



**THIRUVANANTHAPURAM REGIONAL COOPERATIVE
MILK PRODUCERS' UNION LTD.
(TRCMPU Ltd.)**

**KSHEERA BHAVAN, PATTOM,
THIRUVANANTHAPURAM – 695 004**

BID REF. NO. TRU: MIS: 48/2025-26

**TENDER FOR SUPPLY OF 5 KVA UPS
AT TRCMPU HEAD OFFICE
2025-26**



Ksheera Bhavan, Pattom, Thiruvananthapuram – 695004

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TRU: MIS: 48/2025-26

27-05-2025

NOTICE INVITING E-TENDER

The Managing Director, Thiruvananthapuram Regional Co-operative Milk Producers Union Ltd (TRCMPU Ltd) invites sealed tender for the supply of 5 KVA UPS as per the listed technical specifications and Price schedule at TRCMPU Head Office, subject to the features, terms and conditions as given below.

1	Tender No. & Date	TRU: MIS:48/2025-26 Dated, 27-05-2025
2	Item of Supply	Supply of 5 KVA UPS
3	Specification	Annexure I
4	Quantity Required	1 No
5	Date of Publication of tender.	27-05-2025
6	Last Date of Submission of tender	09-06-2025, 05.00 PM
7	Date and time of opening	10-06-2025, 03.00 PM
8	Tender submission and place of opening	TRCMPU Ltd., Ksheera Bhavan, Pattom Thiruvananthapuram-695004.
9	Bid Validity	30 Days
10	Warranty	3 Years
11	Delivery time	Within 15 days from the date of Confirmed Work order.

**-Sd/-
MANAGING DIRECTOR**

Encl. 1. Price Schedule
2. General Terms & Conditions
3. Technical Specification

Price Schedule

**The supply of 5 KVA UPS
at TRCMPU Head Office**

Sl.No.	Item	Nos	Rate	Total
1.	5 KVA Online UPS	1 No		
	GST			
	Other Charges			
	Grand Total			

We Submit our offer for
Supply of UPS at TRCMPU Head Office as per Tender No. TRU: MIS:48/2025-26
Dated, 27-05-2025 in complete accordance with tender documents.

Authorized Signatory

Date:

Office seal

Terms and Conditions

1. **Tender Submission.** The offer should be submitted through sealed tenders with superscription “Tender – Supply of UPS” on top of the envelope. The offer should be addressed, The Managing Director, TRCMPU Ltd, Ksheera Bhavan, Pattom PO, Thiruvananthapuram-695 004
2. **Price Basis.** The unit rate should include the cost of materials, transportation, labour charges, other incidental expenses, taxes and duties, etc. for supply of product in all respects and nothing will be paid extra on this account.
3. **Validity.** The offer should remain valid for acceptance for a period of 1 month from the date of the offer.
4. **Delivery period.** The above supply should be completed in all respects within 10 days of the date of receipt of the purchase order.
5. **Warranty.** You shall give warranty for the performance of the UPS for a period of 3 years from the date of supply. The entire expenditure towards replacement/repair in this regard shall be borne by you.
6. You shall deliver the items with the specification mentioned above only.
7. You shall attend all calls against complaints and rectify the complaints within 24 hours.
8. **GENERAL.**
 - The TRCMPU does not bind itself to accept the lowest offer and reserves the right to accept any offer/offers in part or full without assigning any reason.
 - The TRCMPU reserves the right to negotiate with bidder / bidders and the right to reject any or all the offers without giving any reason.
 - The bidder shall have to pay liquidated damages @) 0.5% (Half percentage) of the work order value per week, for the delay in completion of the work subject to the maximum of 5 % of the work order value.
9. **Delivery and Billing Address:**

The Managing Director ,
TRCMPU Ltd., KsheeraBhavan, Pattom
Thiruvananthapuram-695004.

