rope, especially at angle-masts where the possibility of twisting is great. When the cable starts twisting, hauling must be stopped immediately. The cause of the problem must then be pinpointed and rectified.
- 7.6.9 The person walking at the hauling end must ensure the best route for the cable, avoiding the cable chafing against stays or other obstacles.
- 7.6.10 Less cable slack is required for AC-type installations, but sufficient slack must be left for splicing purposes.
- 7.6.11 Once tensioning and splicing of the cable is completed, the suspension bracket shall be moved up the mast in at least three steps with various lengths of installation tools to the correct position on the mast. Note that approved non-conductive tools must be used and installation teams must always avoid touching any high voltage carrying infrastructure.
- 7.6.12 The splicing team must strive to keep-up with the hauling team. If this is not the case, additional labour will be required to lower and raise the cable for splicing purposes.

7.7 TENSIONING

The pulling tension for the particular type of cable used is specified in kg/N.

- 7.7.1 A termination bracket and fitting (dead end) must be installed at the beginning of each length. Where only false terminations occur in a cable section the cable must be tensioned sequentially for every false termination section.
- 7.7.2 The cable shall be tensioned by means of an approved device and the tension shall be continually monitored not to exceed the parameters provided by the cable manufacturer.
- 7.7.3 On sections with a number of angle masts, it may be required to tension the cable over shorter distances. In this case care should be taken not to damage the cable at the

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intermediate tensioning points.

- 7.7.4 Sufficient time shall be allowed for the tensioned cable to settle. This time is when there is no longer a movement on the tensioning scale. When the correct tension has been achieved, the suspension and termination fittings shall be fitted.
- 7.7.5 The cable must be marked at all anchor points in an approved manner to indicate possible slippage.
- 7.7.6 The site supervisor must record the final stringing tensions and terminated span lengths on a control sheet. The site supervisor must submit these sheets with the site diaries for scrutiny and retention.

7.8 Cable Slack

- 7.8.1 At positions where it may be required to accumulate cable slack due to the nature of the route, this slack must always be coiled in a figure of eight to avoid twisting of the cable. In muddy conditions the figure of eight must be done on a ground sheet to avoid soiling of the cable.
- 7.8.2 After the hauling process, sufficient slack must be left for splicing purposes. The cable must reach ground level plus 15 meters plus another 15 meters on the hauling end, which must be cut off by the installation team. The installer must ensure that this length is cut off during the installation process.
- 7.8.3 The slack shall be coiled in two separate coils of minimum 500 mm diameter, tied with UV stabilized cable ties at four positions and secured at the top of the mast.
- 7.8.4 Care shall be taken not to twist the cable when coiling the cable slack.
- 7.8.5 A small amount of slack, between 250 and 300 mm (sag) must be allowed at false termination.

8 SAFETY PRECAUTIONS

- 8.1 Due to the proximity of live wires the installer must ensure that his employees installing the cable on the masts obtain a Category C Green certificate from the PRASA KZN Project Manager in conjunction with Esselen Park training center or any PRASA KZN accredited institute before any work can be carried out on the masts.
- 8.2 The contractor's employees must be trained for competence and understanding of the basic electrical safety requirements. The certificate obtained will not be transferable. The cost of the training will be borne by the Installer or as stipulated in the contract document.
- 8.3 The installer and his employees installing the cable must be fully conversant with the Electrical Safety Instructions and the Transnet specification E.7/1 and E.4E.

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- 8.4 No work within 900 mm from live. DC equipment and transmission lines, and 1200 mm from 11 kV AC live equipment. Preferably this clearance should be as great as possible.
- 8.5 In all instances where the safety of workmen is jeopardized, electrical and/or track occupations must be requested. The PRASA-KZN rail representative in accordance with the PRASA-KZN Project Manager will arrange these occupations. Notification is however required 21 days in advance.
- 8.6 Under bridges where live cross span wires are involved, at make off masts and where the live conductors approach the optical fiber cable very closely, a standard warning board must be fitted. Electrical personnel must be approached to arrange for a work permit to fit the cable and warning boards.
- 8.7 No attempt must be made to install the cable in windy conditions, especially when the sag (before tensioning) is blown in the direction of the track. Supervisors must use their discretion in this regard.
- 8.8 Tenderers must note that no metal ladders will be allowed but only wooden or fiberglass ladders.
- 8.9 Tenderers must note that the AC bracket installation tool (stick) may not be used in wet or rainy conditions.
- 8.10 Hard hats, protective clothing and safety belts must be worn whilst working on masts and other structures.
- 8.11 Optical fibers are extremely thin and can easily penetrate skin and eyes. Any off cuts or bare pieces of fiber must be properly disposed of. Optical fibers are categorized as hazardous materials and require special disposal measures.
- 8.12 Care must be taken when testing as the laser in test equipment produces an invisible light, which can cause permanent eye damage. All fibers should be treated as "live".
- 8.13 All personnel involved in the installation and testing must be made aware of the above safety aspects.
- 8.14 A Health and Safety Agreement shall be entered into between PRASA KZN and the successful tenderer. The contractor will also comply with the PRASA-KZN rail regions Health and Safety standards and will be represented on the PRASA-KZN rail regions Health and Safety meeting.
- 8.15 The contractor must comply with the "Standard Safety Work Procedures for the Installation of Optical Fiber Cable" SANS 10340 (latest version). This document must also be attached to the Health and Safety Agreement.
- 8.16 The Contractor must comply with the "Protection of Construction Workers on or near Railway Lines". This document must be read in conjunction with this specification. (SPK7/1)

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9 **SPLICING, TERMINATION AND TESTING**

- 9.1 Splicing can commence after approval is obtained from the PRASA KZN Project Manager.
- 9.2 All splicing and testing must be done inside a vehicle or a dust free shelter. Cleanliness is essential to make satisfactory splices.
- 9.3 A competent team using an optical fiber fusion splicer in compliance with the manufacturer of the said device (with the stipulated software) must carry out fusion splicing and terminations. Tenderers must state the competence and experience of the personnel envisaged to do the fusion splicing. Splicing must be carried out in accordance with procedures and instructions as stipulated by the cable and splice housing manufacturers.
- 9.4 The splicing team must be suitably equipped with all the necessary materials, accessories and equipment to carry out the fusion splicing. The splice losses expected during installation must be like those obtained during the drum tests which should be recorded on a spreadsheet for reference purposes. This spreadsheet should be attached to the test certificate when handed to the Project Manager.
- 9.5 Splicing must comply with the splice housing manufacturer's specifications i.e. securing of the strength member and Kevlar, slack inside the splice closure and protection of the individual splices.
- 9.6 The individual fibers must be numbered or easily identified inside the splice organizer. The up and down ends of the cable and loose tubes must be identified.
- 9.7 On completion of the individual splices the organizer must be placed in approved hermetically sealed splice housing. The contractor will supply these splice housings with an approved manufacturer as specified in the main specification. And with the approval of the PRASA KZN Project Manager.
- 9.8 The splicer must ensure that the silica-gel packet, supplied with the dome closure, be opened and inserted in the dome closure before closure of the dome.
- 9.9 The splice housing must be fixed to the mast and numbered in an approved manner with sufficient cable slack.
- 9.10 Termination of the fibers must be carried out on approved connector's pigtailed and termination cabinets as specified in the Main Specification. The contractor will supply these items with an approved manufacturer specified in the main specification. And with the approval of the PRASA KZN Project Manager.
- 9.11 After the complete installation each individual fiber must be tested from both fiber ends. Testing must be carried out in conjunction with Projects personnel from PRASA KZN. The test to be conducted shall be:

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9.11.1 Fiber continuity.

9.11.2 Overall attenuation (loss) - tested by means of optical power source and power meter.

9.11.3 Splice Loss - for each individual splice.

9.11.4 Attenuation profile - tested by means of OTDR.

9.11.5 The Project Manager reserves the right to carry out individual tests should this be required on any length of installed fiber during any phase of the construction. The installer shall be required to witness these tests.

9.11.6 When a splice is completed and fitted into a joint enclosure, the cable slack (30 meters in total) must be coiled into a suitable slack box, which is fitted to an arm on the pole or coiled around suitable brackets fitted on the pole.

