

INVITATION TO BID

AIR TRAFFIC AND NAVIGATION SERVICES SOC LTD (ATNS) REPUBLIC OF SOUTH AFRICA



**REQUEST FOR PROPOSALS (RFP): ATNS/TS/RFP004/25/26/FAOR GENERATORS
THE APPOINTMENT OF A SERVICE PROVIDER TO SUPPLY, DELIVERY,
INSTALLATION, DECOMMISSIONING AND COMMISSIONING OF GENERATORS AT O.R.
TAMBO INTERNATIONAL AIRPORT (FAOR) WITH MAINTENANCE AND SUPPORT
CONTRACT.**

BID REQUIREMENTS: VOLUME 1

November 2025

The information contained within this document is confidential to ATNS in all respects and it is hereby acknowledged that the information 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

ATNS	Air Traffic and Navigation Services Company
ATC	Air Traffic Control
CD	Compact Disk
DB	Distribution Board
FAOR	O.R. Tambo International Airport
HMI	Human-Machine Interface
OJT	On the Job Training
SSS	System Safety Suite
PC	Personal Computer
UPS	Uninterruptible Power Supply

GENERAL INSTRUCTIONS TO BIDDERS

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

To assist Bidders 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:

BIDDERS 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 Bidder’s offer meets the requirement. Bidder’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”**.

Bidder’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.

For paragraphs marked “PC” or “NC”, Bidder’s shall 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.

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

VOLUME 2 - TECHNICAL SPECIFICATIONS

CHAPTER 1: GENERAL SPECIFICATIONS

GENERAL SPECIFICATIONS FOR ELECTRO-MECHANICAL EQUIPMENT

1 Project Introduction

This bid calls for the removal and disposal of the existing Generators (2) at the substation as well as at the emergency building, SSS (2) with subsequent supply, delivery and installation of new generators. The project also includes associated refurbishments, civil and electrical works at these sites at O.R. Tambo International Airport (FAOR). (I)

1.1 Scope of Work

Substation	SSS
Two 3-phase Electrical Generators 600 kVA, 440 kW, 1500rpm, 0.8 power factor, 50Hz	Two 3-phase Electrical Generators 120 kVA, 96 kW, 1500rpm, 0.8 power factor, 50Hz

Figure 1: Summary of Requirements

The scope of the project is to:

- Decommission and dispose of the existing Generators at the substation (two) as well as at the emergency (SSS) building (two) in line with the ATNS processes and procedures.
- Install two new generators at the substation as well as two new generators at the SSS building.
- Replace the day tanks for all generators
- Perform an overall assessment to validate that the existing UPSs and the new Generators' ratings are compatible together and sufficient to support the load, at both locations.
- Perform all necessary and required civil and duct works.
- Establish a maintenance and support contract for all (four) Generators.

2 GENERIC REQUIREMENTS

2.1 General

[A] The Bidder shall provide a Turn-Key solution addressing all project requirements and indicate their understanding of the scope of work (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

[B] The Contractor shall take full responsibility of all piping, civil and duct works required for the installation of the system including painting, wall filling etc. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

2.2 Environmental Conditions

Indoor Conditions	Operational Temperature	Ambient -5 °C to +60 °C
	Relative humidity	<95% in the range of –5°C to +35°C <60% in the range of + 35°C to 40°C
	Height above sea level	1 694 m

[A] The Bidder shall indicate how the systems offered shall operate within specifications under the above environmental conditions and tolerances. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

[B] The system shall be made of a non-corrodible and non-deteriorating material. Bidders shall provide supporting documentation for this requirement. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		

[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]

2.3 Mains Supply

[A] The system offered shall operate from a mains power supply as specified below, and the Bidder shall include data sheets for each system as supporting information. (D)

- Single-phase: 230 VAC, Tolerance: +5% / -5%
- Three-phase: 400 VAC, Tolerance: +5% / -5%
- Frequency: 50 Hz, Tolerance: +2 Hz, -2 Hz

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

[B] Each system shall be supplied with an isolator switch installed between the equipment and the mains power supply. Bidders to include data sheets and specifications on the offered isolator switch. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

2.4 Cabling

[A] Power cables shall be neatly installed in cable trays and/or ducts as applicable and shall not run parallel to data cables. The bidder shall submit a proposed cable-layout drawing of the offered systems. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

[B] All high voltage cables shall be designed according to local and international standards as described in Section 0. The bidder shall describe which high voltage cables will be used for installation purposes. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

2.5 Transition Plan

[A] The project shall include provision of an outlet connection point to the main FAOR building to facilitate the temporary connection of a mobile generator for backup power supply during the replacement of the existing generators. The bidder shall indicate compliance to this requirement. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

[B] The mobile generator shall be provided by the contractor. The bidder shall include the details of the proposed mobile generator. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

[C] The Bidder shall propose a transition plan to support the replacement of the Generators at both locations with minimal disruption of service. The proposed draft transition plan shall be provided as part of this bid. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

2.6 Software

[A] All equipment related software shall be supplied and placed under configuration control. Bidders shall indicate compliance. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

[B] The Bidder shall confirm that all information supplied may be copied by the Company for backup purposes and internal distribution. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

2.7 Equipment Installation

- [A] The ATNS Project Manager reserves the right to attach ATNS Company officials to the Supplier's installation party during installation, setting up and commissioning of the equipment for gaining practical experience (OJT) on the equipment. (I)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

- [B] The final parameters and settings will be recorded by the Contractor on the successful installation and will be made available to the Company as part of the As-Built document. (I)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

