

**DECCAN COLLEGE OF ENGINEERING & TECHNOLOGY**  
DAR-US-SALAM, HYDERABAD - 500 001.

**HYDRAULIC MACHINES LAB**  
**EQUIPMENT AND TOOLS LIST**

<b>S.No.</b>	<b>NAME OF THE EQUIPMENTS</b>	<b>Quantity</b>
1	Reciprocating Pump	1
2	Centrifugal Pump	1
3	Variable Speed Centrifugal Pump	1
4	Pelton Wheel Test Rig.	1
5	Francis Turbine Test Rig.	1
6	Hydraulic Ram	1
7	Kaplan Turbine Test Rig.	1
8	Basic Pneumatic Trainer Kit	1
<b>S.No.</b>	<b>NAME OF THE TOOLS</b>	<b>Quantity</b>
1	Stop Watch	3
2	Spirit Level	1
3	Cutting Pliers	1
4	Tester	1
5	Hammer	1
6	Spanner Set	1
7	Adjustable Wrench	1
8	Pipe Wrench	1
9	Chain Wrench	1
10	Screw Driver	1
11	Oil Can	1
12	Tacho Meters (Mech)	1
13	Tacho Meters Digital	1
14	Spring Balance	3
15	Fire Extinguisher	1

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DAR-US-SALAM, NAMPALLY, HYDERABAD – 1

**DEPARTMENT OF MECHANICAL & PRODUCTION ENGINEERING**

**HYDRAULIC MACHINES LAB**

**List of Experiments:**

1. Draw the Performance Curves of Reciprocating Pump.
2. Draw the Performance Curves of Single Speed Centrifugal Pump.
3. Draw the Performance Curves of Variable Speed Centrifugal Pump.
4. Draw the performance curves of constant head OR main characteristics of Pelton Wheel
5. Draw the performance curves of constant speed OR operating characteristics of Pelton Wheel.
6. Draw the performance curves of constant head OR main characteristics of Francis Turbine.
7. Draw the performance curves of constant speed OR operating characteristics of Francis Turbine.
8. Draw the performance curves of constant head OR main characteristics of Kaplan Turbine.
9. Draw the performance curves of constant speed OR operating characteristics of Kaplan Turbine.
10. To determine the Rankine and 'D' Abuisson Efficiency of "Hydraulic Ram"
11. To study the basic pneumatic trainer kit.