

AIR TRAFFIC AND NAVIGATION SERVICES SOC. LTD
REPUBLIC OF SOUTH AFRICA



**REQUEST FOR PROPOSAL: ATNS/RFP007/FY24.25/A-SMGCS
REPLACEMENT**

**APPOINTMENT OF A SERVICE PROVIDER FOR ADVANCED
SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM
REPLACEMENT PROJECT REQUIRED AT OR TAMBO
INTERNATIONAL AIRPORT (FAOR) and CAPE TOWN
INTERNATIONAL AIRPORT (FACT).**

VOLUME 3
PROJECT MANAGEMENT & SYSTEMS

JUNE 2024

The information contained within this document is confidential to ATNS in all respects and it is hereby acknowledged that the information as provided shall only be used for the preparation of a response to this document. The information furnished will not be used for any other purpose than stated and that the information will not directly or indirectly, by agent, employee or

representative, be disclosed either in whole or in part, to any other third party without the express written consent by the Company or its representative.

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ABBREVIATIONS

ATC	Air Traffic Control
ATNS	Air Traffic and Navigation Services SOC LTD
CDRL	Contract Data Requirements List
COTS	Commercially off-the shelf
CVOR	Conventional VOR
DME	Distance Measuring Equipment
DVOR	Doppler VOR
ICAO	International Civil Aviation Organization
IEEE	Institute of Electrical and Electronics Engineering
LAN	Local Area Network
OJTI	On-the-Job Training Instructor
PBU	Period of Beneficial Use
PMP	Project Management Plan
PQP	Project Quality Plan
QA	Quality Assurance
RAM	Reliability, Availability and Maintainability
RAMPP	Reliability, Availability and Maintainability Program Plan
RFT	Request for Tender
RCMMS	Remote Control Monitoring and Maintenance System
SEMP	System Engineering Management Plan
TEMP	Test and Evaluation Master Plan
TP	Training Plan
URS	User Requirement Statement
VOR	VHF Omni-Directional Radio Range

WBS Work Breakdown Structure

1 GENERAL INSTRUCTIONS TO TENDERERS

The Tenderer shall submit all responses, diagrams, project management documentation and drawings according to the GENERAL INFORMATION AND INSTRUCTIONS TO TENDERERS document and in the English language.

To assist Tenderers only, each paragraph or article has been appended throughout with the letters “(M)”, “(D)”, “(O)” or “(I)”, to indicate whether the requirement is **Mandatory**, **Desirable**, **Optional** or for **Information only**.

ALL RESPONSES TO THE REQUIREMENTS IN THIS DOCUMENT SHALL BE PROVIDED AS FOLLOWS:

TENDERERS SHALL RESPOND IN FULL TO EACH ITEM IN THE FORMAT PROVIDED AND REFERENCES (CHAPTER, SECTION, PAGE NUMBER, PARAGRAPH NUMBER) TO DOCUMENTS AND RELEVANT INFORMATION SUPPORTING THE RESPONSES SHALL BE INDICATED IN THE SPACE PROVIDED. THIS INFORMATION WILL BE THE **ONLY RESPONSE USED FOR THE EVALUATION AND ASSESSMENT**.

Responses, provided in the space allowed, that are not clear or inadequate or the lack thereof shall be interpreted as **“Not Compliant”** even though the compliance column is declared as “Comply” and/or the Tenderer’s offer meets the requirement. Tenderer’s shall ensure that each response correctly addresses the requirement stated. Responses not addressing the requirement of the specific paragraph shall be interpreted as **“Not Compliant”**.

Tenderer’s shall declare compliance to each and every paragraph of this document in the column labelled “Compliance” as follows:

C:	fully compliant	=	2 points:
PC:	partly compliant	=	1 point;
NC:	not compliant	=	0 points.

Noted: Noted and accepted (applicable to paragraphs marked as “I”, not containing requirements)

Tenderer’s shall, for paragraphs declared “PC” or “NC”, include a statement as to the nature of the variation and may additionally supply supporting information in the space provided to demonstrate how the proposal meets the needs of ATNS.

Paragraphs marked “(M)”, indicates that the requirement is mandatory and proposals not compliant with the requirement shall be disqualified for further evaluation.

Paragraphs marked “(D)”, indicates that the requirement is desirable, and the tenderer is expected to declare their level of compliance, formal response and reference supporting documents.

Paragraphs marked “(I)”, indicates that the requirement is for information, however the tenderer is still expected to respond and provide information if requested. Any information gathered herein may form part of the contractual terms.

Paragraphs marked “(O)”, indicates that the requirement is optional, and the tenderer may decide how to respond.

2 PROJECT MANAGEMENT

2.1 General

- [A] The Contractor shall establish, implement and maintain extensive and comprehensive Project Management plans throughout the period of any Contract arising from this RFT. These Plans will be submitted to the Company for information and reporting purposes. (D)

COMPLIANCE (C/PC/NC/NOTED)	
<i>[INSERT FULL RESPONSE FOR EVALUATION HERE]</i>	
<i>[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]</i>	

- [B] Draft Project Management plans, specific to this scope shall be submitted with the Tender to demonstrate compliance and will be refined as necessary during the Contract development and reporting phases. (D)

COMPLIANCE (C/PC/NC/NOTED)	
<i>[INSERT FULL RESPONSE FOR EVALUATION HERE]</i>	
<i>[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]</i>	

- [C] The Project Management of the Project is the responsibility of the Contractor. Submitting the Project Management Plans to and their acceptance by the Company do not imply approval or concurrence by the Company nor does it absolve the Contractor from the Project Management role and responsibilities. (D)

COMPLIANCE (C/PC/NC/NOTED)	
<i>[INSERT FULL RESPONSE FOR EVALUATION HERE]</i>	

[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]

- [D] The Contractor shall divide the plans into activities, which can be managed, monitored, and measured in terms of duration, cost, risk and resources. These activities shall be organised into logical networks. Such networks shall be used by the Contractor as the main framework for planning, budgeting, controlling and reporting to the Company throughout the period of the Contract. These networks shall be closely linked to the various System Engineering Plans and activities to ensure the rapid and accurate reflection of any System Engineering decision. A draft framework of measuring project activities (in terms of duration, cost, risk and resources) shall be submitted as part of the tender. (D)

COMPLIANCE (C/PC/NC/NOTED)	
<i>[INSERT FULL RESPONSE FOR EVALUATION HERE]</i>	
<i>[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]</i>	

- [E] The Tenderer shall submit a draft Master Project schedule that addresses the scope of the requirements of this tender in Microsoft Project® format.(M)

COMPLIANCE (C/PC/NC/NOTED)	
<i>[INSERT FULL RESPONSE FOR EVALUATION HERE]</i>	
<i>[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]</i>	

- [F] The project duration shall not exceed 36 months from contract signature. (M)

COMPLIANCE (C/PC/NC/NOTED)	
<i>[INSERT FULL RESPONSE FOR EVALUATION HERE]</i>	
<i>[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]</i>	

- [G] Project Management shall encompass the management of all the various facets of the project as defined in the Contract. These including design, development, production, supply of ancillary equipment, resource allocation and control, management of sub-contractors, on-site installation and construction, testing, transitioning, commissioning, transportation, all Integrated Logistic Support activities, staff movements and subsistence, etc. The Tenderer shall clearly demonstrate these aspects in all draft Project Management plans and the project schedule submitted with the tender. (D).

COMPLIANCE (C/PC/NC/NOTED)	
<i>[INSERT FULL RESPONSE FOR EVALUATION HERE]</i>	
<i>[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]</i>	

- [H] The draft Project Schedule shall include all key milestones, identifies the critical path, resource requirements and linked to the WBS. The Master Project Schedule shall be broken down to a sufficient level of detail to enable the management and monitoring of project execution from Contract award to the end of PBU (*refer to Volume 4 for definition of PBU*). (D)

COMPLIANCE (C/PC/NC/NOTED)	
<i>[INSERT FULL RESPONSE FOR EVALUATION HERE]</i>	
<i>[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]</i>	