-Sd/-

Managing Director

Technical Specification (Required) for 5kva

UPS Specifications	Units	Description	Specification on Offered by the bidder
General characteristics			Yes/No only)
Nominal Power (kVA)		5kVA	
Active Power (kW)		4kW	
Technology		Digital PWM IGBT Double Conversion Online VFI-SS-111 (Performance Comply to IEC 62040-3)	
Waveform		Sinusoidal	
Architecture		Tower Type	
Control Module		Digital signal Processor based Control Module	
Input characteristics			
Input Voltage	Vac	220VAC/230VAC/240VAC	
Input frequency	Hz	50Hz +/- 10%	
Operating Voltage Range	Vac	176 to 300VAC for 100% load and 110V-300V AC for 50% load	
Current Harmonic Distortion (THDi)		< 15% at full linear load and normal voltage	
Input power factor		≥ 0.99 for 100% load and nominal input voltage	
Input connection(M1)		Terminal block	
Output characteristics			
Output voltage	Vac	220VAC/230VAC/240VAC +/- 1%	
Output frequency (nominal)		50 / 60 Hz ± 0.1 Hz	
Voltage Harmonic Distortion (THDv)		< 5% for Non-Linear Load	
Output voltage tolerance		+/-1% Balanced Load, +/-2% Unbalanced Load	
Crest Factor		3:1	
Output PF Range		≥ 0.8	
Bypass Supply		Built in Bypass facility acting with < 4ms Break time	
Overall Efficiency		≥ 94%	
Additional features			
Cold start (DC start)		Yes	
Power Walk in Time		Standard upto 10Sec	
Manual Bypass		Yes with MCB, Make before break arrangement	
Frequency converter mode		YES	
Batteries (Shall be supplied by			

TRCMPU)			
Number of batteries		10 Nos 40 AH	
Communication and management			
Screen Panel Management		combination of LED indicators and LCD display	
		Input Parameter: R-Y-B Phase Reading Voltage & Current /Frequency	
		Bypass Parameter: Bypass Voltage & Freq	
		Battery Parameter: Battery Vdc/Battery Charge & Recharge Current/ Battery Run time	
		Output Parameter: Output Voltage/Current/Output Load % /Output W/ VA /Output PF	
		UPS alarm & Events Screen	
		Settings menu to do all possible Settings	
		Event Log : 1000 Events with Date & time on FIFO Principle	
		UPS Operation Indication with LED	
Audible Alarm		Battery mode,low battery,Overload, normal alarm,fault	
Communication port		1 X RS232, 1 X RS485(Modbus) , SNMP Slot	
Remote control		Yes thorough SNMP on Netowrk connectivity	
Dry contact		With optional Relay card	
Protection			
Short Circuit		Fuse & Electronic protection for Input ,Output, & Battery	
Battery		Standard Battery Management function , Optional Battery compentation with External batt temperature sensor & Battery breaker at External Bank	
EPO		Remote EPO Contact	
Over temperature		Normal Mode :Transfer to Bypass Mode	
		Battery Mode : UPS shuts down immediately.	
Self-Diagnostic			
		Upon Power on, front panel setting,software control,	
Environmental conditions			

Operating temperature		0 °C to + 50 °C	
Degree of protection		IP20	
Relative humidity(%)		0-95%(non condensing)	
Noise level at 1m (dbA)		< 55 dbA	
Standard and certifications			
Safety		IEC 62040-1 & IS 16242:2014	
EMC		IEC 62040-2	
Performance & Testing		IEC 62040-3	
Battery type		12V SMF VRLA	
Envionmental Certification		PEP/	
Battery Make for SMF		Exide/Quanta	
Backup		Minimum backup 30 minutes 6kVA @ 0.8pf load and VAH required Min 6240 VAH	
UPS and SMF Battery warranty		2years and Both (UPS& SMF battery)	
Service Centre		OEM Has to Certified the Service Centre Details.	
Approved make for UPS:		Numeric/Legrand /APC/Vertiv /POM Power	