COMPLIANCE STATEMENT TO TECHNICAL SPECIFICATIONS OF THE (1+1) PARALLEL REDUNDANT ONLINE UPS SYSTEM

TENDERERS ARE REQUIRED TO FILL-UP THE OFFERED SPECIFICATIONS' COLUMN

(Tenderer not filling-up this format will be rejected)

SPECIFICATIONS FOR 2X10 KVA ONLINE UPS SYSTEM SYSTEM WITH ONE HOUR BACK-UP ON FULL LOAD ON EACH UPS				
PARAMETER	REQUIRED SPECIFICATION	OFFERED SPECIFICATION		
Topology	True Online Double Conversion Power Recreation			
Rectifier Design	Fully Controlled			
Charger Design	Low Ripple CVCC Battery Charging			
Inverter Design	Advanced Sine-weighted High Frequency PWM using IGBT with Instantaneous Sine-wave Control			
Duty	Continuous Operation on Full Rated Power			
INPUT				
Voltage Range	340 to 460 V AC, Three Phase			
Frequency Range	47 to 53 Hz			
Input Phase Sequence Reversal	UPS should keep working normally without draining the batteries			
Single Phase Operation	It should also be possible to operate the UPS using Single Phase Input Supply, whenever required.			
Back-Feed Protection	Required			
OUTPUT				
Power Rating	10 KVA / 9 KW Continuous for Each UPS, The System shall be installed in 2X10KVA /9 KW configuration to achieve 20 KVA / 18 KW Output Capacity without Redundancy and 10 KVA/ 9 KW Output Capacity with (N+1) Redundancy			
Number of UPS, which can be connected in parallel to form a unified system with one output	Minimum Two (Each ups should be capable of working in standalone or parallel mode without any modifications)			
Voltage	230 V AC, Single Phase			

PARAMETER		REQUIRED SPECIFICATION	OFFERED SPECIFICATION		
Voltage Regulation	<u>+</u> 1%				
Frequency		Synchronized Mode			
		Battery Mode / Unsynchronized Mode			
Waveform	Sine Wave				
Harmonic Distortion	Less than 2% or	linear load			
		Non-linear Load			
Load Power Factor		vithin specified power ratings			
Overload Rating	125% for 1 minute				
	150% for 30 sec				
		not trip in case of Start/ Stop of the Load (s) within the			
	Overload Rating	s of the UPS			
BATTERY					
Туре	Sealed Lead Acid Maintenance Free				
Back-up Time	One Hour on full load of 10 KVA / 9 KW Load on Each UPS.				
	Battery Required	I: 18000 VAh Minimum with each UPS			
Battery Cabinet	Powder-coated to be provided for safety of the User				
Ingress Protection for Battery	IP10 or Better				
Cabinet					
Battery Protection	MCCB / MCB of	Suitable DC rating should be installed			
PROTECTIONS					
Input Over Current	Input Under/	Output Under/ Over Voltage			
	Over Voltage				
Over Temperature	Battery Under/	Output Overload & Short Circuit			
	Over Voltage				
ENVIRONMENTAL					
Operating Temperature	0 to 40 deg C (4				
Relative Humidity	Upto 95% Non-condensing				
Audible Noise	< 55 dB at 1 metre				
Ingress Protection	IP20				
Cooling	Forced Air Coolii	ng			

PARAMETER	REQUIRED SPECIFICATION	OFFERED SPECIFICATION		
COMMUNICATION				
RS-232	Each UPS Should have RS-232 Communication Interface with Software for Monitoring the various Parameters			
AS400 Interface	Each UPS should have AS400 Interface to facilitate external status interface with Panel / BMS etc.			
PANEL FOR UPS IN	PUT, PARALLELING AND LOAD DISTRIBUTION			
Paralleling Panel	Should be supplied with necessary Switches, Over-current Protection for			
for 2X10KVA UPS	Input, Output, Bypass with provision for connecting Incoming Three			
Systems	Phase Supply and Output Single Phase Supply of suitable Rating			
Input	Suitable MCB / MCCB of Reputed Brand	Specify the Brand and rating :		
Output	Minimum 2 No. using suitable MCB / MCCB/SFU	Specify the No. Rating		
Indications	Suitable Long-term Reliability LED Type			
Construction	Should be Wall Mounting Type as per IS Standard			
EPO	EPO Switch should be provided to Manually conduct Emergency Power Off			
Earth Fault Alarm	Earth Fault Alarm with Indication should be provided			
Individual UPS	If required, it should be possible to electrically disconnect any of the UPS			
Isolation	from the output and input supply using the panel			
WARRANTY				
For UPS	5 years (Minimum)			
For Battery	5 years (Minimum)			
For Panel	5 years (Minimum)			