

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

Procurement of Special Electrical Machines
Financial Bid. (Ref. No: EEE/SEM-2019-20/103)

S. No	Name of Equipment	Specifications	Price, Rs:
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 about 5 to 6 steps. Complete with Charging – discharging Bulb mounting holders (without bulbs. 60 W bulbs to be arranged locally) (for leading PF Loading)	
		Synchronizing Panel for synchronizations of two Alternator set or Alternator with Mains. Consisting of voltmeter – 1 No., Frequency meter– 1 No., lamp Board bank for Lamp Method, Phase Sequence Meter – 1 No., Synchroscope – 1 No, necessary switches, fuses & indicators.	
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

Note:

1. Any other Details of the equipment or deviations if any can be mentioned here.
2. The file should be stored with password protection.
3. If the technical bid is qualified, the financial bid will be opened after receiving the password from the Vendor.
4. 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: