

## File No.RA1-2/1/2020-KPSC



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### KERALA PUBLIC SERVICE COMMISSION

No.RA1-2/50020/2018-KPSC

Thiruvananthapuram,  
Dated : 14.12.2022

#### E- TENDER NOTICE

Inviting E-Tender for the supply and installation of 40 KVA UPS for the office use of the **District Office of Kottayam** of Kerala Public Service Commission.

E-Tender in one cover system is invited from competent dealers and manufactures for the supply and installation of **40 KVA UPS** in accordance with respective specifications as shown in Annexure I of the Tender document.

Sl.No.	Item	Qty(Nos)	Cost of Tender (Forms) Rs	EMD fixed (Rs)
1	40 KVA UPS	1(One)	2,500/-	Rs.35,000/-

Tenders shall be submitted as e-tender through <https://etenders.kerala.gov.in>. Bidders who have enrolled in the above portal with their own Digital Signature Certificate (DSC) can participate in the tender. For obtaining Digital Signature Certificate (DSC) and necessary portal enrollment bidders can visit the above website. E-Tender document and other details can be obtained from the above e-portal.

Tender no. : 22 /2022/SN

Document download/sale start date : 16/12/2022

Bid submission start date : 16/12/2022

Document closing date : 29 /12/2022 - 5.00 pm

Date & Time of opening of tender : 31/12/2022 - 2.30 pm

Cost of e-Tender & EMD (Online payment):- Payment as shown in the above table including EMD should be made as a single payment through online. Dates up to which rates are to remain- firm for acceptance : 90 days

Performance security : 5% of the contract value

Period of supply: **within 15 days of supply Order.**

The bidder desiring to take part in the bid shall log in to <https://etenders.kerala.gov.in/> and then select tender and initiate payment. Bidders will be directed to the online payment gateway page and they shall make payment as directed therein.

**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 authorized representatives who have logged in at the prescribed time of opening.

If the date fixed for opening happens to be 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 will be received only through online payment methods stipulated in the website.

**Scanned copy of the agreement (Annexure II) in the prescribed format in Kerala Stamp paper worth Rs .200/- shall be submitted online and original shall be given to the Secretary, Kerala Public Service Commission before 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/I/162812/2022>

The Secretary, Kerala Public Service Commission, Pattom will scrutinise 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 thereof is reserved with the Secretary, K.P.S.C.

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 UPS shall be clearly mentioned.
2. Three (3) years Comprehensive Onsite OEM warranty for UPS and three years replacement warranty for battery should be assured. Dealership/Authorization and Warranty Certificates from OEM shall be submitted with the tender. Dealership warranty will not be accepted.
3. All charges, taxes, duties and levies should be clearly indicated.
4. The items should be supplied to the District Office of the Kerala public Service Commission, Kottayam at the expense of the Tenderer.
5. The Product should be supplied within 15 days from the date of Purchase Order, otherwise the tender will be cancelled without any prior intimation.
6. The installation, commission and initial operation to the satisfaction of the KPSC will be the responsibility of the supplier.
7. The payment will be made after completion of supply, installation and commission subject to the certification by our Technical Experts as to the quality and efficiency of the item supplied.
8. In case of under performance during the warranty period, the item should be replaced and period of warranty will recommence from the date of replacement.
9. The Performance Security Deposit will be released after the expiry of Warranty Period.

Any legal disputes that may arise in relation to the e-tender formalities will be restricted to jurisdiction of Thiruvananthapuram District.

The communications should be addressed to :

The Secretary,  
Kerala Public Service Commission  
Pattom, Thiruvananthapuram  
Kerala-695004

SD/-

**SAJU GEORGE**  
**SECRETARY**  
**KERALA PUBLIC SERVICE COMMISSION**

Note:- More details can be had from the office of Joint Secretary, R&A wing, Kerala Public Service Commission.

