

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A), HYDERABAD-75
Department of Electrical and Electronics Engineering

Procurement of Special Electrical Machines
Technical Compliance Sheet/Bid. (Ref. No: EEE/SEM-2019-20/102)

S. No	Name of Equipment	Specifications	Compliance (Yes / No)
1	V/F Control of 3-Φ Induction motor	2 HP / 415 V / 3 Phase / TEFC / IE2 Eff. Class / Sq. Cage Induction Motor with Mechanical loading arrangement having round dial scales and friction belt for torque measurement	
		2 Ft. Heighted elevated-base with anti-vibration pad if required	
		Control panel consisting TPM MCB, with Industrial VFD Drive, AC Voltmeter, AC Ammeter and required indicators.	
2	Salient pole 3-Φ Sync. Generator	5 HP / 220 V / 1500 RPM / Shunt Wound DC Motor coupled to 3 KVA / 415 V / 3 Phase / 1500 RPM / 50 Hz. / Four Pole / Rotor Wound / Stator Excited / Separately excited / Manually Regulated Salient Pole Alternator with base and couplings	
		2 Ft. Heighted elevated-base with anti-vibration pad if required	
		Control Panel consisting following components. DC MCB 1 no., 3 point Starter 1 no., 25 A DC Ammeter 1 no., 2A DC Ammeter 1 no., 300 V DC Voltmeter 1 no., Field Rheostat for motor field control 1 no. (External), 5 A AC Ammeter 1 no., 2 A DC Ammeter 1 no., 500 V AC Voltmeter 1 no., 2 A Separate excitation unit for Alternator 1 no., other required indicators & terminals.	
		3 Phase / 415 V / 5 A / wire wound / resistive load bank controlled by rotary switches in about 6 steps.	
		Cont. variable / 415 V / 4.2 A / 50 Hz. / 3 Phase / Inductive Load (for lagging PF Loading)	
		3 Phase / 415 V / 5 A / 50 Hz. / Capacitive load bank controlled by rotary switches in 5 to 6 steps. Complete with Charging – discharging Bulb mounting holders (without bulbs. 60 W bulbs to be arranged locally) (for leading PF Loading)	
3	DC Series Motor	1.5 HP / 220 V / 1500 RPM / Duty S2 / DC Series Traction Motor with Mechanical Loading arrangement having Round dial scales and Friction Belt for Torque Measurement. (capable to take load up to 200-250 %)	
		2 Ft. Heighted elevated-base with anti-vibration pad if required	
		Control Panel consisting DC MCB, 2-point Starter, 2 Nos. DC Ammeter, 1 No. DC Voltmeter, 1 No. Field Diverter (Rheostat type - External) all other indicators & terminals required.	
4	Double Fed Induction Generator	3 HP / 220 V / 1500 RPM / DC Shunt Motor coupled with 3.0 HP / 415 V stator / approx. 210 V rotor / 3 Ph. Slipring Induction Motor as DFIG.	
5	Permanent Magnet Synchronous Motor	1 HP / PMSM Motor with Mechanical loading arrangement having 2 No. round dial scales and friction belt for torque measurement.	
		Control panel consisting TPM MCB, with Industrial VFD Drive, AC Voltmeter, AC Ammeter and required indicators.	
6	Switched Reluctance Motor	1 HP SRM Motor with Mechanical loading arrangement having 2 No. round dial scales and friction belt for torque measurement. With Elaborate Drive to study with following drives: FPGA Module, IGBT Module.	
7	BLDC Motor	1 HP / 200 V DC / 3000 RPM BLDC Motor with Mechanical loading arrangement having 2 No. round dial scales and friction, belt for torque measurement. With Elaborate Drive to study with following modules: FPGA Module, IGBT Module.	

Note: Kindly mention the Make of the Equipment also

1. ALL E-Tenders to be addressed topurchase@cbit.ac.in with CC to Principal@cbit.ac.in. Hard copies to be addressed to Principal, CBIT(A) HYDERABAD 75

Signature:

Stamp of the Vendor: