

POWER PLANT LAB

LIST OF EXPERIMENTS

1. Visit to UET power house gas generator set and determination of its efficiency
2. Visit to UET power house diesel generator set and determination of its efficiency
3. To determine the blow down of cooling towers at UET power house
4. To determine the evaporation loss and drift loss of cooling towers at UET power house
5. To determine the thermal efficiency and water efficiency of cooling towers at UET power house
6. Visit to mini steam turbine power plant (Model PC-TMS-400A)
7. To determine the dryness fraction(X) of steam with the help of throttling calorimeter
8. To determine the thermal efficiency of super heater and evaluate its performance
9. To determine the thermal efficiency of steam boiler and measure its evaporation rate
10. To determine the mass flowrate of steam in a pipe with the help of orifice flow meter
11. To measure the actual efficiency of steam turbine and compare it with its isentropic efficiency
12. To determine the condenser heat exchange rate and evaluate its performance
13. To determine the overall efficiency of steam turbine experimental apparatus
14. To observe the processes within a forced draught cooling tower

MINI STEAM TURBINE POWER PLANT (MODEL NO. PC-TMS-400A)

