

UNIVERSITY OF MAURITIUS

**Request for Sealed Quotations
for
Supply, Installation, Commissioning
and Support
Of
Electrical Panel and Online UPS**

Procurement Reference No: CITS 06/11

University of Mauritius
Réduit
Republic of Mauritius
Tel No. : (230) 403 7400
Fax No. : (230) 454 9642
Email: registrar@uom.ac.mu
Web: <http://www/uom.ac.mu>

03 March 2011

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UNIVERSITY OF MAURITIUS

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Letter of Invitation

Procurement Ref. No.: CITS 06/11

03 March 2011

Dear Sir/Madam

Invitation of bids for the Supply, Installation, Commissioning and Support of Electrical Panel and Online UPS

The University of Mauritius invites you to submit your best quote for the items described in detail in Part 2: Statement of Requirements.

Any resulting contract shall be subject to the terms and conditions detailed in Part 3: Contract.

Any query should be addressed to: **The Registrar**

University of Mauritius

Réduit

Republic of Mauritius

Tel No.: (230) 403 7400

Fax No.: (230) 454 9642

Email: registrar@uom.ac.mu

Please prepare and submit your bid in accordance with the instructions in Part 1: Bidding Procedures, or inform the undersigned if you will not be submitting a bid.

Yours faithfully

C. SHIM NG MIN

Secretary

Quotation Committee

PART 1: QUOTATION PROCEDURES

Section I. Instructions to Bidders

1. Preparation of Quotations

You are requested to quote for the items by completing, signing and returning:

- (a) the Quotation Submission Sheet in this Part 1;
- (b) the List of Goods, Price Schedule and Product Details in Part 2; and
- (c) the Specification and Compliance Sheet in Part 2;

You are advised to carefully read the complete Request for Quotations document, including the Special Conditions of Contract in Part 3, before preparing your quotation. The standard forms in this document may be retyped for completion but the Bidder is responsible for their accurate reproduction.

2. Validity of Quotations

The quotation validity required is **ninety (90)** days from the date of submission deadline.

3. Pre-bid Meeting

A Pre-bid meeting with potential bidders will be held on **Wednesday 16 March 2011 at 1.30 p.m.** in Council & Senate Room, 7th Floor, Tower Block, New Academic Complex, Réduit.

4. Sealing and Marking of Quotations

Quotations should be sealed in a single envelope, clearly marked with the Procurement Reference Number and the Bidder's name at the back of the envelope and addressed to the Public Body. Envelopes should be sealed in such a manner that opening and resealing cannot be achieved undetected.

5. Submission of Quotations

Quotations should be deposited in the Tender Box located at **Registry [Room 7.22], Central Administration, 7th Floor, Tower Block, New Academic Complex, University of Mauritius, Réduit, not later than Thursday 31 March 2011 at 1.30 p.m. at the latest.** Late quotations will be rejected.

Bids received by fax or e-mail will not be considered.

6. Opening of Quotations

Quotations will be opened internally by the University of Mauritius. Where quotations received are for value of Rs. 1 Million and above, a record of the Quotation Opening stating the name of the bidders and the amount quoted by them will be put on the Notice Board of the Public Body within one working day of the Opening.

7. Evaluation of Quotations

The evaluation of quotations will be done in accordance with the Technical Compliance Selection methodology as detailed below:

- (a) preliminary examination to determine compliance with the requirements of this Request for Quotations;
- (b) detailed evaluation to determine commercial and technical responsiveness; and
- (c) technical & financial comparison of quotations to determine the best evaluated bid.

Quotations failing stages (a) and (b) above will be eliminated and not considered in subsequent stages.

8. Eligibility Criteria

To be eligible to participate in this bid exercise, you should:

- (a) have the legal capacity to enter into a contract;
- (b) not be insolvent, in receivership, bankrupt, subject to legal proceedings for any of these circumstances or in the process of being wound up;
- (c) not have had your business activities suspended;
- (d) have fulfilled your obligations to pay taxes and social security contributions;
- (e) not have a conflict of interest in relation to this procurement requirement;
- (f) not be subject to suspension or debarment by the Procurement Policy Office; and
- (g) not have been convicted for an offence involving fraud, corruption or dishonesty.

9. Technical Criteria

The Specification and Compliance Sheet details the minimum specification of the goods required. The goods offered must meet this specification, however additional marks will be given for exceeding the specification.

10. Currency of Quotation

Quotations should be priced in Mauritian Rupees only.

11. Bid-Securing Declaration

The Bidder shall subscribe to a Bid Securing Declaration in the Quotation Submission Sheet as part of his Bid.

12. Best Evaluated Bid

- 12.1 The Purchaser shall evaluate each bid that has been determined, up to this stage of the evaluation, to be substantially responsive.
- 12.2 The Evaluated Bid Price for each responsive bid will also include all Recurrent costs, the cost of inland delivery of the Products (if any), and the cost of all Services required in the Bidding Documents.
- 12.3 The Evaluated Bid Price (C) is calculated as the sum of the adjusted total Bid Price (P) and the Net Present Value of the Recurrent Costs (R), using the following formula:

$$C = P + \sum_{x=1}^N \frac{Rx}{(1+I)^x}$$

where

P = total Bid Price

I = interest rate for Net Present Value from the Bid Data Sheet

Rx = total Recurrent Costs for 5 year

N = 5 years of Recurrent Costs

x = index representing each of the N years, in turn

- 12.4 The Purchaser's evaluation of bids will take into account and technical factors. A Bid Score (S) will be calculated for each responsive bid using the following formula, which weights the Evaluated Bid Price and the total Technical Points awarded to the bid:

$$S = \frac{C_{\min}}{C} \times X + \frac{T}{T_{\max}} \times Y$$

where

C = Evaluated Bid Price

C_{\min} = the lowest of all Evaluated Bid Prices

T = the total Technical Points for the bid

T_{\max} = the maximum Technical Points awarded to any responsive bid

X = 0.5

Y = 0.5

The *highest* responsive Bid Score is eligible and substantially responsive to the commercial and technical requirements of the *University of Mauritius* and shall be recommended for award of contract.

13. Award of Contract

Award of contract shall be by issue of a Purchase Order/Letter of Acceptance in accordance with Part 3: Contract.

14. Rights of the University of Mauritius

The University of Mauritius reserves the right:

- (a) to split the contract as per the best evaluated cost per item, and
- (b) to accept or reject any bid or to cancel the bidding process and reject all bids at any time prior to contract award.

Section II. Quotation Submission Sheet

(to be completed by Bidders)

[Complete this form with all the requested details and submit it as the first page of your quotation with the documents requested above attached. Ensure that your quotation is authorised in the signature block below. A signature and authorisation on this form will confirm that the terms and conditions of this RFQ prevail over any attachments. If your quotation is not authorised, it may be rejected.]

Quotation Addressed to	The Chairperson Quotation Committee University of Mauritius
Procurement Reference Number:	CITS 06/11
Subject of Procurement:	Supply, Installation, Commissioning and Support of Electrical Panel and Online UPS

We offer to supply the items listed in the attached List of Goods, Price and Product Details Schedule and in the Specification and Compliance Sheet, in accordance with the terms and conditions stated in your Request for Quotations referenced above.

We confirm that we are eligible to participate in this Bid Exercise and meet the eligibility criteria specified in Part 1: Quotation Procedures of your Request for Quotations.

We undertake to abide by the Conduct for Bidders and Suppliers as provided under section 52 of Public Procurement Act 2006 during the procurement process and the execution of any resulting contract.

We have read and understood the content of the Bid Securing Declaration (BSD) attached hereto and subscribe fully to the terms and conditions contained therein. We further understand that this subscription shall be construed as a Bid Securing Declaration which could lead to disqualification on the grounds mentioned in the BSD.

The validity period of our Bid is _____ days from the date of the submission deadline.

We confirm that the prices quoted in the List of Goods, Price Schedule and Product Details are fixed and firm for the duration of the validity period and will not be subject to revision or variation.

The delivery period offered is _____ days from date of issue of Purchase Order/ Letter of Acceptance.

Quotation Authorised By:

Signature: _____ Name: _____

Position: _____ Date: _____
Authorised for and on behalf of: _____ (DD/MM/YY)
Company _____

Tax Account No.: _____

Address: _____

Bid Securing Declaration

By subscribing to the undertaking in Bid Submission Form:

I/We* accept that I/we* may be disqualified from bidding for any contract with any Public Body for the period of time that may be determined by the Procurement Policy Office under section 35 of the Public Procurement Act, if I am/we are* in breach of any obligation under the bid conditions, because I/we*:

- (a) have modified or withdrawn my/our* Bid after the deadline for submission of bids during the period of bid validity specified by the Bidder in the Letter of Bid; or
- (b) have refused to accept a correction of an error appearing on the face of the Bid; or
- (c) having been notified of the acceptance of our Bid by the University of Mauritius during the period of bid validity, (i) have failed or refused to execute the Contract, if required, or (ii) have failed or refused to furnish the Performance Security, in accordance with the Instructions to Bidders.

I/We* understand this Bid Securing Declaration shall cease to be valid (a) in case I/we am/are the successful bidder, upon our receipt of copies of the contract signed by you and the Performance Security issued to you by me/us ; or (b) if I am/we are* not the successful Bidder, upon the earlier of (i) the receipt of your notification of the name of the successful Bidder; or (ii) thirty days after the expiration of the validity of my/our* Bid.

In case of a Joint Venture, all the partners of the Joint Venture shall be jointly and severally liable.

PART 2: STATEMENT OF REQUIREMENTS

Section III. List Goods, Price Schedule and Product Details

2.0 Project Overview

This specification covers the supply, delivery, installation, testing and commissioning of a continuous duty, either **30 KVA** (*Option 1*) or **40 KVA** (*Option 2*) Uninterruptible Power Supply (UPS) system with 3 phase input and 3 phase output complete with maintenance-free sealed battery. In the event of an emergency, the UPS system shall be able to supply at least 10 minutes of clean and regulated uninterruptible power at 90% load. Only “True On Line” technology, also called Voltage Frequency Independent Operation with By-pass (VFI), following the EN-50091 standard, will be accepted.

Bidders may quote for either Option 1 or Option 2 or both. Moreover, bidders may provide different alternatives for each option if applicable.

Within the scope of this project, the supplier is also required to re-structure the electrical cabling for the server room as described in the sections below. A desired setup has been provided. However, bidders may propose an alternate / better setup which would be acceptable to UoM. In the event the electrical panel implementation largely exceeds the estimated budget for the project, the University may choose not to proceed with the electrical panel installation and use the existing panels with minor modification.

The following modules/options (fully compatible with the UPS proposed) shall be quoted with the UPS if not already inbuilt in the UPS. The University may opt to purchase these modules/options:

(i) SNMP Network Adapter

An SNMP adaptor shall provide communications interface between the UPS module and SNMP compatible network management systems. This capability shall allow the UPS to be monitored remotely over an IP based network.

(ii) Environmental Monitoring

Sensors for measuring temperature and humidity of the room where the UPS is installed. This information shall be accessible via the LAN.

(iii) GSM Modem

A GSM Modem/Gateway system for sending SMS alerts to at least 7 users with at least 1 escalation level. SMS must be sent to configured numbers in case of power failure and restoration or any other event affecting the UPS operation. All interface cards to be included by successful supplier between UPS and GSM Modem. The University will only ensure the supply of a SIM Card.

(iv) Water leak detection system

A water leak detection system to be installed in the server room and its status shall be monitored over the LAN.

(v) Software

UPS software must be provided for smooth operating system shutdown across mixed platform. A list of OS shutdown supported must be provided. After initiating shut down of servers, the UPS should optionally power off.

Apart from the UPS shutdown software, Centralised Power Management software to be supplied and installed to monitor status of all IP based devices within the Local Area Network.

2.1 Power Panel & UPS Installation Requirements

The bidder must supply, deliver, install and commission all equipment/components required for the complete installation of the UPS and power panel. Quotation should be attached for any additional materials/hardware proposed for the system to be operational.

The bid submission shall provide comprehensive details to show compliance to the specifications and shall include a full set of descriptive and technical literature on the equipment and system proposed, functions description and installation drawings. Bidders shall also include their company profile and state where such systems have been previously implemented in Mauritius with their expertise.

The bidder shall delivery, install, configure and commission the system proposed. The University shall not be required to make any modifications to the system to get the system operational.

2.2 Bidder Eligibility Criteria

Bidders must meet the following eligibility requirements:

- (i) The bidder should have a minimum of 4 years' experience in Heavy Duty UPS installation in any large organisation in Mauritius;
- (ii) The bidder may subcontract electrical installation. In such a case, the name and contact details of a **single contact person** shall be provided to UoM for the whole project. The successful bidder will be responsible for ensuring that their contractor will provide the expected service;
- (iii)The bidder/ subcontractor should have at least 4 years' experience in installation of Electrical System;
- (iv)The bidder should have qualified professional staff for deployment in the project;
- (v) The bidder should have proven capabilities for giving complete support; and
- (vi)The bidder should have a sound financial background.

Bidders should provide documentary evidence in respect of the above (*as applicable*).

2.3 Re-designing the Electrical Panel in the Server Room

The main objective of the new electrical panel setup is to ensure that UoM's critical IT system will remain operational for a certain period of time in case of power failure at any point of distribution. i.e. CEB, generator and/or UPS.

Bidders may propose an alternate/better solution based on the requirements. Bidders are advised to liaise with the CITS helpdesk (email: helpdesk@uom.ac.mu, **Tel. No.: 4037767/69**) to schedule a site visit prior to submitting their proposal.

A power panel for servers and the generator connection already exists as shown in Figure 1 (page 12). The successful bidder is not expected to intervene on these. The new power panel should be setup to provide the circuit shown in Figure 2 (see page 13). All breakers/electrical components and cables must be neatly installed in a new electrical panel and cable tray respectively. The supply of all electrical components and cables are included within the scope of the project and must be clearly quoted by the bidder.

The successful bidder must discuss their proposed electrical circuit with UoM technical team before implementation. In the event the proposed electrical circuit does not meet the requirements of the university, the successful bidder would be required to modify the circuit to the satisfaction of the University. A written acceptance/approval from CITS/Services Section should be obtained before proceeding with the installation.

Section 2.6 - 2.8 of this document describes the different scenarios in case there is a power failure during normal operation.

2.4 UoM current electrical system in the server room

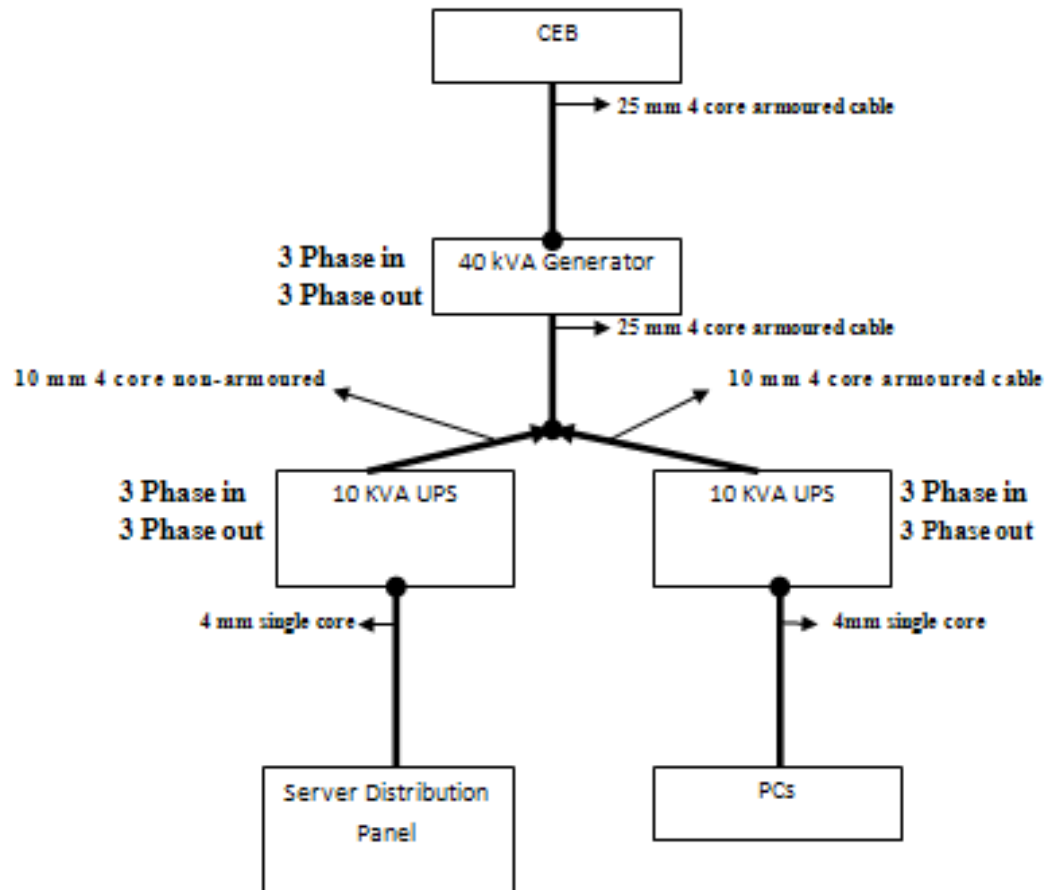


Figure 1 Current system circuit diagram

2.5 UoM desired circuit diagram for the new electrical setup

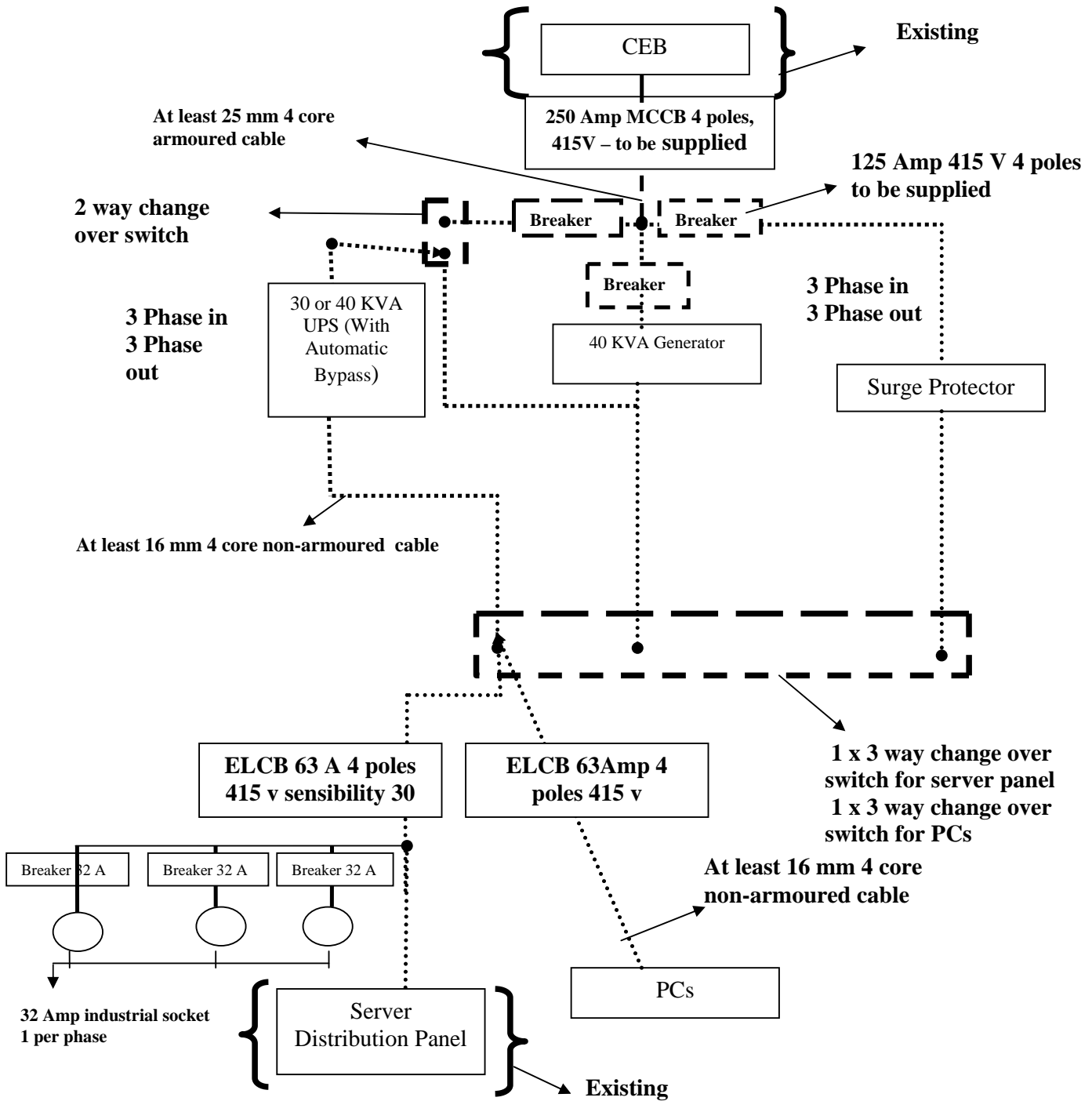
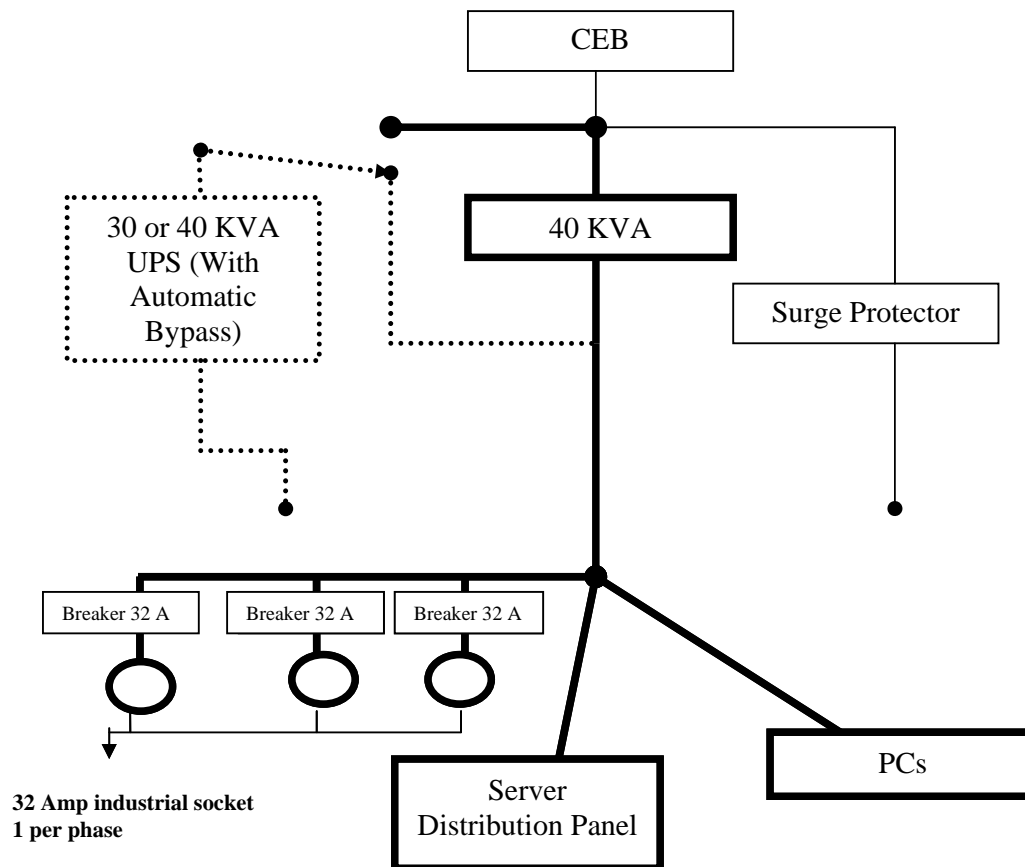


