FORM OF SHORT TENDER NOTICE

No. D2/6518/17/GECTCR

Government Engineering College Thrissur

Sealed tenders are invited for the supply of the following stores for chemical engg. department:

Seperate list attached

Approximate cost Rs. 254000/-

The envelopes containing the tender should bear the superscription "Tender. No. D2/136/17-18 due on 11/12/17" and should be addressed to the Principal, Govt. Engg. College, Thrissur, Kerala...

Last date for receipt of tenders will be 11/12/17 2.00 pm Late tenders will not be accepted. The tenders will be opened at Government Engineering College Thrissur on 12/12/2017 11.00 am in the presence of such of the tenderers or their authorized representatives who may be present at that time. Intending tenderers may, on application to the Principal, Govt. Engg. College, Thrissur, obtain the requisite tender forms on which tenders should be submitted. Application for the tender form should be accompanied by a cash remittance of Rs. 840/- + postal charge which is the price fixed for a form/set of forms and which is not refundable under any circumstances. The tender forms are not transferable. Sale of tender forms will be closed at 11/12/2017 12.00 pm Cheques, postage stamps, etc., will not be accepted towards the cost of forms, nor will the forms be sent per V.P.P.

Tenders should be accompanied by EMD of 1%, subject to a minimum of Rs. 1500/-, of the amount by DD drawn in favour of the Principal, Govt.Engineering College, Thrissur with an agreement in Kerala Stamp Paper worth Rs.200/-. Details can be had from the Govt.Engineering College Office working hours.

Place:Thrissur

Date: 7-11-2017

Dr. Jayanana. B

Principal

20

TO . HOD CHEMICAL ENGG. DEPT

2, OC

No.	tem	Specification	Quantity
		The experimental set up should consists of Prieumatic	Constitution of the branch of
		control valves of Quick opening, Linear and Equal %	
		type. The Stainless Steel water tanks with pump are	
		provided for continuous water circulation. The	
		Rotameter is used for the flow measurement. The	
	Control Valve Characteristics	pressure at the valve inlet is measured with the help o	
		manometer. The air regulator and pressure gauge is	
		provided for regulating air supply. These units along	
		with necessary piping and fitting are assembled in a	
		painted MS Structure.	
		With Air Compressor 1 HP	
		Control Valve Characteristics : Linear & Equal %	
		1	
		&Quick Opening	
		Type: Pneumatic	
		2.Water Tank: Material Stainless Steel, Capacity	
1		25 liters	
		3. Water Circulation: FHP Pump Champion/Standard	
		make.	
		4. Overhead Tank: Material Stainless Steel, Capacity	
		10 Liters.	
		5. Flow Measurement: By Rotameter.	
		6. Pressure Head measurement: By Single column	
		manometer.	
		7.Pressure Regulator: 0-2 kg/cm²	
		8.Pressure Gauge: Bourdon type, 0-2 kg/cm²	
		9.Piping : Size ½"	
		The experimental set up is for the study of	1 .
		characteristics of a PID controller. It shall consist a	
		stirred tank with a heater. Water shall be supplied to	
		the tank from laboratory overhead tank by the user.	
	P.I.D. CONTROLLER	The flow rate shall be adjusted by operating the	
		needle valves provided on Rotameter.	
		Stirred Tank: Material Stainless Steel, Capacity 2 L	
2		(approx.)	
		Stirrer: Stainless Steel Impeller and shaft coupled	
		with FHP Motor.	
		Flow Measurement: By Rotameter (0-20 LPH)	
		Stop Watch: Electronic	
		Heater : Nichrome wire heater.	
		Control Panel comprises of:	
		PID controller : 0-199.9°C	
		Temperature Sensor: RTD PT-100 type	
		With standard make On/off switch, Mains Indicator	
		etc.	
		The transient response of second order system by	
		using U Tube Manometer is to be studied. It shall	
		consist of U tube manometer, Pressure sensor and	
		Pressure regulator on a vertical frame.	
		A foot pump with pressure tank fixed on a separate	

	1		
		frame with pressure gauge provided, to generate a	gring.
		variable air pressure in conjunction with pressure	
		regulator to the manometer.	
		A USB based Data Acquisition system provided to	
		study the second order system characteristics	
		graphically on a PC, compatible with LabVIEW and	•
3	U-Tube Manometer	MATLAB Softwares.	1
		U Tube manometer	
		Range : (0-300)mmHg	
		Pressure Sensor: (0-300)mmHg	
		Body Material : MS with Powder coated	
		Tube : Glass	
		Mounting position : Vertical	
		Pressure tank of 5 liters capacity with pressure gauge	
		to display the pressure developed in the pressure	
	*	tank.	
		One foot pump provided to generate the pressure.	
		Stop Watch: Electronic.	

Dr. Jayanand. B

Principal