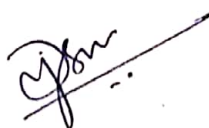


Annexure-1

Specifications of Programmable 3-Phase AC power source			
Description		BHEL Specifications	Vendor compliance
1	Input		
(a)	Phases	3 Phase or Single phase	
(b)	Voltage and frequency	415V +/- 5% , 50Hz +/-1% (in case of three phase)	
		230V +/- 5% , 50Hz +/-1% (in case of single phase)	
2	Technology for power conversion	PWM technology	
3	AC output		
(a)	Phases and connection	3 phase, 4 wire, sinusoidal	
(b)	Maximum output power for 3 phase	3000 VA or more	
(c)	Maximum output Power per phase	1000 VA or more	
(d)	Phase Voltage range	0 to 150 V variable with accuracy of 0.2% or better	
(e)	Frequency range	30Hz to 1kHz variable with accuracy of 0.2 % or better	
(f)	Maximum Phase current (RMS)	8 A or more	
(g)	Short duration peak current	32 A or more	
(h)	THD	3% or better at 400Hz Full Load condition	



4	Output Measurements		
(a)	Display	LCD or any standard digital display	
(b)	All three output phase/line voltages (RMS)	Required with accuracy of 0.5% or better	
(c)	All three output phase/line currents (RMS)	Required with accuracy of 0.5% or better	
(d)	frequency	Required with accuracy of 0.5% or better	
(e)	True power	Required with accuracy of 0.5% or better	
(f)	Apparent power	Required with accuracy of 0.5% or better	
(g)	Power factor	Required with accuracy of 0.5% or better	
5	Interface	Required (RS 232 or GPIB or any other standard interface)	
6	Protection		
(a)	Over voltage	Required	
(b)	Over current	Required	
(c)	Over power	Required	
7	Safety and EMC compliance	CE or any equivalent standard compliance is required	

