

COLLEGE OF ENGINEERING, ADOOR, KERALA - 689 121.
(Managed by IHRD, A Govt. of Kerala undertaking)

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No. A3/2599/2018/CEA

Dated: 21.11.2018

TENDER NOTICE

Tender No. 01/2018-19, Purchase of Whirling of shaft apparatus , free and forced vibration setup for Mechanical Engineering Lab.

Last date of Sale	:	03.12.2018 at 12 PM
Last date and time for receipt of tender	:	03.12.2018 at 3 PM
Date and time for opening of tender	:	04.12.2018 at 2 PM
Price of tender form	:	Rs. 400/- + GST Rs. 72/- (18%)
Price of Duplicate copy	:	Rs. 200/- + GST Rs. 36/- (18%)
Address of Purchasing Officer from whom tender forms are to be obtained and to whom tenders are to be sent	:	The Principal College of Engineering, Adoor Kerala 691551
EMD	:	1% of amount quoted

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 Adoor in favour of the Principal, College of Engineering, Adoor - 691551. Details will be available in College website: www.ceadoor.ihrd.ac.in




Abhinav
PRINCIPAL
College of Engineering
Manakkala P.O, Adoor-691551

Tender No. 01/2018-19, Purchase of Whirling of shaft apparatus and free and forced vibration setup for Mechanical Engineering Lab.

SI No	Item	Specification	Qty
1	Whirling of shaft apparatus (Low cost version)	<ul style="list-style-type: none"> • Can be used to determine whirl frequencies • Two different diameter shafts of Stainless steel; specially designed lange with different diameter bearings are provided to easily change shafts. • Two rotors machined from Aluminum. • Specially designed flange with different diameter bearings are provided to easily change shafts and rotors. • 3 phase Motor with VFD for precision speed control. • Optical tachometer with Frequency indicator. • Shaft length can be varied by moving the bearing housing. • Detailed manual with video tutorial describing the complete operation. • Warranty : 2 years 	1 No.
2	Free and forced vibration setup (Low cost version)	<ul style="list-style-type: none"> • 6 Spring and mass system. • Upto 5 natural frequencies and mode shapes can be observed. • Mass and springs can be varied to study the features. • Tuned mass vibration experiment • DC motor with speed control using variable DC power source. • Damping studies using various oils (Viscous damping) • One tri-axial accelerometer. <p>Warranty : 2 years</p>	1 No.
*The above two systems should be equipped with the data acquisition system as below			
	Data acquisition system with PC interface and software for plotting and saving data. Doing Fast Fourier Transform, windowing, sampling rate selection, averaging etc. (Low cost version)	<ul style="list-style-type: none"> • 8 Analog Input (12- Bit, 10 kS/s), 2 Analog Output (5 kS/s/ch), 13 Digital I/O USB Multifunction I/O Device. It offers analog I/O, digital I/O and 32-bit counter. The USB-6000 provides basic functionality for applications such as simple data logging, portable measurements, and academic lab experiments. The device requires a lightweight mechanical enclosure and is bus powered for easy portability. Can easily connect sensors and signals to the USB-6001 with screw- terminal connectivity. <p>Warranty : 3 years</p>	1 No. Common for 1 & 2

1. Rate: Should be inclusive of all taxes and duties.
2. Delivery should be made at site College of Engineering, Adoor
3. Payment : 100% after successful testing
4. Security Deposit : 5% of the contract amount


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