2.2 Project Management Plan

- [A] Tenderer shall submit a draft Project Management Plan (PMP) with the tender. The Project Management Plan will be a formally accepted and approved document used to manage and control project execution throughout the project life-cycle phases. The PMP will detail all the activities necessary to

successfully complete the project and shall refer to the other plans developed under the project. (D)

COMPLIANCE (C/PC/NC/NOTED)	
<i>[INSERT FULL RESPONSE FOR EVALUATION HERE]</i>	
<i>[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]</i>	

2.3 Project Status Reports

2.3.1 General

- [B] The Contractor shall provide to the Company at two-weekly intervals (or at other mutually agreed intervals) Project Status Reports, which will capture the project performance to date and makes recommendations for future implementation and changes. Project status shall be presented relative to schedule critical path and cost and quality of incremental deliverables. A draft Project Status report shall be submitted with the tender. (D) .

COMPLIANCE (C/PC/NC/NOTED)	
<i>[INSERT FULL RESPONSE FOR EVALUATION HERE]</i>	
<i>[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]</i>	

- [C] A draft Risk Report prepared in line with the requirements in 3.4 shall be submitted with the tender. (D)

COMPLIANCE (C/PC/NC/NOTED)	
<i>[INSERT FULL RESPONSE FOR EVALUATION HERE]</i>	
<i>[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]</i>	

- [D] Project status reporting shall also include the Master Project Schedule and Schedule Analysis. The Tenderer shall clearly describe the methodology that will be applied for schedule analysis. (D)

COMPLIANCE (C/PC/NC/NOTED)	
<i>[INSERT FULL RESPONSE FOR EVALUATION HERE]</i>	
<i>[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]</i>	

2.3.2 Master Project Schedule

- [A] The Contractor shall develop, maintain, and track progress against a Master Project Schedule. The Project Schedule shall be organized to depict the flow of work, the task interdependencies and the interrelationships necessary to accomplish the program objectives from Contract Award to completion of the contract. (D)

COMPLIANCE (C/PC/NC/NOTED)	
<i>[INSERT FULL RESPONSE FOR EVALUATION HERE]</i>	
<i>[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]</i>	

- [B] The Contractor shall ensure that the Project Schedule includes all contractually specified milestones, identifies the critical path, and is linked to the WBS. The Master Project Schedule shall be broken down to a sufficient level of detail. The schedule shall also address the Logistic Support Programme. (D)

COMPLIANCE (C/PC/NC/NOTED)	
<i>[INSERT FULL RESPONSE FOR EVALUATION HERE]</i>	
<i>[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]</i>	

2.4 Work Breakdown Structure (WBS)

- [A] The Tenderer shall submit a draft WBS that unambiguously describes the **scope, deliverables and outcomes** of the FAOR and FACT A-SMGCS Replacement Project. The WBS shall be presented in a Tree Structure.

COMPLIANCE (C/PC/NC/NOTED)	
<i>[INSERT FULL RESPONSE FOR EVALUATION HERE]</i>	
<i>[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]</i>	

2.4.1 Activity List

- [A] Accompanying the WBS, a draft Activity List shall also be submitted with the tender and maintained throughout the project lifecycle. The activity list shall define at least the following attributes: (D)

- Activity label or name;
- Unique activity identifier;
- Work-package identifier;
- Scope of work description for each activity;
- Resources assigned to execute the work; and
- Where the work is to be performed.

COMPLIANCE (C/PC/NC/NOTED)	
<i>[INSERT FULL RESPONSE FOR EVALUATION HERE]</i>	
<i>[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]</i>	

2.5 Data Management

- [A] The Contractor shall establish and operate a data management system as part of the overall project management scheme. The plan shall define the methods for identification, preparation, tracking and updating of all relevant data. A draft plan shall be submitted with the tender. (D)

COMPLIANCE (C/PC/NC/NOTED)	
<i>[INSERT FULL RESPONSE FOR EVALUATION HERE]</i>	
<i>[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]</i>	

2.6 Progress Review Meetings

2.6.1 Requirements

- [B] The Contractor shall attend Progress Review Meetings at monthly intervals (or at other mutually agreed intervals) to present a Project Status Report. The regular Progress Review meetings shall be held in South Africa at either the Contractors premises or at the Company’s Office, or at other mutually agreed locations. A copy of the Contractor’s written Project Status Report and meeting presentation material shall be submitted to the Company at least one week prior to the Progress Review Meeting. (I)

