

Sr	Description	Specification
1	UPS Type	True online, with full digital signal processing using DSP technologies, Software compatible, double conversion with LCD panel & data logging of 200 events. Pure sine wave O/P with high frequency switching, complete isolation from the mains through inbuilt isolation. Transformer protecting the M/C from electrical noise spikes & voltage surges, with reverse phase sequence operation, with unity power factor in input, provide parallel kit, along with 30 minutes battery back up on full load. The UPS and batteries must be supplied with a powder coated cabinet along with four fans and cabinet. Must be equipped with wheels to move the entire assembly. TVSS 50 Ka
2	Can be Installed in parallel redundant mode	Provision to run parallel 4 units in redundancy without any additional internal cards
3	Technology	IGBT based with high frequency PWM, with LCD panel. With temp. compensated battery charging
4	Inverter	Must be IGBT based
5	Capacity	2x 10 KVA
6	Input Ratings	
	Voltage	311 VAC - 475 VAC (Three phase)
	Phase correction	Automatic
	Frequency Variation	50 Hz +/- 10%
	Power Factor	Unity
	Current Harmonic Distortion	< 5%
7	Output Ratings	
	Frequency	50 Hz +/- 10%
	Voltage	220/230/240 VAC (User Selectable)
	Voltage Regulation	+/- 1%
	Current at 230 Volts	43 AMPS
	Frequency tolerance	+/- 1% (Sync) ' +/- 1% (unsync)
	Power Factor	0.8 (8KW)
8	D.C. Characteristics	

	Float Voltage	356 Volts
	S. M. F. batteries	2 battery banks of 42 AH/12Vx26 no.s. For each UPS or 26208 VAH (ie 13104 VAH of one bank* 2 no.s
	Volt limit for INV operation	260-410 VDC
	D.C. ripple	< 2%
	D.C Voltage regulation	+/- 1%
9	Efficiency	
	Overall	>90%
	Inverter	>92%
	Overload	110% for 60 minutes
		125% for 10 minutes
		150% for 1 minute
10	Quality Standards	ISO 9001; 2000; ISO 14001. MAIT Level II Certified
11	Crest factor	3:01
12	Total harmonic Distortion	< 3% On Non-linear Load, < 2% on Linear Load
13	Protection Against	Overload
		Short Circuit
		Over temperature
		Low battery
		Over/Under Voltage Cut-offs
		Spikes and Surges
14	Additional Feature	Static bypass switch
		Maintenance bypass switch
		Cold start facility
		compatible with all generator sets
		Display of Health of UPS
15	Audible Alarm for the following Conditions	Low battery
		Mains failure
		Inverter under voltage

		Inverter over voltage
		Over temperature
		Inverter overload
16	Environmental parameters	operating temperature from 0° to 45° Centigrade
		Storage temperature 0° to 70° Centigrade
		Relative humidity from 0 to 95% Rh
17	Annual Turnover	Rs 400 Crore per year during the last two years
18	Maker's preference	Merlengerin, Mitsubishi, Emerson, Gutor, APC
19	Original Manufacturer's Certificate	The OEM from the original manufacturers must be provided by the bidders
20	Battery type	Sealed maintenance-free batteries
21	Warranty	5 years comprehensive including batteries
22	general requirements	The UPS system should be equipped with batteries and all other accessories for proper & effective functioning (such as power supply cords, connectors, racks, cabinets, etc.). Price of individual components should clearly be specified in the standard and the optional format in the quote. the quotation should justify each specification point by point in their order of requirements. Quotations not done properly will be rejected.
23	Additional terms and Conditions	Bidder must clearly specify their aftersales support capabilities.
		The bidder must provide detailed list of users of the quoted UPS in India within last two years with their contact details.
		The bidder must quote for 5 years of warranty (including batteries).
		The company must respond to the user's call in case of the failure of the UPS and its components during the warranty period within 48 hours
		If a bidder is found to be giving misleading and/or erroneous information about the UPS and any of its components to secure the bid, then he/she will be disqualified with immediate effect.

