

## **Annexure 1.4:**

### **Returnable Documents**

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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 a full Maintenance, Warranty and Defects Liability Period and 6 Months For Contract Close-Out Administrative Processes). .

### **1.2 Executive Overview**

- 1.2.1 The information and requirements specified in this document is additional to, and does not replace, all other information requested, from the Bidder as part of the Bid, throughout the RFP.

## 2 RETURNABLE DOCUMENTS

### 2.1 General

#### 2.1.1 Project description and understanding:

- a) The Bidder shall submit a detailed description and understanding of the Project as understood by the Bidder.

#### 2.1.2 Statement of Compliance:

- a) The Bidder shall submit a clause-by-clause statement of compliance to all requirements and specifications provided throughout the RFP.
- b) The Bidder shall submit an item-by-item statement of compliance with all relevant standards, specifications, regulations and procedures in the MTR.

#### 2.1.3 References:

- a) The Bidder shall submit detailed case studies for similar projects implemented in the last 5 years in suburban areas together with associated verifiable client references and contact details.
- a) The Bidder will provide a list of signalling projects or railway projects with a signalling scope completed in the last 15 years, with client contact information for each project (Only contactable projects will be considered):
  - The tender value of the signalling scope of the project (in ZAR - calculated at an exchange rate of GBP1=ZAR22.5 / EUR1=ZAR19.9 / USD1=ZAR18) will be provided for verification.
  - The Bidder will provide completion/handover certificates for each project as proof of completion.
  - In the case of a joint venture or consortium, each member of the joint venture/consortium will provide an individual list`
- b) The Bidder will provide a list of signalling projects or railway projects completed in the last 15 years, with client contact information for each project (Only contactable projects will be considered), which meets ALL the following criteria:
  - Signalling scope tender value higher than or equal to R50 million.
  - Less than 6 months total delay compared to tender project baseline.
  - Less than 6 months total delay compared to tender project baseline.
  - In the case of a joint venture or consortium, each member of the joint venture/consortium will provide an individual list and the highest value project from any member of the joint venture/consortium will be used for scoring.

## 2.2 Works Delivery Method Statements

2.2.1 The Bidder shall provide comprehensive method statements on how all aspects of the Planning, Design, Supply, Construction, Installation, Testing, Commissioning and Maintenance of the Works shall be delivered by the Bidder, in strict compliance and adherence with the RFP. The method statements to be provided include, but are not limited to:

- a) General.
- b) Management and Implementation.
- c) Project Programme and Time Management.
- d) Interface Management.
- e) Key Personnel Requirements.
- f) Project Office Co-location and Resourcing.
- g) Document Management.
- h) Reporting.
- i) Project Meetings.
- j) Occupational Health and Safety Management.
- k) Environmental and Heritage Management.
- l) Quality Management.
- m) Temporary Works, Site(s) Services and Construction Constraints.
- n) Reporting of Faults and Failures.
- o) Occupations.
- p) Operational Readiness.
- q) Training and Technology Transfer.
- r) Inspections, Interim Tests, Tests on Completion, Commissioning, Completion, Taking Over and Defects After Taking Over.
- s) Decommissioning.
- t) Spares, Maintenance and Life Cycle Cost ("LCC") Replacement Plan and Financial Model.
- u) Project Exit Strategy.
- v) Any other method statements as required to clearly demonstrated how the Works shall be delivered.

## 2.3 General Technical Requirements

2.3.1 Systems descriptions:

- a) The Bidder shall submit a detailed description of all systems and sub-systems that the Bidder shall provide as part of the Works.
- b) Such description shall include a description of all systems, sub-systems, Plant and Materials that shall be delivered as part of the Works.
- c) The systems descriptions shall, where applicable, for each system, sub-system and Plant and Materials describe the diagnostic features of the system, sub-system and Plant and Materials together with the data that shall be transmitted to the Maintenance server.

## **2.4 Electronic Authorisation System (“EAS”)**

### **2.4.1 Preliminary Conceptual Design:**

- a) The Bidder shall submit a preliminary conceptual Design for the implementation of the system.
- b) The preliminary conceptual Design shall include feedback on the feasibility of the proposed guidelines.

### **2.4.2 Development/Engineering Plan:**

- a) The Bidder shall submit a Development/Engineering plan that covers all the activities, processes, methods and tools to be put in place in order to ensure that the delivered EAS meets all the requirements. The plan shall mention the technical references and sources used for the Design, Testing and verification and Validation of the EAS and its integration in the PRASA environment.
- b) The Development/Engineering plan shall, at a minimum, cover the following aspects:
  - Generic development to customize the EAS implementation to the South African context and define the principles and Design rules to be applied to each subproject.
  - The adaptations of the EAS products to fit the South African context.
  - The production engineering and Testing (processes, activities and tools) for the execution of the Works.

### **2.4.3 References:**

- a) The Bidder shall submit detailed case studies for the offered EAS, subsystems and Plant and Materials being in operation during the last 5 years in suburban projects and situated preferably in subtropical coastal areas together with associated verifiable client references and contact details.

### **2.4.4 Validation certificates:**

- a) The Bidder shall submit all relevant Validation certificates with detailed relevant documentation (Safety and Performance standards, etc.).

### **2.4.5 Maintenance and Life Cycle Cost (“LCC”) Replacement Plan and Financial Model:**

- a) The Bidder shall submit the estimated detailed, all-inclusive; Planned and Preventative Maintenance and LCC Replacement Plan and Financial Model for the whole of the Works.
- b) The Planned and Preventative Maintenance and LCC Replacement Plan and Financial Model shall adhere OEM requirements and specifications, proven local best practice and proven international best practice.
- c) The Financial Model shall be based on a useable life of 10 years for all Plant and Materials further transparently showing all detailed calculations and assumptions.
- d) The Financial Model shall include equipment price increases based on the Consumer Price Index ("CPI") estimations for the next 10 years, also taking into consideration any foreign exchange factors.
- e) The calculations shall further be based on the detailed theoretical RAMS calculations done by the Bidder.
- f) The strategy shall include resource requirements for maintaining the Works. Resource requirements shall show number of technical workers, engineering technicians and technologists needed to carry out effective; planned Maintenance, preventative Maintenance and Life Cycle replacements whilst minimising disruption to PRASA operations.

2.4.6 Method statement:

- a) The Bidder shall submit a high-level implementation, Testing and Commissioning method statement.
- b) The method statement shall provide an overview of how the Bidder intends to implement the EAS.
- c) The method statement shall include details regarding Installation methods, FAT, SAT and final Testing and Commissioning, indicating which activities shall be conducted under Occupation-between-trains conditions and which shall require total Occupation.