



# Government Polytechnic, Sakoli

Department Of Mechanical Engineering

## Details of Fluid Mechanics & Machinery Lab



S.N.	Particular	Details
1	Lab Incharge	Prof. S.M. Bante
2	Lab Assistant /Instructor	Shri.V.A. Meshram

List of Major Equipment Available in Lab	
1	Centrifugal Pump Test Rig
2	Bernoulli's Theorem Apparatus
3	Venturimeter Apparatus
4	Pelton Wheel turbine test Rig

**List of Major Equipment and Cost of Fluid Mechanics  
& Machinery Laboratory**

S.N.	Description of Items	No. of Items	Cost in Rupees	Remarks
1	Test Rig for Centrifugal Pump (DSR NO:GP/Mech/2007-08/DSR NO-3 / Page No-29)	1 No	49213/-	
2	Bernoulli's Theorem Apparatus	1 No	35,300/-	
3	Venturimeter Apparatus (GPS/Mech/2007-08/DSR NO-01/Page No 36)	1 No	33,581/-	
4	Pelton Wheel Turbine Test rig (GPS/Mech/DSR NO-1/ Page No-3)	1 No	70720/-	
5	Directional Control Valve (GPS/Mech/DSR-3/Page No-34/SR-2)	1 No	8932/-	
6	Pressure Reduction Valve (DSR-3/29)	1 No	6640/-	
7	Gear Pump (DSR NO: GPS/Mech/DSR-3/Page No-30/SR-1)	1 No	9950/-	
8	Model of Volute Casing for Centrifugal Pump (DSR NO: GPS/Mech/DSR No-4/Page No-24)	1 No	11425/-	
9	High Pressure Valve (DSR NO:DSR NO-4/7)	1 No	4190/-	
10	Compressor Service Valve (DSR NO:DSR NO-4/6)	1 No	4190/-	
11	Vortex Casing for Centrifugal Pump (DSR NO: DSR NO-4/25)	1 No	3245/-	
12	Low Pressure Valve (DSR NO:DSR NO-4/8 )	1 No	4190/-	
13	Model Of Submersible Pump (DSR NO: GPS/Mech/DSR-3/ Page No 30/SR-2)	1 No	11950/-	
14	Cut Section Model of Monoblock Pump (DSR NO: GPS/Mech/DSR NO-4/Page No-27)	1 No	12450/-	
15	Different type of Impellar used in Centrifugal Pump (DSR NO: GPS/Mech/DSR NO-4 / Page No-4)	1 No	4000/-	

16	Experimental Set up to determine head loss due to sudden expansion and contraction.	1 No	All <b>Demonstration Models</b> are made by ME6I (2020-21) students under Capstone Project & Planning	
17	Experimental Set up to determine Darcy's friction factor in pipe of three different diameter.	1 No		
18	Experimental set up of flow measurement by orificemeter	1 No		
19	Experimental set up of impact of jet apparatus.	1 No		
<b>Total Laboratory Costing</b>			2,69,976/-	

Name & Signature of Lab Incharge