

**GOVERNMENT ENGINEERING COLLEGE, THRISSUR
NOTICE INVITING e-TENDER**

D1/8314/22/GECTCR

26.10.2022

Tender No. : D1/53/22-23

Superscription : Purchase of 20 KVA, 10 KVA Online
UPS under Buy Back Scheme for CCF and
Computer Science Engineering Department

Bidding fee : Rs. 708/-(600+18%GST)
EMD required : Rs. 2860/-
Address of the Officer to whom hardcopy is to be sent. : THE PRINCIPAL, GOVERNMENT
ENGINEERING COLLEGE,
THRISSUR-680009

Item Details

Sl. No	Item With Specification	Qty
1	20 KVA Online UPS, 3 Phase, 360VDC (Detail Specification Attached)	1No
2	10 KVA Online UPS (Detail Specification Attached)	2 Nos
3	Buy Back TECHSER Made 20 KVA Online UPS, IGBT, 360 VDC 3 Phase IN Single Phase OUT	1 No
4	Buy Back TECHSER Made 10 KVA Online UPS, Voltage 220/230 V AC	2 Nos

General conditions

1. The unit price, all other charges such as delivery, transporting, packing, shipping, loading and unloading charges etc, and GST must be shown separately and should be furnished unambiguously.
2. Payment will be made only after the successful supply, installation and testing.
3. F.O.R: Govt. Engineering College, Thrissur.
4. Agreement: Preliminary Agreement in Rs.220/- Kerala Stamp Paper.
5. Date of opening of tender: In case the proposed date declared as holiday, the tender will be opened on the next working day.
6. After E-tendering the hard copy of all documents should be submitted before the date of opening of the tender to the Principal, Government Engineering College, Thrissur.
7. Items to be supplied at Production Engineering Department of Govt. Engineering College, Thrissur.
8. The items should have a minimum guarantee period of one year from the date of installation and successful performance.
9. Installation, successful demonstration and training required.
10. Delivery Period: Within Two Months of receipt of supply order.
11. 5% security deposit along with agreement should be furnished within a

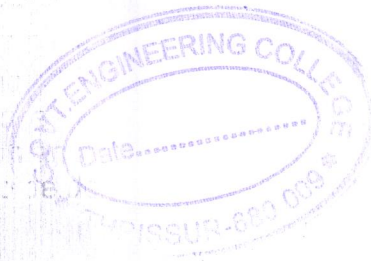
P.T.O

- month/fortnight from the date of receipt of supply order.
12. Only GST Registered firms should participate in the tender.
 13. Bidder shall be responsible for installation / demonstration as applicable and for after sales service during the warranty and thereafter.
 14. Installation and demonstration to be arranged by the supplier free of cost and the same is to be done within 15 days of the arrival of the equipment at site.

NB: The Tender procedure will be made as per Rules mentioned in the Revised Store Purchase Manual. The bidders should participate this tender through E-Tendering System. Tender cost and EMD should be submitted only through online. For more details Contact Ph.0487 2334144.

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THRISSUR



NB: The Tender procedure will be made as per Rules mentioned in the Revised Store Purchase Manual. The bidders should participate this tender through E-Tendering System. Tender cost and EMD should be submitted only through online. For more details Contact Ph.0487 2334144.

TECHNICAL SPECIFICATION

1. 20 KVA Online UPS, 3 Phase, 360VDC – 1 No

TECHNICAL SPECIFICATIONS FOR 20 KVA ONLINE UPS	
Capacity	20 KVA
Technology	High frequency switching double conversion
Inverter Technology	PWM technology with IGBTs with built In galvanic isolation
Noise Level	Less than 50 dB
Operating Temperature	0-45 degree centigrade
Humidity	0 - 95% non-condensing
Total DC bus voltage	360 VDC
Battery recharge time (After Complete discharge) to 100% charge	8 Hours
Crest Factor	Minimum 3:1 at full load
Out put Wave Form	Pure Sine wave
Cold Start feature	Required
INPUT	
Input	Three phase 4 wire
Input Voltage Range	415VAC+ Neutral +earth
Input Frequency Range	46-54Hz
Line low/High Cutoff	330 VAC to 478 VAC
OUTPUT	
Output Voltage	220/230 VAC programmable 1 phase+N
Output Frequency	50hz +/- 0.5%(Free running)
Harmonic Distortion	<2% (linear load) <5% (non-linear load)
EFFICIENCY	
AC to AC	93%
DC to AC	94%
MANUAL BYPASS	
LOAD POWERFACTOR	REQUIRED
OVERLOAD CAPACITY	0.8 lag
UPS SHUT DOWN	125 % for 10 mts
Input	UPS shut down with alarm
Input Voltage Range	and Indication in case of
Input Frequency Range	Out put over voltage
Line low/High Cutoff	Output undervoltage
OUTPUT	Battery Low
Output Voltage	Inverter over load
Output Frequency	over temperature
Harmonic Distortion	Output short
ISOLATION	
Isolation of power AC to AC	Both input & Output have MCB's. Also battery connection have MCB/MCCB/ switch
Isolation Transformer	At input
Galvanic Isolation	Required
PROTECTION	
Short Circuit Protection	MCB / MCCB Trips and UPS shut down with out
UPS SHUT DOWN	
Input	
Input Voltage Range	
Input Frequency Range	
Line low/High Cutoff	

