

## **SUPPLY, INSTALLATION & COMMISSIONING OF THREE (3) UPS unit AT ARC-Animal Production- to be installed at Irene and Elsenburg**

### **1. INTRODUCTION**

Agricultural Research Council seeks a service provider to install and commission a UPS unit at the following sites:

- Irene (old Olifantsfontein Road, Irene) and
- Elsenburg (Muldersvlei Road, Elsenburg)

UPS description:

**1 x 20KVA UPS equivalent to Eaton Meissner MP200 series (Irene - Germplasm)**

**1 x 10KVA UPS equivalent to Eaton Meissner MP200 series (Irene - Finance)**

**1x 3KVA UPS equivalent to Eaton Meissner MP200 series (Elsenburg)**

### **2. OBJECTIVE**

ARC would like to appoint a service provider that will install and commission the one UPS, as per scope of work below. The UPS must be commissioned/installed and tested for functionality in order to ensure uninterrupted power supply in the event of a power outage.

### **3. SCOPE OF WORK**

ARC would like to appoint a service provider for the following services:

- 3.1. Supply, installation and commissioning of the UPS at ARC Campus
- 3.2. Wiring, commissioning and testing which includes but not limited to connection of the incoming cable, outgoing feeder cables, connecting of the cable and control cabling to the UPS and the control terminals connection to the DB Box etc.;
- 3.3. Earth continuity shall be maintained throughout the complete installation;
- 3.4. The service provider shall ensure adequate provision of cabling, subject to full measurement on site. Service providers will be granted access to do site assessment. Appointments must be made 24 hours in advance;

- 3.5. All work and equipment shall be in accordance with the approved SABS Standards and shall comply with the Occupational Health and Safety Act, No 85 of 1993 and current regulations of all other codes applicable to this work;
- 3.6. **Service provider to submit Certificate of compliance (COC) after installation, testing and commissioning, as well as installation.**

### 3.5 Preparation

- Remove old UPS and clean inside rooms. Old UPS remain property of ARC.
- ARC will indicate store area where old machines should be stored.

### 3.6 Supply and install **UPS with batteries**

- The UPS to be installed at Finance 10kVA (Irene)
- The UPS to be installed at Germplasm 20kVA (Irene)
- The UPS to be installed at Elsenburg Stellenbosch 3kVA (Stellenbosch)

### 3.7 Specifications of UPS

- True on-line double conversion, low frequency, Transformer based UPS systems
- Single phase input, single phase output
- Uninterruptible power system, complete with digital display, static by-pass switch and manual by-pass switch
- 10-15 minutes battery back-up at full load
- Delivered and installed in place of old unit.

### 3.11 Training

- Training on operating procedures (manually and automatic)
- The unit must be user friendly to allow the in-house technical team to operate the UPS without the involvement of the supplier.
- The supplier is expected to provide once off training and copy of the manufacturer manuals for future use and fault finding.

## **4. REGULATIONS**

The commissioning, installation, and testing must be done according to prescribed and approved Acts and regulations, which include but not limited to:

- 4.1. The latest issue of SABS SANS10142-1: "Code of Practice for the Wiring of Premises",
- 4.2. The Occupational Health and Safety Act, 1993 (Act 85 of 1993) as amended,
- 4.3. 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,
- 4.4. The Fire Brigade services Act 1993 Act 99 of 1987 as amended,
- 4.5. The National Building Regulations and Building Standards Act 1977 (Act 103 of 1977) as amended,
- 4.6. The Electricity Act 1984 (Act 41 of 1984) as amended and

## **5. COMPANY PROFILE**

A brief company profile must be submitted to assist ARC in assessing your capabilities, capacity and competitive advantages.

## **6. MATERIALS AND WORKMANSHIP**

- 6.1. The work throughout shall be executed to the highest standards and to ARC's satisfaction.
- 6.2. ARC reserves the right to reject any work and materials, which, in its judgement, is not in full accordance therewith. All condemned material and workmanship shall be replaced or rectified, as directed, by the service provider, at its own cost.
- 6.3. All work must be executed by a qualified tradesman, with relevant experience.
- 6.4. The service provider shall warrant that the materials and workmanship shall be of the highest grade, that the equipment shall be installed in a practical and first-class manner in accordance with the best practices and ready and complete for full operation.
- 6.5. It is specifically intended that all material or labour which is usually provided as part of such equipment as is called for and which is necessary for its proper completion and operation shall be provided without additional cost whether or not shown or described in the tender response document.
- 6.6. All components and their respective adjustment, which do not form part of the installation work, but influence the optimum and safe operation of the

UPS shall be considered to form part of and must be included in the service provider's scope of works.

- 6.7. All control equipment and serviceable items shall be installed and positioned such that they will be accessible and maintainable.
- 6.8. The service provider shall make sure that all safety regulations and measures are applied and enforced during the installation and guarantee periods to ensure the safety of the public and user client.
- 6.9. The service provider is to include for all scaffolding required to complete the work required.

## **7. INSPECTIONS & HAND-OVER**

The following tests are to be carried out:

- 7.1. After completion of the works and before the UPS are handed over to ARC Technical Team, a full test, in the presence of ARC's representatives, must be carried out for a period of sufficient duration, to determine the satisfactory working of the UPS.
- 7.2. During this period the installation will be inspected, and the contractor shall make good, to the satisfaction of ARC Representative/Agent, any defects which may arise.
- 7.3. The service provider will be liable for any other damages to the building resulting from the installation and commissioning of the UPS.
- 7.4. The Contractor shall, at its own cost, provide all instruments and equipment required for testing and any water, power and fuel required for the commissioning and testing of the installation at completion.

## **8. GUARANTEE**

- 8.1. The equipment shall be installed with a twenty months manufacturer's warranty/guarantee on the work done (refer to scope of work). The service provider shall provide a 12 -month guarantee on the workmanship on the work undertaken and also include the service maintenance according to the OEM (refer to scope of work).
- 8.2. If during this period the equipment is not in good working order, or not working satisfactorily owing to faulty material, design or workmanship, the service provider will be notified and immediate steps must be taken by the

service provider to rectify the defects and/or replace the affected parts on site, at no cost to ARC.

## **9. PROJECT EXCLUSIONS**

The service provider must clearly specify any exclusions, as part of the RFQ response.

## 16. EXPERIENCE

Details of the service provider's current and past experience in rendering projects of similar nature and scale must be specified below:

CLIENT'S NAME	PROJECT DESCRIPTION	PROJECT COST	PROJECT START & END DATE	NAME, TITLE & CONTACT DETAILS OF CLIENT