Figure 2 Desired circuit

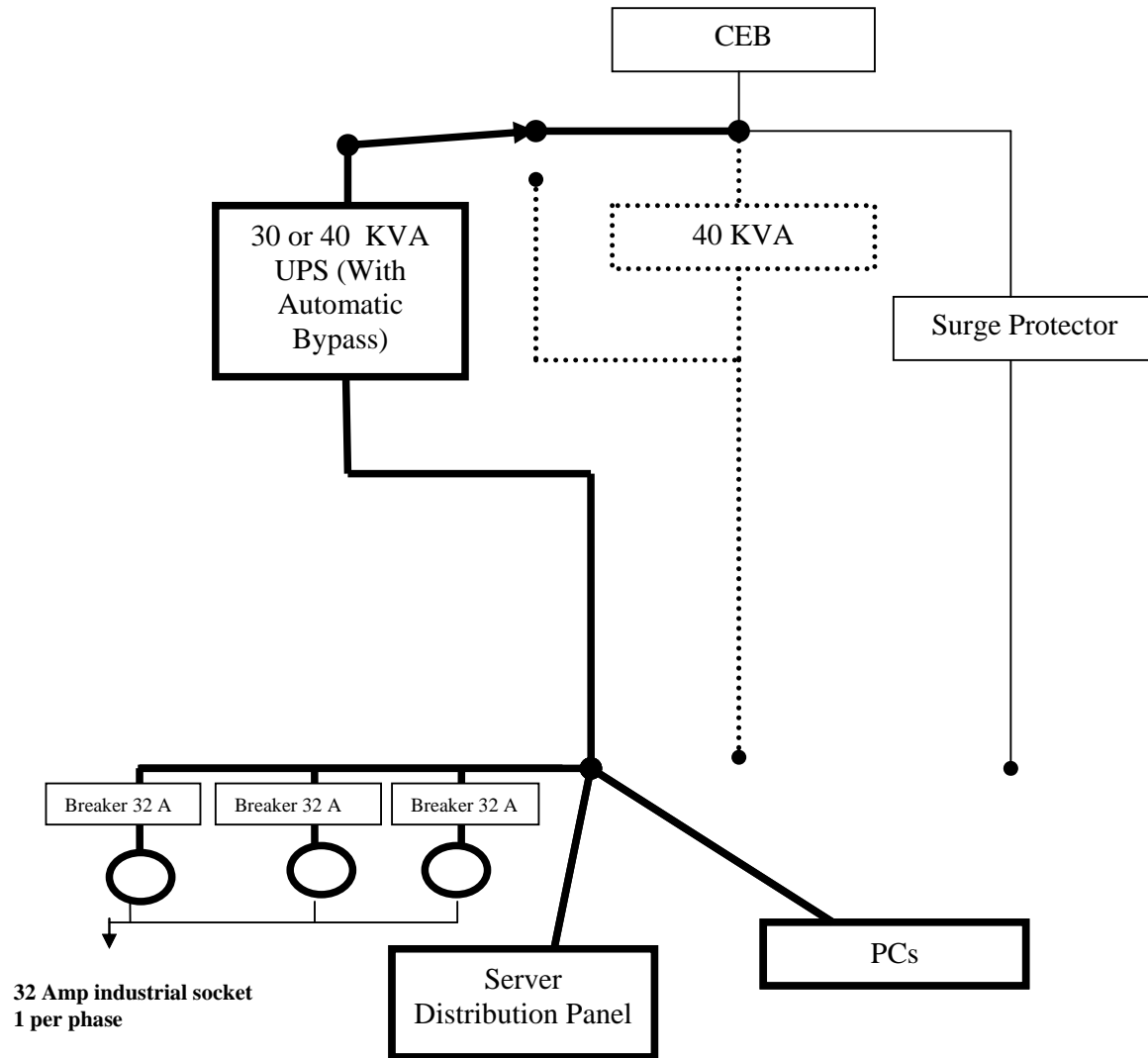
2.6 UPS failure

If UPS fails, the circuit diagram shown below will ensure power supply to the loads.



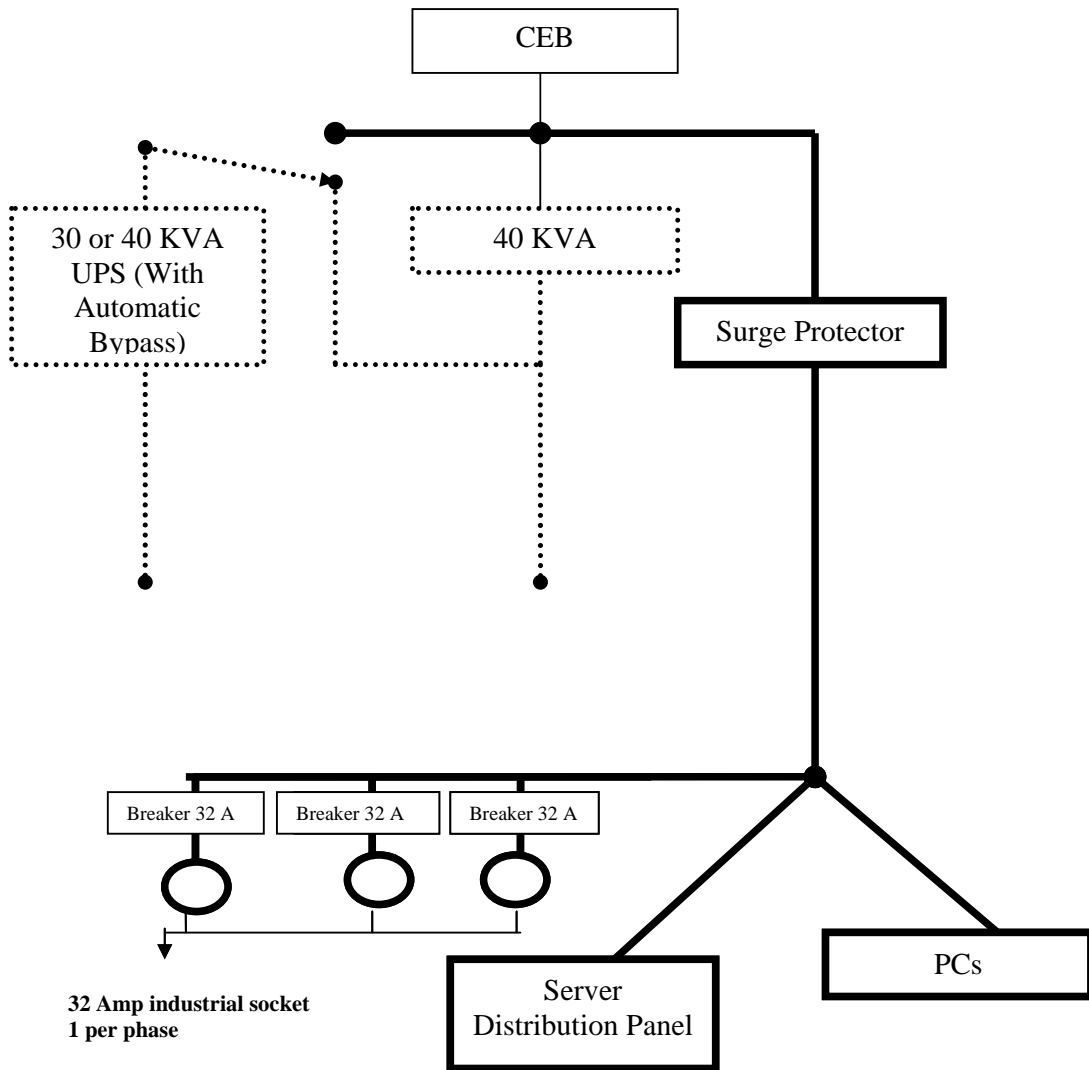
2.7 Generator failure

If generator breaks down, the circuit diagram shown below will ensure power supply to the loads.



2.8 Generator and UPS failure

If both generator and UPS break down, the circuit diagram shown below will ensure power supply to the loads.



2.9 Technical Requirements and Financial Proposal

Bidders must fill the Technical Specifications Sheets as shown in Table 1 (30 KVA UPS – Option 1) and Table 2 (40 KVA UPS - Option 2) on pages 24 to 34 and submit same as part of their Technical Proposal.

A softcopy of the Technical Specification Sheets can be downloaded from <http://www.uom.ac.mu/procurement>. Bidders are requested to fill in the softcopy of the technical specifications sheet and submit a softcopy and a printed copy of their technical proposal, the “Feature”, “Required” and “compliance” column must **not** be modified. If there is any discrepancy between the proposed specification on the softcopy and on the printed document, the specifications provided in the printed document will be considered.

All the information requested in the technical specification sheet is mandatory. Proof of concept (POC) is mandatory to confirm that the equipment provides the functionalities proposed.

Bidders are required to fill in the softcopy of **Price Schedule and Recurrent Cost Forms** as per format provided in tables on pages 35 to 45 and submit a soft copy and a printed copy of their Financial Proposal. Bidders may include additional rows and items if required. If there is any discrepancy between the proposed cost on the softcopy and on the printed document, the cost provided in the printed document will be considered.

2.10 Terms of Payment

The method and conditions of payment to be made to the Supplier shall be as follows:

(i) **On Delivery: Forty (40) percent** of the Contract Price shall be paid on receipt of the Goods and upon submission of invoice. This payment shall be made on submission of a bank guarantee to cover the full amount of the sum advanced.

(ii) **On Acceptance:** The **remaining sixty (60) percent** of the Contract Price shall be paid to the Supplier within thirty (30) days after the date of the Acceptance Certificate for the respective delivery is issued by the University after successful equipment commissioning.

2.11 Training

The Supplier must provide basic training to five members of the University staff who will operate the proposed system and associated equipment. The Supplier shall provide sufficient and timely instructions for the UoM Staff to be able to successfully access and operate the proposed system in a suitable manner. Training should include normal operations, error handling, and corrective actions and be carried out after the successful commissioning at the University.

2.12 Installation and Commissioning

The quotation should include all costs for the supply, delivery, installation, configuration and commissioning of the UPS and power panel (including cable, breakers, surge protector, ELCB, change over switch, etc...). It is the responsibility of the supplier to provide a working solution for the system.

The supplier is expected to deliver, install and commission the system **within six (6) weeks** after receipt of Letter of Award from the University.

2.13 Documentation

The Supplier shall state agreement that the following types of documentation, or proposed alternative, will be provided for the system.

- A. General System Documentation – describes the functions, components, environment requirements, and equipment add-ons of the proposed system.
- B. Operations Documentation – describes how the systems work, features and capabilities. The documentation should describe at a minimum user and administrative processing requirements.
- C. User Documentation – describes how the system is to be used by intended staff.
- D. Error Process Documentation – identifies error conditions and how to correct them.
- E. Equipment Maintenance Documentation – provides users with descriptions of common malfunctions and solutions, routine maintenance of associated equipment.
- F. All username, passwords and IP addresses should be given to UoM.

The successful bidder shall provide one complete set of all relevant technical and operation manuals. It may be provided on CD(s). If a CD(s) is used, the software to read it must be provided if it is not in MS-Word or PDF format.

2.14 System Acceptance Tests

The successful bidder shall state agreement with each of the following points or proposed alternatives:

- A. The bidder must provide a proposed Acceptance Test Plan (ATP) for the University's review and approval before implementation of the proposed system. The Acceptance Test Plan must show the events, sequences, and schedules required for acceptance of the system.
- B. The bidder must conduct operational systems test of the proposed system, and certify in writing that the equipment and system is ready for use, and will perform in accordance with the requirements set forth in the Proposal and resulting contract. The bidder must ensure each module/component of the system operates according to specifications before turning the system over to the University staff (University staff will not de-bug modifications for the bidder);
- C. University staff will perform acceptance testing with assistance from the bidder;
- D. The bidder must agree that, during the acceptance period, each system component will undergo a live test;
- E. Any equipment not meeting the specifications or other requirements of the contract may be rejected and returned to the bidder for repair or replacement at the University's discretion and at no cost (including return transportation) to the University;
- F. The bidder must agree that, in order to pass an acceptance test, the system must successfully operate for thirty (30) consecutive calendar days and be approved by the University;
- G. The bidder must demonstrate the ability to provide adequate service and maintenance as outlined in this Request for Proposal;
- H. The bidder must provide all documentation for the section being tested before acceptance testing will begin;
- I. System testing completion dates will be negotiated prior to award; and
- J. System Acceptance – Following the system installation, the University will assess operational acceptance and sign-off that the system functions as required.

2.15 Maintenance and Support

The bidder shall state agreement with each of the following points or proposed alternative, and provide the information requested:

2.15.1 Warranty on proposed System

The following support must be provided at no charge during at least one year: Warranty Period on both Parts and Labour, which begins on the first business day after the system is commissioned and accepted by the University. During the Warranty Period, the bidder must agree to provide the support for the repair / replacement of defective parts and operational support at no cost. Support should be available with four (4) hour or less response time and five (7) days a week.

In the event that the fault on the UPS cannot be resolved within 1 day, the bidder must provide a UPS of equivalent or higher capacity to replace the faulty equipment until resolution of the problem. The following support level is required during warranty period:

- a) Periodic full system tests to measure performance against set criteria;
- b) Confirmation of correct operation of equipment;
- c) Change batteries if required;
- d) Maintenance on UPS;
- e) Repairs and reconfiguration if required; and
- f) Test of system.

2.15.2 Maintenance Agreement

The bidder is required to propose a five-year maintenance agreement plan. Support will be provided for five years beginning on the first business day after the warranty period. The supplier is expected to provide the same level of support as during warranty period.

The supplier is requested to provide separate costing for:

- Maintenance agreement covering labour and transport only; **and**
- Maintenance agreement for parts, labour and transport.

2.16 Spare Parts Policy

All parts of the system should be available for at least eight (8) years.

2.17 Confidentiality Agreement

As the successful bidder(s) will have access to the data/information of the University while deploying the UPS solution, the University may require the bidder(s) to sign a confidentiality agreement undertaking not to disclose or part with any information relating to the University and its data to any person or persons, as may come into possession of the bidder(s) during the implementation and deployment phases.

2.18 Use of Contract Documents and Information

The successful bidder shall not, without the University's written consent, disclose the Contract or any provision thereof, or any specification or information furnished by or on behalf of the University in connection therewith, to any person(s) other than a person(s) employed by the bidder in the performance of the Contract. Disclosure to any such

employed person(s) shall be made in confidence against non-disclosure agreements completed prior to disclosure and disclosure shall extend only so far, as may be necessary for purpose of such performance.

Any document other than the Contract itself shall remain the property of the University and all copies thereof shall be returned to the University on termination of the Contract, if so required by the University.

The successful bidder shall not, without the University's prior written consent, make use of any document or information except for purposes of performing the Contract.

2.19 Delays in the installation of UPS

The successful bidder must strictly adhere to the deployment schedule as approved by the University for the performance of the obligations arising out of the contract. In the event of any major deviation from the schedule, the University may resort to any or all of the following:

- (a) Claiming Liquidated Damages; **and/or**
- (b) Whole or partial termination of the agreement.

2.20 Force Majeure

The successful bidder or the University is not responsible for delays or non-performance of any contractual obligations, caused by war, blockage, revolutions, insurrection, civil commotion, riots, mobilizations, strikes, blockade, acts of God, plague or other epidemics, fire, flood, obstructions of navigation by ice of port of despatch, acts of Government or public enemy or any other event(s) beyond the control of either party which directly, materially and adversely affect the performance of any contractual obligation.

If a force majeure situation arises, the successful bidder shall promptly notify the University in writing of such conditions and the change thereof. Unless otherwise directed by the University, in writing, the successful bidder shall continue to perform his obligations under the contract as far as reasonably practiced and shall seek all reasonable alternative means for performance not prevented by the force majeure event.

2.21 Documents to be submitted

The bidder shall submit the following:

- 1) Bidder's / Subcontractor's brief profile;
- 2) Number of staff in company, to be separated into technical and non technical categories;
- 3) UPS implementation sites;
- 4) Electrical implementation sites (Bidder/ Subcontractor);
- 5) Acceptance of the terms and conditions as contained in this document; and
- 6) Supporting documents in respect of proof of implementation/ security integration, total turnover, list of support centres and qualified professionals on the rolls of the company.