9.11.7 When coiling the slack after the joint has been completed; it must be coiled before the joint is secured to the pole/arm. Start coiling by rolling the slack with the joint as the leading end (roll cable like a wheel). This will ensure that no twists are put in the cable which will result in the fibers being damaged.

9.11.8 When completed place the coil into the slack box and secure the joint closure at a suitable position on the arm/pole.

10 VEGETATION CUTTING

10.1 Cut vegetation for 1m wide strip (500mm on each side).

11 FINAL ACCEPTANCE

11.1 Each fiber must be tested before it is introduced as directed and with the approval of the PRASA-KZN Project Manager. The purpose of these tests is to ensure that the fibers are acceptable for use in the PRASA-KZN network.

11.2 An approved OPTICAL TIME DOMAIN REFLECTOMETER (OTDR) in compliance with the cable manufacturer with the stipulated software must be used for the testing and measuring of the fibers. Records of all the results must be kept for reference purposes.

11.3 Tests must be carried out at both 1310 nm and 1550 nm wavelengths. These test results must be forwarded to The PRASA KZN Project Manager for scrutiny and approval.

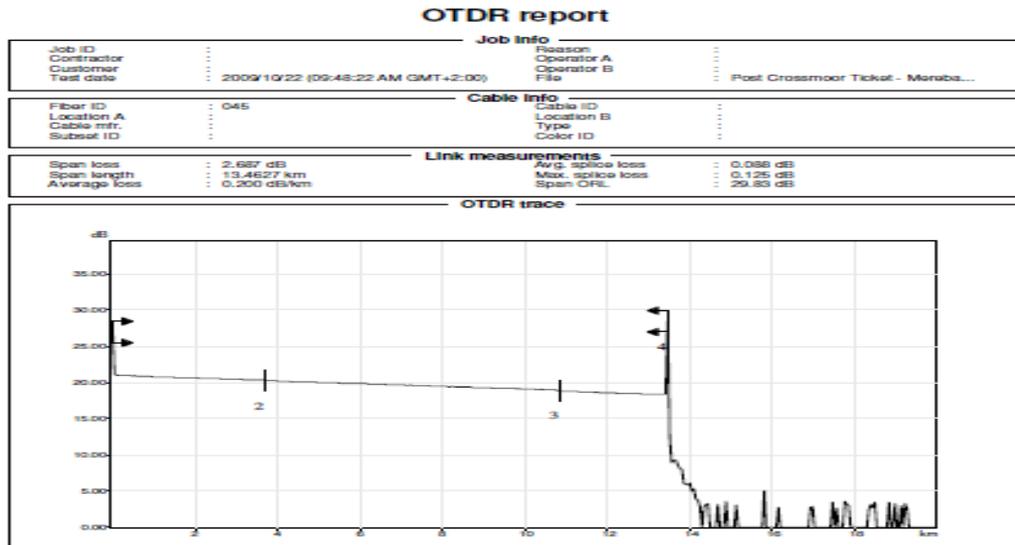
12 DIAGRAMS

12.1 TYPICAL OTDR REPORT

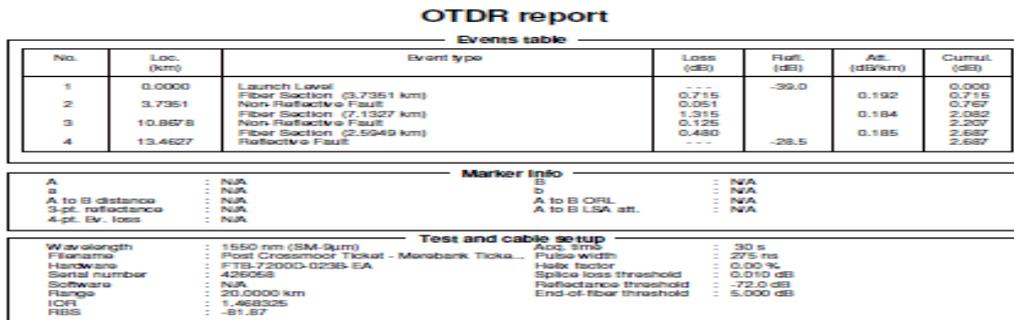
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12.2 TYPICAL OTDR Report



13 ACCEPTANCE OF WORK

Only when the contractor is satisfied that the standards have been obtained shall he/she notify the (PRASA) Technical Officer, in writing, that the replacement of overhead optic fiber at Rossburgh to Pinetown, Merebank to Crossmoor, Briardene to Stanger and Umkomaas to Kelso is within the specified standards and tolerances.

14 PROTECTION

- Two flagmen should always be present when working next to the railway line.
- Track master should always be present when trenching next and under railway line
- A safety file must always be on site with all relevant documents
- All valid certificates for the flagmen must be submitted together with the quotations as per train working rules

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- e. Work can only be carried with a valid occupation notice which will be supplied by PRASA
- f. Basic induction will be presented by a PRASA employee.

15 SUB-CONTRACTING

The successful bidder will be required to promote supplier development through sub-contracting or forming of Joint Ventures (JV) for a minimum of 30% of the value of the contract, at contracting stage, to one or more designated suppliers.

16 DURATION

The replacement of overhead optic fiber cable from Rossburgh to Pinetown, Merebank to Crossmoor Briardene to Stanger and Umkomaas to Kelso station should be completed in a period of 7 months after the award.

17 WORK PERMIT

All occupations and work permits will be arranged by PRASA Telecoms technician and the bidder to ensure all safety limits of the permit are understood before signing the permit

18 GUARANTEE

- a. The workmanship must be guaranteed for a period of 6 month starting on the date of handover
- b. If, within the guaranteed period mentioned above, any defect's should be found which, in the opinion of PRASA, are due to improper or faulty (fiber, installation, Splicing, design and/or methods of manufacture, and/or from any other fault or neglect on the part of the Contractor or his/her sub-contractor/s, then notwithstanding any superintendence, inspection, approval or certificate that may previously have been carried out or given, or any payment that may have been made to the contractor on account of the supply, the Contractor shall immediately, at his own cost entirely, repair any defective parts or otherwise make good and remedy all such defects to the satisfaction of PRASA;
- c. In default of compliance by the Contractor with this obligation, PRASA may repair and replace the defective parts or otherwise make good and remedy all such defects or may engage any other person to repair the overhead optic fiber or any portion thereof and the contractor shall be liable to PRASA for all cost and expenses incurred by it in doing so.

19 PROGRAM OF WORKS

Table 18: Key Milestones

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Activity	Duration (Week Days)	Start Date	End Date
Bid Specification Committee	2 weeks		
Approval of Bid Document	2 Days		
Bid Advertising	2 weeks		
Briefing Session	1 Day		
Bid Closing	1 Day		
Sitting of Bid Evaluation Committee	2 weeks		
Award	1 week		
Contract Finalisation, Loading and site establishment	1 week		
Lead time	150 Days		
Construction	150 Days		
Snag List	2 weeks		
Project Construction close-out phase	1 week		
Project End	1 week		

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4 EVALUATION METHODOLOGY

The evaluation of Bids will be based on the information contained in Bids received in RFP and, which may be further supplemented by presentations and clarification information provided, if required. All Bids shall be equally evaluated by various committees involved in the evaluation process in accordance with stated Evaluation Criteria. Procurement integrity and fairness, transparency, competitiveness and full accountability will at all times be paramount.

4.1 EVALUATION AND SCORING 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 may be disqualified.
Verify compliance	The Bids are checked to verify that the essential RFP requirements have been met. Non-compliant Bids may 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 70% , 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
Approval	Approval and notification of the final Bidder.

4.2 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

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following Evaluation Criteria depicted in Table 1 for the selection of the preferred bidder that shall execute construction work for the project.

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

Details of the stages outlined in table 1 above are presented in the following sections.

5 STAGE 1: COMPLIANCE REQUIREMENTS-

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

Stage 1A – Mandatory Requirements - (To be submitted in envelope 1)

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

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

No.	Description of requirement	
a)	Completion of ALL RFP documentation (includes ALL)	
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 (if applicable)	
d)	Bidders to fill and sign the closing /submission register on submission of tender documents.	

