Madhav Institute of Technology & Science, Gwalior – 474005

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)

Tender cost: Rs.1000/-

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TENDER DOCUMENT

For

ToM Lab- Part-1

(2020-2021)

General Terms and Conditions

 # Rates must be valid for a minimum of 8 months from the date of submission.
#Warranty period must be 12 Months (free of cost with hidden charges).
#Performance security 10% will be deducted at the time of payment, which will be released at the end of warranty period on satisfactory report of the equipment.
#Supply must be done within 30 days from the date of order.
#In case of unjustified delay, liquidity damages will be deducted @0.01% per day.
#Tender cost is Rs.1000/- which is to be deposited along with tender in the form of DD in favor of the Director, MITS Gwalior

1. Quotation,
   1.1 The contract shall be for the full quantity as described in the tender.
   1.2 Corrections, if any, shall be made by crossing out, initialing, dating and re-writing.
   1.3 All duties and other levies payable by the supplier under the contract shall be included in the unit price.
   1.4 Applicable taxes shall be quoted separately for all items.
   1.5 The prices quoted by the bidder shall be fixed for the duration of the contract and shall not be subjected to adjustment on any account.
   1.6 The Prices should be quoted in Indian Rupees only.
2. Each bidder shall submit only one quotation.
3. Evaluation of Quotations,
   The Purchaser will evaluate and compare the quotations determined to be substantially responsive i.e. which
   3.1 are properly signed and
   3.2 Conform to the terms and conditions, and specifications.
4. Award of contract:
   The Purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive and who has offered the lowest evaluated quotation price.
   4.1 Notwithstanding the above, the Purchaser reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of contract.
   4.2 The bidder whose bid is accepted will be notified of the award of contract by the Purchaser prior to expiration of the quotation validity period. The terms of the accepted offer shall be incorporated in the purchase order.
5. Payment shall be made in Indian Rupees as follows:
   Delivery, Installation, training and Satisfactory Acceptance - 90% of total cost.
   The performance security (10% of basic cost of order value) will have to be deducted from the payable amount and will be return at the end of warranty period on successful working of the equipment.
6. You are requested to provide your offer latest by **25/07/2020 at 14:00** hours**. The Technical bid of offers will be opened at 14:30PM on 25/07/2020. The commercial offer of technically eligible bidders will be opened at 15:00PM on 25/07/2020.**
7. All supplied items must be under warranty of 12 months with support and maintenance (free of cost) from the date of successful acceptance of items.
8. Information brochures/ Product catalogue, if any must be accompanied with the quotation clearly indicating the model quoted for.
9. The Vendors must enclose OEM certificate/authorized channel partner /authorized distributor/authorized dealer.
10. The vendor must submit the GST certificate and ITR of last three years.

11. Vendor must produce a certificate with his seal and sign on his letter head that he accepts all the terms and conditions in the invitation letter.
12. If items are not supplied within time line, penalty may be imposed on the supplier.
13. Training Clause: Seller has to arrange the training with course material(if required) at MITS, Gwalior without any extra payment
14. Testing/Installation Clause: Seller has to install the equipment successfully at MITS, Gwalior without any extra payment.
15. Sealed quotation to be submitted/ delivered at the address mentioned below:

    Director, Madhav Institute of Technology & Science,
    Gola Ka Mandir, Residency Road Gwalior-474005(M.P) India

16. Please Mention the following particulars on the top of the envelop:

i. Package Name- Theory of Machines Lab (MODROB) Part-1
ii. Last date of Submission –

18. The outer sealed envelope must specify the **PACKAGE NAME.** There must be two sealed envelope inside it. The first sealed envelope must be marked as **ENVELOPE - 1.** It must contain following documents:

- GST certificate
- ITR of last three years
- OEM certificate/authorized channel partner /authorized distributor/authorized dealer certificate
- Product catalogue
- Work experience in the same domain if any
- **EMD (Rs20,000) in the form of DD in favour of the Director, MITS Gwalior.**

The second sealed envelope must **contain only the financial bid** (marked as **ENVELOPE – 2).** The second envelope will only be opened when the committee finds the offer as technically suitable as per the terms and conditions.

19. The Institute reserve the right to cancel the tender without any notice.

DIRECTOR

It is certified that, the …… …….(Firm name), agree all the terms and conditions of the tender. We know that in case of any deviation from the terms and conditions our offer will be cancelled.

