



Mahatma Gandhi University, Kerala

(Tender No: ADB4 /1/329/SJPB-4,5/UPS/2018)

Dated: 18.02.2019

NOTICE INVITING TENDER

(Tender No: ADB4 /1/329/SJPB-4,5/UPS/2018)

**The Registrar, Mahatma Gandhi University, Kottayam** invites online bid (technical and financial bid) for Supply & Installation of **20 KVA U.P.S (3 Nos) & 5 KVA U.P.S (1 No.)** in connection with installation of UPS Connectivity at 4<sup>th</sup> & 5<sup>th</sup> floor of Silver Jubilee Pareeksha Bhavan of the University from reputed firms.

1	Name of the Item	Supply & Installation of <b>20 KVA U.P.S (3 Nos) &amp; 5 KVA U.P.S (1 No.)</b>
2	Earnest money deposit (EMD)	Rs. <b>7500</b> /-
3	Tender submission fee	Rs. <b>1500</b> /- + GST
4	Period of supply and installation	Within 30 days
5	Mode of submission of Bid	Online
6	Tender Documents	Can be downloaded from the website <a href="http://www.etenders.kerala.gov.in">www.etenders.kerala.gov.in</a>
7	Last date and Time of submission of tender by online	<b>04.03.2019 4 pm</b>
9	Date and time of opening of technical bid	<b>06.03.2019 11 am</b>

General tender documents and tender schedule can be downloaded in A<sub>4</sub> plain size paper free of cost from the website [www.etenders.kerala.gov.in](http://www.etenders.kerala.gov.in). Documents to be submitted along with bid through online.

Sl.No.	Through online
1	Scanned copy of valid registration certificate/dealership certificate
2	Scanned copy of duly filled e-payment form
3	Scanned copy of other certificates required, if any, for tender acceptance
4	Scanned Copy of duly filled preliminary Agreement in stamp paper of Rs. 200/-
5	BOQ

**SPECIAL CONDITIONS**

1. The quoted Price should be inclusive of all taxes/freight/Installation etc.
2. Scanned copy of brochure of different models quoted should be enclosed.
3. **Warranty, AMC conditions**, nearest servicing centers details, user reference and supporting catalogues should be provided (soft copies).
4. Complete set of service and operation manuals for diagnosis, trouble shooting, maintenance and electronic circuitry (soft copies).
5. The Delivery Schedule, Payment Terms & Warranty/Guarantee etc must be clearly indicated in the technical bid.

The bids shall be opened at the date and time specified. Further details can be had from the office of AdB4 SECTION, Mahatma Gandhi University, Kottayam, Kerala-686560 on all working days during working hours. Contact number: 0481- 2733309. 9447507660. The bidders are advised to submit their bid well in advance to avoid any kind of network issues. The undersigned reserves the right to reject any or all the tender without assigning any reason whatsoever.

**Assistant Registrar III (Admn)**  
**For Registrar**

**Detailed Specifications for the 20 KVA U.P.S – 3 Nos & 5 KVA U.P.S – 1No.**

<b>Sl No.</b>	<b>Quantity</b>	<b>Description</b>
1.	3 Nos.	<p><b>Supply, installation, testing and commissioning of on-line UPS with following specifications suitable for operation on 415V, 50Hz, 3ph AC supply system. The rate shall be inclusive of all charges conveyance, installation , testing and commissioning, loading -unloading, battery stand etc complete</b></p> <p><b>Capacity : 20KVA</b>                      Technology: Digital signal processor controlled True Online High Frequency Inverter Technology                      Noise Level : Less than 50DB                      Operating Temperature : 0-45 degree centigrade                      Humidity : 0 – 95% non condensing                      Total DC bus voltage : 240V DC</p> <p><b>Battery recharge time</b>                      (After Complete discharge) at 100% charge : 8 Hours                      Crest Factor : Minimum 3:1 at full load                      Out put Wave Form : Pure Sine wave                      Cold Start feature : Required</p> <p><b>INPUT</b>                      Input : Three phase 4 wire                      Input Voltage Range : 415V AC + neutral + Earth                      Input Frequency Range : 46 – 54 Hz                      Line low/Hight Cutoff : 330V AC to 478V AC                      Power Factor : &gt;0.9</p> <p><b>OUTPUT</b>                      Output Voltage ; 220/230V AC programmable 1 Ph. + N                      Output Frequency : 50Hz +/- 0.5% (Free running)                      Harmonic Distortion : &lt;2% (linear load)                      &lt;5% non – linear load)</p> <p><b>EFFICIENCY</b>                      AC to AC : 93.00%                      DC to AC : 94.00                      STATIC SWITCH : Should take care of 100% load transfer                      (Bi-directional) for all ratings : Without break                      LOAD POWER FACTOR : 0.9 lag                      OVERLOAD CAPACITY : 125% for 10mts</p> <p><b>UPS SHUT DOWN</b>                      UPS shut down with alarm and indication in case of Output over voltage &amp; Output under voltage, Battery low, inverter overload, over temperature, Output short</p>

**ISOLATION**

Isolation of power : Both Input & Output have MCBs. Also battery connection have MCB/MCCB/switch

Isolation Transformer : At input

Galvanic Isolation : Required

Manual Service Bypass : Automatic Static bypass

**PROTECTION**

Short Circuit Protection : MCB/MCCB trips and UPS shut down without blowing any fuses

Input over and under voltage: MCB with alarm. UPS safe in the case of height Voltage /High current /High spike/ high surges at input to the UPS

Output over & under voltage : MCB with alarm. The load connected to the UPS should be protected under any circumstance

**INDICATORS**

Mains on

Inverter On

Mains high

Mains low

Inverter over voltage

Inverter under voltage

Battery Low

Battery Over charge

Inverter overload /Current

Over temperature

LCD DISPLAY

DEGREE OF PROTECTION : IP 20

COMMUNICATION INTERFACE :RS 232 port for auto shut down, SNMP

**AUDIBLE ALARM**

Battery low

Mains failure

Output over current

Battery low

BATTERY : 12v 65AH Exide SMF-20 Nos

**WARRANTY : 3 Years OEM warranty for UPS**

**4 years OEM warranty for battery**

**QUALITY STANDARDS**

**UPS : ISO 9001:2008,14001:2004**

**BATTERY STAND : Required**

2.	1 No.	<p><b>Supply, installation, testing and commissioning of on-line UPS with following specifications suitable for operation on 230V, 50Hz, 1ph AC supply system. The rate shall be inclusive of all charges conveyance , installation, testing and commissioning, loading- unloading, battery stand etc complete</b></p> <p><b>Capacity : 5KVA</b>  Type : 5KVA Online Double Conversion UPS system  Isolation Transformer  Input Power Factor : 0.9  Input Frequency : 50Hz +/-0.5%  Input: Single phase  Input Voltage regulation: 160v to 230v  Output Power Factor : 0.8  IOoutput Frequency : 50Hz +/-0.5%  Overall efficiency: 93%  DC Voltage: 120v  Battery:12v 65Ah Exide SMF - 10Nos  WARRANTY : 3 Years OEM warranty for UPS  4 years OEM warranty for battery</p> <p><b>QUALITY STANDARDS</b>  UPS : ISO 9001:2008,14001:2004  BATTERY STAND : Required</p>
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ASSISTANT REGISTRAR III (ADMIN)

FOR REGISTRAR