- [C] All Generators shall have a respan of at least 15 years. The bidder shall provide written OEM letter that their proposed generator has a lifespan of 15 years. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

- [D] The supplier shall have a well-established spares distribution network in South Africa. The bidder shall provide supporting documentation for their spares distribution network. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

2.8 Electrical Work

The bidder shall describe their understanding of the following requirements:

- [A] The Contractor shall be responsible for disconnecting the current Generators from the DBs and shall be responsible for supplying, installing and connecting power cables from the new Generators to the DBs for three phase power and balancing the electrical load on all phases. Bidders shall indicate compliance. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

- [C] The Bidder shall provide details on the circuit breakers required in the DBs that will be compatible with the installation of the new Generators and include the associated costs. The bidder shall provide data sheets for the proposed circuit breakers. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

- [D] The Contractor shall replace the circuit breakers in the DBs which are not compatible with the new Generators. The bidder shall provide data sheets for the proposed circuit breakers. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

- [E] The contractor shall issue a COC (Certificate of compliance) on all electrical works completed. Bidders shall indicate compliance. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

- [F] The Contractor shall ensure that all equipment installed are earthed following the SANS 10142-1-2/3 and related SANS standards. Bidders shall indicate compliance. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

- [G] A wiring diagram showing the proposed layout of the power cables shall be provided. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

- [H] Three phase status monitor (open/close contact) of the infeed three-phase supply is required as there is a problem of losing some phases during power failures. Bidders shall indicate compliance. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

- [I] Full details on the panels which are compatible with the new generators shall be submitted. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

2.9 Regulations

[A] The installation shall be made and tested in accordance with at least the following Acts and regulations:

- The latest issue of SABS 0142: "Code of Practice for the Wiring of Premises".
- The Occupational Health and Safety Act, 1993 (Act 85 of 1993) as amended.
- The Local Government Ordinance 1939 (Ordinance 17 of 1939) as amended and the municipal by-laws and any special requirements of the local supply authority.
- The Fire Brigade services Act 1993 Act 99 of 1987 as amended.
- The National Building Regulations and Building Standards Act 1977 (Act 103 of 1977) as amended.
- The Electricity Act 1984 (Act 41 of 1984) as amended.
- The Regulations of the local Gas Board where applicable.

The bidder shall describe how the execution of the project shall be in line with regulations indicated above. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

2.10 Remote Monitoring System

[A] All Generators shall have means to be monitor the generator status remotely preferably a web-based solution. the Bidder shall provide evidence showing the available means to monitor the generator remotely. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

[B] The offered generators shall include a status indicator module capable of remotely monitoring the following parameters:

- Generator mode
- Generator status
- Generator fuel level

The bidder shall indicate how this requirement is addressed (D).

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

2.11 Warning Notices

[A] The Occupational Health and Safety Act 83 of 1993 shall be consulted and approval obtained, prior to ordering the following notices and indicate letter colouring for all notices. These notices must be placed in the relevant places concerned with the Generator. Bidders shall indicate compliance. (D)

- Unauthorised entry prohibited.
- Unauthorised handling of equipment prohibited.
- Procedure in case of electric shock.
- Procedure in case of fire.

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

[B] These notices shall be made of a non-corrodible and non-deteriorating material. Bidders shall indicate compliance. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

[C] The Generator area shall include an additional notice to include the following words:

DANGER: This engine will start without notice. Turn selector switch on control board to "OFF" before working on the plant.

Bidders shall indicate compliance. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

2.12 Manufacturing

[A] The supplier's product manufacturing processes considering environmental and social aspects shall be provided. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

[B] Following the award of the contract and prior to the delivery and installation of the system, the Contractor shall conduct a comprehensive assessment of the site's power load to verify compatibility between the existing UPS units and the specifications of the new Generator. This assessment of load compatibility with the UPS and Generator is intended to prevent any equipment from failure during operation. The bidder shall describe how this assessment will be carried out. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

2.13 Commissioning

The bidder shall describe their understanding of the requirements below:

[A] The Contractor shall perform an integrity test before commissioning of the systems and shall submit a report as a part of the documentation. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

[B] The Contractor shall submit a certificate of compliance on completion of work. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

CHAPTER 2: SPECIFICATION FOR THE GENERATOR

SPECIFICATION FOR THE GENERATOR

1 GENERAL

1.1 Substation

The bidder shall submit proof of their offered systems as indicated below:

[A] There shall be two (2) generators installed at the sub-station and shall have the following specifications: The bidder shall include a datasheet of the proposed generators. (D)

- Apparent Power – 600 kVA
- Frequency – 50Hz
- Power Factor – 0.8
- Rated Power – 480kW
- Speed – 1500RPM
- Voltage rating – 400/230 V (Ph-Ph/Ph-N)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

[B] The contractor shall undo the welding at the substation grill and thereafter safely remove the generators and shall re-install the grill once, the new generators have been commissioned. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

1.2 Substation pictures



[A] Above are included the pictures of the existing 2 generators at the substation. (I)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

1.3 SSS building

The bidder shall submit proof of their offered systems as indicated below:

[A] There shall be two (2) generators installed shall installed at the SSS building and shall have the following specifications: The bidder shall include a datasheet of the proposed generators. (D)

- Apparent Power – 120 kVA
- Frequency – 50Hz
- Power Factor – 0.8
- Rated Power – 96kW
- Speed – 1500RPM
- Voltage rating – 400/230 V (Ph-Ph/Ph-N)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

- [B] The contractor shall undo the welding at the SSS building grill and thereafter safely remove the generators and shall re-install the grill once, the new generators have been commissioned. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

1.4 SSS building pictures



- [A] Above are included the pictures of the existing generator at the SSS building. (I)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

1.5 Signage

- [A] The Contractor shall install signage associated with the placement of the system. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

1.6 Water jacket heater

- [A] The water heater jacket shall be included on all generators. This device ensures that a generator may start without delay and the engine coolant of a diesel generator is maintained at a consistent and optimal temperature. The details of the proposed water jacket heater shall be included. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

1.7 Day Tanks

- [A] All Day tanks shall be decommissioned, disposed of and shall be replaced with new Day tanks. Each day tank shall have a storage capacity to supply a generator with fuel for at least 12 hours. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

- [B] The project shall provide bunding for the diesel tank, designed to contain a minimum of 110% of the tank's capacity in the event of a spill. The bidder shall indicate compliance. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

1.8 Operation

- [A] Both generator sets shall be fully automatic, they shall start when any one phase of the main supply fails or gets switched and shall shut down when the normal supply is re-established. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

1.9 Generator Alarm

- [A] The Generator shall be connected to a siren which will sound once a fault has been detected. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

1.10 Interlocked Contactors

- [A] To prevent the alternator being electrically connected to the mains supply when the mains supply is on and vice versa, a safe and fail proof system of suitably interlocked contactors shall be supplied and fitted to the control panel. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

1.11 Fuel Drip Tray

- [A] A drip tray shall be mounted below the fuel tank and shall be large enough to collect any fuel that drips from the tank accessories. The drip tray shall be manufactured from mild steel. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

1.12 Exhaust Silencer

- [A] A critical type silencer, companion flanges, and flexible stainless-steel exhaust fitting properly sized shall be furnished and installed according to the manufacturer's recommendation. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

- [B] The Contractor shall ensure that the silencer is mounted independently, so that its weight is not borne by the engine. This installation shall also accommodate thermal expansion of the exhaust system without transferring stress to the engine. The bidder shall indicate how this work will be performed. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

- [C] Exhaust pipe size shall be sufficient to ensure that exhaust backpressure does not exceed the maximum limitations specified by the engine manufacturer. The bidder shall indicate compliance. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

- [D] Information which indicates that the exhaust fumes that leaves the exhaust pipe are within environmental regulations shall be provided. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

1.13 Derating conditions

- [A] The complete generator sets shall be de-rated according to the site conditions with all components tropicalised. The bidder shall indicate compliance. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

1.14 Generator Fuel consumption

- [A] The fuel consumption of the complete generating set-in litres per hour (l/h) at Full load, $\frac{3}{4}$ load and $\frac{1}{2}$ load shall be indicated. (D)

Note: A tolerance of 5% shall be allowed above the stated value of fuel consumption.

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

1.15 Fault Current Rating

- [A] All equipment shall be designed to withstand a fault current of at least 5 kA. The bidder shall indicate compliance. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

1.16 Automatic Transfer Switch

- [A] The Automatic Transfer Switch shall transfer the load from the mains supply to a Generator set during the first power disruption and then transfer the load to the other generator during the next disruption and so on. The configuration required, is that the generators shall be so installed, such that generator A, will start up when a power failure occurs and then generator B, will start up, when the next power failure occurs, thereafter generator A, again. This cycling mechanism is required, and the bidder shall describe their understanding of this requirement. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

- [B] Should a generator fail to start on the transfer of load, the Automatic Transfer Switch shall transfer the load to the other generator. The bidder shall indicate compliance. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

- [C] If generator A is unavailable or out of service, the automatic transfer switch shall automatically transfer the load to generator B during a mains power failure, and generator B shall remain in operation until generator A is restored to service, and vice versa. The bidder shall explain their understanding of this requirement and provide solutions on how to carry it out. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

- [D] The Automatic Transfer switch ratings in amps and volts for its relays and its protection mechanism with adequate substantiation shall be indicated. The bidder shall indicate compliance. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
/[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

- [E] The Ratings in amps of the change-over equipment, mains on load isolator, the by-pass switch & Circuit breaker to outgoing feed with adequate substantiation shall be indicated. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

- [F] Once a fault on the mains supply had been detected, the automatic control feature shall make provision for three consecutive starting attempts on a generator set, thereafter the set shall be switched off and the start failure relay on the control panel shall provide a visible and audible indication of the fault with an indication on RCMS. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

VOLUME 3 – PROJECT MANAGEMENT REQUIREMENTS

CHAPTER 3: PROJECT MANAGEMENT

PROJECT MANAGEMENT

1 General

- [A] ACSA permits are required by all those who will attend the site briefing as well as by all work personnel who will be involved in the implementation of the project. Site access requires the possession of an ACSA permit. The bidder shall describe their plan to obtain ACSA permits, for work personnel who may not be in the possession of ACSA permits. The plan shall further make provision for security training and vehicle permits after contracting. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

2 Reference Letter

- [A] The Bidder shall submit one (1) contactable reference letter (on company letterhead) from a company or customer that the bidder has operationally installed generators during the past ten (10) years. The reference letter shall explicitly reflect when the project was done and state who deployed the generator and that the system is operational. The reference letter shall include the customer's telephone number and/or email address. (M)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

- [B] The Bidder shall submit one (1) contactable letter dating back to at least 5 years of installation to indicate Bidder's experience. The reference letter shall explicitly reflect when the project was done and state who deployed the generator and that the system is operational. The reference letter shall include the customer's telephone number and/or email address. (M)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

