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## KERALA PUBLIC SERVICE COMMISSION

File No. R&A I (2)9653/2016/GW

Thiruvananthapuram,  
Dated : 19.07.2016

### TENDER NOTICE

Inviting E-Tender for the supply and installation of 5 KVA UPS for the use at Head/ Regional / District Offices of Kerala Public Service Commission.

E-Tender in one cover system is invited from competent dealers and manufacturers for the supply of 5 KVA UPS in accordance with respective specifications for supply as shown in Annexure I of the Tender document.

Sl.No.	Item	Qty (Nos)	Cost of Tender (Forms)	EMD Fixed
1	5 KVA UPS	9 (Nine)	₹ 2,000/-	₹ 25,000/-

The tender is to be submitted as e-tender through <https://e-tenders.kerala.gov.in>. Since this is an e-tender, only those bidders who have enrolled in the above portal with their own digital signature certificate (DSC) can participate in the tender. E-Tender document and other details can be obtained from the above e-portal.

Tender No. - 3/2016  
Document download/ sale start date - 20.07.2016  
Bid submission start date - 20.07.2016  
Document closing date - 20.08.2016 5.00 PM  
Date & time of opening of e-tender - 25.08.2016 2.30 PM

Cost of e-Tender & EMD (Online Payment) as shown above table all payments including EMD should be made as single payment through online.

Dates up to which the rates are to remain firm for acceptance - 90 days from the date of opening  
Performance Security deposit - 5% of total amount of the contract value  
Period of supply - within 10 days of receipt of supply order.

The bidder desiring to take part in the bid shall log into <https://etenders.kerala.gov.in> and then select tender and initiate payment. Bidders will be directed to the payment gateway page of the State Bank of Travancore. There are two options-

1. State Bank of Travancore (SBT Net banking payment) and
2. Payment through NEFT/RTGS from other banks to the payment gateway of SBT.

For obtaining digital signature certificate (DSC) and necessary portal enrollment bidders can visit the website <https://etenders.kerala.gov.in/>

The e-tenders submitted by the competent dealer should definitely contain a scanned and signed copy of the declaration of product offered to supply and dealership certificate from the manufacturer.

Tenders will be opened in the online presence of each bidders or their authorised representatives who have logged in at the prescribed time of opening. If the date fixed for opening happens to be a holiday or due to net failure the tenders will be opened in the next working day at the same time.

The price of the e-tender form shall be received only through online payment – SBT/Online NEFT/RTGS from other banks.

Scanned copy of the agreement (Annexure II) in the prescribed format in Kerala Stamp paper worth Rs.200/- should be submitted online and original to the Secretary, Kerala Public Service Commission before the opening of e-tender.

The rates should be quoted in Indian Currency only.

Details with respect to the e-tender and the details of specifications (Annexure-I) of the item to be supplied can be obtained from the e-tender website <https://etenders.kerala.gov.in>.

The Secretary, KPSC, Pattom, Thiruvananthapuram will scrutinize the tenders received and will take necessary action for the award of contract.

The right of acceptance or rejection of any e-tender in full or in part without assigning any reasons there is reserved with the Secretary, KPSC.

The rules and regulations prescribed for e-tenders by the Government of Kerala, shall be applicable to this e-tender also.

## **Terms and conditions**

1. The make, model, year of manufacture etc of the 5 KVA UPS quoted should be clearly mentioned.
2. Three years comprehensive onsite warranty should be assured for UPS & 2 years for Batteries.
3. All charges, taxes, duties and levies should be clearly indicated.
4. The items should be supplied to the Head / Regional / District office of Kerala Public Service Commission, at the expense of the Tenderor.
5. The Installation, commissioning and initial operation to the satisfaction of the KPSC will be the responsibility of the supplier.
6. The payment will be made after completion of supply, installation and commissioning subject to the certification by our Technical Experts as to the quality and efficiency of the item supplied.
7. In case of under performance during the warranty period, the item should be replaced and the period of warranty will recommence from the date of replacement.

