

Maharaja Ranjit Singh Punjab Technical University, Bathinda

Purchase of Equipments for Electrical Machine - II Lab at PIT GTB Garh

Name of Work:

Name of Agency

Sr. No.	Description of Item	Qty.	Unit
1	Load test & torque speed characteristics of 3 phase induction motor 3 phase induction motor 3 HP coupled with DC shunt generator 2kw fitted with proximity sensor & control panel fitted with necessary meters, star/delta starter & digital RPM meter & accessories like loading rheostat 2kw 1 phase	1	No.
2	Block rotor test of 3 phase induction motor Supplied with 3 phase induction motor, 3HP fitted with mechanical load & proximity sensor control panel fitted with necessary meters, DOL starter & digital RPM meter, accessories are Variac 10 amps 3 phase	1	No.
3	Speed control of 3 phase induction motor by cascading method Supplied with 3 phase AC slip ring induction motor 2HP, coupled with 3 phase AC slip ring induction motor 2 HP fitted with proximity sensor, rotor resistance starter & control panel fitted with necessary meters, DOL starter & digital RPM meter	1	No.
4	Speed control of 3 phase slip ring induction motor by rotor resistance method Supplied with 3 phase AC slip ring induction motor 2HP fitted with mechanical load proximity sensor, Rotor resistance starter & control panel fitted with necessary meters, DOL starter & digital RPM meter	1	No.
5	Voltage regulation of an alternator by zero power factor method a) Supplied with DC shunt motor 2HP coupled with 3 phase AC alternator 1KVA & accessories b) Resistive lamp load 1kw, 3 phase (ME2333) c) Inductive load 10 amps, 3 phase (ME2325)	1	No.
6	Negative sequence & zero sequence reactance of synchronous m/c Supplied with DC shunt motor 2HP coupled with 3 phase AC alternator 1kva, & accessories are variac 10 amps single phase (ME 23030)	1	No.
7	Synchronization & parallel operation of two alternator by two bright & one dark lamp method or synchroscope Supplied with 2 set of DC shunt motor 2HP coupled with 3 phase AC alternator, Accessories b) resistive lamp load 1kw, 3 phase c) Resistive lamp load 1kw, 3 phase	1	No.
8	To study star delta starters physically & to draw electrical connection diagram & to start the three phase induction motor using it & to reverse the direction of 3 phase induction motor Star delta starter 3 phase induction motor & connecting leads	1	No.
9	To perform no load & block rotor test on 1 phase induction motor & to determine the parameters of circuit & plot torque speed characteristics Single phase motor fitted on frame.	1	No.
10	To perform no load & short circuit. Test on 3 phase alternator & draw open & short circuit characteristics 3 phase alternator & connecting leads	1	No.