Stage 1B – Non Mandatory Requirements - (To be submitted in envelope 1)

If you do not submit/meet the following non- mandatory documents/requirements, PRASA may request the bidder to submit the information within five (5) working days.

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No.	Description of requirement	
a)	Letter of Good Standing: COID	
b)	Valid SARS Pin	
e)	CSD supplier registration number	

STAGE 2: TECHNICAL / FUNCTIONALITY REQUIREMENTS - (To be submitted in envelope 1)-

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

ITEM	CRITERIA	WEIGHT
1.1	Organisational Experience	40
1.2	Qualifications & Experience of Key personnel	40
1.3	Project Program (Work plan)	10
1.4.	Project Approach & Methodology	10
	TOTAL	100

Technical Evaluation Criteria

FUNCTIONAL EVALUATION CRITERIA

Details of the scoring methodology presented above are outlined in Table 4 below

CRITERIA	INDICATOR	WEIGHT (%)	SCORES
1.1 ORGANIZATIONAL EXPERIENCE	<p><i>(N.B. Provide for each successfully completed fiber project/s in the following sequence:</i></p> <p>1. Copy of an appointment letter(s) or Reference Letter(s), description of the project, Client name, Client contact (i.e., email and office number), contract value inclusive of VAT.</p> <p>2. Attach completion certificate(s) or Reference</p>	40	<p>Score 0: Completed project fiber below R1 000 000. / No submission / Irrelevant</p> <p>Score 1: Proof of Completed fiber project R1 000 000 to below R4 000 000</p> <p>Score 2: Proof of completed fiber project R 4 000 000 to below R6 000 000</p> <p>Score 3: Proof of completed fiber project R6 000 000 to below R8 000 000.</p> <p>Score 4: Proof of completed fiber project R8 000 000 to below R10 000 000.</p> <p>Score 5: Proof of completed fiber project R10 000 000 and above.</p>

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	<i>Letter(s) signed by client or letter from the client confirming successful completion of the project.</i>		
1.2 Key personnel	<p>Key Personnel Experience (based on Submitted CVs and certified copies of qualification of optic fiber.</p> <ul style="list-style-type: none"> • Fiber Optic Technician for optic fiber with a minimum of 3 years of experience in optic fiber installation, certified qualification on fiber optic accredited by SAQA <p><i>(N.B. Provide copies of original qualifications and certificates of professional bodies. The copies must be certified by commissioner of oath. The date on the stamp shall be three months or less, before the closing date of the tender. If the qualification has been awarded in other language either than English, please provide translation in English)</i></p>	40	<p>Detailed CVs of the Technicians to be used in completing the work for optic fiber network projects.</p> <ul style="list-style-type: none"> • Fiber Optic Technician <p>0: No information provided/incomplete submission/non-compliance</p> <p>1: Qualified fiber Technician with less than 1-year related experience. = 1 point</p> <p>2: Qualified fiber Technician equal/above 2 years but less than 3 years related experience = 2 points</p> <p>3: Qualified fiber Technician equal/above 3 years but less than 4 years related experience= 3 points</p> <p>4: Qualified fiber Technician equal/above 4years but less than 5 years related experience = 4 points</p> <p>5: Qualified fiber Technician equal/above 5 years and above related experience = 5 points</p>
1.3 PROJECT PROGRAM (WORK PLAN)	<i>(N.B. Provide project schedule in MS projects or similar that</i>		<p>Score will be allocated for MS Project Schedule or similar provided</p>

