

KERALA CO-OPERATIVE MILK MARKETING FEDERATION LTD. CENTRAL PRODUCTS DAIRY, PUNNAPRA P.O, ALAPPUZHA – 688 004. Tel: 0477-2255900, 2255999,2255921, E-mail: cpd@milma.com GST:32AAAAK5375M4ZD

No.CPD/Engg/180/2020-21

20.11.2020

Office copy

Sir,

Sub: Enquiry for Online UPS without batteries for pouch filling machine.

Competitive offers are invited for the supply and installation of 50 kVA UPS at our dairy. Interest parties can visit our dairy for verifying the location of UPS installation and to submit their offer.

Technical Specifications

Design requirement and Scope of supply SI. no. DESCRIPTION SPECIFICATIONS **50 KVA** 1. CAPACITY Inverter & Rectifier IGBT 2. INPUT 415 V AC, Three Phase, 50 Hz **INPUT VOLTAGE** Input Voltage Range 300 V AC to 450 V AC Input Frequency Range 45 to 55 Hz Input Over Voltage Protection 450V AC 280 V AC Input Under Voltage Protection Should be offered externally Over Voltage cut off Suitable filter to be provided Input harmonic management OUTPUT 3. 415 V AC Three phase ±1% OUTPUT VOLTAGE 50 Hz ± 1% Frequency Power factor 0.8 Lag to Unity Output load be isolated through a Isolation transformer with same rating 245 V AC Single Phase **Output Over Voltage Protection** 210V AC Single Phase Output Under Voltage Protection 125% of rated load for 60 sec Over load capacity Less than 3% Total Harmonic Distortion Short circuit protection Soft Shut down should occur without blowing any fuse Crest Factor 3:1 Pure sine wave Wave form ISOLATION 4. Should be provided Manual Bypass switch INDICATIONS 5. Over Temperature Required Required Load on Battery Required Battery on Charge Battery low Required Required Mains on DC on Required

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	Inverter on	Required
	Inverter Tripped	
	1. Output Over Voltage	Required
	2. Output Low	Required
	3. Over Load	Required
6	EFFICIENCY	
	Overall Efficiency	>90%
	Inverter Efficiency	>90%
7	METERING	Separate/Single Digital Meter
	DC Voltage	Required
+	DC Current Charge/discharge	Required
	Output Voltage	Required
	Output Current	Required
	Input Voltage	Required
	Digital three/three & half freq. Meter (for	Required
	Both input & output)	
9.	Audible Alarm for Following Conditions	
	Battery Low	Required
	Mains Failure	Required
	Inverter Under-voltage	Required
	Inverter Over Voltage	Required
	Over Temperature	Required
	Inverter Overload	Required
10.	Environmental	
	Operating Temperature	<45 Deg C
	Humidity	10-90 % (non-condensing)
	Noise Level	< 50 dB at full Load from 1 mtr distance
11	Cabinet	CRCA sheet with powder coated finish.
12	Scope of installation	Connect the new UPS to the existing
	1	batteries and take trial run with
		connected loads.

Terms and Conditions

- **Price Basis:** The price should be inclusive of all taxes, levies including packing and forwarding, freight, transit risk insurance etc. but excluding unloading charges.
- **Payment:** 90% Payment will be released after the successful commissioning of the UPS against Guarantee Certificate and balance after warranty period.
- **Warranty:** The item shall be free from manufacturing defect and shall be warranted for a minimum period of 2 years from the date of commissioning.
- AMC: You should submit the offer for AMC for a period of 3 years after completion of warranty period
- ' Delivery: Within 20 days from the receipt of the order.
- The offer should be sent in sealed cover superscribed' QTN FOR UPS' due on 09.12.2020.
- The sealed quotations shall reach our office on or before 2 P.M on 09.12.2020 and will be opened at 2.30 P.M on the same day.

Yours Sincerely, MANAGER

