

SI.No	I T E M & BRIEF DESCRIPTION
01	<p><b>VERTICAL ORIFICE /MOUTH PIECE APPARATUS</b></p> <p><b>Experiment :</b></p> <ul style="list-style-type: none"><li>a. To determine Cd,Cv and Cc of different size Orifices</li><li>b. To determine Cd,Cv and Cc of different Mouth pieces</li></ul> <p>Complete with Closed circuit system: Main frame with powder coating houses following components:</p> <p>Monoblock pump of 0.5 Hp,Sump,measuring tank,Balancing tank,Over flow arrangement,maintaining constant head in balancing tank,chute channel , XY Coordinator system,piezometer for measuring tank,return line ball valve</p> <p>OVER ALL SIZE : 2.5 m x 0.7 m x 2.5 m ht</p> <p>Quality : Export type,with good finish,accurate and repeatable performance</p> <p><b>OPTION A : Closed Circuit with SS tanks</b></p> <p><b>OPTION B : Closed Circuit with MS tanks with FRP coat</b></p>
02	<p><b>VENTURIMETER APPARATUS</b></p> <p><b>Experiment :</b></p> <ul style="list-style-type: none"><li>a. To determine Cd of Venturimeters of two sizes – 1 inch and <math>\frac{3}{4}</math> inch</li><li>b. To calibrate Venturimeters</li></ul> <p>Complete with Closed circuit system: Main frame with powder coating houses following components:</p> <p>Monoblock pump of 0.5 Hp,Sump,measuring tank,piezometer for measuring tank,return line ball valve, Transparent Venturimeters of 1 inch and <math>\frac{3}{4}</math> inch ,with pressure ports at inlet and throat. Valve station manifold to select venturimeter to be connected to manometer, U tube, enclosed Manometer of 300 mm,tubes,clamps.</p> <p>OVER ALL SIZE : 1.5 m x 0.6 m x 1.5 m ht</p> <p>Quality : Export type,with good finish,accurate and repeatable performance</p> <p><b>OPTION A : Closed Circuit with SS tanks</b></p> <p><b>OPTION B : Closed Circuit with MS tanks with FRP coat</b></p>
03	<p><b>CONCENTRIC HEAT EXCHANGER</b></p>

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	<p>Experiment :</p> <ol style="list-style-type: none"><li>To determine Heat Exchanger effectiveness</li><li>To determine LMTD</li><li>To conduct above as Parallel flow heat exchanger</li><li>To conduct above as Counter flow heat exchanger</li></ol> <p>Complete with MS frame,powder coated with following:</p> <p>Heat exchanger: Copper pipe inside-12.5 mm dia, 1.5 m long</p> <p>Outer pipe : GI ,1 inch,1.5 m length.</p> <p>With Geycer,controller,control valve station comprising 5 ball valves and globe valves combinations,thermocouples, Rotameters to measure flow rate of cold and hot water,digital temperature indicator,selector switch,hot and cold pipes</p>
<b>04</b>	<p><b>LOSSES IN PIPES APPARATUS – MAJOR &amp; MINOR LOSSES</b></p> <p><b>Experiment :</b></p> <ol style="list-style-type: none"><li>To determine Co efficient of friction for GI pipes of three sizes – 1 inch , <math>\frac{3}{4}</math> inch and <math>\frac{1}{2}</math> inch – MAJOR LOSSES</li><li>To Determine Head losses in pipe fittings for 1 inch GI pipes – Smooth bend( large), Sharp bend,suddenly enlarged area,suddenly contracted area,globe valve and ball valve- MINOR LOSSES</li><li>To plot curves for above with varying flow rate</li></ol> <p>Complete with Closed circuit system: Main frame with powder coating houses following components:</p> <p>Monoblock pump of 0.5 Hp,Sump,measuring tank, piezometer for measuring tank,return line ball valve,Pipes – GI 1,3/4 and <math>\frac{1}{2}</math> inch , 2 m length with pressure ports at inlet and outlet. Valve station manifold to select different pipes,fittings to be connected to manometer, U tube, enclosed Manometer of 600 mm, mercury,tubes,clamps.</p> <p>OVER ALL SIZE : 2.5 m x 0.6 m x 1.5 m ht</p> <p>Quality : Export type,with good finish,accurate and repeatable performance</p> <p><b>OPTION A : Closed Circuit with SS tanks</b></p> <p><b>OPTION B : Closed Circuit with MS tanks with FRP coat</b></p>