3 Project Management Plan

- [A] The Bidder shall submit a detailed draft Project Management Plan (PMP) with the proposal response. The Project Management Plan will be a formally accepted and approved document used to manage and control project executions throughout the project life-cycle phases. The PMP shall detail the activities necessary to successfully complete the project and shall refer to the other plans developed for the individual airports under the project. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

4 Project Schedule

- [A] The contractor shall develop, maintain and track progress against the Project Schedule, which shall be organized to depict flow of work, task interdependencies and interrelationships necessary to accomplish the program objectives from contract award to completion. This Project Schedule shall be broken down to a sufficient level of detail and included in this bid. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

- [B] The project schedule includes all contractual specified milestones, identifies the critical path and is linked to the Work-Breakdown Structure. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

5 Project Review Meetings

- [A] The Contractor shall attend Progress Review Meetings to present the Project Status Report to the company. The regular Progress Review meetings shall be held at the airport premises, the Company's Office, or at other mutually agreed locations. A copy of the Bidder'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. The bidder shall provide a template for Project Status Report. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

- [B] The Contractor shall be represented by appropriate key personnel in each significant area to be considered during the meeting to enable effective discussion of agenda items and the Progress Report. The Project Manager and relevant specialists and support personnel shall represent the Company. The Project Manager shall chair the Progress Review Meetings. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

- [C] The Contractor and the Company will each bear their own costs associated with attending Progress Review Meetings. (I)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

6 Installation Management Plan

6.1 Work Breakdown Structure (WBS)

[A] The Work Breakdown Structure enables the Company to maintain visibility of the project elements. The Bidder shall prepare and include in his proposal response, a draft WBS for the airport. The WBS shall identify all activities and work packages required from contract award to successful completion and commissioning of the Generators. The WBS shall be included in the draft Construction and Installation Management Plan to be submitted as part of the proposal response. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

6.2 Resource Allocation Plan

[A] The Bidder shall develop a Resource Allocation Plan, which identifies the resources, including sub-contract resources, to be applied to each element, activity and/or work package of the project. The Plan shall clearly identify all project related organisational breakdowns, responsibilities and work proposed. The Resource Allocation Plan shall be included in the draft Installation Management Plan to be submitted as part of the proposal response. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

6.3 Resumes of Key Personnel

[A] The Bidder shall ensure that only appropriately qualified and experienced personnel will be employed on the tasks and or work packages identified. 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. The Bidder shall include as part of the resource allocation the resumes of key personnel to be dedicated to the project. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

6.4 Installation and Transition Plans

[A] The Bidder shall include a draft installation and transition plans in this bid response. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

7 Testing & Commissioning

7.1 Test and Evaluation Master Plan

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

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

7.2 Acceptance and Commissioning Tests

[A] Specific testing and evaluation procedures for the Acceptance Tests (e.g. Physical Inspections, Final Site Acceptance Tests, etc.) shall be defined and detailed in the Test and Evaluation plan for each project deliverable. Indication shall be made of the type of test equipment required for each test described, shall be clearly documented. The bidder shall submit a draft test and evaluation plan. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

8 Safety, Health and Environment (SHE) Specification

8.1 Decommissioning and Disposal

- 8.1.1 Contractor shall ensure duty of care during execution of the project shall be liable for the costs of remedying pollution, environmental degradation and consequent adverse health effects as per the National Environmental Management Act 107 of 1998. And all environmental incidents shall be recorded and reported to ATNS. The Bidder indicate compliance to this requirement. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

- 8.1.2 All waste generated during the execution of the scope of work shall be managed in accordance with ATNS' Waste Management Procedure. A Waste Management Plan should be provided as per the principles of the National Environmental Management Act (NEMA): Waste Act (No.59 of 2008 and must be submitted and approved by the Safety, Health and Environment unit to ensure that the existing equipment, and related components, that are replaced are uninstalled, disassembled and disposed of in an environmentally friendly manner and in line with current environmental laws. The Bidder shall indicate compliance with this requirement. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

- 8.1.3 Records/ Certificates of disposal as well as the authorisation documentation (certificates of registration) for a waste service provider/s appointed by the contractor, shall be kept at sites and sent to ATNS Safety, Health and Environment unit. The Bidder indicate compliance to this requirement. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

- 8.1.4 An environmental management plan detailing identified environmental aspects and impacts relating to their activities that will be carried out will be managed throughout the project execution. This shall also include employee induction on environmental management prior to commencement of work and records kept. The Bidder indicate compliance to this requirement. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

- 8.1.5 Diesel is considered Group II hazardous substance according to the Hazardous Substance Act. Diesel is classified as a Class 3 hazardous substance (Flammable Liquid) according to SANS 10228. As per the Ekurhuleni Metropolitan Municipality Emergency Services By-Laws, a certificate of registration shall be obtained for the storage of the diesel for quantities exceeding 1100 litres. Additionally, integrity monitoring shall be currently undertaken on the underground diesel storage tank. The Bidder indicate compliance to this requirement. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

8.2 Occupational Health and Safety Plan

8.2.1 Roles and responsibilities

[A] Appointed principal contractors

The appointed contractor shall: (I)

- Carry out all duties as listed in section 8, 9 and 10, the various other regulations that form part of the OHS Act.
- Carry accountability and responsibility for the safety and health of their employees within their working area, as contemplated by section 37(2) of the OHS Act.
- Shall keep a record of all employees including date of induction, relevant skills and licenses and be able to produce this list at the request of the ATNS Project Manager.
- Ensure that all their appointees are made aware of their accountabilities and responsibilities in terms of their appointment and that they advise and assist these appointees in the execution of their duties.
- Ensure that the minimum legislative, regulatory and ATNS SHE requirements are complied with on site.
- Compile a SHE (Safety, health and environmental) file where all relevant health and safety records are kept.