Section IV. Technical Specification Sheet

Section IV. Technical Specification Sheet
TECHNICAL PROPOSAL

Proposed setup for Electrical Panel
(To be provided by bidder)

Table 1: List of materials for Power Panel & UPS Connection

Features	Required	Quantity	Proposed
Distribution Board	To fit MCCB 250 Amp, 4 Poles 415 Volts and all other electrical parts such as change over switch	1	
MCCB	250Amp, 415V, 4 pole	1	
Electrical cable	At least 16 mm	<i>Bidder to propose</i>	
	Other	<i>Bidder to propose</i>	
2 way change over switch	Manual	1	
3 way change over switch	Manual	1	
	If others, please state		
ELCB	At least 63 Amp, 4 poles, 415V, Sensibility 30mA	2	
Breakers	At least 125 Amp, 4 poles, 415 Volts	3	
	32 A , 415 V, Double Pole	3	
	Other	<i>Bidder to propose</i>	
Surge protector	Under/ Over voltage control	1	
Industrial socket	At Least 32Amp industrial socket.	3 required, 1 per phase	
Neon indicator for change over switch	<i>Please state</i>	<i>Please state</i>	
Documentation	All cables, socket should be properly tagged and labelled		
	Other (<i>Please State</i>)		

Table 2: Technical Specification for 30 KVA Online UPS (Option 1)

Table 2: Technical Specifications for 30KVA Double Conversion Online UPS		
Feature	Required configuration	Proposed configuration
UPS	30 KVA Double Conversion Online	
Brand/Model	Please state	
Model Series	Please state	
Country of Origin	Please state	
Certifications	Please state	
General		
On-line mode operation	Required	
Bypass mode operation	Required	
Battery mode operation	Required	
Efficiency in double conversion mode (full load)	At least 92 %	
Ambient temperature	0 to 40 degrees C	
Relative Humidity	Up to 95% (non-condensing).	
Interference	The UPS equipment shall be provided with EMI/RFI Suppression following EN-50091-2	
Enclosure	Free-standing steel cabinet with rollers	
Audible noise	Max of 65 dBA measured at 1m from UPS	
UPS Cooling	Forced air-cooled by internally mounted fan Else please state	

Table 2: Technical Specifications for 30KVA Double Conversion Online UPS		
Feature	Required configuration	Proposed configuration
Input		
Input Voltage	230/400 V AC +/- 20%, Three Phase	
Input Power Cable	4 Core + Ground	
Input Frequency	45 - 60 Hz	
Power Factor	at least 0.9	
Soft Start Capability	Yes	
Input Protection (Built-in)	against overvoltage, overcurrent and undervoltage condition	
Internal Backfeed Protection	Required	
Output		
Output Voltage	230/400 VAC, Three Phase	
Power Cable	4 Core + Ground	
Output Frequency	50 Hz	
Power Factor	At least 0.8	
Permitted load power factor	0.7 Lagging to 0.8 leading	
Overload on inverter	110 % (Please state duration)	
	125 % (Please state duration)	
	150 % (Please state duration)	
	If the overload limits or times are exceeded the UPS should transfer the load to bypass supply via internal transfer switch	
	In the event the bypass supply is unavailable (e.g. mains failure), the inverter shall have electronic current-limiting protection to prevent damage to internal components.	

Table 2: Technical Specifications for 30KVA Double Conversion Online UPS		
Feature	Required configuration	Proposed configuration
Output (continued)		
UPS Fault Condition	UPS maintains conditioned power output or transfer to bypass	
Crest Factor acceptance	Please State	
Output voltage THD – Linear load	<5%	
Voltage Transients – at 100% load step	+/- 2%.	
Recovery Time	< 10 msec	
Batteries		
Autonomy at full load	at least 9 minutes	
Charging time for fully discharged battery to support at least 90 % load	Please State	
Maintenance free sealed batteries	Required	
Long Life batteries	Please state estimated battery lifetime	
Battery over Deep Discharge Protection	Required	
Automatic Battery Test	Please state	
Display and Controls		
LCD display	Status/Alarm/Configuration	
	Indication of whether load is supplied by Battery, Inverter or Bypass	
	Battery status	
	Phase Voltages	
	Autonomy	
	UPS Load	
	Other (Please state)	

Table 2: Technical Specifications for 30KVA Double Conversion Online UPS		
Feature	Required configuration	Proposed configuration
Audible Alarm	at least 65 dBA at a distance of 1 m	
	Reset switch to disable/enable audible alarm	
	For all audible alarm conditions, the display shall identify the cause of error/alarm.	
	Alarm must continue until the condition rectifies itself or the alarm is silenced	
	Once silenced, the audible alarm shall not sound until a new alarm condition is present,	
	UPS Fault	
	Other (Please state)	
Event Log	Alarm /Fault occurrence /Events should be recorded in an event log with time stamp	
Bypass		
Automatic bypass	Inverter overload capacity exceeded	
	UPS Fault condition	
	Other (Please State)	
Internal Manual bypass	Please state	
External Maintenance Bypass Switch	To allow removal of UPS from system after bypass without any downtime.	
Communication for Monitoring and Management		
RS 232 (serial)	Please state	
Web/ SNMP 100 Mbps Ethernet network module	At least one required	
IP based management	IP based and manageable from remote location	
Access to management interface	Web browser preferred (Other state)	

Table 2: Technical Specifications for 30KVA Double Conversion Online UPS		
Feature	Required configuration	Proposed configuration
Compliance with Standards		
Safety	IEC 62040-1 (Other, Please State)	
EMC	IEC 62040-2 (Other, Please State)	
Performance	IEC 62040-3 (Other, Please State)	
Surge protection	IEC1000-4-5(6kV 1.2/50 micro sec, 3kA 8/20 micro sec)	
Warranty	at least one year on part (including batteries), labour & transport	
Service level during warranty & maintainance contract	7 Days x 8 Hours x 4 hours Response Regular preventive maintenance	
	Provision of a replacement UPS with equivalent or higher rating in case UPS is faulty and cannot be repaired within 1 day. Replacement UPS must be provided during repairs of the faulty UPS.	
Web site for reference	Please provide URL for the equipment related info	
Optional Items		
Temperature Sensor	Please State if built in or available separately	
Humidity Sensor	Please State if built in or available separately	
SMS Alert	Please State if built in or available separately	
Water Leak Detector	Please State if built in or available separately	
Smoke Detector	Please State if built in or available separately	
Software for Clean Server & UPS Shutdown	Please State if provided or available separately	

Table 3: Technical Specifications for 40 KVA Double Conversion Online UPS (Option 2)

Table 3: Technical Specifications for 40 KVA Double Conversion Online UPS		
Feature	Required configuration	Proposed configuration
UPS	40 KVA Double Conversion Online	
Brand/Model	Please state	
Model Series	Please state	
Country of Origin	Please state	
Certifications	Please state	
General		
On-line mode operation	Required	
Bypass mode operation	Required	
Battery mode operation	Required	
Efficiency in double conversion mode (full load)	At least 92 %	
Ambient temperature	0 to 40 degrees C	
Relative Humidity	Up to 95% (non-condensing).	
Interference	The UPS equipment shall be provided with EMI/RFI Suppression following EN-50091-2	
Enclosure	Free-standing steel cabinet with rollers	
Audible noise	Max of 65 dBA measured at 1m from UPS	
UPS Cooling	Forced air-cooled by internally mounted fan Else please state	
Input		
Input Voltage	230/400 V AC +/- 20%, Three Phase	
Input Power Cable	4 Core + Ground	
Input Frequency	45 - 60 Hz	
Power Factor	at least 0.9	
Soft Start Capability	Yes	

Table 3: Technical Specifications for 40 KVA Double Conversion Online UPS		
Feature	Required configuration	Proposed configuration
Input (continued)		
Input Protection (Built-in)	against overvoltage, overcurrent and undervoltage condition	
Internal Backfeed Protection	Required	
Output		
Output Voltage	230/400 VAC, Three Phase	
Power Cable	4 Core + Ground	
Output Frequency	50 Hz	
Power Factor	At least 0.8	
Permitted load power factor	0.7 Lagging to 0.8 leading	
Overload on inverter	110 % (Please state duration)	
	125 % (Please state duration)	
	150 % (Please state duration)	
	If the overload limits or times are exceeded the UPS should transfer the load to bypass supply via internal transfer switch	
	In the event the bypass supply is unavailable (e.g. mains failure), the inverter shall have electronic current-limiting protection to prevent damage to internal components.	
UPS Fault Condition	UPS maintains conditioned power output or transfer to bypass	
Crest Factor acceptance	Please State	
Output voltage THD – Linear load	<5%	
Voltage Transients – at 100% load step	+/- 2%.	
Recovery Time	< 10 msec	

Table 3: Technical Specifications for 40 KVA Double Conversion Online UPS		
Feature	Required configuration	Proposed configuration
Batteries		
Autonomy at full load	at least 9 minutes	
Charging time for fully discharged battery to support at least 90 % load	Please State	
Maintenance free sealed batteries	Required	
Long Life batteries	Please state estimated battery lifetime	
Battery over Deep Discharge Protection	Required	
Automatic Battery Test	Please state	
Display and Controls		
LCD display	Status/Alarm/Configuration	
	Indication of whether load is supplied by Battery, Inverter or Bypass	
	Battery status	
	Phase Voltages	
	Autonomy	
	UPS Load	
	Other (Please state)	
Audible Alarm	at least 65 dBA at a distance of 1 m	
	Reset switch to disable/enable audible alarm	
	For all audible alarm conditions, the display shall identify the cause of error/alarm.	
	Alarm must continue until the condition rectifies itself or the alarm is silenced	
	Once silenced, the audible alarm shall not sound until a new alarm condition is present,	
	UPS Fault	
	Other (Please state)	