COMPLIANCE (C/PC/NC/NOTED)	
<i>[INSERT FULL RESPONSE FOR EVALUATION HERE]</i>	
<i>[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]</i>	

2.6.2 Matters for Consideration

- [A] The Contractor shall make a presentation on the progress of the project to date, a projection of the effects of variations from the previous schedule, and any action taken or recommendations for action to rectify existing or anticipated problems. (I)

COMPLIANCE (C/PC/NC/NOTED)	
<i>[INSERT FULL RESPONSE FOR EVALUATION HERE]</i>	
<i>[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]</i>	

- [B] The Contractor shall present all aspects of the project status. The Contractor shall present a detailed, accurate summary of the accomplishments of the Contractor and subcontractors to date. (I)

COMPLIANCE (C/PC/NC/NOTED)	
-----------------------------------	--

<i>[INSERT FULL RESPONSE FOR EVALUATION HERE]</i>
<i>[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]</i>

- [C] The presentation shall include a forecast of trends in terms of technical, cost and schedule performance through to completion of the Contract. (I)

COMPLIANCE (C/PC/NC/NOTED)	
<i>[INSERT FULL RESPONSE FOR EVALUATION HERE]</i>	
<i>[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]</i>	

- [D] The presentation shall focus attention upon, and provide insight into, the interrelationships among the project elements including subcontractors. (I)

COMPLIANCE (C/PC/NC/NOTED)	
<i>[INSERT FULL RESPONSE FOR EVALUATION HERE]</i>	
<i>[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]</i>	

- [E] The presentation shall focus attention upon Design and Management problems. (I)

COMPLIANCE (C/PC/NC/NOTED)	
<i>[INSERT FULL RESPONSE FOR EVALUATION HERE]</i>	
<i>[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]</i>	

- [F] Significant slippages, obstacles, or discrepancies between planned, actual and forecast project progress shall be addressed through a narrative analysis of cause, effect and proposed or completed corrective action. (I)

COMPLIANCE (C/PC/NC/NOTED)	
<i>[INSERT FULL RESPONSE FOR EVALUATION HERE]</i>	
<i>[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]</i>	

- [G] The Contractor shall present, at the request of the Company, any data for proposed work constituting a variation to the Contract or Engineering Change Proposals. The Contractor shall provide supporting data on assumptions made and methodologies used in arriving at specific conclusions, recommendations and alternatives to the design approach. . (D)

COMPLIANCE (C/PC/NC/NOTED)	
<i>[INSERT FULL RESPONSE FOR EVALUATION HERE]</i>	
<i>[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]</i>	

2.6.3 Documentation

- [A] The Contractor shall submit a draft Agenda for Company concurrence at least one (1) week prior to a scheduled Progress Review Meeting. The Company may submit items for inclusion in the Agenda. (I)

COMPLIANCE (C/PC/NC/NOTED)	
<i>[INSERT FULL RESPONSE FOR EVALUATION HERE]</i>	
<i>[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]</i>	

- [B] The Contractor shall provide administrative support for the meeting and prepare and distribute a draft record of the minutes of the meeting within three (3) days of the meeting. (I)

COMPLIANCE (C/PC/NC/NOTED)	
<i>[INSERT FULL RESPONSE FOR EVALUATION HERE]</i>	
<i>[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]</i>	

- [C] The minutes shall include an Action updated Tracking List (I). . (D)

COMPLIANCE (C/PC/NC/NOTED)	
<i>[INSERT FULL RESPONSE FOR EVALUATION HERE]</i>	
<i>[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]</i>	

2.7 Project Resources

2.7.1 Resumes of Key Personnel

- [A] Tenderers shall submit resumes of key personnel, suitably qualified and experienced to execute all aspects of the envisaged scope of works. (D)

COMPLIANCE (C/PC/NC/NOTED)	
<i>[INSERT FULL RESPONSE FOR EVALUATION HERE]</i>	
<i>[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]</i>	