The appointed principal contractor shall: (I)

- Provide the project manager **with a certified copy of his/her Compensation Commissioner's valid letter of good standing before the commencement of work and any future renewal letters obtained during the project for record-keeping purposes.** The letter of good standing shall reflect the name of the contractor's company.
- Appoint competent staff to perform the project work and ensure that all employees are trained in the health and safety aspects relating to such work and that the employees understand the hazards associated with all other work being carried out on the project.
- Ensure that all employees are conversant with all relevant work procedures and that they adhere to such procedures.
- Stop his /her employees if project work is not in accordance with the safety health and environmental plan or if such work poses a threat to the health and safety of persons or a risk of degradation to the environment.
- Appoint full-time competent employees in writing to supervise the performance of all specified work throughout the contract period.
- The SHE costing shall be itemised and shall take into consideration the scope of work. The appointed principal contractor shall make sure that he/she made adequate provision for the cost of health and safety measures during the bidding process.

Note 1 No work may commence or continue without the presence of the project manager or project supervisor during performance of the contracted work.

- Appoint a full-time safety officer as per project risk.
- Not victimise or dismiss employees, by virtue of the employees divulging health and safety information or suspecting such information has been divulged, in the interests of health and safety requirements;
- Follow a process of disciplinary action if any of their employees have transgressed any of the requirements of the health and safety specification, safety and health plans, site rules or any other requirements.
- Ensure that pre-task risk assessments are conducted and documented daily and prior to the starting of any new task, irrespective of whether it is a repetitive task or not.
- Take prime responsibility for all aspects of environmental management associated with the project activity for which they are responsible.
- Ensure that pre-employment, periodic and exit medicals are carried out on their employees. Medical assessments shall be conducted by a registered Occupational Health Practitioner.

Note 2: Should the appointed principal contractor entertain visitors on site, he/she will be held responsible for the provision and wearing PPE.

- Ensure that no alcohol or other intoxicating substances are brought on to, or remains on the work sites.
- Ensure that all equipment and tools used comply with OHS Act requirements with respect to condition, use, care, storage, maintenance, and the management of these.
- Ensure that all incidents are reported and investigated timeously by competent incident investigators.
- Establish health and safety committees, hold such committee meetings on site.
- Chair their own health and safety committee meetings and record such meetings.
- Appoint health and safety representatives in terms of legislative requirements.
- When appointing contractors, advise the ATNS project manager/contract manager in writing timeously and obtain his/her approval prior to them commencing work.

[B] Site Managers

Site Managers shall: (I)

- Assist the contractor and/or the safety officer in conducting site induction training for new staff and site visitors.
- Have attended a legal liability competent training from a SAQA approved training provider
- Communicate to all employees under their control on any hazardous and work-related procedures, before any work commences and thereafter, at such times as may be determined by a risk assessment.
- Ensure that the minimum legislative and ATNS SHE requirements are complied with on all work sites.
- Stop any work that is not in accordance with the safety and health plan or if such work poses a threat to the safety and health of persons or a risk of degradation to the environment.
- Ensure that risk-based Personal Protective Equipment (PPE) has been issued and employees use the PPE as instructed.
- Inspect such PPE on a regular basis and record the inspections.
- Ensure that all incidents are reported to the client and are investigated.
- Be involved in all investigations that occur within their area of responsibility.
- Carry out audits and/or inspections on their sub-contractors on instructions of their contractor.
- Ensure that employees under their control are conversant with all relevant work procedures and that they adhere to such procedures.
- Ensure that daily or pre-task risk assessments are conducted and documented daily and prior to the starting of any new task, irrespective of whether it is a repetitive task. Ensure that the team are involved in the abovementioned risk assessments.
- Ensure that all appropriate precautions are taken to protect persons (visitors, members of the public, and other contractors) present at work or in the vicinity of a project site against all risks that may arise from such a site.
- Ensure that no alcohol or other intoxicating substances are brought on to, or remains on, the premises / work sites and that no employee remains on site if he/she is under the influence.
- Ensure that all equipment and tools used on site comply with OHS Act requirements regarding condition, use, care, storage, maintenance, and the management thereof.

- Not victimise their employees by virtue of their employees divulging health and safety information or suspecting such information has been divulged, in the interests of health and safety requirements (reference – section 26 of the OHS Act).
- Where any work is performed which involves the environment, ensure that minimal damage is done to the environment and that where an Environmental Management Plan is in place, adhere to the plan.
- Stop any employee or contractor from performing work which is not in accordance with the appointed principal contractor's health and safety plan which poses a threat to the health and safety of persons.

[C] Contractor site supervisor

The contractor site supervisor shall: (I)

- Be competent to perform the required supervisory tasks.
- Have attended a supervision or legal liability competent training from a SAQA approved training provider.
- Ensure their employees comply with the required statutory and ATNS requirements.
- Ensuring a safe working environment is established and maintained by the contractor for the elimination of unsafe acts by all people whilst on the project site.
- Conduct site inspections for compliance to SHE requirements and compiles the relevant inspection reports.
- Participate in the appointed contractor's emergency preparedness planning.
- Ensure that their own employees are competent to perform the tasks assigned.
- Assist the appointed contractor with the handing over process, in particular the SHE file and relevant documentation.