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<b>05</b>	<b>STIRRED WATER BATH - HEAT TRANSFER</b>  Experiment :  01. To determine heat transfer coefficient in a stirred water bath 02. To conduct test by varying speed 03. To conduct test by varying heat input Complete with jacketed vessel made from SS with MS jacket,lid,steam generator electrically heated with 4 kw heaters with all controls,valves,stirrer paddle type,geared motor to drive stirrer,Control panel with digital meter for speed,temperature,thermo couples,RPM sensor, switches for heaters,stirrer motor speed controller,etc,.
<b>06</b>	<b>STRIP CHART RECORDER</b>  <b>Option A : Simple unidirectional with plain paper roll and simple ball pen or sketch pen</b>  <b>Option B: With thermal paper,electronic</b>
<b>07</b>	<b>DEAD WEIGHT PRESSURE GAUGE TESTER</b>  With SS body, complete with oil reservoir,calibrated dead weights,pressure gauge ,leveling screws,and other standard accessories.
<b>08</b>	<b>MECHANICAL EQUIVALENT OF HEAT APPARATUS</b>  Expt:  a. To understand concept b. To determine Mechanical equivalent of Heat Apparatus is completed with powder coated frame cum panel with leveling screws, spirit level bottle.  It comprises a DC motor,with brake drum,spring,rope,spring balance,special bracket to hold brake drum,with seals for leak proof joint,digital voltmeter,ammeter,rpm meter,temperature indicator,water pipe lines,control valves,controller for speed,switch,fuses,etc,.

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<b>09</b>	<p><b>OIL POWER HYDRAULICS TRAINER- BASIC/ELECTRO</b></p> <p>Complete with Frame,work panel,special brackets to fit all components,castor wheels.Electrical control panel with Starter, switches for DC, indicator lamps,wire connectors,clamps.</p> <p>Power pack comprises oil reservoir of 40 litres capacity,lid,</p> <p>Breather filler,return line filter,level gauge,drain plug, gear pump of 2-4 lpm, AC induction motor of 2 HP to generate 100 bar pressure,in built pressure relief valve and check valve.</p> <p>Oil used is SERVO 68 about 30 litres.</p> <p>Hydraulic components are fitted on sub plate ,handle and covered back side with plastic coating to avoid scratches on main panel, fitted with Quick Release Coupling(QRC) adopters.</p> <p>Main components are :</p> <ul style="list-style-type: none"><li>a. Hydraulic cylinders- 2 Nos</li><li>b. Hydraulic motor - 1</li><li>c. Pressure relief valve</li><li>d. Measuring flask</li><li>e. Pressure reducing valve</li><li>f. Solenoid operated Directional valve – 2 Nos</li><li>g. Hand lever operated Directional valve</li><li>h. Unloading valve</li><li>i. Check(NRV) valve</li><li>j. Pressure switch</li><li>k. Limit switches</li></ul> <p>Hydraulic hoses fitted QRC sockets – 16 Nos</p> <p>Pressure manifold – with QRC adopters</p> <p>Tank Manifold with QRC adopters</p> <p><b>CIRCUITS</b> : To build about 10 and more circuits</p> <ul style="list-style-type: none"><li>01 : To study about system,building pressure and setting pressure</li><li>02. To plot Pump charecteristics</li><li>03. Actuation of Hydraulic Cylinder by using hand operated valve</li></ul>
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	<p>04. Actuation of Hydraulic Cylinder by using Solenoid operated valve</p> <p>05. Actuation of Hydraulic motor</p> <p>06. sequencing of two double acting cylinders</p> <p>07. Above circuit with reduced pressure in one of the cylinder</p> <p>08. Speed control in actuation of Double acting with METER-IN CIRCUIT</p> <p>09. Speed control in actuation of Double acting with METER-OUT CIRCUIT</p> <p>10. Speed control in actuation of Double acting with BLEED OFF CIRCUIT</p> <p>11. Unloading circuit for Hydraulic cylinder</p> <p>12. Actuation of double acting cylinder with setting of pressure Switch</p> <p>13. Study of Check valve and employing it one of above circuits</p> <p>14. Actuation of Hydraulic cylinder and motor in sequence</p> <p><b>DETAILED MANUAL will accompany equipment</b></p>
<b>10</b>	<p><b>OIL POWER HYDRAULICS TRAINER- PLC BASED</b></p> <p><b>Above with PLC, loaded programme to conduct 7 experiment from above- 10 input and 8 output, 24 V DC, SMPS supply, software, etc,</b></p>
<b>11</b>	<p><b>ELECTRO PNEUMATIC TRAINER KIT</b></p> <p><b>With compressor of 2 HP, motor, tank, safety valve, pressure switch, air cocks, belt guard, tube connecting to trainer kit,</b></p> <p><b>DETAILED MANUAL accompany equipment.</b></p> <p>Complete with Castor wheel fitted frame, Aluminum panel with special brackets, storage cup board with locking facility, compartment to store components when not in use.</p> <p>Filter Regulator and Lubricator, isolation valve, Pressure manifold with Quick couplers.</p> <p>PU hose tubes, etc,,</p> <p>All working elements are fitted with plates, with plastic coating to avoid scratches on aluminum plate, fitted with quick coupling.</p> <p>An electrical panel with 24 V DC supply with switches, indicator lamps is provided. An</p>