2.7.2 Resource Allocation Plan

- [A] Tenderers shall submit a Resource Allocation Plan, which identifies all the resources, including subcontract resources, plant and equipment and facilities to be applied to each element of the project as detailed in 2.4. (D)

COMPLIANCE (C/PC/NC/NOTED)	
<i>[INSERT FULL RESPONSE FOR EVALUATION HERE]</i>	
<i>[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]</i>	

- [B] The Tenderer shall ensure that only appropriately qualified and experienced personnel will be employed on the tasks. The Company shall retain the right to direct the Contractor to remove from the project any personnel considered by the Company to be inappropriately qualified or experienced, or unacceptable to the Company. (D)

COMPLIANCE (C/PC/NC/NOTED)	
<i>[INSERT FULL RESPONSE FOR EVALUATION HERE]</i>	
<i>[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]</i>	

- [C] The Tenderer shall submit a full project organization structure, specific with relevant names and resumes. (D)

COMPLIANCE (C/PC/NC/NOTED)	
<i>[INSERT FULL RESPONSE FOR EVALUATION HERE]</i>	
<i>[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]</i>	

3 SYSTEM ENGINEERING

3.1 System Engineering Master Plan

- [A] The Contractor shall be responsible for the total performance of the system. The tenderer shall indicate in their proposal how aspects of quality and performance will be managed and assured throughout the project lifecycle(D)

COMPLIANCE (C/PC/NC/NOTED)	
<i>[INSERT FULL RESPONSE FOR EVALUATION HERE]</i>	
<i>[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]</i>	

- [B] Tenderers shall ensure that every subsystem and its interfaces will comply with all the requirements allocated to that subsystem. (D)

COMPLIANCE (C/PC/NC/NOTED)	
<i>[INSERT FULL RESPONSE FOR EVALUATION HERE]</i>	
<i>[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]</i>	

- [C] Tenderers shall clearly indicate what will be expected as customer furnished information or equipment. (I)

COMPLIANCE (C/PC/NC/NOTED)	
<i>[INSERT FULL RESPONSE FOR EVALUATION HERE]</i>	
<i>[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]</i>	

- [D] The interfaces and/or infrastructure to be provided by or required from the Company shall also be indicated in the system definition. (D)

COMPLIANCE (C/PC/NC/NOTED)	
<i>[INSERT FULL RESPONSE FOR EVALUATION HERE]</i>	
<i>[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]</i>	

- [E] Tenderers shall submit a detailed system breakdown structure of the A-SMGCS offered, depicting the hierarchy of products and processes that comprise the system architecture. (D)

COMPLIANCE (C/PC/NC/NOTED)	
<i>[INSERT FULL RESPONSE FOR EVALUATION HERE]</i>	
<i>[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]</i>	

- [F] The Tenderer shall submit a draft System Engineering Management Plan (SEMP) consistent with the scope of the FAOR and FACT A-SMGCS Replacement requirements which provides a framework that supports the integration of engineering activities. The plan shall contain at least the following elements:

- System Engineering Process
- Integration of System Engineering effort
- Implementation Tasks
- Reviews and Audits

COMPLIANCE (C/PC/NC/NOTED)	
<i>[INSERT FULL RESPONSE FOR EVALUATION HERE]</i>	
<i>[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]</i>	

- [G] Specific testing and evaluation procedures for the various Acceptance Tests (e.g. Factory Acceptance Testing, Site Acceptance Testing, Physical Inspections, Final Acceptance, etc.) will be defined in the Test and Evaluation plan for each deliverable. A draft Test and Evaluation Plan or sample shall be submitted as part of the tender. (D)

COMPLIANCE (C/PC/NC/NOTED)	
<i>[INSERT FULL RESPONSE FOR EVALUATION HERE]</i>	
<i>[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]</i>	

- [H] Simulated tests or demonstrations of specific interactive elements of the ASMGCS will be requested by the Company where it may be deemed necessary, prior Critical Design review baseline sign-off.

