

**U.T. ADMINISTRATION OF DADRA & NAGAR HAVELI & DAMAN AND DIU,
DIU HIGHER EDUCATION SOCIETY, DIU,
GOVERNMENT POLYTECHNIC,
EDUCATION HUB, KEVDI,
DIU - 362520.**

No. 5.1/THEIS/GP-DIU/TENDER/2019-20/275

Dated: 11/03/2020

E-TENDER NOTICE

Sealed tenders are hereby invited by the Principal. Govt. Polytechnic - Diu on behalf of the President of India for supply of Mechanical Engineering Equipment's, (**THERMAL ENGINEERING EQUIPMENT'S**) as stated below as per the terms and condition stipulated attached herewith. Tender documents should be submitted along with nonrefundable tender fees of Rs. 500/- DD, favor of Daman & Diu Society for Technical Edu. & Higher Edu. (CENT) and refundable E.M.D **Rs.1,01,300/-** of the total cost of supply items in favor of Daman & Diu Society for Technical Edu. & Higher Edu. (CENT).

Last date of Submission of Tender : 30/03/2020 at 12:00 PM

Opening of Tender : 30/03/2020 at 03:00 PM (if Possible)

Sr. No.	Peripheral	Configuration/ Specification	Qty.	Rate
1.	Four Stroke Diesel Engine with Brake Drum Loading system (Test Rig)	<p>Full test rig setup.</p> <ol style="list-style-type: none"> 1. Engine: Single cylinder 4 stroke diesel engine (vertical) of 5 HP capacity, ISI Marked. 2. Dynamometer: Rope Brake Dynamometer, on a common base plate. Brake drum of 400 mm dia with cooling arrangement, vertical spring balance, hand wheel, weight hanger, dead weights for conducting experiments. 3. Fuel Measuring Device: Fuel tank mounted on iron stand, burette tube, three way cock, connecting tube & a stop clock. 4. Calorimeter: Double Pipe Heat Exchanger to measure the heat loss through exhaust gases. 5. Air Intake Measurement: Air Intake reservoir of size 0.3 x 0.3 x 0.5 m. with orifice plate, U-Tube manometer of 0.3 m height for the measurement of air flow rate. 6. Cooling Arrangement: Cooling Water measurement by rotameter to determine the discharge of cooling water. Internal cooling water need for the engine & drum cooling. 7. 12 channel Digital Temperature Indicator: With set of thermocouples. <p>Installation and Demonstration (On-Site Service/Maintenance for 3 years)</p>	1	
2.	VCRS Test rig with capillary tube and thermostatic expansion valve	<ol style="list-style-type: none"> 1. Compressor: Hermetically sealed compressor. 2. Condenser: Air Cooled condenser made out of copper pipe & Aluminum fins of matching capacity with fan cooling. 3. Evaporator: Copper Coil immersed in water. (Insulated) 4. Expansion device: Capillary Tube & Thermostatic expansion valve. 	1	