[D] Contractor Health and Safety officer

The contractor Health and Safety officer shall: (I)

- Be suitably qualified with a recognised safety qualification.
- Be part time on site as per project risk.
- Promote a SHE culture within the organisations involved in the project / contract.
- The contractor's safety officer shall assist in the control of all health and safety-related matters on site.
- Be involved in the developing of the project SHE plan and SHE policy.
- Ensure that this SHE specification is adhered to by his/her appointed contractor.
- Conduct inspections of all work sites for the duration of the project.
- Be involved in the organisation's incident investigations when required.
- Conduct organisational, site and visitor induction training.
- Stop any employee or contractor from performing work which is not in accordance with the appointed contractor's health and safety plan which poses a threat to the health and safety of persons.

8.3 Section 37(2) (Legal) Agreement

- [A] A section 37(2) agreement shall be signed between ATNS Contract Manager/Project Manager and the appointed principal contractor at the time of awarding the contract. This agreement shall be submitted as part of the safety file package. (I)

8.4 Notification of Construction Work

- [A] Unless otherwise contractually agreed upon, the appointed principal contractor shall notify the relevant provincial director of the Department of Employment and labour of the intention of carrying out any construction work as defined in Construction Regulation 4 of the Act. The notification form of construction work is listed as an annexure to the construction regulations of the OHS Act. A copy of the notification letter sent to the DoE shall be forwarded to the Project Manager on the same day as sent to the DoE. A copy of the letter and their approval shall be kept in the SHE file. When the DoE provides a letter of approval, a copy of the approval shall be sent to the ATNS Project Manager, and a copy filed in the SHE file. (I)

8.5 Site Access requirement

- [A] The safety file package shall be submitted to the SHE unit 2 weeks before the agreed project commencement date. (I)
- [B] Before the successful contractor commences with any work, the following items are required by the ATNS Project Manager/Contract manager: (I)
- A copy of the SHE Specification document is in the possession of the responsible person of the contracting company.
 - The responsible person of the contracting company and the ATNS project manager/contract manager have signed the ATNS section 37 (2) agreement.
 - The appointment of the appointed principal contractor has been concluded and signed by the contractor and appointed project manager. A task specific baseline risk assessment shall be part of the SHE Plan and accompanied by a risk assessment procedure applied. A monitoring and review plan shall form part of the baseline risk assessment.
 - Where a subcontractor(s) is appointed by the appointed principal contractor, the contractor supplies the applicable ATNS SHE specifications to the subcontractor(s).
 - The SHE unit shall assess and give written feedback to the appointed principal contractor. The safety file shall be approved in a form of a written letter from the SHE unit.

8.6 Risk assessment (refer to section 8 & 9 of the OHS Act)

- [A] The appointed principal contractor shall develop a Risk Assessment in line with Section 8 (2)(d) of the OHS Act. Emerging risks and hazards shall be managed for the duration of the contract. This means that if there are significant changes to a process or activity, or any new process, then these should also be subjected to a risk assessment. (I)
- [B] All risks shall be rated. Activity based risk assessments shall be conducted by a competent person of the Appointed Contractor. (I)

8.7 Housekeeping and Order (I)

- The appointed principal contractor shall maintain a high standard of housekeeping for the duration of the project. (I)
- Prompt disposal of waste materials, scrap and rubbish is essential. (I)
- Materials/objects shall not be left unsecured in elevated areas –falling objects may cause serious injuries/fatalities. (I)
- Nails protruding through timber shall be bent over or removed so as not to cause injury. (I)
- All packaging material including boxes, pallets, crates, etc. to be removed from the work area immediately. (I)
- On completion of his / her work, the contractor is responsible for clearing his / her work area of all materials, scrap, temporary buildings and building bases to the satisfaction of the client/agent. (I)

8.8 Tools and Equipment (I)

- The appointed principal contractor shall ensure that all tools and equipment are identified, safe to be used and is maintained in a good condition. (I)
- Contractor shall ensure that all tools and equipment are listed on an inventory list, be regularly inspected at least monthly or as required by legislation and risk assessments. (I)
- The equipment should be numbered or tagged so that it can be properly monitored and inspected. (I)
- All tools that emit noise shall be clearly marked with the emitted noise levels. (I)
- When defective tools and equipment are identified, such tools and equipment shall be removed out of site immediately, locked away to prevent further use until such time as the tool or piece of equipment has been repaired. (I)
- Contractor shall ensure that the appropriate records are kept for all tools and equipment used on the project. Such tools and equipment shall be subjected to regular inspections. (I)

8.9 Hand tools

- All hand tools (hammers, chisels, spanners, etc.) Shall be recorded on a register and inspected by the supervisor monthly as well as by users prior to use. (I)
- Tools with sharp points in tool boxes shall be protected with a cover. (I)

8.10 Medicals

Note: ATNS will only accept medical surveillances conducted by an Occupational Health Practitioner who holds a qualification in occupational health.

