

Shivaji University, Kolhapur

Department of Technology

Package Code	Package Name	Items	Description of Works/Goods	Qty	Method of Procurement
TEQIP-II/MH/MH1G05/37	Energy efficiency in thermal and electrical utilities	1. AC/DC Electric motor performance evaluation kit	a) 1Ph AC Squirrel Induction Motor trainer- provided for study of features viz Starting methods, Speed-Torque, Effect of Phase angle, Study of Cogging/Crawling, Effect of reduced voltage, Blocked rotor test. 1Ph AC Squirrel Induction Motor Cap. b) DC Shunt Machines Electrical Trainer - complete know of the Basics, Components, Starting methods, Wear & Tear & Maintenance of these motors packaged in small rating.	1	Shopping
		2. Reciprocating compressor performance - evaluation kit	Power 1 H.P., Two stage reciprocating, Air cooled, 1440 rpm, Max. press. 6 Kg/cm ² , Manometer, Pressure gauge, Orifice, Control Panel : On/ Off switch, Mains Indicator Lamp, MCB for overload protection, Digital RPM Indicator, Digital Energy Meter and Variable Speed D.C. Drive.	1	
		3. Centrifugal compressor performance evaluation kit	One experimental type centrifugal air compressor suitable for a pressure of 0.5 Kg/ sq Cm driven by squirrel induction motor of 5 HP, motor should be provided with suitable starter, An orifice type air intake measuring device with orifice plate & U - Tube Manometer	1	

		<p>4. Centrifugal pump performance evaluation kit</p>	<p>Apparatus consists of a close circuit through which water is to be circulated continuously by means of a centrifugal pump couple to make the supply from sump tank. A sump tank of 1200 mm x 500 mm x 1500 mm high fabricated with Electro plating Tank (PVC) is provided with the apparatus. A drain valve in the bottom of the tank.A centrifugal pump with an A.C. motor of 1 HP, single phase with the apparatus.</p>	<p>1</p>	
		<p>5. Air Conditioner performance evaluation kit</p>	<p>Compressor : Hermetically sealed compressor,Condenser : Air Cooled condenser made out of copper pipe & Aluminum fins of matching capacity with fan cooling, Energy Meter , Pressure Gauge : 2 Nos. for H.P., L.P. measurement, Electric Heater : Finned type heater for air heating., Rotameter for Refrigerant flow measurement.,</p>	<p>1</p>	