COMPLIANCE (C/PC/NC/NOTED)	
<i>[INSERT FULL RESPONSE FOR EVALUATION HERE]</i>	
<i>[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]</i>	

- [I] The Contractor shall prepare, implement and maintain a Test and Evaluation Master Plan (TEMP) that describes the Contractor’s plan for all Tests and Evaluations to be undertaken in demonstrating compliance with the technical, operational, contractual and performance requirements of the project. The Plan shall include an Acceptance matrix, which identifies all deliverables and methods of testing proposed by the A draft TEMP specific to the project scope shall be submitted with the tender (D)

COMPLIANCE (C/PC/NC/NOTED)	
<i>[INSERT FULL RESPONSE FOR EVALUATION HERE]</i>	
<i>[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]</i>	

3.2 Installation, Transition and Commissioning (ITC) Plans

- [A] The Contractor shall prepare an Installation, Transitioning and Commissioning Plan to clearly indicate the risks and methodology for the installation of the new systems, while the service is being provided by the existing system continues uninterrupted. (D)

COMPLIANCE (C/PC/NC/NOTED)	
<i>[INSERT FULL RESPONSE FOR EVALUATION HERE]</i>	
<i>[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]</i>	

- [B] The ITC plan shall include contingency measures which will ensure that the current services provided at FAOR and FACT remain uninterrupted throughout the project implementation period. The current ASMGCS system shall be decommissioned only after successful acceptance of the offered systems and an agreed stabilisation period. Plan shall indicate how the transition from the existing installation will be achieved, leading to the commissioning and acceptance of the new system. The Plans are required to indicate how the

Contractor will plan and manage the installation and transition, including the cutover and commissioning procedures and the decommissioning and withdrawal from service of existing services. The Tenderer shall submit a draft ITC plan that is specific to the project requirements and scope as part of the tender response. (M)

COMPLIANCE (C/PC/NC/NOTED)	
<i>[INSERT FULL RESPONSE FOR EVALUATION HERE]</i>	
<i>[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]</i>	

3.3 Health and Safety Management Plan

[A] The Contractor shall prepare a draft Health and Safety Management plan for the implementation of the project covering all envisaged risks related to the supply, delivery, installation and commissioning of the offered A_SMGCS. The Plan shall comply with the Occupational Health and Act of South Africa (Act 85 of 1993) and applicable regulations. (D)

COMPLIANCE (C/PC/NC/NOTED)	
<i>[INSERT FULL RESPONSE FOR EVALUATION HERE]</i>	
<i>[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]</i>	

3.4 Risk Management Plan

3.4.1 Risk Analysis

[A] The Contractor shall prepare a Risk Management Plan. Tenderers shall submit with their tender an outline of their policy and methodology for risk identification, assessment and abatement for all activities to be executed under

this project, this shall encompass all phases of the project including the PBU period. (D)

COMPLIANCE (C/PC/NC/NOTED)	
<i>[INSERT FULL RESPONSE FOR EVALUATION HERE]</i>	
<i>[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]</i>	

- [B] The Contractor shall maintain throughout the execution of the contract a risk register which identifies risks and opportunities, estimated level of risk and the consequences and risk reduction strategies associated with: (D)
- [a] program objectives;
 - [b] technology involved;
 - [c] system performance; and
 - [d] program schedules.

COMPLIANCE (C/PC/NC/NOTED)	
<i>[INSERT FULL RESPONSE FOR EVALUATION HERE]</i>	
<i>[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]</i>	

- [C] The Contractor shall provide a Risk Report to each Progress Review Meeting to indicate the status and action associated with identified risk items. The format of the Risk Report shall be mutually agreed. (D)

COMPLIANCE (C/PC/NC/NOTED)	
<i>[INSERT FULL RESPONSE FOR EVALUATION HERE]</i>	
<i>[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]</i>	

3.5 Technical Reviews and Meetings

[A] The technical reviews and meetings shall consist of at least the following:

[a] System Requirements Review. (D)

COMPLIANCE (C/PC/NC/NOTED)	
<i>[INSERT FULL RESPONSE FOR EVALUATION HERE]</i>	
<i>[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]</i>	

[b] Preliminary Design Review. (D)

COMPLIANCE (C/PC/NC/NOTED)	
<i>[INSERT FULL RESPONSE FOR EVALUATION HERE]</i>	
<i>[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]</i>	

[c] Critical Design Review. (D)