Table 3: Technical Specifications for 40 KVA Double Conversion Online UPS		
Feature	Required configuration	Proposed configuration
Event Log	Alarm /Fault occurrence /Events should be recorded in an event log with time stamp	
Bypass		
Automatic bypass	Inverter overload capacity exceeded	
	UPS Fault condition	
	Other (Please State)	
Internal Manual bypass	Please state	
External Maintenance Bypass Switch	To allow removal of UPS from system after bypass without any downtime.	
Communication for Monitoring and Management		
RS 232 (serial)	Please state	
Web/ SNMP 100 Mbps Ethernet network module	At least one required	
IP based management	IP based and manageable from remote location	
Access to management interface	Web browser preferred (Other state)	
Compliance with Standards		
Safety	IEC 62040-1 (Other, Please State)	
EMC	IEC 62040-2 (Other, Please State)	
Performance	IEC 62040-3 (Other, Please State)	
Surge protection	IEC1000-4-5(6kV 1.2/50 micro sec, 3kA 8/20 micro sec)	

Table 3: Technical Specifications for 40 KVA Double Conversion Online UPS		
Feature	Required configuration	Proposed configuration
Warranty	at least one year on part (including batteries), labour & transport	
Service level during warranty & maintainance contract	7 Days x 8 Hours x 4 hours Response Regular preventive maintenance	
	Provision of a replacement UPS with equivalent or higher rating in case UPS is faulty and cannot be repaired within 1 day. Replacement UPS must be provided during repairs of the faulty UPS.	
Web site for reference	Please provide URL for the equipment related info	
Optional Items		
Temperature Sensor	Please State if built in or available separately	
Humidity Sensor	Please State if built in or available separately	
SMS Alert	Please State if built in or available separately	
Water Leak Detector	Please State if built in or available separately	
Smoke Detector	Please State if built in or available separately	
Software for Clean Server & UPS Shutdown	Please State if provided or available separately	

Technical Specification Sheets Authorised By:

Bidder's Signature: _____

Name: _____

Position: _____

Date: _____

Authorised for and on behalf of:
(DD/MM/YY)

Company: _____

Financial Proposal

Table 4: List of Goods, Price Schedule and Product Details for Power Panel

Procurement Reference Number: CITS 06/11

[Complete Columns C to state quantity proposed (where not mentioned) & E to I Authorise the prices quoted in the signature block below.]

Bidder may modify description of goods, include additional components, modify quantity of goods if required based on the proposed setup.

Currency of Quotation: Mauritian Rupees .

Item No	Description of Goods	Quantity	Unit of Measure	Unit Price	Total Price	Make/Model /Brand Name	Country of Origin	Warranty/Shelf Life Period
A*	B*	C*	D*	E	F	G	H	I
1	MCCB -250 A, 4 Poles, 415 V	1	Unit					
2	Electrical Cables <i>(as per technical specifications above)</i>	Please state	Lot					
3	2 Way Change Over Switch <i>(as per technical specifications above)</i>	1	Unit					
4	3 Way Change Over Switch <i>(as per technical specifications above)</i>	1	Unit					
5	ELCB – 63 A, 4 Poles, 145 V, 30 mA Sensibility	1	Unit					
6	Breaker – 125 A, 4 Poles, 415 V	3	Unit					
7	Breaker – 32 A, 415 V, 2 Poles, 415 V	3	Unit					
8	Surge protector <i>(as per technical specifications above)</i>	1	Unit					
9	32 A Industrial Socket <i>(as per technical specifications above)</i>	3	Unit					
10	Other (Please state)							

11								
12								
				Other additional costs				
				Subtotal				
				VAT @ %				
				Total				

Enter 0% VAT rate if VAT exempt.

Quantity may be increased or decreased by a maximum of 50 % without change in unit price.

The Delivery and Completion Schedule shall be as specified in the Special Conditions of Contract.

Table 5: List of Goods, Price Schedule and Product Details for 30 KVA Online UPS & Modules

Procurement Reference Number: CITS 06/11

[Complete Columns C to state quantity proposed (where not mentioned) & E to I Authorise the prices quoted in the signature block below.]

Bidder may include additional components, modify quantity of goods if required based on the proposed setup.

Currency of Quotation: Mauritian Rupees

Item No	Description of Goods	Quantity	Unit of Measure	Unit Price	Total Price	Make/Model/Brand Name	Country of Origin	Warranty/Shelf Life Period
A*	B*	C*	D*	E	F	G	H	I
1	30KVA True online double conversion UPS with three phase input and output as per specifications above	1	Unit					
2	SNMP/Web Module	1	Unit					
3	Software for UPS, OS shutdown	1	Lot					
4	Software for LAN	1	Lot					
5	GSM gateway (if required)	1	Unit					
6	Web based water leak detector	1	Unit					
7	Environmental monitoring device	1	Unit					

<i>Enter 0% VAT rate if VAT exempt.</i>			Other additional costs					
			Subtotal					
			VAT @ %					
			Total					

Quantity may be increased or decreased by a maximum of 50 % without change in unit price.

The Delivery and Completion Schedule shall be as specified in the Special Conditions of Contract.

Table 6: Price and Completion Schedule for Installation & Commissioning of 30 KVA UPS & Power Panel

PRC No.: CITS 06/11		Currencies in Mauritian Rupees (MUR) VAT Inclusive				Date: _____ Page N° 1 of 1	
1	2	3	4	5	6	7	
Service N°	Description of Services	Country of Origin	Delivery Date at place of Final destination	Quantity and physical unit	Unit price ¹	Total Price per Service ² (Col. 5*6 or estimate)	
1	Electrical Cabling and re-structuring		Within two (2) weeks from delivery of equipment at UoM, Réduit	1 Lot			
2	Installation & Commissioning of 30 KVA online UPS			1 Lot			
3	Any Other Cost (Please state)						
Total Price (VAT Inclusive)							

¹ Service prices include all taxes , labour costs and other charges payable by the Bidder thereon.

² In case of discrepancy between unit price and total, the unit price shall prevail. Similarly, subtotals shall prevail over totals.

Table 7: Recurrent Cost Form for 30 KVA Online UPS

Recurrent Costs Form							
Prices during the maintenance period of 5 years after the warranty period							
Currencies in Mauritian Rupees (MUR) VAT Inclusive						Date: _____	
Page N° 1 of 1							
PRC No.: CITS 06/11	Base Cost ¹ (Rs) (i.e., during Warranty)	Maximum compounded costs per annum after expiration of the warranty period ²					
		Year 1 [Rx ₁]	Year 2 [Rx ₂]	Year 3 [Rx ₃]	Year 4 [Rx ₄]	Year 5 [Rx ₅]	Total Recurrent Costs
Option A: 30KVA Online UPS (labour and transport only)							
Option B: 30KVA Online UPS (Parts, labour and transport)							
Other (<i>Please state</i>)							

Note: The above list of Recurrent Costs is just an example. The Purchaser should modify this list as appropriate.

¹ The Bidder should quote for any costs involved on the items specified during the warranty period (If any).

² The annual costs [Rx_n] should indicate the total costs for the year. The Bidder shall quote the number of years of recurrent costs as specified in the Bid Data Sheet, which will be combined with the Bid Price using a Net Present value calculation for evaluation purposes. The extent to which these costs are to be part of the Contract is defined in SCC.

³ Please provide cost in case 5 years warranty is not provided by the manufacturer, else not applicable.

Table 8: List of Goods, Price Schedule and Product Details for UPS 40KVA (OPTION 2)

Procurement Reference Number: CITS 06/11

[Complete Columns E to I & authorise the prices quoted in the signature block below.]

