

# Shivaji University, Kolhapur

## Department of Technology

Package Code	Package Name	Items	Description of Works/Goods	Qty	Method of Procurement
TEQIP-II/MH/MH1G05/45	Chemical Reaction Engineering	Plug Flow Tubular Reactor (Straight tube type) With: Air compressor 1 /2 Hp, 2 CFM WITH STANDARD Make Motor and Automatic Switch	q Reactor : Material Borosilicate Glass, OD-32mm, ID-25mm, Length-1200mm q Feed Tank (2Nos.): Material Stainless Steel, Capacity - 20 Ltrs. q Feed Circulation: By compressed air. q Flow Measurement: Rotameter 2 Nos. (One each for Reactants). q Piping : Stainless Steel and PVC q	1	Shopping
		Liquid Phase Chemical Reactor	q Reactor Material : Acrylic/SS/Glass Capacity : Adjustable from 1 – 2 Ltrs. q Agitator : Variable speed with speed control facility from 0 – 150 RPM. q Impeller : 4 Square bladed (1 No.) Material : Stainless Steel. q Baffles : Detachable. q Piping : PVC. q Feed Tank (2 Nos.) Material :	1	

<p>RTD Study in continuous Stirred Tank Reactor. With: Air compressor 1 /2 Hp, 2 CFM with standard Make Motor and Automatic pressure Switch</p>	<p>q Reactor : Material Stainless Steel, Capacity 2 Ltrs. (approx.) q Stirrer : Material Stainless Steel Impeller and shaft coupled with FHP motor q Feed Tank : Material Stainless Steel, Capacity - 20 Ltrs..q Feed Circulation : By compressed air. q Flow Measurement : Rotameter. q Piping : Stainless Steel and PVC. q Pressure Regulator : 0-2 Kg/cm2 q Pressure Gauge : Bourdon type 0-2 Kg/cm2 q Stop Watch : Electronic q Control panel comprises of : With Standard make on/off switch, Mains Indicator etc.</p>	<p>1</p>	
<p>York Scheibel's Column. With: Air compressor 1 /2 Hp, 2 CFM with standard Make Motor and Automatic pressure Switch</p>	<p>q Extraction Column : Material Borosilicate Glass Dia. 45 mm, Height 750 mm (approx). q Packing : Woven mesh of Stainless Steel q Agitator : Stainless Steel impellers with Stainless Steel shaft coupled to a Variable Speed DC Motor. q RPM Measurement : Digital RPM Indicator, non contact type with proximity sensor.</p>	<p>1</p>	