### **Specification for 40 kVA UPS**

<b>Sl. No.</b>	<b>Description</b>	
	<b>Parameter</b>	<b>Minimum Specifications</b>
	<b>Modular UPS - Functional &amp; Technical Specifications</b>	
1	UPS	Modular Type, Online Double conversion, VFI-SS-111
2	Capacity	System should be configured with 20kVA load + Redundancy (ie. 40kVA with redundancy & expandable up to 60 kVA ) Module should be 5kVA or above not higher than 15KVA
3	UPS Modules	The number of UPS modules in a system (in a Single Cabinet) shall be N+1, where N is the number of basic UPS units as per the load requirement and 1 is redundant unit. UPS system should have multiple controllers, any module failure should not affect the working of remaining modules on failure, pluggable type, hot swappable & Vertical & Horizontal paralleling of power modules should be possible
4	UPS Modules Technology	Each Module shall consist of a rectifier / charger, an inverter, static transfer switch, maintenance bypass switch, protective devices, and accessories as required for proper operation
5	UPS Module Replacement	In case of any failure of UPS module, the defective UPS Module should be replaced Online without any disturbance to the load (i.e UPS system / load should not be transferred to Bypass or UPS should not be shut down, for such UPS module replacements)
6	Rated input voltage	380/400/415VAC, three-phase four-wire
7	Rated input operating frequency	50/60Hz

8	Input frequency range	45Hz - 60Hz
9	Input power factor	> 0.98
10	Input Current Harmonics	< 3%
11	Inverter output voltage	400/415VAC, three-phase four-wire
12	Output load management	Independent Phase management of load power should be possible
13	Output power factor	0.95 or above
14	Steady state response time	< 20ms
15	Inverter overload capacity	10 minutes at 115%, 60 seconds at 135%
16	Battery bank	Suitable size and nos. of VRLA, SMF batteries in suitable numbers and ampere hour capacity required for specified rated UPS System for providing 60minutes back up time at specified full load(for 24kW load) using minimum 100AH or above batteries
17	Battery Make	Panasonic/Exide/Amararaja Quanta
18	Battery back up	60 minutes for the specified load (for 24kW load). Battery connectivity should ensure Redundancy for Batteries to avoid single point failure (i.e Minimum 2 strings for each Battery Bank)  Minimum battery VAH should be $\geq$ 48000VAH (ie; 2x24000VAH)
19	Output frequency	50Hz
20	Slew rate	0.6 HZ / sec
21	Alarm indications	Mains Voltage Abnormal ,Mains Frequency Abnormal, Mains Phase Reversed, Bypass mode, Bypass Over Current, Battery Low warning, Unit Overload ,System Overload
22	Bypass input voltage	380/400/415VAC, three-phase four-wire
23	Bypass overload capacity	10 minutes at 115%, 60 seconds at 130%
24	Monitoring function	Main circuit and ON/OFF status, voltage, current, power factor, Load level
25	Communication Option	SNMP communication card which can connect to an Ethernet network, for connection to a computer network management system. Necessary SNMP card should be supplied
26	System efficiency	> 95% at all load
27	Operating temperature range for UPS	0 - 40oC
28	Storage temperature	0 - 60oC (excluding battery)
29	Relative humidity	0 - 95%, no condensing
30	Noise (1m)	< 65
31	IP class	IP21

32	Input Surge Protection	Transient Voltage Surge Suppressor (TVSS) should be provided
33	UPS Manufacturer	Should be with following certificates
		ISO: As per ISO 9001: 2008
		EMS: As per ISO 14001: 2004
		OSHAS: As per ISO 18001: 2007
34	Product Safety Certifications	EN 62040-1,EN 62040-2,EN 62040-3
35	PEP Certificate	Should be Provided for the Offered Model
36	Preferred Brands	VERTIV/EMERSON/NUMERIC/LEGRAND/APC/GE/ABB or equivalent
37	SMF Battery	The battery to be supplied should be 12V, VRLA SMF battery
		The battery should having ISO 9001:2008 & ISO 14001: 2004 Certified for quality & environment
		In addition the battery should have any of the two following certifications:
		a) JIS b) UL 198E c) CE mark d) QS 9000-8230
38	Preferred Battery Brands	Quanta/Exide/Panasonic
39	External Isolation Transformer	Required @40kVA from UPS OEM
40	Service Centre	To ensure the spare and service availability,UPS OEM should have service centre in Kottayam. OEM need to give undertaking in this regard along with Bid
41	Warranty for UPS Warranty for Battery	Three year OEM onsite warranty Three year replacement warranty