**Power Plants lab Activity**

**Contents for Report writing**

1. ASME codes Introduction
2. Boilers classification
3. Water tube schematics
4. Boiler walls
5. Super heater type, Performance characteristics of super heaters
6. Attemperator types and working principle
7. Material for construction of super heaters
8. Economizer and its working principle
9. Induced and forced draft Fan
10. Steam drum, Types
11. Natural and forced Circulation
12. Air Pre heaters
13. Stack height
14. Shapes of water type boilers
15. Once through type boiler and all its applications
16. Fire tube boilers
17. Types ® Shell type boiler

® Dry back boiler

® Wet back boiler

1. Components and working principle of Fire tube boiler
2. Comparison of Fire tube and water tube boilers on the basis of Pressure
3. Summary of valves
4. Flow meters
5. Pipes and supports
6. Nominal Pipe size
7. Expansion Joints