COMPLIANCE (C/PC/NC/NOTED)	
<i>[INSERT FULL RESPONSE FOR EVALUATION HERE]</i>	
<i>[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]</i>	

[B] The above requirements are representative requirements and Tenderers may offer alternative plans, which must list and describe the Technical Reviews and Meetings they would propose for this project. (I)

COMPLIANCE (C/PC/NC/NOTED)	
<i>[INSERT FULL RESPONSE FOR EVALUATION HERE]</i>	
<i>[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]</i>	

- [C] The Contractor shall be required to provide appropriate and adequate documentation in support of these reviews at least 1 month in advance. Tenderers shall include in their tender a description of the level and extent of documentation to be provided at the Technical Reviews and Meetings. (D)

COMPLIANCE (C/PC/NC/NOTED)	
<i>[INSERT FULL RESPONSE FOR EVALUATION HERE]</i>	
<i>[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]</i>	

4 ENVIRONMENTAL MANAGEMENT PROGRAMME

- [A] The Contractor shall develop an Environmental Management Programme (EMPr) based on identified activities which may have potential or actual environmental impacts before the commencement of work in accordance to the National Environmental Management Act (No. 107 of 1998) and associated environmental legislation as well as ATNS' environmental specifications (D)

COMPLIANCE (C/PC/NC/NOTED)	
<i>[INSERT FULL RESPONSE FOR EVALUATION HERE]</i>	
<i>[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]</i>	

- [B] The Tenderer shall provide a Draft Environmental Management Programme (EMPr) specific to the project scope, as defined in the Request for Tender. (D)
The environmental management programme shall address, without limitations, the following: (D)
- [a] Energy efficiency pertaining to all aspects of the project;
 - [b] The use of Environmentally sustainable materials and products;
 - [c] Biodiversity management i.e. soil erosion, clearance of vegetation, rehabilitation of the site, all flora and fauna protection;
 - [d] Waste management;
 - [e] Water management;
 - [f] Air quality management i.e. dust suppression; and
 - [g] Visual and aural impacts.

COMPLIANCE (C/PC/NC/NOTED)	
<i>[INSERT FULL RESPONSE FOR EVALUATION HERE]</i>	

[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]

- [C] The Tenderer shall provide a suitable qualified environmental officer or service provider to render the services required as per EMPr activities associated with this project. (D)

COMPLIANCE (C/PC/NC/NOTED)	
<i>[INSERT FULL RESPONSE FOR EVALUATION HERE]</i>	
<i>[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]</i>	

5 QUALITY ASSURANCE

5.1 Quality Assurance Programs

- [A] The Tenderers shall demonstrate the existence of a formal quality management system that is fully documented, implemented maintained and complies with the ISO 9001 standard. (D)

COMPLIANCE (C/PC/NC/NOTED)	
<i>[INSERT FULL RESPONSE FOR EVALUATION HERE]</i>	
<i>[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]</i>	

- [B] The Tenderer shall include with the offer, proof of certification by an accredited ISO body, or objective evidence of documented QMS that is not certified but complies with ISO9001 (i.e. details of quality assurance procedures, work instruction, methods etc.). (D)

COMPLIANCE (C/PC/NC/NOTED)	
<i>[INSERT FULL RESPONSE FOR EVALUATION HERE]</i>	
<i>[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]</i>	

- [C] Tenderers must indicate the QA measures and standards that were used for the development of the systems offered and those that are applicable for the successful delivery of Project. (D)

COMPLIANCE (C/PC/NC/NOTED)	
<i>[INSERT FULL RESPONSE FOR EVALUATION HERE]</i>	
<i>[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]</i>	

5.2 Quality Assurance Audits

- [A] Audit reports in respect of the project as prepared by the Contractor as part of his internal QA procedures, and details of any corrective action reports and corrective action taken, shall be submitted to the Company. (D)

COMPLIANCE (C/PC/NC/NOTED)	
<i>[INSERT FULL RESPONSE FOR EVALUATION HERE]</i>	
<i>[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]</i>	

