

Annexure 2.1:
Particular Technical Requirements
Gauteng

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1 GENERAL

1.1 Purpose of the Document

1.1.1 The purpose of this document is to provide the Commercial and Financial Requirements (“CFR”) 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 PRASA Electronic Authorisation System (“EAS”) in PRASA’s Gauteng (“GP”), KwaZulu-Natal (“KZN”) 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 for an Anticipated Minimum Period of 40 months (Consisting of 10 Months Implementation, 24 Months for Maintenance, Warranty and Defects Liability Period and 6 Months For Contract Close-Out Administrative Processes).

1.1.2 Executive Overview

1.1.3 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.

1.2 Location and Minimum Extent of the Works

1.2.1 The boundaries of the Site are the Gauteng region Centralised Train Control Centres (“CTCC”) and other operating offices.

2 DELIVERY OF THE WORKS

2.1 General

2.1.1 The Works shall be executed as per prioritization of sequencing of the delivery Works as follows unless otherwise agreed to in writing with PRASA:

- a) Section 1: EAS development and Validation
- b) Section 2: Wintersnest (Hercules) – De-Wildt
- c) Section 3: Hercules – Mabopane
- d) Section 4: Pretoria – Saulsville
- e) Section 5: Pretoria – Germiston (Including Leralla)
- f) Section 6: Pretoria - Hercules - Belle Ombre - Koedoespoort (Ring Road)
- g) Section 7: Germiston – Daveyton
- h) Section 8: Dunswart (Germiston) – Springs
- i) Section 9: Germiston - George Goch – Langlaagte

- j) Section 10: Langlaagte – Randfontein
- k) Section 11: George Goch – Kaserne West – Faraday – Westgate – Nasrec – New Canada
- l) Section 12: Langlaagte – New Canada – Naledi
- m) Section 13: New Canada – Houtheuwel
- n) Section 14: Germiston West – India – Elsburg – Kwesine
- o) Section 15: Germiston Central – Germiston East (via Kutalo) – Elsburg

3 SPECIFIC MINIMUM APPLICABLE CONDITIONS

3.1 General

- 3.1.1 Metrorail Gauteng is a network of commuter rail services in the Gauteng province, servicing the Greater Johannesburg metropolitan area as well as Pretoria and its suburbs, operated by Metrorail (division of PRASA).

3.2 CTC and Interlockings

- 3.2.1 The Gauteng Nerve Centre (“GNC”) is located in Kaalfontein.
- 3.2.2 Operations are conducted from either the GNC or satellite CTCs until final migration to the GNC.

3.2.3 Satellite CTC and Controlled Stations

Midway	Houtheuwel, Residencia, Stretford, Grasmere, Lawley, Lenz, Midway
Kaalfontein	Kaalfontein, Tembisa, Marieshoop, Olifantsfontein
Maraisburg	Robinson, Waterval, Luipaardsvlei, Roodepoort
Dunswart	Boksburg East, Dunswart, Alliance, Brakpan, Springs, Welgedag, Largo
George Goch	Johannesburg 2, Jeppe, George Goch, Benrose, Cleveland
New Canada	Crown, Booyens
George Goch	Kaserne, Kaserne West
Germiston	India
Maraisburg	Florida, Newclare, Croesus, Langlaagte, Braamfontein
New Canada	Naledi, Inhlazane, Dube, New Canada, Nasrec North
Kaalfontein	Knights, Elandsfontein, Mepton Park
Pretoria North	Irene, Centurion, Pretoria, Mitchell Street, Belle Ombre, Hercules, Pretoria North, Bon Accord, Wolmerton, Winterneest, Halte 2, Mabopane

4 MINIMUM REQUIREMENTS

4.1 General

- 4.1.1 The Bidder shall implement the EAS according to current approved line plans.
- 4.1.2 The Bidder shall update the system as required in the event that the physical layout changes due to resignalling or other works.
- 4.1.3 The Bidder shall move the EAS to any location in the Gauteng Region as and when requested by PRASA.