25/02/2019

Addendum to NIT dated 12/02/2019

Sub: Quotation for supply and installation of 6 Kva UPS with 2 hrs Battery backup for Kishangarh Branch, Rajasthan

This has reference to our Notice Inviting tender dated 12/02/2019 for the Quotations for supply and installation of brand new UPS with 2 Hrs battery backup.

The following amendment to NIT have been incorporated in connection with the above mentioned NIT

1. Bidder must be OEM of UPS
2. Technical Specifications of UPS as per Annexure-1, Bidder must seal & signed each page as compliance.
3. Last Date of Tender Submission- 13/03/2019, 01:00 PM
4. Opening of Tender- 13/03/2019, 03:00 PM

Other terms and condition will remain same as per NIT dated 12/02/2019

(Chief Manager)
Allahabad bank
ZO- Jaipur

Annexure - IV

TECHNICAL SPECIFICATION

TRUE ON-LINE DOUBLE CONVERSION UPS SYSTEM

Sl No.	PARAMETER		TECHNICAL SPECIFICATIONS
1	**CAPACITY IN KVA**		(i) 3 KVA (single phase input)
			(ii) 6 KVA (single phase input)
			(iii) 10 KVA (3 phase input)
2	**BACKUP TIME**		2 hrs and 4 hrs. for each of the above UPS
3	**CAPACITY IN KW**		MUST BE SPECIFIED
4	**MODEL/ MAKE**		BRANDED (MUST BE SPECIFIED)
5	**TECHNOLOGY**		True online Double Conversion Microprocessor based UPS system with IGBT based rectifier and inverter
6	**ISOLATION**		True Galvanic Isolation Transformer (with Copper-winding) at Input (External).
7	**INPUT**		
	a)	Input Power Factor	$\geq$ 0.95 (With p.f. correction)
	b)	Input Voltage	230 V AC, Single Phase, 3 wire (for 3 & 6 KVA UPS)
	c)		415 V AC, 3 Phase, 4 wire (for 10 KVA UPS)
	d)	Input Voltage Range	160 V AC to 280 V AC (For single Phase UPS)
	e)		307 V AC to 478 V AC (For 3 phase UPS)
	f)	Input Frequency Range	45 to 55 Hz
	g)	Input Over Voltage Protection	Should be provided
	h)	Over voltage cut off	Over voltage cut off should be offered internally
8	**OUTPUT**		
	a)	Wave Form	Sine wave
	b)	Output Voltage	230 V AC single phase $\pm$1%
	c)	Frequency Range	50 Hz + 3%
	f)	Power factor	0.7 to Unity for 3 KVA UPS
			0.8 to Unity for 6 KVA & 10 KVA UPS
	g)	Over load capacity	125% of rated load for 1 min
			150% of rated load for 30 Secs.
	h)	Total Harmonic Distortion	$\leq$ 3% for 100% Linear load
			$\leq$ 7% for 100% Non-linear load
	i)	Short Circuit Protection	Should be provided by tripping of the Inverter.
	k)	Output Power Capacity	For 3KVA UPS (Minimum 2400Watts/3000 VA)
			For 6KVA UPS (Minimum 5400Watts/6000 VA)
			For 10KVA UPS (Minimum 9000Watts/10000 VA)
	l)	Other programmable	220/240 V

		Voltage	
	m)	Efficiency at full load	≥ 93.00%
	n)	Output Voltage Regulation	±1% static
	o)	Output Connections	(1) Hard Wire 3-wire
			(2)IEC C13
9	a)	**BYPASS**	Internal Static Bypass option should be available.
	b)	Manual Bypass switch	Should be provided
	c)	Transfer time	<4 m sec
10	**Crest Factor**		3:01
11	**INDICATORS**		
	a)	Over Temperature	Required
	b)	Load on Battery	Required
	c)	Battery on Charge	Required
	d)	Battery Low	Required
	e)	Mains on	Required
	f)	DC on	Required
	g)	Inverter on	Required
	h)	Inverter Tripped	
		1.Output over voltage	Required
		2.Output Low	Required
		3.Over Load system	Required
12	a)	Static Switch	Automatic Bi-directional should take care of 100% uninterrupted transfer of load from UPS
	b)	Overall efficiency	> 85%
	c)	Inverter Efficiency	> 90%
13	**CONTROLS**		
	a)	Inverter On/ Off switch	Required
	b)	By-pass / Inverter	Required
	c)	MCB for input On/ Off	Required
14	**METERING**		Digital/ LCD/LED display
	a)	DC Voltage	Required
	b)	DC Current Charge/discharge	Required
	c)	Output voltage	Required
	d)	Output Current	Required
	e)	Input Voltage	Required
	f)	Digital three/three & half Frequency Meter (for Both input and output)	Required