Currency of Quotation: Mauritian Rupees

Item No	Description of Goods	Quantity	Unit of Measure	Unit Price	Total Price	Make/Model /Brand Name	Country of Origin	Warranty/Shelf Life Period
A*	B*	C*	D*	E	F	G	H	I
1	40KVA True online double conversion UPS with three phase input and output as per specifications above	1	Unit					
2	SNMP/Web Module	1	Unit					
3	Software for UPS, OS shutdown	1	Unit					
4	Software for LAN	1	Unit					
5	GSM Modem	1	Unit					
6	Web based water leak detector	1	Unit					
7	Environmental monitoring device	1	Unit					
	Other (<i>Please state</i>)							
				Other additional costs				
				Subtotal				

Enter 0% VAT rate if VAT exempt.

VAT @	%			
Total				

Quantity may be increased or decreased by a maximum of 50 % without change in price.

The Delivery and Completion Schedule shall be as specified in the Special Conditions of Contract.

Table 9: Price and Completion Schedule for Installation & Commissioning of 40 KVA UPS & Power Panel

PRC No.: CITS 06/11		Currencies in Mauritian Rupees (MUR) VAT Inclusive				Date: _____	Page N° 1 of 1
1	2	3	4	5	6	7	
Service N°	Description of Services	Country of Origin	Delivery Date at place of Final destination	Quantity and physical unit	Unit price ¹	Total Price per Service ² (Col. 5*6 or estimate)	
1	Electrical Cabling and re-structuring			Lot			
2	Installation and Commissioning of 40 KVA online UPS		Within two (2) weeks from delivery of equipment.	1			
3	Any Other Cost (Please state)		UoM, Réduit				
					Total Price (VAT Inclusive)		

¹ Service prices include all taxes, labour costs and other charges payable by the Bidder thereon.

² In case of discrepancy between unit price and total, the unit price shall prevail. Similarly, subtotals shall prevail over totals.

Table 9: Recurrent Cost Form for 40 KVA Online UPS

Recurrent Costs Form							
Prices during the maintenance period of 5 years after the warranty period							
Currencies in Mauritian Rupees (MUR) VAT Inclusive						Date: _____	
Page N° 1 of 1							
PRC No.: CITS 06/11	Base Cost ¹ (Rs) (i.e., during Warranty)	Maximum compounded costs per annum after expiration of the warranty period ²					
		Year 1 [Rx ₁]	Year 2 [Rx ₂]	Year 3 [Rx ₃]	Year 4 [Rx ₄]	Year 5 [Rx ₅]	Total Recurrent Costs
Option A: 40KVA Online UPS (Labour and transport)							
Option B: 40KVA Online UPS (Parts, Labour and transport)							
Other (<i>Please state</i>)							

Note: The above list of Recurrent Costs is just an example. The Purchaser should modify this list as appropriate.

¹ The Bidder should quote for any costs involved on the items specified during the warranty period (If any).

² The annual costs [Rx_n] should indicate the total costs for the year. The Bidder shall quote the number of years of recurrent costs as specified in the Bid Data Sheet, which will be combined with the Bid Price using a Net Present value calculation for evaluation purposes. The extent to which these costs are to be part of the Contract is defined in SCC.

³ Please provide cost in case 5 years warranty is not provided by the manufacturer, else not applicable.

List of Goods, Price Schedule, Product Details, Price & Completion Schedules and Recurrent cost forms Authorised By

Bidder's _____ Name: _____
Signature:

Position: _____ Date: _____
(DD/MM/YY)

Authorised for and on behalf of:

Company: _____

PART 3: CONTRACT

Section V. Contract Agreement and General Conditions of Contract

Any resulting contract shall be placed by means of a Purchase Order/Letter of Acceptance and shall be subject to the General Conditions of Contract (GCC) for the Procurement of Goods (available on website <http://mof.gov.mu>) except where modified by the Special Conditions below.

Section VI. Special Conditions of Contract

Procurement Reference Number: CITS 06/11

The clause numbers given in the first column correspond to the relevant clause number of the GCC.

Subject and GCC clause reference	Special Conditions
Site GCC 1.1(n)	The Site for delivery of the Goods is University of Mauritius, Réduit
Incoterms Edition GCC 4.2(b)	Incoterms shall be governed by the rules prescribed in Incoterms 2000.
Notices GCC 8.1	Any notice shall be sent to the following addresses: For the University of Mauritius the address and the contact name shall be: THE REGISTRAR UNIVERSITY OF MAURITIUS Réduit Republic of Mauritius TEL NO.:(230) 403 7400 FAX NO.: (230) 454 9642 EMAIL: registrar@uom.ac.mu _____ For the Supplier, the address and contact name shall be _____
Delivery and Documents GCC 12	The Goods are to be delivered within Six (6) Weeks from the date of purchase order or Letter of Acceptance. The shipping and other documents to be furnished by the Supplier are: (a) signed delivery note;

Subject and GCC clause reference	Special Conditions
Terms of Payment GCC 15.1	The structure of payments shall be: full payment following delivery of the Supplies and submission of an invoice and the documents listed in clause 12.
Terms of Payment GCC 15.3	<p>The method and conditions of payment to be made to the Supplier shall be as follows:</p> <p>(i) On Delivery: Forty (40) percent of the Contract Price shall be paid on receipt of the Goods and upon submission of invoice.</p> <p>This payment shall be made on submission of a bank guarantee to cover the full amount of the sum advanced.</p> <p>(ii) On Acceptance: The remaining sixty (60) percent of the Contract Price shall be paid to the Supplier within thirty (30) days after the date of the acceptance certificate for the respective delivery is issued by the Purchaser after successful equipment commissioning.</p>
Terms of Payment GCC 15.4	The currency of payment shall be the currency of order specified in the List of Goods, Price Schedule and Product Details in the Statement of Requirements.
Performance Security GCC 17	A performance security in the form of a bank guarantee representing 10% of the final contract price shall be required.
Packing and Documents GCC 22.2	Not Applicable
Insurance GCC 23	Not Applicable
Transportation GCC 24	Not Applicable
Liquidated Damages GCC 26	Liquidated damages for the whole contract are <i>0.1%</i> of the final contract price per week. The maximum amount of liquidated damages for the whole contract is <i>10 %</i> of the final contract price.
Warranty GCC 27.3	The minimum period of warranty/shelf life shall be one year after successful commissioning of all hardware proposed.
GCC 20.1	Not applicable
GCC 30.1	Not applicable

PART 4: SCHEDULES

Schedule 1: Performance Security (Bank Guarantee)

.....*Bank's Name and Address of Issuing Branch or Office*.....

Beneficiary:*Name and Address of University of Mauritius*

Date:.....

Performance Guarantee No.:.....

We have been informed that*name of the Contractor*..... (hereinafter called "the Contractor") has entered into Contract No.....*reference number of the Contract*..... dated..... with you, for the execution of *name of Contract and brief description of Works*(hereinafter called "the Contract").

Furthermore, we understand that, according to the conditions of the Contract, a performance security is required.

At the request of the Contractor, we *name of Bank*hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of *amount in figures (amount in words)*..... such sum being payable in the types and proportions of currencies in which the Contract Price is payable, upon receipt by us of your first demand in writing accompanied by a written statement stating that the Contractor is in breach of its obligation(s) under the Contract, without your needing to prove or to show grounds for your demand or the sum specified therein.

This guarantee shall expire not later than twenty-eight days from the date of issuance of the Certificate of Completion/Acceptance Certificate, calculated based on a copy of such Certificate which shall be provided to us, or on the.....day of,, whichever occurs first. Consequently, any demand for payment under this guarantee must be received by us at this office on or before that date.

This guarantee is subject to the Uniform Rules for Demand Guarantees, ICC Publication No. 458. (Applicable to overseas contractor only).

.....*Seal of bank and Signature(s)*.....

Schedule 2: Quotation Schedule Checklist

Procurement Reference No.: CITS 06/11

Description	Attached (please tick if submitted and cross if not)
Quotation Submission Sheet	
Company profile, past experience and references where similar goods have been supplied and are being supported.	
Subcontractor information if applicable	
Electrical specification and List of materials for Power Panel & UPS Connection	
Technical Specification sheets for 30 KVA UPS (Option 1)	
List of Goods, Price Schedule and Product Details (Option1)	
Price and Completion Schedule (Option 1)	
Recurrent cost form (Option 1)	
Technical Specification sheets for 40 KVA UPS (Option 2)	
List of Goods, Price Schedule and Product Details (Option 2)	
Price and Completion Schedule (Option 2)	
Recurrent cost form (Option 2)	
Brochures for equipment proposed	

Name of Bidder(s): _____

Contact Person: _____ Phone Number: _____

Signature of authorised signatory: _____

Company Seal _____