

COLLEGE OF ENGINEERING, CHENGANNUR, KERALA – 689 121.

(Managed by IHRD, A Govt. of Kerala undertaking)

Phone : 0479 – 2451424, 2454125

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No. D₂/515/2023

Dated: 23.12.23

SHORT TENDER NOTICE

Tender No. 02/2023-24, Purchase of Microwave test bench (X- band - Frequency
Range 8.2-12.4 GHz)

Last date and time for receipt of tender : 25.01.24, 1.00 pm
Date and time for opening of tender : 25.01.24, 3.00 pm
Price of tender form : Rs. 708/-
Price of Duplicate copy : Rs. 354/-
Address of Purchasing Officer from whom : The Principal
tender forms are to be obtained and to : College of Engineering, Chengannur
whom tenders are to be sent : Kerala 689 121
EMD : Rs. 1,003/-

Tender documents can be had from the Principal on payment of the prescribed cost at the counter in cash or by post (postage extra Rs. 35/- for one tender form) sending a DD for the amount payable at Chengannur in favour of the Principal, College of Engineering, Chengannur - 689 121. Details will be available in College website: <http://www.ceconline.edu>

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23/12/23

PRINCIPAL

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COLLEGE OF ENGINEERING
CHENGANNUR

Tender No. 02/2023-24, Purchase of Microwave test bench (X- band - Frequency Range 8.2-12.4 GHz)

Items	Specifications	Qty. (nos.)
Klystron Power Supply	Beam Supply: 240 - 420V D C variable, Current: 50 mA Repeller Supply: -18V to -270V DC variable Filament Supply: 6.3 VDC (adjustable on rear panel) Over-Load Trip Current: 65mA Modulation: AM (Square), FM (Saw-tooth) Provision for applying External Modulating Signal Digital display for Beam voltage, Beam Current & Repeller voltage Modulation Selector: FM/AM/CW/Ext Meter Selector: Beam Voltage (V)/ Current (I)/ Rep. (Repeller) Connectors: 5 Pin connector, & BNC for External Modulation Power Supply: 230 V AC \pm 10%, 50Hz	1
Microwave source	Reflex klystron (2K25)	2
Klystron mount	Waveguide WR-90, Flange UG-39/U,	
Ferrite Isolator	Min. Isolation 20 dB, Min. Insertion Loss 0.46 dB, Max. VSWR 1.15, Waveguide WR-90, Flange UG-39/U,	1
Variable attenuator	Attenuation: 0-20dB variable, VSWR Max. 1.25 At 10.5GHz, Avg. Power 2 W, Waveguide WR-90, Flange UG-39/U,	1
Frequency meter	Direct reading type, Waveguide WR-90, Flange UG-39/U Calibration Increment 5 Mhz, Max. VSWR 1.28 At 10.5GHz	2
Slotted section	Waveguide WR-90, Flange UG-39/U, Residual VSWR 1.01	1
Tunable probes	Detector diode -1N23, Output connector BNC(F), Type Tunable	2
Detector diodes	1N23	5
Waveguide detector mount	Waveguide WR-90, Flange UG-39/U Detector 1N23, Output Connector BNC (F)	1
Matched termination	Waveguide WR-90, Flange UG-39/U, VSWR 1.03 At 10.5GHz Return Loss -33dB at 10.5GHz, Av. Power 2W, Type Fixed	1
SS Tuner	Waveguide WR-90, Flange UG-39/U, Max. VSWR 20: 1.02	1
VSWR meter	Display: LCD Sensitivity: 0.1 μ V for 200 Ω input impedance Noise Level: Less than 0.02 μ V Range: 0 – 60dB in 10dB steps Display Select: SWR 1 – 9, dB 0 – 10 Modes: Normal, Audio Gain Control: Adjusts the reference level, variable range 0-10dB (approximately) Input Connector: BNC (F) Input Frequency: 1000Hz \pm 10% Power: 230 Volts AC \pm 10%, 50Hz 3 year warranty	1

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