15	a)	**Battery**	Sealed Maintenance Free Valve regulated Lead Acid Battery ≥ 12 V each of uniform AH rating,
	b)	Period of Backup	4 Hr. with 100% load for UPS with 4 Hrs backup
			2 Hrs with 100% load for UPS with 2 Hrs backup
	c)	Batteries Make	Batteries Make: Panasonic/ Exide/ Rocket / Amara Raja. Date of supply of batteries should be within 2 months of the date of manufacturing.
	d)	DC Bus Ripple	<1%
	e)	Battery recharge time from fully discharge condition to 100% charged condition	< 10 Hrs
	f)	Total DC Bus Voltage	>=96 Volt for 3 KVA UPS
			>=192 Volt for 6 KVA UPS
			>=240 Volt for 10 KVA UPS
	g)	No. of Battery Rack	Preferably single, open housing and top covered Rack.
	h)	No. of Battery	Please specify
	i)	VAH Rating (f**or 2 hrs. battery backup**) Capacity X 1 X 2hr. Inverter eff X utilization %	For 3 KVA - Minimum 7200 VAH
			For 6 KVA - Minimum 12480 VAH
			For 10 KVA - Minimum 19200 VAH
		VAH Rating (**for 4 hrs. battery backup)** Capacity X 1 X 4hr. Inverter eff X utilization %	For 3 KVA - Minimum 14400 VAH
			For 6 KVA - Minimum 28800 VAH
			For 10 KVA - Minimum 38400 VAH
	j)	Battery Life	Minimum 2 years onsite replacement warranty
	k)	Charger Capacity	Should be at least 10% of the battery capacity.
16			
	a)	Battery Low	Required
	b)	Mains Failure	Required
	c)	Inverter Under-voltage	Required
	d)	Inverter Over Voltage	Required
	e)	Over temperature	Required
	f)	Inverter Overload	Required
17	Voltage Stabilizer As standby source		UPS to have provision to connect stabilizer of required capacity at the input and bypass of UPS
18	**Environmental**		
	a)	Operating Temperature	0-40 Deg C
	b)	Humidity	0-95 % (non- condensing)
	c)	Noise Level	<55 dB at full Load from 1 mtr distance
	d)	Operating Elevation	0-3000 meters

	e)	Storage Temperature	-20-50 degree C
	f)	Storage Relative Humidity	0-95%
	g)	Storage Elevation	0-15000dbA
19		Compatibility	UPS should be generator(generic) compatible
20		Cold Start	UPS should have cold start facility in absence of mains supply
21	**Protection against**		
	a)	Phase Reversal(for 3 phase)	Required
	b)	Inverter under/Over voltage	Required
	c)	Output Short circuit	Required
	d)	Battery Overcharging	Required
22	**Certification**		
	a)	ISO 9001	Required
	b)	ISO 14001	Required
	c)	ERTL/SAMEER/ ETDC/BIS/EQDC/any NABL Certified LABs Certification required.	Required *(for the equipment offered)*
23	**Communications & Management**		
	a)	Interface Port(s)	DB-9 RS-232,SmartSlot
	b)	Available smart slot interface quantity	1
	c)	LCD Display	Required
	d)	Audible Alarm	Required
24	**Other Features ***		
	a)	Communication Port for PC interface	USB/ RS 232 port with SNMP card
	b)	Remote monitoring	UPS Network Management Card with suitable software with auto shutdown facility compatible in Linux/ Windows Server OS 2003/ 2008/2012, Windows 7/Windows 8.1 to monitor all parameters of UPS like Output voltage, Battery voltages, UPS load, Mains frequency, Dynamic Battery Backup time, UPS Temp., etc.
25		Conformal Coating	All PCBs must be conformal Coated

*** The items in Sl. 24(a) & (b) are optional, but UPS should have the provision for integrating the features/items mentioned herein.**