Vendor Name, Seal and Sign with Date

INVITATION FOR QUOTATION

Name of the Department: **Mechanical Engineering**

Name of the Project/Package: **Theory of Machines Lab (MODROB)- Part-1**

S N	Item name*	Qty	Make	Model	Unit Rate without GST	Total Price without GST	GST %	Total Price with GST
01	CAM ANALYISIS APPARATUS	1						
02	CORIOLLIS COMPONENT OF ACCELERATION APPARATUS WITH DIGITAL RPM INDICATOR	1						
03	SLIP & CREEP MEASUREMENT APPARATUS	1						
04	EPICYCLIC GEAR TRAIN APPARATUS	1						
05	UNIVERSAL GOVERNOR APPARATUS	1						
06	UNIVERSAL VIBRATION MACHINE APPRATUS (COMPUTERIZED)	1						
07	GYROSCOPIC SET-UP	1						
08	FLYWHEEL setup	1						
09	GEARS SET UP	1						
10	DIGITAL STROBOSCOPE	1						
11	Model Vibration exciter	1						
							GRAND TOTAL WITHOUT GST	
							GRAND TOTAL WITH GST	

Price must be inclusive of supply, installation, commissioning and training.
Detailed specifications are attached.

It is certified that, the …… …….(Firm name), agree all the terms and conditions of the tender. We know that in case of any deviation from the terms and conditions will cancel our offer.

Vendor Seal and Sign with Date

Name of the Department: **Mechanical Engineering**

Name of the Project/package: **Theory of Machines Lab (MODROB)-Part- 1**

S.No.	Name of the items	Specifications	Required Quantity
1.	CAM ANALYISIS APPARATUS	Stop Watch: Electronic Stop Watch. Cam Shaft : Material Stainless Steel Cams: Tangent, Eccentric, Circular Arc, hardened alloy-steel. Followers: Roller, Knife edge, Mushroom, hardened alloy- steel. Compression Spring, Weights : 1 kg., 500gm, 200 gm & 100gm Motor : Variable speed DC Motor with speed controller Dial Gauge : Baker & Mercer/Standard Make	1
2.	CORIOLLIS COMPONENT OF ACCELERATION APPARATUS WITH DIGITAL RPM INDICATOR	Water Tank: Stainless Steel Rotating Arms: 9mm/6mm orifice diameter, Length 300 mm. Rota meter: 250 to 2500 LPH. Electric Motor: Swinging field, Variable speed. Pump: FHP for water circulation. Control Panel Comprises of: RPM measurement: RPM Indicator with Proximity sensor. Speed Control Unit. Standard make On/Off Switch, Mains Indicator, etc.	1
3.	SLIP & CREEP MEASUREMENT APPARATUS	Motor: Variable speed motor, 1HP, 1500 RPM. Pulleys: Driving and driven pulleys of equal diameters (flat pulleys) Loading Arrangement: Brake drum along with spring balance and rope arrangement is required to load the system. Belts: Flat belts of fixed length of two different belt materials Belt tightening arrangement: Bearing block to slide and dead weight to provide tension in belt.	1
4	EPICYCLIC GEAR TRAIN APPARATUS	Internal Type Epicyclical Gear Train A Compact gear train (industrial) Motor: Variable speed motor,1 HP. RPM Measurement: Digital RPM Indicator with proximity switch. Speed Control Unit: Variable Speed Drive for varying the speed of motor. Rope brake arrangement to measure output torque and holding torque.	1
5	UNIVERSAL GOVERNOR APPARATUS	Spindle : Material Stainless Steel Governor Mechanism: Four different types of governor mechanism with spring and weights; Watt Governor, Porter Governor, Hartnell Governor, Proell Governor. Motor: Variable speed, Standard Make, FHP Motor. Control Panel: For speed control of motor.	1
6	UNIVERSAL VIBRATION MACHINE APPRATUS (COMPUTERIZED)	Exciter Unit: With FHP DC Motor with Speed Control Facility · RPM measurement: Digital RPM Indicator with Proximity sensor · Ordinary Chart recorder: For recording Frequency and Amplitude of Vibration. · Stop Watch: Electronic Stop Watch. It should be powder-coated rigid structure.	1
7	GYROSCOPIC SET-UP	Moving wheel, contact motor 1hp, 76cm dia rim with tyre	1
8	FLYWHEEL setup	Fly wheel, weight hanger, slotted weights, stop watch, metre scale	1
9	GEARS SET UP	Spur, Helical, Spiral, Worm and Bevel gears	1
10	DIGITAL STROBOSCOPE	Features: Digit 10mm LCD Display Ranges: H,M,L(High, Medium, Low) Flash Adjust: Coarse adjustment, Fine adjustment X2 and ÷2 for fast Check Triggering Mode: Interior/Exterior	1
11	Model Vibration exciter	Force rating-45 N, Sine peak, 60 N with aircooling, frequency range-10Hz to 2-kHz, 1st axial resonance, 20 kHz, Max. displacement- 8mm peak to peak, max. bare table acceleration- 736 m/sec2, 75 gm, 981 m/s2 with air cooling, robust rectilinear, optimal performance using power amplifier Shaker for various intensities of vibration and to study them.	1

It is certified that, the …… …….(Firm name), the technical specifications are exactly specified in the tender. We know that in case of any deviation, our offer will be cancelled at any stage.

Vendor Seal and Sign with Date