

**TECHNICAL SPECIFICATIONS FOR 20 KVA PARALLEL REDUNDANT UPS SYSTEM**

SI	Parameter	Required Specification
1	Manufacturers Credentials	Manufacturer must be ISO 9001:2008 certified. Please enclose Certificate
		Manufacturer must be ISO 14001 certified. Please enclose certificate
		Bidder if not the manufacturer, must provide <b>Manufacturer's Tender Specific Authorization</b> that the bidder is authorized sales & service provider.
2	UPS Ratings	20 KVA
3	UPS Type	True Online Digital Signal Processor Based UPS system with IGBT based rectifier and Inverter.
4	Mandatory System Features	UPS efficiency
		Online mode efficiency up to 96.2% Eco mode efficiency up to 99%
5	Input Parameters	It Should be possible to configure the UPS system for Three Phase (380/400/415VAC).
		Permissible Input voltage range : 176V AC - 288V AC
		Input frequency Range : 40Hz-70Hz
		Nominal Frequency: 50Hz/60Hz
6	Intermediate Dc Circuit Parameters	Input power factor : >0.99 p.f
		Nominal DC bus voltage: 288VDC – 480VDC
		Types of batteries supported : SMF Battery Charging max : 13A
7	Output Parameters	Output power rating at 1.0/0.8 pf: 20 KVA
		Output power factor : Unity
		Output voltage precision : +/-3%
		Output voltage distortion for <2% for 100% Linear Load < 5% for 100% Non Linear Load
		Power Rating at Unity pf : 20 KVA
		Output Crest factor capacity : 3:1
		Overload Capacity : at 25°C Upto 105%~ 125% for 5 mins, Upto 125%~ 150% for 1 mins Over 150% for 200ms
8	Batteries	SMF Battery: 24-40 Blocks of 12V for each set
		Battery VAH should not less than 20000VAH for total 30mins backup .
9	Special Feature (Mandatory)	Operating Temperature : 0-50°C without de-rating UPS output capacity.
		General & Safety Requirement: IEC/EN 62040-1 EMC : IEC/EN 62040-2.
10	Ethernet Port	Built in with the UPS system to support monitoring.
11	Protection Parameter	Dust Proof, Moisture Proof , High Temperature Proof,
12	Certification	RoHS, SEISMIC Certified.
13	Parallel load sharing	Parallel load sharing redundant operation with all accessories.

Please enclose a printed brochure of the UPS system along with the offer in case there is a mismatch between quoted specifications and the Brochure Specifications then the tender may be rejected

