

## Scope of Work (SOW)

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### **SOW: Repair of Antenna Elevation Worm Drive:**

**Project Title:** Repair of the Elevation Worm Drive – 11m C-Band Scientific Atlanta (PA 1.4)

**Quantity:** 1 Unit

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#### **1. Objective:**

To restore full operational functionality of the Elevation Worm Drive system on the 11m C-Band Scientific Atlanta (PA 1.4) antenna by conducting fault identification, generating a detailed assessment report, and carrying out necessary repairs (if approved).

#### **2. Work Breakdown:**

##### **Stage 1: Strip and Quote – Assessment Phase**

The service provider is required to:

- Perform a physical and mechanical inspection of the Elevation Worm Drive mechanism.
- Disassemble relevant components as necessary to access and identify faults.
- Diagnose faults, defects, or wear that may affect the performance or safety of the drive system.
- Generate a comprehensive Assessment Report that includes:
  - Detailed fault findings (supported by images or measurements if applicable),
  - Recommendations for repairs or component replacements,
  - Estimated timeline for repair works,
  - Costed quotation for all required repairs and spare parts.

##### **Stage 2: Repair Execution – Upon Approval**

Based on internal evaluation of the Stage 1 report and quotation, the service provider may be appointed to carry out the necessary repair work. This includes:

- Repairing or replacing faulty components of the Elevation Worm Drive.
- Reassembling and calibrating the system to ensure operational precision.
- Conducting functional testing post-repair to verify performance and reliability.
- Providing a completion report detailing the work done and confirmation of restored functionality.

### 3. Notes:

- The procurement follows a **two-stage process**:
  - Stage 1: Assessment and quotation,
  - Stage 2: Repair (subject to approval).
- The service provider who submits an acceptable proposal on phase 1 may be required to proceed with the repairs at Sentech's sole discretion.
- Final approval of Stage 2 depends on:
  - Internal technical and budgetary review,
  - Alignment with procurement regulations,
  - Value for money and feasibility of repairs proposed.

### 4. General Requirements:

- Removal and Re-installation work must be carried out or supervised by experienced technicians familiar with C and KU-Band Antenna systems.
- Ensure safety protocols are followed at all times during the removal and reinstallation processes to prevent any injuries or accidents.
- Provide a detailed report upon completion of the refurbishment, outlining the work done, parts replaced, and any recommendations for future maintenance.

**Completion:** Upon completion of the refurbishment work, the antenna system should operate smoothly without any issues related to the gearbox. If any issues arise within three months after the work is completed, the designated service provider must resolve these faults at no cost to Sentech.

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### 5. Notes:

- 5.1 For any additional work required after the acceptance of the quotation, a new quotation must be submitted to Sentech for approval prior to commencing the work.