- [B] The Company reserves the right to perform any inspections, tests or audits at the Tenderer's or major sub-contractor's premises at any time when such tests are deemed necessary to ensure Supplies and Services conform to specified requirements. Such inspections may also be conducted by the Company during the shortlisting phase of this tender. (D)

COMPLIANCE (C/PC/NC/NOTED)	
<i>[INSERT FULL RESPONSE FOR EVALUATION HERE]</i>	
<i>[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]</i>	

5.3 Responsibility for Quality Assurance

- [A] The Contractor shall be responsible for ensuring that the quality of equipment and software supplied in accordance with the terms of the Contract, and any installation activity performed, fully conforms to the prescribed requirements. The Company will undertake a monitoring and audit role in relation to the Contractors Quality Management Plan and program to determine whether equipment, software or installation deliverables meet the contractual requirements. (D)

COMPLIANCE (C/PC/NC/NOTED)	
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<i>[INSERT FULL RESPONSE FOR EVALUATION HERE]</i>
<i>[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]</i>

5.4 Contract Data Requirements List

[A] A copy of the ATNS standard CDRL is provided below for information purposes. Tenderers shall submit a proposed Contract Data Requirements List (CDRL) which incorporates all data requirements stated in this RFT, together with a delivery schedule. (D).

Project Management Requirements		
Contract Data Requirements List		
Document	Section	Delivery Timeframe
Administration and Coordination		
General Correspondence		
Project Review Meeting Minutes		
Project Review Meeting Agenda		
Project Status Reports		
Risk Report		
Quality Assurance Audit Report		
Systems Engineering Definition		
Project Management Plan		
Activity List		
Resource Allocation Plan		
Work Breakdown Structure		
Risk Management Plan		
Hardware development Plan		
Software Development Plan		
Systems Engineering Management Plan		
Installation Management Plan		
Quality Plan		
System Design Document		

Testing & Commissioning		
Installation Transition & Commissioning Plan		
Test & Evaluation Master Plan		
Acceptance Test Procedures		
Acceptance Certificates		
Quality Report		
Safety Case		
Site		
Shelter Specifications		
Site Earth		
Miscellaneous Specifications		
Site Survey Reports		
Equipment Installation Drawings		
Environmental Impact Issues		
Occupational Health & Safety Plan		
Site Handover		
Civil & Electrical Works		
Project Schedule		
Master Project Schedule		
Schedule Review Reports		
Finance		
Payment Schedule		
Invoices		
Orders		
Variation Orders		
Request for Change		
Logistics		
Integrate Logistics Support Plan		
Configuration Management Plan		
System Technical & Operator Handbook		
As-Built Documents		
PBU Reference Guide		
Logistics Support Analysis Plan		

Logistics Support Analysis Report		
Life Cycle Costing Programme Plan		
Maintenance Plan		
Software Support Plan		
Maintenance Contract (HW & SW)		
Period of Beneficial Use		
PBU Logistic Correspondence		
PBU Agenda & Minutes		
PBU Reports ATNS		
PBU Reports Contractor		
Failure Reports		
PCR's		
RAM Statistics		

COMPLIANCE (C/PC/NC/NOTED)	
<i>[INSERT FULL RESPONSE FOR EVALUATION HERE]</i>	
<i>[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]</i>	

- [B] Tenderers shall also identify any additional data or documentation that they consider shall be included in the CDRL, together with a description of the item and the reason for inclusion, for the purpose of operating and maintaining the System. (D)

COMPLIANCE (C/PC/NC/NOTED)	
<i>[INSERT FULL RESPONSE FOR EVALUATION HERE]</i>	
<i>[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]</i>	

- [C] The CDRL shall identify the status of the CDRL item, i.e. draft, final. (D)

COMPLIANCE (C/PC/NC/NOTED)	
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[INSERT FULL RESPONSE FOR EVALUATION HERE]

[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]

- [D] All CDRL items shall be delivered to the Company in draft format for Company concurrence prior to final delivery. The Contractor shall be responsible for timely delivery of all CDRL items consistent with the overall project schedule.

(D)

COMPLIANCE (C/PC/NC/NOTED)	
<i>[INSERT FULL RESPONSE FOR EVALUATION HERE]</i>	
<i>[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]</i>	

--- END OF VOLUME 3 ---