	blowing any fuses
Input over and under voltage	MCB with alarm. UPS safe in the case of high 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	
	Input/Output Voltage
	Out put frequency
	Load current
	Battery voltage
DEGREE OF PROTECTION	IP 20
COMMUNICATION INTERFACE	RS 232 port
AUDIBLE ALARM	
	Battery low
	Mains failure
	Out put over current
	Overload
WARRANTY	3 YEAR WARRANTY FOR UPS
QUALITY STANDARDS	ISO 9001:2015,ISO 14001:2015,ISO 45001:2018

2. 10 KVA Online UPS – 2 Nos

TECHNICAL SPECIFICATIONS FOR 10 KVA ONLINE UPS	
Capacity	10 KVA
Technology	High frequency switching double conversion
Inverter Technology	PWM technology with IGBTs with built In galvanic isolation
Noise Level	Less than 50 dB
Operating Temperature	0-45 degree centigrade
Humidity	0 - 95% non-condensing
Total DC bus voltage	192 VDC
Battery recharge time (After Complete discharge) to 100% charge	8 Hours
Crest Factor	Minimum 3:1 at full load
Out put Wave Form	Pure Sine wave
Cold Start feature	Required
INPUT	

Capacity
Technology
Inverter
Noise Level
Operating
Humidity

Input	Three phase 4 wire
Input Voltage Range	415VAC+ Neutral +earth
Input Frequency Range	46-54Hz
Line low/Hight Cutoff	330 VAC to 478 VAC
Power Factor	>0.9
OUTPUT	
Output Voltage	220/230 VAC programmable 1 phase+N
Output Frequency	50hz +/- 0.5% (Free running)
Harmonic Distortion	≤2% (linear load) <5% (non-linear load)
EFFICIENCY	
AC to AC	93%
DC to AC	94%
STATIC SWITCH (Bi-directional) for all ratings	Should take care of 100% load transfer without break
LOAD POWERFACTOR	0.8 lag
OVERLOAD CAPACITY	125 % for 10 mts
UPS SHUT DOWN	
Line low	UPS shut down with alarm
Power Factor	and Indication in case of
Output voltage	Out put over voltage
Output frequency	Output undervoltage
Harmonic Distortion	Battery Low
	Inverter over load
	over temperature
	Output short
ISOLATION	
Isolation of power DC to AC	Both input & Output have MCB's. 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 with out blowing any fuses
Input over and under voltage	MCB with alarm. UPS safe in the case of hight 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	
Isolation of power	Mains on
Isolation Transformer	Inverter On
Galvanic Isolation	Mains high
Manual Service Bypass	mains low
Short Circuit Protection	Inverter over voltage
Input over and under voltage	Inverter under voltage
Output over & under voltage	Battery Low
	Battery Over charge

	Inverter overload/Current
	Over temperature
LCD DISPLAY	
	Input/Output voltage
	Out put frequency
	Load current
	Battery voltage
DEGREE OF PROTECTION	IP 20
COMMUNICATION INTERFACE	RS 232 port for auto shut down,
AUDIBLE ALARM	
WARRANTY	Battery low Mains failure Out put over current Overload 3 YEAR WARRANTY FOR UPS
QUALITY STANDARDS	
UPS	BIS CERTIFIED ISO 9001:2015,ISO 14001:2015,ISO 45001:2018

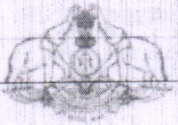
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<u>Buy Back</u> <u>TECHSER Made 20 KVA Online UPS, IGBT, 360 VDC</u> <u>3 Phase IN Single Phase OUT</u>	1 No
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WARRANTY

<u>Buy Back</u> <u>TECHSER Made 10 KVA Online UPS, Voltage 220/230 V AC</u>	2 Nos
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TECHSER
3 Phase