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electronic timer, relay are also provided.

Limit switches can be fitted on cylinder panel at any required position. Patch chords are provided to make connections on electrical mimic panel. Working elements /components are :

- a. Double acting cylinders - 2 nos
- b. Single acting cylinder
- c. Limit switches - 4 Nos
- d. Flow control valves – 2 Nos
- e. Solenoid operated DC valve – double solenoid – 2 Nos
- f. 3/2 Solenoid/spring DC valve - 1 No
- g. Pressure switch
- h. Push button /spring 3/2 DC Valves – 3 Nos
- i. Twin pressure valve
- j. Shuttle valve
- k. Hand lever DC valve

**CIRCUITS** : About 15 circuits can be built including sequencing of two cylinders, LOGIC, Gates function, actuation of cylinders using different valves

**CIRCUITS/STUDY :**

01. Study of pneumatic system
02. Setting up system pressure
03. Operating Single acting cylinder with direct DC valve
04. Operating Single acting cylinder with impulse pilot DC valve
05. Operating Double acting cylinder with direct DC valve
06. Operating Double acting cylinder with impulse pilot DC valve
07. Operating Double acting cylinder with solenoid operated DC valve
08. Sorting devices
09. Clamping devices
10. Diverting devices
11. Tipping devices
12. Valve opening circuit
13. Single Gravity feed magazine circuit
14. Multi gravity feed magazine circuit
15. Hot stamping devices circuit
16. Continuous reciprocation of double acting cylinder
17. Sequencing of two double acting cylinders
18. Conveyor belt control circuit
19. Primary safety circuit
20. LOGIC CIRCUITS : AND gate
21. LOGIC CIRCUITS : NOT gate
22. LOGIC CIRCUITS : OR gate
23. AND MANY MORE

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<b>12</b>	<b>PNEUMATICS CIRCUIT TRAINER- PLC BASED</b>  Above with PLC,loaded programme to conduct 7 experiment from above- 10 input and 8 output,24 V DC,SMPS supply,software,etc
<b>13</b>	<b>REFRIGERATION CYCLE TEST RIG-VAPOUR COMPRESSION</b>  <b>EXPERIMENTAL CAPABILITIES :</b>  a. To determine Theoretical COP b. To determine Experimental COP  Complete with trolley mounted frame,powder coated panel,with following:  Compressor of 1/3 ton, condenser with fan, Heat exchanger type evaporator made from SS vessel surrounded by copper coil, kept in insulated box, thermostatic expansion valve ,DP switch,ROTAMETER, Digital Voltmeter and ammeter, Energymeters-1 no,Digital Temperature indicator, thermocouples, solenoid switch, HP/LP cut off, Thermostat, swiches,fuses,etc,.
<b>14</b>	<b>REFRIGERATION CYCLE TEST RIG-VAPOUR ABSORPTION</b>  <b>EXPERIMENTAL CAPABILITIES :</b>  a. To determine Theoretical COP b. To determine Experimental COP  Complete with powder coated frame cum panel,with Electrolux type vapour absorption unit,heat exchanfer,mini steam generator,insulations,thermo couples,continuous flow of loading water or with heaters,energymeters,switches,digital meters for voltage,current,temperature,etc,.
<b>15</b>	<b>YEAR ROUND DUCT TYPE AIR CONDITIONER TRAINER</b>  <b>EXPERIMENTAL CAPABILITIES :</b>  c. To determine Theoretical COP d. To determine Experimental COP e. To plot on Psychometric chart for i. Sensible Heating ii. Sensible cooling iii. Humidification iv. Dehumidification f. Heat transfer for above