- Appointed principal contractor shall ensure that his/her employees have a medical surveillance program whereby employees undergo entry, periodic and exit medical fitness examinations. (I)
- Medical fitness certificates shall be renewed annually for employees who are working on site. This shall be maintained until completion of the contract. (I)
- The appointed contractor shall ensure that his/her employees have undergone pre-entry medical examination before starting work on the contract. (I)

8.11 Personal Protective Equipment (PPE)

- Appointed principal contractor shall comply with the requirements of GSR 2 of the OHS Act. (I)
- The risk-based PPE matrix Shall be compiled detailing the types of PPE that is required to be issued to employees performing the respective tasks. (I)
- Where there are unusual instances where particular activities require additional type of PPE, then a risk assessment shall be conducted where such PPE requirements will be identified, and the issuing be carried out. (I)
- Appointed contractor shall ensure that his/her visitors wear and use the correct PPE whilst on worksites. (I)
- Where PPE is required and visitors are not in possession of it, then it is the individual contractor's responsibility to provide the PPE. (I)
- All PPE purchased and used by all contractor employees including visitors shall comply with the relevant SANS standards. (I)
- Where deemed as a requirement, then high visibility vests shall be worn. (I)

8.12 Incident Investigation

- All incidents shall be investigated in terms of OHS Act General Administrative Regulations 8 and 9 and where injuries as contemplated in sections 24 and 25 have been sustained, be reported to the Department of employment and labour. (I)
- Appointed principal contractor shall develop their own incident management procedure. (I)
- The appointed Contractor shall use the standard General Administrative Regulation Annexure 1 "Recording of an Incident" form for all incident investigation reports. (I)
- The objective of incident investigation should not only be a legal requirement but should establish why and how the incident occurred and find out the real root cause of the incident and to decide on precautionary measures that are required to address the root cause to prevent any further recurrences of the same or similar incidents. (I)

8.13 Emergency Management

- The appointed contractor shall develop his/her own emergency management procedure detailing the possible emergencies that could arise due to the activities that he/she conducts at ATNS premises and how he/she will evacuate the area in case of any emergency. (I)
- Periodic emergency drills shall be undertaken to test the effectiveness of the plan. This shall be recorded and provided on request. (I)

8.14 Non-Conformance and Compliance

- Any non-compliance to any health and safety requirement in this SHE specification is subject to discipline. (I)
- Should the contractor fail to provide adequate PPE to their employees for the tasks being performed and/or to visitors; failure to enforce the wearing of such PPE will be viewed as a transgression of the legislative and ATNS requirements. (I)

8.15 COID

- The appointed principal contractor shall be registered with an appropriate employment compensation commissioner and shall have available a valid letter of good standing (LoG) from a commissioner. The obligation lies with the contractor to ensure that the LoG remains valid throughout the contract period. A copy of the LoG shall be filed in the contractor SHE file. (I)

8.16 Statutory Appointments

- For the duration of the contract, the appointed principal contractor shall appoint competent employees who will meet the requirements of the OHS Act. Where appointments are made, contractor shall ensure that the appointees have been suitably trained and or informed of their responsibilities before getting them to accept such appointment. The relevant statutory appointments shall be made in accordance with the requirements of the OHS Act which includes the requirement of a competent person being appointed in the relevant roles. (I)

8.17 SHE Communication Systems

- Principal Contractor shall develop a communication strategy/plan outlining how he/she intends to communicate SHE issues to his/her staff, the mediums he/she will employ and how he/she will measure the effectiveness of the SHE communication. (I)

8.18 Safety

The following are safety aspects specific to the removal of the existing fixed diesel generators and supply, installation, testing, and commissioning of new fixed diesel generators: (I)

- Employees shall be trained and competent to handle hazardous chemical substances (diesel from the generators).
- All work involving excavations (piping, civil and electrical works) shall comply with the requirements of the Occupational Health and Safety Act, Act 85 of 1993 and all relevant regulations, including the Construction Regulations 2014 (CR14), Electrical installation Regulations (EIR 2009) and the General Safety Regulations 2003 (GSR 2003).
- Excavation and trenching are amongst the most dangerous operations in the construction industry. Dangers can include cave-ins, falling loads, hazardous atmospheres, and hazards from using heavy equipment.
- Excavation work shall be performed under supervision of a competent person who has been appointed in writing for that purpose.
- The appointed contractor shall submit method statements/work instructions indicating how the excavation work, the removal of the existing diesel generators and the installation of new fixed generators will be conducted safely.
- A detailed baseline risk assessment pertaining to excavation work, the removal of the old diesel generators and the installation of the new diesel generators shall form part of the safety file package (this is a detailed document indicating all the associated activities and identifying hazards and associated risks).
- Part of the baseline risk assessment shall detail the control measures to be implemented as per the hierarchy of controls, the risk assessment procedure shall have a monitoring and review plan.

- All risk assessments shall be compiled by a competent person, who has a certificate of competency for Risk Assessment from SAQA approved training provider.
- A task specific risk assessment shall be conducted for all excavation, the removal of the old diesel tank and the installation of the new diesel tank activities.
- Where the lifting of the generators will be done using a crane jack, Rigging shall not be adjusted while a load is suspended, and all work shall be performed while the load is on the ground.
- The workers undertaking the rigging task shall be trained to comply with all the rigging procedures and equipment handling.
- Where applicable, the principal contractor shall provide suitable notice boards that will be mounted outside the work areas when they begin work.
- Such signboards shall indicate the service provider's name, contact details of the responsible site agent, the name/number of the building they are working on, and a short description of the works that are being performed there.
- Additionally, warning notices and other barricades shall be erected to keep the public away from the locations where there is work being performed. It is the service provider's responsibility to ensure that all persons are informed of the hazards associated with the works and to keep persons outside of the working areas from a health and safety perspective.
- The principal contractor shall only utilize equipment that is safe and in good serviceable order. No work will be undertaken without using the appropriate and correct tools for the purpose.
- Old equipment that is removed from site shall be disposed of safely, and in an environmentally safe and responsible manner as per ATNS waste procedure.

