

REQUEST FOR QUOTATION

Tender No.: IITK/4i Lab/SB/2014-2015/02

Date: 12/12/2014

Tender Opening date:12/12/2014

Tender Closing Date: 24/12/2014

Subject: Purchase of UPS System of 15.0 KVA (3 Phase Input & 3 Phase output)

Quotation for the items mentioned above is requested in a sealed envelope. The quotation should reach on or before December 22, 2014 to the address given below.

Technical specifications required for the UPS System of 15 KVA:

		Chapter	Issues	IGBT RECTIFIER
1	1.1	General	Apparent power	15 KVA
	1.2			
	1.3		Topology	Double-conversion
	1.4		Topology	Transformer based UPS
	1.5		Topology	IGBT Rectifier and IGBT Inverter, Static switch on both Inverter and Bypass side with integrated Transformer based in standard UPS cabinet -
			System frequency	standard value : 50 hz Option 60 hz
2	2.1	Input Characteristics	Native rated input voltages (with no additional auto-transformer)	380/400V
	2.2		Phase to phase input voltage range	320 to 470V
	2.3		input power factor	> 0.95
3	3.1	Output Characteristics	Rated output voltage	415V
	3.2		Output power factor	0.8
	3.3		total harmonic distortion THDi linear loads non linear loads	<3% <5%
			Overload capability	150% <1 min 125% <10 min 100% continuous
	3.4			
	3.5			
3.6	Isolation Transformer	Inbuilt in UPS at the Output		
4	4.1	Battery & Energy Storage	Back up time	Not Required
	4.2		Battery voltage window	12V
	4.3		Cold start	Yes
5	5.1	Efficiency	Efficiency	>0.93%
	5.2		ECO mode	Yes
6	6.1	Bypass	Overload capability	150% 1 min 125% 10 min 100% continuous
			6.2	Short-circuit capability
7	7.1	Mechanics & Design	IP level	IP20 as standard

8	8.1	Interface, Monitoring, Communication	Display	All important input, output parameters. Option to use the system in Eco mode, EPO mode, UPS mode, programmable from front.
	8.2		Remote communication cards	RS 232, SNMP
	8.3			
9	9.1	Environment	Ambient storage temperature	-25° to 55°
	9.2		Ambient operating temperature	50° full load 8 hours nominal input voltage, recharging batteries, no overload.
	9.3		Acoustic noise at 1m	<60dBA
	9.4			
10	10.1	Certification	IEC	compliant to EN 62040-1:2003; EN 62040-2:2006
	10.2		CE marking	Yes
	10.3		ISO	9001 / 14001 / 18001

All Quotation to be send:

**To
The Head, 4i Laboratory,
Dr. Shantanu Bhattacharya
Associate Professor,
Indian Institute of Technology, Kanpur**