Any legal disputes that may arise in relation to the e-tender formalities will be restricted to the Jurisdiction of Thiruvananthapuram. The communications to be addressed to

*The Secretary,  
Kerala Public Service Commission,  
Pattom P.O., Thiruvananthapuram -4,  
Kerala.*

**Saju George  
Secretary  
Kerala Public Service Commission.**

**Note:-** More details can be obtained from the officer of Joint Secretary, R&A Wing, Kerala Public Service Commission. Visit [www.keralapsc.gov.in](http://www.keralapsc.gov.in)

## Annexure I

### Specification for 5kVA UPS

Sl. No.	Item/Category	Required Specification
1	<b>UPS</b>	5kVA Online UPS with isolation transformer, suitable for single phase AC input and single phase AC Output, Floor Mounted Type.
2	Technology	True Online UPS with double conversion, APFC IGBT (for both Rectifier and Inverter) based UPS
	Output Capacity (kVA) Output Capacity (kW)	5 kVA 4 kW
3	DC Bus Voltage	216V - 240V DC
4	Input line Low/High Transfer	160V AC - 300V AC at 100% load
5	Input Frequency range	45 to 55 Hz
6	Input Power Factor	$\geq 0.97$
7	Input Current Harmonic	$< 10\%$
8	Output Voltage	230V AC single phase +/-1% at full load
9	Output Frequency (Free running)	50Hz +/-0.5%
11	Output Wave Form	Pure sinusoidal wave
12	Output Harmonic Distortion	$\leq 2\%$ for 100% (linear load) $\leq 5\%$ for 100% (nonlinear load)
13	Output Power Factor	0.8
14	Output Crest Factor	Minimum 3:1 at full load
15	Overall efficiency of UPS at normal mode	$> 90\%$ rated load linear & nonlinear load
16	Inverter Overload Capacity	130% of overload for 1 minute 110% of over load for 10 minutes.
17	Isolation Power	Both power input & output should have MCBs. Battery connection should have MCB/MCCB/switch
18	Isolation Transformer	Built in galvanic isolation
19	Static switch (bi-directional) for all ratings	Should be provided and should take care of 100% load transfer without break.
20	UPS shutdown	UPS should shutdown with an alarm & indication on
21	Cooling system of UPS	Forced air
22	Operating Temperature	0 to 40 degree centigrade (100% continuous), 0-50 degree centigrade (80% continuous)
23	Humidity	0 to 90% RH, non-condensing
24	Noise Level	$\leq 50$ dB
25	RS 232 port for software interface	Required
26	SNMP Management/Web enabled interface	Required
27	Power Generator Compatibility	Required
28	Auto Retransfer, Cold start, Manual Service Bypass	Required
29	Protection	Electronics protection for device safety with MCBs

		Soft starts rectifier and inverter, battery current Limiting, overload protection and output short circuit Protection.
30	Indication/LCD Display	Mains ON, Inverter ON Battery On charge, Mains Over/Under Voltage, phase fail, Low battery, DC Over/Under Voltage, Inverter Overload, Load on inverter, Bypass on, Manual Bypass on, Battery run time
31	Metering	DC voltage, DC Current, Input Voltage, Output Voltage & Output Current
32	Audible alarm	Main Failure, Low Battery, on bypass, Overload
33	Manufacturer	Manufacturer should be ISO 9001:2000,ISO 14001 certified & BIS certificate to be produced for 5kVA Online UPS.
34	Enclosure Protection Class	IP 20
<b>Sl. No.</b>	<b>Item/Category</b>	<b>Required Specification</b>
1	<b>Batteries</b>	12V 42 AH SMF VRLA Batteries.(Make Quanta/Panasonic/Exide)
2	Battery Charger	Constant Voltage Constant Current
3	Minimum Charger Current	10% Battery AH
4	Battery recharge time (after complete discharge) to 100% charge	Battery recharge time should not exceed 12 hrs.
5	Battery Housing	Aesthetically finished MS Rack or wooden rack to house the Batteries of each UPS.
6	Flexible Battery Configuration	Battery blocks configuration will be scalable at site (ie.240V DC/216V DC UPS can be configured 228V/216V/204V/192V based on the site requirement)
7	Eligibility Criteria	<ul style="list-style-type: none"> <li>a) Should have supplied at least 1500 numbers of Online UPS in Kerala (Proof should be enclosed), in last 3 years</li> <li>b) UPS Manufacturer should have their Own Service Centre / Resident Engineer in all districts across Kerala (Details of Engineer name, number &amp; address should be provided)</li> <li>c) Mandatory certifications mentioned below should be enclosed.</li> </ul>
8	Warranty	3 years for UPS and 2 years for Batteries
9	<b>Certification (Mandatory)</b>	
	Safety	EN 62040-1 certificate to be produced
	EMC/EMI	EN 62040-2 certificate to be produced
	Performance	IEC 62040-3 certificate to be produced
		CE Certification, ISO 9001, ISO 14001 certificate to be produced
		BS OHSAS 18001 certificate to be produced
		BIS certificate to be produced for 5kVA Online UPS
10	Preferable Make	APC/Emerson/Numeric