8.19 Site establishment

The following information regarding site establishment shall be noted: (I)

- Principal contractor's site facilities shall be managed at all times.
- Prior to establishing a project site, a site plan is required to be drawn listing positions of all buildings, amenities, storage and stacking areas. The appropriate colour coding and demarcation of storage and stacking areas shall be carried out.
- The principal contractor together with the client shall conduct a Risk assessment for site establishment.
- ATNS does not guarantee the provision of a storage to accommodate the service principal contractor's tools and equipment.
- If such site establishment/storage is not be available, the principal contractor will be responsible for establishing and disestablishing its own storage facility, the location of which shall be agreed with ATNS (if established within ATNS premises).
- The principal contractor shall not make use of the site for residential purposes, and no workers will be permitted to set up sleeping quarters on ATNS premises.
- The principal contractor may display discrete signage to indicate the ownership of plant or equipment only and as required in order to comply with health and safety requirements.
- The principal contractor shall clear up all site establishment after use, and reinstate the site to its prior state, at the service provider's cost.

8.20 SHE file

The following items are required in a SHE file: (I)

- The principal contractor is required to keep a SHE file on every project site. If there is more than one site per project, a file per site shall be kept at that site. Principal contractor may keep additional files at his/her head office as additional records. The SHE file shall be maintained by the principal contractor on his/her project/construction sites and shall be available on request for audit and inspection purposes.
- The SHE file shall consist of the requirements in terms of the project's safety specification, the principal contractor's safety and health plans.
- The sequence of filing the documentation shall be kept in the same sequence as listed in this SHE specification and the SHE plan.
- Each record shall be separated by partitions to afford easy identification and access. Each partition shall be labelled.
- On completion of the work/project, the principal contractor shall hand over a consolidated health and safety file to the project manager. The principal contractor shall also hand over all drawings, designs, lists of materials used, and other applicable information about the completed structure, as well as the list of subcontractors, the agreement, and the type of work completed.
- In case where the project is extended, should the documentation in the SHE files become cumbersome, the older documentation shall be archived in boxes which shall be correctly labelled and be available for auditing purposes. The archived documentation shall be handed over at the completion of the project.
- SHE file shall be submitted as per the Occupational Health and Safety Act No. 85 of 1993 and regulations requirements for approval by ATNS SHE unit before any project/construction work may commence at the site. The draft SHE File to be submitted shall address the minimum requirements of the Occupational Health and Safety Act No. 85 of 1993 and regulations as listed below.

[A] The bidder to submit draft SHE plan that is in line with above health and safety specifications. A complete SHE file is to be submitted by the contractor for ATNS and property owner prior to commencement of work. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

9 Site Survey

9.1 Requirements

[A] The successful bidder shall undertake a comprehensive site survey of the civil works, generators and existing UPSs. The site surveys shall be completed at the beginning of the project activities and at least before any equipment is ordered. The site survey shall include but not be limited to: (I)

- Detail investigation of the status of the existing generator and UPS electrical connections including remote monitoring interfaces
- Identification of the cable routing
- Actual measurements of route lengths
- Detail inspection of the available space on existing cable trays
- Photographs of all aspects identified

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

[B] The bidder shall submit a site survey plan. This shall be used as a baseline for the site survey after contracting and the information gathered shall be used for planning, design, implementation and installation specifications. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

VOLUME 4 – LOGISTIC SUPPORT REQUIREMENTS

CHAPTER 4: LOGISTICS & MAINTENANCE

LOGISTICS & MAINTENANCE

1 Warranty

[A] All (four) Generators shall have a minimum 1-year warranty. The warranty shall cover labour, material and equipment that shall arise from this bid without exclusions. The bid shall submit the proposed warranty terms and conditions that aligns to this requirement. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

[B] The warranty shall cover all system malfunctions such that it maintains the system to its initial commissioning status. The bidder shall indicate how this will be achieved. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

[C] Routine maintenance for the generators during the warranty period shall be described by the bidder. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

2 Operational Training

[A] Operational training shall be provided to staff, on the use of these systems at commissioning, to monitor system status and contact the contractor when major faults occur. The bidder shall submit a draft training plan with this bid. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

[B] The operational manual shall be delivered with the systems. The bidder shall submit operational manual list with this bid. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

3 Maintenance Contract

[A] The bidder shall provide an optional maintenance contract for a duration of 15 years that commences after the warranty period. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

[B] The bidder shall include as part of the bid the technical and pricing schedule for the 15-years support and maintenance for all generators. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

[C] The bidder shall provide a draft maintenance contract, clearly indicating all required routine maintenance per annum for a period of 15 years. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

[D] The bidder shall indicate the labour rate escalation or formula per year for the duration of 15 years. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

[E] The bidder shall indicate the costing model for the spare parts. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

[F] Should the system or any of its components malfunction the contractor shall return the system to full operation within 24 hours. This response time applies to the warranty phase and maintenance contract phase. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
[INSERT FULL RESPONSE FOR EVALUATION HERE]		
[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]		

4 Documents

[A] The contractor shall issue ATNS with installation As Built and Certificates of Compliance as part of the Site Acceptance Test documents after successful commissioning of all generators. (D)

COMPLIANCE (C/PC/NC/Noted)	<i>Only responding C/PC/NC/Noted will not be accepted without proof.</i>	
<i>[INSERT FULL RESPONSE FOR EVALUATION HERE]</i>		
<i>[INSERT REFERENCE TO ADDITIONAL INFORMATION HERE]</i>		