

**Annexure 2:**  
**Particular Technical Requirements**

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## 1 GENERAL

### 1.1 Purpose of the Document

- 1.1.1 The purpose of this document is to provide the Particular Technical Requirements (“PTR”) which form part of the minimum Requirements of the Passenger Rail Agency of South Africa (“PRASA”) for the planning, design, supply, construction, installation, testing, commissioning and maintenance of a new fully integrated, functional, complete and future-proofed expanded PRASA Optical Transmission Network (“OTN”) in PRASA’s Gauteng (“GP”) and Western Cape (“WC”) service regions (“the Project”) that the Bidder shall meet and deliver at the Bidder’s cost therefore within the Bid Price.

### 1.2 Introduction

- 1.2.1 In conjunction with the contractual definitions and requirements of this Request for Proposal (“the RFP”), this document contains Conditions of Invitation and Instructions to Bidders to which the Bidder shall comply. The Bidder shall confirm unequivocal compliance with these Conditions of Invitation and Instructions to Bidders in the Statements of Compliance. PRASA Requirements, Conditions of Invitation and Instructions to Bidders are, at a minimum, comprised of the following sets of documents that shall be read in conjunction:

- a) The General Technical Requirements (“GTR”), which defines overarching requirements, needs, expectations and outputs of the Project which the Bidder shall meet and achieve.
- b) The Particular Technical Requirements (“PTR”), which defines specific requirements, needs, expectations and outputs of the Project which the Bidder shall meet and achieve.
- c) The Commercial and Financial Requirements (“CFR”), which defines specific requirements needs, expectations and outputs of the Project which the Bidder shall meet and achieve.

### 1.3 Executive Overview

- 1.3.1 Notwithstanding any other PRASA Requirements stated throughout the RFP, the Bidder shall uncompromisingly deliver the whole of the Works required to achieve successful delivery of the Project.

- 1.3.2 The Works is, at a minimum, summarised as follows:

- a) Plan, design, supply, install, test and commission an expanded PRASA OTN in various railway corridors across PRASA’s GP and WC service regions.
- b) Any other works, activities and resources required to achieve a fully integrated, functional, complete and future-proofed expanded PRASA OTN and meet any other requirements and specifications as requested throughout the RFP or as otherwise instructed in writing by PRASA.

- c) The PTRs shall be read in conjunction with the GTRs and it is the responsibility of the Bidder to ensure the final delivered solution complies with the requirements, specifications and Works stated throughout the RFP.

## 1.4 Technical Requirements Overview

1.4.1 The Technical Requirements are defined in the following documents, that should all be read in conjunction with each other:

- a) General Technical Requirements:
- Annexure 1: GTR
  - Annexure 1.1: GTR OTN
  - Annexure 1.2: Glossary of Terms
  - Annexure 1.3: Returnable Documents
- b) Particular Technical Requirements:
- Annexure 2: PTR
  - Annexure 2.1: PTR Gauteng North
  - Annexure 2.2: PTR Gauteng East
  - Annexure 2.3: PTR Gauteng West
  - Annexure 2.4: PTR Western Cape