Kerala Tenders		eTendering System Government of Kerala		Tender Details		Date : 29-Oct-2022 11:43 AM	
						Print	
Basic Details							
Organisation Chain	Directorate of Technical Education Govt. Engineering College Thrissur						
Tender Reference Number	D1/8314/22/GECTCR						
Tender ID	2022_DTE_522103_1						
Tender Type	Open Tender	Form of contract	Item Wise				
Tender Category	Goods	No. of Covers	2				
General Technical Evaluation Allowed	No	ItemWise Technical Evaluation Allowed	No				
Payment Mode	Online	Is Multi Currency Allowed For BOQ	No				
Is Multi Currency Allowed For Fee	No	Allow Two Stage Bidding	No				
Payment Instruments				Cover Details, No. Of Covers - 2			
Online Bankers	S.No	Bank Name	Cover No	Cover	Document Type	Description	
	1	SBI MOPS	1	Fee/PreQual /Technical	.pdf	Scanned copy of Duly Filled and Signed preliminary agreement of Rs. 220/- Kerala stamp paper	
					.pdf	Scanned copy of duly signed and filled tender form	
					.pdf	EMD Exemption certificate if any	
					.pdf	Detailed Product brochure	
					.pdf	Detailed specification of the item	
					.pdf	Manufacturers authorisation Certificate if any	
					.pdf	GST certificate	
			2	Finance	.xls	PRICE BID	
Tender Fee Details, [Total Fee in ₹ * - 708]				EMD Fee Details			
Tender Fee in ₹	708	Fee Payable To	Nil	Fee Payable At	Nil	EMD Amount in ₹	2,860
						EMD through BG/ST or EMD Exemption Allowed	Yes

Tender Fee Exemption Allowed	Yes	EMD Fee Type	percentage	EMD Percentage	1.0%
		EMD Payable To	Nil	EMD Payable At	Nil

[Click to view modification history](#)

Work / Item(s)

Title	Supply of UPS				
Work Description	Supply of UPS				
Pre Qualification Details	Please refer Tender documents.				
Independent External Monitor/Remarks	NA				
Show Tender Value in Public Domain	Yes				
Tender Value in ₹	2,86,000	Product Category	Equipments	Sub category	UPS
Contract Type	Tender	Bid Validity(Days)	180	Period Of Work(Days)	60
Location	GOVT ENGINEERING COLLEGE THRISSUR	Pincode	680009	Pre Bid Meeting Place	NA
Pre Bid Meeting Address	NA	Pre Bid Meeting Date	NA	Bid Opening Place	GOVT ENGINEERING COLLEGE THRISSUR
Should Allow NDA Tender	No	Allow Preferential Bidder	No		

Critical Dates

Publish Date	29-Oct-2022 12:00 PM	Bid Opening Date	23-Nov-2022 11:00 AM
Document Download / Sale Start Date	29-Oct-2022 12:00 PM	Document Download / Sale End Date	21-Nov-2022 02:00 PM
Clarification Start Date	NA	Clarification End Date	NA
Bid Submission Start Date	29-Oct-2022 01:00 PM	Bid Submission End Date	21-Nov-2022 02:00 PM

Tender Documents

NIT Document	S.No	Document Name	Description	Document Size (in KB)
	1	Tendernotice_1.pdf	Tender Notice	164.23

Work Item Documents	S.No	Document Type	Document Name	Description	Document Size (in KB)
	1	Tender Documents	Tenderagreement.pdf	Preliminary Agreement	67.61
	2	Tender Documents	tenderform.pdf	Tender Form	2391.54
	3	Tender Documents	SPECIFICATION...pdf	Specification	139.23
	4	BOQ	BOQ_750709.xls	Price BID	289.50

Bid Openers List

S.No	Bid Opener Login Id	Bid Opener Name	Certificate Name
1.	kgjestin@gmail.com	JESTIN K G	JESTIN K G
2.	ursdhanya@gmail.com	DHANYA V S	DHANYA V S
3.	leethajoseph@gmail.com	LEETHA JOSEPH	LEETHA JOSEPH

Tender Properties

Auto Tendering Process allowed	No	Show Technical bid status	Yes
Show Finance bid status	Yes	Show Bids Details	Yes
BoQ Comparative Chart model	Normal	BoQ Compartive chart decimal places	3
BoQ Comparative Chart Rank Type	L	Form Based BoQ	No

Tender Inviting Authority

Name	Principal
Address	GOVT ENGINEERING COLLEGE THRISSUR-680009

Tender Creator Details

Created By	LEETHA JOSEPH
Designation	Junior Superintendent
Created Date	29-Oct-2022 11:18 AM

BoQ Comparative Chart model
BoQ Comparative Chart Rank Type

Tender Inviting Authority
Name
Address

Tender Creator
Created By
Designation
Created Date