



**TECHNICAL SPECIFICATION**


1. The scanned copy of this annexure "H" (original downloaded) duly completed and seal signed by the bidder must be uploaded otherwise bid should not be considered. Any supplementary information may be uploaded separately.
2. The samples where-ever mentioned in specifications must be submitted in this Directorate of Technical, Jodhpur(Education wing) along with physical submission otherwise concerned item will not be considered for technical evaluation.
3. Scanned Copies Items wise Original Literature/Leaflets/Catalogue correct Image as per Tender Specification enclosed, Authorization Certificate of manufacturer prescribed format (Annexure-L) etc. must be enclosed in support of your Make and Specifications otherwise concerned items will not be considered for Technical Evaluation.
4. The delivery period up to 60 days.
5. The Material will be Supplied F.O.R. at Principal Government Polytechnic College, as per order List.
6. Index Page No. 1 & 2 all Document of S. No. 1 to 34(if applicable) and other required document must be enclosed otherwise concerned Tender will not be considered for Technical Evaluation.
7. All the material supplied should be new and no item can be supplied which is refurbished.

S.No.	Item with Full Specifications	Bikaker	Kota	Pali	Alwar	S. Madhopour	Sri Ganganagar	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
1	Computerised VCR four stroke Multi fuel water cooled Engine Test Rig 5 h.p. Multi fuel four stroke Variable Compression Ratio Engine with computer controlled including data acquisition system, pressure pickups, charge amplifier and pc system and can analyze all performance and	1	0	0	0	0	0	1	


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	combustion parameter								
2	Computerised Single Cylinder Four Stroke Diesel Engine Test Rig 5 hp Four Stroke Diesel Engine with Computer Controlled Including Data Acquisition System, Pressure Pick Ups, Charge Amplifier and Pc System	1	0	0	0	0	0	1	
3	Demo Board Of MPFI System	1	0	0	0	0	0	1	
4	EXHAUST GAS ANALYZER ( FIVE GAS) having capablity of measuring exhaust gases CO <sub>2</sub> , CO, HC, O <sub>2</sub> , and Nox , With RS 232 Cable Interface	1	0	0	0	0	0	1	
5	Anemometer Digital (BATTERY OPERATED) To measure air velocity , Battery operated	2	0	0	0	0	0	2	
6	Smoke meter With inbuilt calibration check, with LED Remote Control , With RPM and Oil Temperature facility. Measurement Range 0 to 10 FSN, Detection Limit 0.002 FSN or 0.02 Mg/m <sup>3</sup> , Resolution 0.001 FSN or 0.01 Mg/m <sup>3</sup>	1	0	0	0	0	0	1	
7	Equipment for heat transfer through composite wall	1	0	0	0	0	0	1	



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	Slab Material and Slab Size Cast Iron- 250 mm dia. & 20mm thick. Bakelite- 250 mm dia. & 15 mm thick Press Wood -250 mm dia. & 12 mm thick Heater -Nichrome wire Control panel Details PID Controller- 0-199.9° C Digital Temp. Indicator- 0-199.9° C, with multi-channel switch Temperature Sensors -RTD PT-100 type- 8Nos Energymeter- Digital type for power measurement								
8	Equipment for heat transfer in natural convection Test Section Diameter- 38 mm (approx) Length -500 mm (approx) Heater- Nichrome Wire Control panel Details PID Controller- 0-199.9° C Digital Temp. Indicator- 0-199.9°C, with multi-channel switch Temperature Sensors - RTD PT-100 type-8Nos Energymeter- Digital type for power measurement With standard make On/Off switch, Mains Indicator etc.	1	0	0	0	0	0	1	

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9	Emmisivity measuring apparatus Test plate Diameter -160 mm (approx.) Black Plate Dia. -160 mm (approx.) Heater (2Nos.) -Nichrome Wire Heater Control panel Details Digital Voltmeter- 0-300 Volt Digital Ammeter- 0-2 Amps DPDT Selector switches- For Digital Voltmeter & Digital Ammeter Variac- 0-230 V, 2 Amp, (2 Nos.) Digital Temp. Indicator - 0-199.9°C, with multi-channel Switch Temperature Sensors RTD PT-100 type-3Nos With standard make On/Off switch, Mains Indicator etc.	1	0	0	0	0	0	1	
10	Cut Off Machine Size 350mm approx, Bar Dia upto 65mm , Pipe Dia upto 130mm ,	2	0	0	0	0	0	2	
11	Buffing Machine	1	0	0	0	0	0	1	



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	Minimum spindle dia.=19 mm, mop size 2X150-200 mm dia. , motor 240v/1/50 minimum 0.75 kw, speed approximately=2800 RPM								
12	Lapping Machine Aluminium disc well dynamically balanced dia. Around 200 mm, 1 hp ac motor, and transmission by belt drive, and digital LED display of speed 100 to 1400 rpm, facility to provide for continuously variable through potentiometric knob, along with standard accessories	1	0	0	0	0	0	1	
13	CNC Lathe Machine Drive: Servo Motor 2 HP with VFD, Spindle speed 150 to 3000 RPM, Chuck Size 125 MM , Axes travel X Axis: 120 mm, Z axis: 280 mm.	1	0	0	0	0	0	1	
14	RAC Lab Air Conditioning Test Rig 1.5 tonnes refrigeration capacity, PC interface through RS232 port	1	0	0	0	0	0	1	
15	Vapour Compressor Computer Control Test Rig 1.5 tonnes refrigeration capacity, PC interface through RS232 port,	1	0	0	0	0	0	1	
16	Refrigeration Charging Kit Compact	1	0	0	0	0	0	1	