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	<p>Complete with trolley mounted frame,powder coated panel,with following:</p> <p>Compressor of 1 ton, condenser with fan,3 row evaporator, thermostatic expansion valve,duct, air blower ,wet and dry bulb thermometers,heaters-2 nos,mini steam generator, nozzle,valves,heater controls,speed control for air blower,DP switches,ROTAMETER, DIGITAL ANEMOMETER, Digital Voltmeter and ammeter, Energymeters-2 nos,Digital Temperature indicator, thermocouples, solenoid switch, HP/LP cut off, Thermostat, swiches,fuses,etc,.</p>
<b>16</b>	<p><b>WINDOW AIR CONDITIONER TEST RIG</b></p> <p><b>EXPERIMENTS :</b></p> <ul style="list-style-type: none"><li>a. To set A/c Temperature</li><li>b. To determine Theoretical COP</li><li>c. To determine Experimental COP</li><li>d. To determine Air conditioner capacity</li></ul> <p>Complete with trolley mounted frame,panel with powder coating,Window air conditioner of 2 tons,mini outlet duct,</p> <p>DIGITAL ANEMOMETER, digital voltmeter,ammeter, temperature indicator,thermo couples,wet and dry bulb thermometers,energy meter,DP switch.fuse,etc,.</p>
<b>17</b>	<p><b>WATER COOLER TEST RIG</b></p> <p><b>EXPERIMENTAL CAPABILITIES :</b></p> <ul style="list-style-type: none"><li>a. To determine Theoretical COP</li><li>b. To determine Experimental COP</li></ul> <p>Complete with trolley mounted frame,powder coated panel,with following:</p> <p>Compressor of 1/3 ton, condenser with fan, Heat exchanger type evaporator made from SS vessel surrounded by copper coil with storage capacity of 50-60 litres,two taps,lid, kept in insulated box, thermostatic expansion valve ,DP switch,ROTAMETER, Digital Voltmeter and ammeter, Energymeters-1 no,Digital Temperature indicator, thermocouples, solenoid switch, HP/LP cut off, Thermostat, swiches,fuses,etc,.</p>

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<b>18</b>	<b>ICE PLANT TUTOR 25 kg/day</b>  Complete with trolley mounted frame,powder coated panel,with following:  Compressor of 1/3 ton, condenser with fan, Ice plant chamber capacity 20 litres,top lid on for placing ice cones of different sizes ,chamber made from SS , with copper coil inside,filled with brine solution kept in insulated box,  Stirrer with motor,paddle , thermostatic expansion valve ,DP switch,ROTAMETER, Digital Voltmeter and ammeter, Energymeters-1 no,Digital Temperature indicator, thermocouples, solenoid switch, HP/LP cut off, Thermostat, swiches,fuses,etc,.
<b>19</b>	<b>TORSION APPARATUS</b>  Expt : To determine Torsional forces in rods  Complete with CI base,guide way bed,DC motor with gear box of 3 HP,clutch/collet and special brackets to hold sample,load cell,torque sensor,angular measurement system,digital meter to indicate force,torque,speed,power used,etc,.  Suitable for rods upto 8-10 mm, materials – MS,Brass,copper,aluminum,etc,
<b>20</b>	<b>BEAM DEFLECTION (bending moment) APPARATUS</b>  Expt :  a. To determine Bending moment in beams supported at end with different supports like free,swivel,etc,. b. To conduct above with cental concentrated load c. To conduct above with uniformly applied load d. To measure deflection of beams Complete with beams of different sizes,length,materials,end supports like knife edges,bearings of fixed type,swivel type,  Different loading systems,dead weights,platform type weighing scale fitted at end to measure reaction forces,scale /pointer to measure deflection,etc,.
<b>21</b>	<b>CLIMATE CONTROL APPARATUS</b>
<b>22</b>	<b>MULTI TUBE MANOMETER</b>