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	<p><i>meets the client's timeline requirements and the schedule to cover the following key Milestones:</i></p> <ol style="list-style-type: none"> 1. <i>Completion of safety file</i> 2. <i>Site Establishment</i> 3. <i>Procurement of material and all services</i> 4. <i>Actual construction activities.</i> 5. <i>Final works completion</i> 6. <i>Maximum project Duration of seven (07) Months</i> <p><i>The overall schedule should clearly indicate sequencing of activities with clear understanding of scope.</i></p>	10	<p>Score 0: No information provided</p> <p>Score 1: Inadequate/ unrelated project schedule provided aligned with the preferred duration of the project</p> <p>Score 2: Project schedule provided but no detailed activities indicated on the program aligned / less than the preferred duration of the project;</p> <p>Score 3: Project schedule provided with activities indicated on the program, aligned with the preferred duration of the project;</p> <p>Score 4: Project schedule provided with activities indicated on the program, aligned with the preferred duration of the project, showing the sequence of activities (i.e., Baseline and critical path);</p> <p>Score 5: Project schedule provided with activities indicated on the program, aligned with the preferred duration of the project, showing the sequence of activities (i.e., Baseline and critical path), clear understanding of the scope of work and site challenges addressed</p>
1.4 PROJECT APPROACH AND METHODOLOGY	<p><i>(N.B. The project methodology must be in line with the scope of work. Identify the risks associated with the project activities and mitigation measures. Furthermore, clearly show risks and mitigation measures of working on the railway reserve)</i></p> <p><i>Elements:</i></p> <ol style="list-style-type: none"> 1. <i>Identification of risks and mitigation,</i> 2. <i>Work breakdown of activities</i> 3. <i>Quality assurance</i> 4. <i>Health and Safety</i> 5. <i>Security</i> 	10	<p>Score will be allocated as follows:</p> <p>Score 0: No information provided</p> <p>Score 1: 1 element of the method statement</p> <p>Score 2: 2 elements of the method statement.</p> <p>Score 3: 3 elements of the method statement.</p> <p>Score 4: 4 elements of the method statement.</p> <p>Score 5: 5 elements of the method statement.</p>
TOTAL		100	

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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.

STAGE 3: PRICING AND SPECIFIC GOALS - (To be submitted in envelope 2)

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

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

The maximum points for this tender are allocated as follows:

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

FORMULAE FOR PROCUREMENT OF GOODS AND SERVICES

POINTS AWARDED FOR PRICE

THE 90/10 PREFERENCE POINT SYSTEMS

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

80/20

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

Where

Ps = Points scored for price of tender under consideration

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Pt = Price of tender under consideration

Pmin = Price of lowest acceptable tender

POINTS AWARDED FOR SPECIFIC GOALS

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

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

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

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

The specific goals allocated points in terms of this tender	Number of points allocated (80/20 system) (To be completed by the organ of state)	Number of points claimed (80/20 system) (To be completed by the tenderer)
Black Women Owned	5	
51 % Black Owned	5	
EME or QSE	10	
TOTAL	20	

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As per the Prasa Supply Chain Management Preferential Policy 2023 approved on 22nd February 2023, the specific goals must comply with acceptable forms of evidence.

This project goals and the acceptable evidence is reflected in the table below:

Specific Goals	Acceptable Evidence
Black Women Owned	Certified copy of ID documents of the Owners
51 %Black Owned	Certified copy of ID documents of the Owners
EME or QSE	Audited annual financial/B-BBEE Certificate/Affidavit

6 VALIDITY PERIOD

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

7 THE NATIONAL INDUSTRIAL PARTICIPATION PROGRAMME-(N/A)

7.1 National Industrial Participation Programme (NIPP) requirements:

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.

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8 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 80/20 / 90/10.

9 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).

10 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

PRICING AND DELIVERY SCHEDULE

Respondents are required to complete the Pricing Schedule/ BOQ **Annexure: 5** and Form C (Volume 2 /Envelop 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.

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- 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 AND BID BONDS

- 3.1. The preferred Bidder shall where applicable provide PRASA with a performance bond which shall be 10% of the value of the entire Project price offered and it shall be issued with 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 6**

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OWNERSHIP OF DESIGN

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

4 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:
 - a) Random checks on compliance with quality/quantity/specifications
 - b) 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	
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5 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.

6 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: _____

BID DESCRIPTION: REQUEST FOR PROPOSAL (RFP) FOR THE APPOINTMENT OF A SERVICE PROVIDER FOR REPLACEMENT OF OVERHEAD OPTIC FIBER CABLE FROM ROSSBURGH TO PINETOWN, MEREBANK TO CROSSMOOR, BRIARDENE TO STANGER, REUNION TO UMLAZI AND FROM UMKOMAAS TO KELSO STATIONS FOR PRASA RAIL IN KZN REGION	 prasa <small>PASSENGER RAIL AGENCY OF SOUTH AFRICA</small>
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7 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, 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: _____

BID DESCRIPTION: REQUEST FOR PROPOSAL (RFP) FOR THE APPOINTMENT OF A SERVICE PROVIDER FOR REPLACEMENT OF OVERHEAD OPTIC FIBER CABLE FROM ROSSBURGH TO PINETOWN, MEREBANK TO CROSSMOOR, BRIARDENE TO STANGER, REUNION TO UMLAZI AND FROM UMKOMAAS TO KELSO STATIONS FOR PRASA RAIL IN KZN REGION	 prasa <small>PASSENGER RAIL AGENCY OF SOUTH AFRICA</small>
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8 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.

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

SIGNATURE OF WITNESSES

ADDRESS OF WITNESSES

1 _____

Name _____

SIGNATURE OF RESPONDENT'S AUTHORISED REPRESENTATIVE: _____

NAME: _____

DESIGNATION: _____

BID DESCRIPTION: REQUEST FOR PROPOSAL (RFP) FOR THE APPOINTMENT OF A SERVICE PROVIDER FOR REPLACEMENT OF OVERHEAD OPTIC FIBER CABLE FROM ROSSBURGH TO PINETOWN, MEREBANK TO CROSSMOOR, BRIARDENE TO STANGER, REUNION TO UMLAZI AND FROM UMKOMAAS TO KELSO STATIONS FOR PRASA RAIL IN KZN REGION	 prasa <small>PASSENGER RAIL AGENCY OF SOUTH AFRICA</small>
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9 GENERAL CONDITIONS

10.1 ALTERNATIVE BIDS

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:

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- 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

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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.

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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

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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

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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.

10 CONDITIONS OF TENDER

General

- | | | |
|---|---|--|
| Actions | 1 | PRASA's <i>Representative</i> and each <i>tenderer</i> 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 <i>italics</i> 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 <i>tender returnables</i> 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 <i>tenderer</i> shall be to or from PRASA's <i>Representative</i> 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 <i>tenderer</i> . |
| 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 |

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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 <i>tenderer</i> complies with the criteria stated in the Scope of work/ specification. |
| Cost of tendering | 2 | Accept that PRASA will not compensate the <i>tenderer</i> for any costs incurred in the preparation and submission of a tender. |
| Check documents | 3 | Check the <i>tender documents</i> on receipt, including pages within them, and notify PRASA's <i>Representative</i> 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 <i>tender documents</i> 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 <i>tender documents</i> , which PRASA's <i>Representative</i> may issue, and if |

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necessary apply for an extension to the *deadline for tender submission*, in order to take the Addenda into account.

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| Site visit and / or clarification meeting | 8 | Attend a site visit and/or clarification meeting at which <i>tenderers</i> 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>i-tender</i> website and CIDB website. |
| Seek clarification | 9 | Request clarification of the <i>tender documents</i> , if necessary, by notifying PRASA's <i>Representative</i> earlier than the <i>closing time for clarification of queries</i> . |
| Insurance | 10 | Be informed of the risk that needs to be covered by insurance policy. The <i>tenderer</i> 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 <i>tenderer</i> . Such duties, taxes and levies are those applicable 14 days prior to the <i>deadline for tender submission</i> . |
| | 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 <i>conditions of contract</i> . |
| | 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 <i>conditions of contract</i> 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 <i>Representative</i> or if necessary to correct errors made by the <i>tenderer</i> . 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. |

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- 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.
- 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 an electronic version which should be contained in Memory Cards clearly marked 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"

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- 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.

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| Closing time | <p>25 Ensure that PRASA has received the tender at the stated address with the Scope of work / specification no later than the <i>deadline for tender submission</i>. 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.</p> |
| | <p>26 Accept that, if PRASA extends the <i>deadline for tender submission</i> for any reason, the requirements of these Conditions of Tender apply equally to the extended deadline.</p> |
| Tender validity | <p>27 Hold the tender(s) valid for acceptance by PRASA at any time within the <i>validity period</i> after the <i>deadline for tender submission</i>.</p> |
| | <p>28 Extend the <i>validity period</i> for a specified additional period if PRASA requests the <i>tenderer</i> to extend it. A <i>tenderer</i> agreeing to the request</p> |

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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.

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| Clarification of tender after submission | <p>29 Provide clarification of a tender in response to a request to do so from PRASA's <i>Representative</i> 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 <i>Representative</i> to confirm the correction of arithmetical errors discovered in the evaluation of tenders. The total of the Prices stated by the <i>tenderer</i> as corrected by PRASA's <i>Representative</i> with the concurrence of the <i>tenderer</i>, shall be binding upon the <i>tenderer</i></p> |
| Submit bonds, policies etc. | <p>30 If instructed by PRASA's <i>Representative</i> (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 <i>tenderer</i> in terms of the <i>conditions of contract</i>.</p> <p>31 Undertake to check the final draft of the contract provided by PRASA's <i>Representative</i>, and sign the Form of Agreement all within the time required.</p> <p>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.</p> |
| Fulfil BEE requirements | <p>33 Comply with PRASA's requirements regarding BBBEE Suppliers.</p> |

PRASA'S UNDERTAKINGS

PRASA, and PRASA's *Representative*, shall:

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| Respond to clarification | <p>1 Respond to a request for clarification received earlier than the <i>closing time for clarification of queries</i>. The response is notified to all <i>tenderers</i>.</p> |
| Issue Addenda | <p>2 If necessary, issue to each <i>tenderer</i> from time to time during the period from the date of the Letter of Invitation until the <i>closing time for clarification of queries</i>, Addenda that may amend, amplify, or add to the <i>tender documents</i>. If a <i>tenderer</i> applies for an extension to the <i>deadline for tender submission</i>, in order to take Addenda into account</p> |

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in preparing a tender, PRASA may grant such an extension and PRASA's *Representative* shall notify the extension to all *tenderers*.

Return late tenders	3	Return tenders received after the <i>deadline for tender submission</i> unopened to the <i>tenderer</i> 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 <i>tenderers</i> , 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 <i>tenderer</i> to influence the processing of tenders or contract award.
Disqualification	6	Instantly disqualify a <i>tenderer</i> (and his tender) if it is established that the <i>tenderer</i> 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 <ul style="list-style-type: none"> • meets the requirements of these Conditions of Tender, • has been properly signed, and • is responsive to the requirements of the <i>tender documents</i>.
	8	Judge a responsive tender as one which conforms to all the terms, conditions, and specifications of the <i>tender documents</i> without material deviation or qualification. A material deviation or qualification is one which, in PRASA 's opinion would <ul style="list-style-type: none"> • detrimentally affect the scope, quality, or performance of the works, services or supply identified in the Contract Data, • change PRASA's or the <i>tenderer's</i> risks and responsibilities under the contract, or • affect the competitive position of other <i>tenderers</i> presenting responsive tenders, if it were to be rectified.

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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: <ul style="list-style-type: none"> • 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 <i>tenderer's</i> addition of prices, the total of the Prices, if any, will be corrected.
	12	Reject a tender if the <i>tenderer</i> 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 <i>tenderers</i> or any other person.
Clarification of a tender	14	Obtain from a <i>tenderer</i> 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 <i>tenderer</i> before the expiry of the <i>validity period</i> , 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 <i>tenderer</i> .
Notice to unsuccessful tenderers	16	After the successful <i>tenderer</i> has acknowledged PRASA's notice of acceptance, notify other <i>tenderers</i> that their tenders have not been accepted, following PRASA's current procedures.

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| Prepare contract documents | 17 | Revise the contract documents issued by PRASA as part of the <i>tender documents</i> to take account of <ul style="list-style-type: none"> • Addenda issued during the tender period, • inclusion of some of the <i>tender returnables</i>, and • other revisions agreed between PRASA and the successful <i>tenderer</i>, before the issue of PRASA's notice of acceptance (of the tender). |
| Issue final contract | 18 | Issue the final contract documents to the successful <i>tenderer</i> 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 <i>tenderer</i> 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. |