



RFP UJ 87/2024: REQUEST FOR QUOTATION FOR SUPPLY AND INSTALLATION OF UPS SYSTEMS AND USB PLUG SOCKETS FOR SMART LECTURE VENUES ACROSS UJ CAMPUSES

The University of Johannesburg (UJ) invites suitable suppliers to provide quotations for a site assessment, supply, installation and commissioning of Uninterruptable Power Supply (UPS) systems and USB plug sockets for charging devices to be located/installed at various UJ campuses for smart lecture venues.

Purpose

UJ requires suitably qualified, experienced and competent persons or organizations to provide proposals for the following Uninterruptable Power Supply (UPS) systems installations:

- 1.) UJ smart lecture venues across all campuses (APK, APB, DFC & SWC): Uninterruptable Power Supply (UPS) systems to be installed to feed smart lecture venues and USB plug sockets - to ensure continuity of academic activities in the event of a power cut or load shedding and for students to be able to charge the devices used for teaching and learning.

Scope of work

The University of Johannesburg requires the installation of UPS systems and USB plug sockets in the sixteen identified smart lecture venues as follows:

- a. An assessment of the existing electrical connections and/or reticulation and substations with generator connection points. Including inspecting the condition of the Trunking, cable trays, reticulation cables and other relevant connections.
- b. Assessment of safe access and how the proposed UPS installation works will be integrated



into the electrical reticulation at the smart lecture venue. Final electrical reticulation drawings and site drawings for the UPS storage/ structures are to be provided on an agreed drawing standard for use by the UJ Central Technical Services unit to update existing facilities documentation.

- c. Supply and installation of cable trays, Trunking, cables, connectors etc, as required, according to the bills of quantities.
- d. Supply and installation of the UPS System and its batteries according to the bills of quantities.
- e. Supply and installation of USB plug points for charging of devices used for teaching and learning
- f. The UPS should be IP 65 and 6 KVA in terms of size, 3 phase input and output with maintenance bypass capability.
- g. Supply and Installation of sub-distribution boards that will connect the load that is to be connected to UPS system as per bill of quantities.
- h. UPS to be floor standing or wall mounted.
- i. Chasing in the floor and wall for the new wiring required for the installation of UPS to feed AVU equipment
- j. The equipment to be included in the scope is the podium, screens, overheard projector, USB plug sockets, these are required to be fed by a UPS system that will be connected to generator to ensure there is no any interruption in the event of power cuts or loadshedding. Connection of Access gates to UPS system distribution boards, cables and / or other relevant accessories according to bill of quantities.
- k. Commissioning of the equipment shall include but not be limited to:
 - i. Energizing and starting the UPS.
 - ii. Switching from normal to bypass operation.
 - iii. Switching from bypass to normal operation.
 - iv. Switching over to manual bypass.
 - v. Switching from bypass to normal operation.
 - vi. Isolating and de-energizing the UPS.



- l. There should be excavation(s) as per the bills of quantities.
- m. Provide an indication of service, warranty and maintenance requirements for the proposed equipment for short-, medium-, and long-term planning related to the service life of the facility/equipment, as well as specific indications of annual maintenance costs - based on a defined (and made known) monthly and annual usage pattern.
- n. All electrical wiring and other relevant installations and rerouting of the cable shall be done according to SANS 10142-1 & 2.
- o. Successful respondents must comply **fully** with the Occupational Health and Safety Act (Act 85 of 1993) and all sub-regulations in place at the time. All work is also to be carried out in accordance with the requirements set out in the SANS regulations and/or SANS 10400 - National Building Regulations and relevant applicable to a project of this nature.
- p. A certified and competent electrician with a wireman's license shall perform tests after installation.
- q. Provide all certificates of compliance related to the total installation – including but not limited to electrical compliance certificates, battery storage compliance if required etc.
- r. The successful supplier must be willing to enter into a JBCC Contract with specified UJ Amendments – a copy of which will be available to all suppliers attending the site briefing.

Annexure A – Required USB Plug Socket



Annexure B – 6KVA, 3 Phase UPS





Areas to be Included in the scope for smart lecture venues are as follows:

Auckland Park Kingsway Campus	Auckland Park Bunting Campus	Doornfontein Campus	Soweto Campus
APK 1215 A Les 0G-A1 APK 1703 C Les 02-A1 APK 1703 C Les 03 A1	ABP 49 Block B 0G A ABP 49 Block B 0G A1 ABP 49 Block B 01 A1	DFC 1 JOB 06 New 2 DFC 1 JOB 06 New A1 DFC 91 Lecture Halls 0G-A1 DFC 91 Lecture Halls 01-A1 DFC 91 Lecture Halls 01-A10	SWC 3031 Bram Fischer 0G-A SWC 3031 Bram Fischer 0G-A1 SWC 3031 Bram Fischer 01-A1