

RFP for the enablement of the PRASA Train Control System (“PTCS”) Phase 1 through the Restoration, Verification, Testing, and Commissioning of the existing Original Equipment Manufacturer (“OEM”) electronic signalling interlocking system in PRASA’s Western Cape (“WC”) service region.



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 enablement of the PRASA Train Control System (“PTCS”) Phase 1 through the restoration, verification, testing, and commissioning of the existing original equipment manufacturer (“OEM”) Electronic Signalling Interlocking System in PRASA’s Western Cape (“WC”) service region (“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) Restore the hardware previously installed for the train control, remote control and original equipment manufacturer (“OEM”) electronic signalling Interlocking System.

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- b) Restoration of all specified railway lines according to the as-built signalling drawings that will be issued.
- c) Completion of all enabling and specified Telecommunication, Electrical, and other works.
- d) Restore the functionality of the previously installed Maitland Signalling Equipment Room including outdoor works.
- e) Provision of all required solutions (to be approved by PRASA) and resources (to be approved by PRASA) to deliver the Works.
- f) Any other works, activities and resources required to restore the full functionality of the original equipment manufacturer (“OEM”) electronic signalling Interlocking System.

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 Signalling
 - Annexure 1.2: GTR Telecommunications
 - Annexure 1.3: GTR Electrical
 - Annexure 1.4: Main Technical References
 - Annexure 1.5: Glossary of Terms
 - Annexure 1.6: Returnable Documents
 - Annexure 1.6.1 GTR Returnable Documents - Project List Table
 - Annexure 1.6.2 GTR Returnable Documents - Bidders Experience Questionnaire
- b) Particular Technical Requirements:
 - Annexure 2: PTR Western Cape Network
 - Annexure 2.1: PTR Section 1: Cape Town – Simon’sTown
 - Annexure 2.2 PTR Section 2: Cape Town – Southfield (via Athlone)
 - Annexure 2.3 PTR Section 3: Bellville - Cape Town (via Ysterplaat)
 - Annexure 2.4 PTR Section 4: Kuilsrivier - Eersterivier – Strand - Muldersvlei

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- Annexure 2.5 PTR Section 5: Maitland AR including indoor and outdoor works.