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<b>23</b>	<b>BERNOULLIS THEOREM APPARATUS</b>  <b>Experiment :</b>  a. To find total energy at different area b. To varyfy Bernoullis Theorem Complete with Closed circuit system: Main frame with powder coating houses following components:  Monoblock pump of 0.5 Hp,Sump,measuring tank,Balancing tanks,Over flow arrangement,maintaining constant head in balancing tank,transparent variable cross section,piezometer bank with 10 piezometers ,laminated,lighted graphed panel,control valve,piezometer for measuring tank,return line ball valve  OVER ALL SIZE : 1.7 m x 0.7 m x 2.5 m ht  Quality : Export type,with good finish,accurate and repeatable performance  <b>OPTION A : Closed Circuit with SS tanks</b>  <b>OPTION B : Closed Circuit with MS tanks with FRP coat</b>
<b>24</b>	<b>FLOW IN PIPES APPARATUS</b>  Either Venturimete/orificemeter – same as item 02  <b>OPTION A : Closed Circuit with SS tanks</b>  <b>OPTION B : Closed Circuit with MS tanks with FRP coat</b>
<b>25</b>	<b>FLOW AROUND BENDS APPARATUS</b>
<b>26</b>	<b>TURBULANT JET STUDIES APPARATUS</b>  <b>Experiments:</b>  a. To study impact of jets b. To determine force imparted by impact of different size jets on Flat,inclined and hemisphere vanes c. To varyfy theoretical and expermental values d. To generate jets by changing orifices Closed circuit system with two monoblock pumps of 0.5 hp,sump,balancing tank,piezometer,different jets,xy coordinator,chute,transparent chamber with facility to fit different jets,vanes,balance beam,weighing scales,levers,control valve,measuring tank,etc.,  <b>OPTION A : Closed Circuit with SS tanks</b>

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	<b>OPTION B : Closed Circuit with MS tanks with FRP coat</b>
<b>27</b>	<b>TURBINE METER</b>
<b>28</b>	<b>FRICTION LOSSES IN PIPE FITTINGS APPARATUS</b>  <b>SAME as item 04</b>  <b>OPTION A : Closed Circuit with SS tanks</b>  <b>OPTION B : Closed Circuit with MS tanks with FRP coat</b>
<b>29</b>	<b>OSBORN REYNOLDS APPARATUS</b>  <b>Expt :</b>  a. To determine Osborn Reynold Number b. To confirm whether flow is turbulent c. To confirm whether flow is laminar Complete with frame,stand powder coated, Monoblock pump,sump,measuring tank,special tube with guard,tube light,special injector,dye tank,balancing tanks,pipes,piezometers  Control valves,another pump with selector switches,pipings, valves,etc.,  <b>OPTION A : Closed Circuit with SS tanks</b>  <b>OPTION B : Closed Circuit with MS tanks with FRP coat</b>
<b>30</b>	<b>UNIVERSAL PUMP TEST RIG</b>  <b>Expt :</b>  a. To determine efficiency of different pumps coupled to common DC motor-like Centrifugal,reciprocating, submersible,etc., b. To draw performance curves Complete with solid frame,panel powder coated,Sump, measuring tank,piezometer,presure and vacuum gauge,bye pass and control valves,pipes,DC motor of 2 HP,special coupling clutch arrangement to couple any above type of pump.  One at a time,alignment adjustment,digital RPM meter,Digital Voltmeter,ammeter,motor control drive-thyristorised,etc.,  <b>OPTION A : Closed Circuit with SS tanks</b>  <b>OPTION B : Closed Circuit with MS tanks with FRP coat</b>

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<b>31</b>	<p><b>CENTRIFUGAL PUMP TEST RIG</b></p> <ul style="list-style-type: none"><li>a. To determine efficiency of centrifugal pump</li><li>b. To draw performance curves</li><li>c. To conduct test with different speeds</li></ul> <p>Complete with solid frame,panel powder coated,Sump, measuring tank,piezometer,pressure and vacuum gauge,bye pass and control valves,pipes,DC motor of 2 HP,digital RPM meter,Digital Voltmeter,ammeter,motor control drive-thyristorised,etc,.</p> <p><b>OPTION A : Closed Circuit with SS tanks</b></p> <p><b>OPTION B : Closed Circuit with MS tanks with FRP coat</b></p>
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