

**Design Innovation Centre
Panjab University, Chandigarh
(Phone No 0172-2532995)**

No.

Dated:

1025-B/DIC/UIET

Notice for Inviting Quotations for UPS 20 KVA Qty: One

02/04/25

Kindly send your quotation in sealed cover with respect to the following items and the date duly subscribed on the cover for the purchase of following item subject to the Terms and Conditions given on the backside.


LAST DATE OF SUBMISSION OF QUOTATION IS 16.05.2025 (Friday)

Note: 1. Kindly send the bid into two parts indicating Technical and Financial Bid. The **Technical bid** and the **Financial Bid** should be sealed by the bidder in **separate covers** duly super scribed and both these sealed covers are to be put in bigger cover which should also be sealed and duly super scribed.

The Quotation should be submitted along with Earnest Money @ 2% of the estimated quoted price in the shape of Draft/Term Deposit/ Call Deposit Receipt valid for a minimum period of 3 months in favor of the **Director, UIET, PU, Chandigarh**.

Note: a) Kindly put **Earnest Money** in **separate envelope (cover)** other than Technical and Financial Bid covers.

b) Vendor must visit the site **CSE Branch Sector 25 UIET Panjab University Chandigarh** before submitting the quotation.


Principal Investigator,
DIC Project

Dr. Naveen Aggarwal
Principal Investigator
Design Innovation Centre
UIET, Panjab University
Chandigarh

A) Specification Enclosed

Specifciation of 20 KVA

Parameters	Specifications	20kVA Rackmountable with Rail Kit & SNMP Card
	Rating	20KVA/20kw (3in-1out) & 3in -3 out
	Technology	IGBT based Double conversion PWM based online UPS
System parameter	Parallel Capability	4nos UPS can be Parrallel (N+1)
	Installation mode	Rack Mountable with suitable rail kit.
Input	Rated voltage	400VAC 3-phase,4-wire
	Volatge Range	Three phase 175VAC -498VAC
	Rated Frequency	50Hz/60Hz
	Frequency Range	40Hz ~ 70Hz
	Power factor	0.95 for Three Phase
OUTPUT	Rated power	20KVA/20kw
	Voltage	Three phase 415VAC/ 230vac Single phase
	Frequency synchronization range	Rated frequency \pm 3Hz. Configurable range: \pm 0.5Hz ~ \pm 5Hz
	Power Factor	Unity
	Crest Factor	3:1'
	Voltage harmonic distortion	< 2% (linear load)
	Voltage Regulation	1%
	Dynamic response recovery time	60ms
	Inverter Overload Capability on utility mode	At 25°C: 105% ~ 125%- 10min; 125% ~ 150%- 1min; 150%- more than 200ms
	Programmable Outlet	Avaiable
	Inverter Overload Capability on battery mode	At 25°C :105% ~125%-60~ 30 s; >125%- more than 200ms
Bypass	Seprate bypass	Should be available
	Static bypass	Inbuilt
Efficiency	ECO Mode	96%
	Online mode (AC-AC)	> 96%
Battery	Type	Should be compatible with SMF VRLA,Tubular & LI-ION
	Number of batteries	32-40 Adjustable in even blocks

	Battery charging capacity	13A inbuilt charger
Transfer Time	Mains - Battery	0ms
	Inverter-Bypass	Synchronous transfer: ≤0ms
		Asynchronous transfer (default): ≤20ms
Noise		<65db
Panel display mode	Display type	Graphical LCD display
	Number of events stored	Minimum 250
	Orientation	Gravity sense
Environmental parameter	Operating temperature	0°C ~ 50°C
	Storage temperature	-40°C ~ +70°C (battery excluded); -25°C ~ +55°C (battery included)
	Relative humidity	5%RH ~ 95%RH, non-condensing
	Altitude	≤3000m; derating when higher than 3000m
Mechanical parameter	W*D*H (mm)	430x570x130
	Weight (Kg)	23
	Ventilation	Forced -air cooled
	Ingress protection level	IP20
	Color	Powder coated Black Texture finish
	Cable entry	Rear
Network Management	Smart RS232/USB	Supports Windows 2000/2003/XP/Vista/2008, Windows
	SNMP	Should be Inbuilt for web monitoring
	MODBUS	Should be Inbuilt for BMS connectivity
	Management software	Should be provided by OEM
	Dry contacts	Inbuilt
	Modbus	Inbuilt via multifunction port
	Safety (CE)	IEC/EN62040-1-1
	Electromagnetic Compatibility(EMC)	IEC/EN62040-2, IEC/EN61000-3-11, IEC/EN61000-3-12
	Surge Protection	IEC/EN62040-2, meeting IEC/EN61000-4-5
	ROHS	Yes

Certifications	Top 5 company in terms of revenue	Yes
	Quality standard	IS 9001-2015
	Environment standard	ISO 14001
	OSHAS	ISO 45001
	IT security management	ISO 27001
Test report	NABL Approved Govt. lab test report	Should be provided by OEM
Warranty	One Year Onsite	
Not: Installation will done by supplier inside 42U Server Rack with 800 *1000 mm depth		