



Annexure 4

Automated Meter Reading Scope of Work

1. Project Overview

The project involves the supply, installation, configuration, and commissioning of an Automated Meter Reading (AMR) system for electricity and water within the South African Airways sites across the country. The sites included are as follows:

- Airways Park (Johannesburg)
- South African Airways Technical (Johannesburg)
- South African Airways Cargo (Johannesburg)
- Inflight Services (Johannesburg)
- South African Airways Cargo (Cape Town)
- South African Airways Technical (Cape Town)
- South African Airways Cargo (Port Elizabeth)
- South African Airways Technical (Port Elizabeth)
- South African Airways Cargo (East London)
- South African Airways Technical (East London)

The AMR system shall enable remote reading, monitoring, and data collection of consumption values to improve billing accuracy, detect losses, and enhance operational efficiency.

2. Standards and Regulations

- South African National Standards (SANS 1524, SANS 62052, SANS 62053, SANA 10142).
- POPIA compliance for data privacy and protection.

3. Extent of Works

The service provider is responsible for the supply, installation and commissioning of the automated meter reading system. South African Airways has meters installed across different sites for taking electricity and water readings. The readings are used for recoveries purposes and to verify the readings from the municipality/landlords. The service provider will then be responsible for the service of the system and monthly audit and verify the data collected by the system. The service provider is also responsible for the following services:

- Service Availability on Data platforms:
The service provider must ensure that the service will have availability of 98% or greater measured on average over a one-month period. The service provider must guarantee service availability of 95%.
- Data Availability & Storage:



Data must be recorded and saved on a storage system which can store data for a period of five years. The data should be readily available when needed and be able to be extracted through the system.

- **Data Integrity:**
The service provider will be responsible for verifying the data and present a monthly report which indicates month on month trends and investigate all outliers and anomalies.
- **Contingency Reporting:**
The service provider must provide a contingency report to the customer within 48 hours of a contingency identified through the diagnostic data point with values that went out of the range so that corrective steps can be taken.
- **Contingencies, Backup and Disaster Recovery:**
The service provider must ensure that all external access to any part of the service must traverse appropriate secure gateways, including Strong firewalling, SSL connection termination for web browser connections.
- **Functionality:**
Web-based user interface to allow sufficient information to be inputted, stored and edited to effect automatic remote data collection: Site Configuration (name, address); Meter Configuration (Serial No, Meter type, Channels, Read Frequency, Access Passwords); Communications Modem Configuration (IP Address, Network Provider). Scalable Automatic Meter Reading Platform supporting GPRS wireless IP connectivity. Daily Automatic Meter Reading. Problem Collects Reporting - Management of reading exceptions. Collection relates specifically to 2 channel energy (active and re-active energy) with the minimum and maximum voltage per phase (red, white, blue), interval meter data, collected in 30-minute intervals daily.

Manage Data Importation, Tariff Configuration and linked to specific LPU, Database storage of time interval data, Meter Events and Exceptions Reporting, Time Difference Reporting, Meter and Market Register Reporting

4. Repairs and Maintenance

- The service provider will be responsible for the maintenance of the AMR system including installed meters. They will be responsible for calibration of any meter should the need arise and conduct fault finding and remedial actions required.
- The service provider will be responsible for any new installations as and when required and a quotation must be submitted to the client for approval before any approval of the new installation is granted.

5. Applicable Tariffs

The service provider will be responsible for applying current and valid tariffs for billing purposes and responsible for updating the tariffs as and when there are changes. This is applicable to all the sites in different provinces.

6. List of installed meters

Below is a list of currently installed meters with the current ID of the meter on the currently used system.

Row Labels	Electricity	Grand Total
SAA : Cargo JHB	3	3
SAA JHB - [SJ-E0G] : Cargo Tx 1	1	1
SAA JHB - [SJ-E10] : Cargo Tx 2	1	1
SAA JHB - [SJ-E11] : Cargo Tx 3	1	1
SAA : Corporate	1	1



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SJ-P001 : SAA Prepaid	1	1
SAA : Corporate AWP JHB	12	12
SAAT : [E1G] Simulator 747 (52G5)	1	1
SAAT : [E20] Simulator Airbus (5257)	1	1
SJ-E02 : SAA JHB - Vodacom	1	1
SJ-E03 : SAA JHB Neotel Building	1	1
SJ-E07 : SAA JHB - Campus Main Incomer 1	1	1
SJ-E08 : SAA JHB - Campus Main Incomer 2	1	1
SJ-E10 : SAA JHB - Telkom	1	1
SJ-E14 : SAA JHB - H Block Simulator HVAC	1	1
SJ-E15 : SAA JHB - Transformer 01	1	1
SJ-E16 : SAA JHB - Transformer 02	1	1
SJ-E17 : SAA JHB - Transformer 03	1	1
SJ-E18 : SAA JHB - Transformer 04	1	1
SAA : IFS JHB	2	2
SJ-E01 : SAA JHB - IFS Total incl Tenants	1	1
SJ-E06 : SAA JHB - KG Enforcement	1	1
SAA Cargo (Cape Town)	2	2
SAA CPT : [E01] Cargo Main Intake	1	1
SAA CPT : [E02] SARS	1	1
SAA Cargo ELS	1	1
SAA ELS : [E01] Cargo Main Intake	1	1
SAA Cargo PE	2	2
SAA PE : [E01] Cargo Main Intake	1	1
SAA PE : [E01] Lounge Meter	1	1
SAA Voyager Jhb	2	2
SJ-E12 : SAA JHB - IHS Towers SA	1	1
SJ-E13 : SAA JHB - Vodacom Tower	1	1
SAAT Airlink JHB	1	1
SAAT Tenants : [E27] Hanger 1	1	1
Grand Total	26	26