

**TENDER DOCUMENT
FOR
THE PROCUREMENT OF
MACHINERY & EQUIPMENT OF
MECHANICAL ENGINEERING**



Tender Sale Date From: September 27, 2017
Last Date and Time of Submission: October 28, 2017 upto 01.30 PM

**J.N. GOVT. ENGINEERING COLLEGE
SUNDERNAGAR, DISTT. MANDI, HIMACHAL PRADESH
Telephones: 01907-267199, 267688, 267632, Fax: 01907 - 266811
Website: www.jngec.ac.in**



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TENDER FOR
THE SUPPLY OF MACHINERY & EQUIPMENT OF MECHANICAL ENGINEERING
DEPARTMENT
(DYNAMICS OF MACHINES LAB. & FLUID MECHANICS LAB.)

BID REFERENCE : **JNGEC/STR/ME/02/2017**

LAST DATE AND TIME FOR RECEIPT OF BIDS : **October 28, 2017, at 01:30 PM**

TIME AND DATE OF OPENING OF BIDS : **October 28, 2017, at 02:30 PM (Technical Bid)**
November 01, 2017, at 02:30 PM (Financial Bid)

PLACE OF OPENING OF BIDS : **O/O Director/Principal,**
J. N. Govt. Engg. College, Sundernagar
Distt. Mandi (H.P.) Pin- 175018

ADDRESS FOR COMMUNICATION : **Director/Principal,**
J. N. Govt. Engg. College, Sundernagar
Distt. Mandi (H.P.) Pin- 175018

INVITATION FOR TENDER

Date : 27-09-2017
Tender No. : JNGEC/STR/ME/02/2017

Director/Principal, J.N. Govt. Engg. College, Sundernagar, Distt. Mandi (H.P.) Pin- 175018 invites sealed bids from eligible suppliers/distributors/authorized dealers for supply of machinery and equipments of Mechanical Engineering (Dynamics of Machines Lab. & Fluid Mechanics Lab.) listed below:

Sr. No.	Name & Specification	Earnest Money Deposit (EMD)	Performance Security
1.	Attachment at Annexure - "B"	3% (Three percent of price value quoted)	5% (Five percent of price value quoted)

- Interested eligible suppliers may obtain further information from and inspect the tendering documents at **J. N. Govt. Engg. College, Sundernagar, Distt. Mandi (H.P.) Pin- 175018** and also from college website i.e. **www.jngec.ac.in**.
- The tendering document may be obtained from the office of **Director / Principal, J. N. Govt. Engg. College, Sundernagar, Distt. Mandi (H.P.) Pin-175018**, during office hours namely, from 10.00 hrs to 17.00 hrs, on all working days either in person or by post on the submission of a written application to the above office and upon payment of a non-refundable fee as indicated below in the form of a Demand Draft from any nationalized bank in favor of **Director/Principal, J. N. Govt. Engg. College, Sundernagar, Distt. Mandi (H.P.) Pin-175018** payable at **Sundernagar**. The firms who have downloaded tender document from this institution website through internet are also requires to submit a demand draft of Rs. 1000/- non-refundable in favor of **Director/Principal, J. N. Govt. Engg. College, Sundernagar, Distt. Mandi (H.P.) Pin- 175018** payable at **Sundernagar**.
- The provisions in the instructions to suppliers and in the general conditions of contract are based on the provisions of the Standard Tendering Document - Procurement of Goods.
 - Price of bidding document (non-refundable) : (₹ 1000.00) (₹ One Thousand Only)
 - Postal charges, inland : (₹ 30.00) (₹ Thirty Only)
 - Last date and time for receipt of bid : October 28, 2017, at 01:30 PM
 - Time and date of opening of bids : October 28, 2017, at 02:30 PM (Technical Bid)
November 01, 2017, at 02:30 PM (Financial Bid)
 - Place of opening of bids : O/O Director/Principal, J. N. Govt. Engg. College Sundernagar, Distt. Mandi (H.P.)
 - Address for Communication : Director/Principal, J. N. Govt. Engg. College Sundernagar, Distt. Mandi (H.P.)

4. All bids must be accompanied by a bid security as specified in the bid document and must be delivered to the above office at the date and time indicated above, failing which tender / bid will not be considered. The envelope must superscribed on the top as **“Tender for Equipments of Mechanical Engineering Department (Dynamics of Machines Lab. & Fluid Mechanics Lab)”**.
5. The main cover (sealed) should contain two sealed envelopes. The one of the envelopes - **Sealed Envelope No.-1** (superscribed on the envelope in **top as -“Technical Bid”**) should contain documents: (i) **Printed Brochure/Literature**, (ii) **Income Tax Returns (Income Tax Returns of Assessment Years 2017-18, 2016-17, 2015-16)/Balance Sheets of last three years (duly authenticated by the representative of the supplier/bidder with seal of the firm/notary)**, (iii) **Certificate of Registration of the firm**, (iv) **GST Number Document** (v) **Authorization Certificates (if any)**, (vi) **PAN Number** (vii) **Price of Bidding Document (₹ 1000.00) in the form of demand draft (if tender is downloaded from the website of institute), in case, if tender is purchased from counter of main office of J.N.Govt. Engg. College, Sundernagar, Distt. Mandi (H.P.) then bidders has to attach the photocopy of the receipt**, (viii) **Annexure-A (General Information Form)**. All the documents placed in Technical Bid shall be properly stamped with the seal of the firm and shall have the signature of the bidder/representative of the bidder. **The Sealed Second Envelope No.-2** (superscribed on the envelope in **top as -“Financial Bid”**) should contain documents: (i) **Earnest Money**, (ii) **rate quoted for various equipments on prescribed format (Annexure B)**. The mode of the payment of earnest money should be in the **shape of Demand Draft or FDR for a period of one year pledged in favour of Director/Principal, J.N.Govt. Engg. College, Sundernagar, Distt. Mandi (H.P.)-175018**. Both the above mentioned envelopes should be placed in a single envelope. **Please mention on top of the main envelope as “Tender for Equipments of Mechanical Engineering Department (Dynamics of Machines Lab. & Fluid Mechanics Lab)”**. The single offer without complete documents (Technical and other documents) will be straight away rejected. **Financial Bid of only those bidders will be opened who are found technically eligible. The financial bid that is not technically eligible will not be opened. The financial bid of such bidder will be returned back unopened after a week time. The price quoted will be valid for six months from the date of sale of tender document.**
6. **The rates for the machinery and equipment (in envelope no. 2 i.e. financial bid) for lab. is to be quoted as per the attached format only. The bidders are also required to mention GST clearly.** If any supplier wishes to offer any kind of discount, it should be included in the unit price of the equipment. The suppliers will have to provide transportation of equipment's to the specified labs within the bid cost. Rate quoted should include the all charges like transportation, installation, training, carriage to lab. where equipment have to be installed or other type of charges (if any).
7. The original catalogue/Printed Brochure/Literature of products shall be attached and should be placed in Sealed Envelope No.-1 as mentioned above.
8. Tenders will be opened in the presence of suppliers or their representatives, who choose to attend on the specified date and time. Bids not having the relevant documents as listed above will be rejected out rightly. It will be presumed that such suppliers have just quoted the rates and are not in position to supply the same. No intimation in this regard will be sent to the supplier/ manufacturers.

9. In the event of the date specified for bid receipt and opening being declared as a closed holiday, the due date for submission of bids and opening of bids will be the following working day at the appointed times.
10. The Director/Principal, reserves the right to cancel the tender without assigning the reason thereof.
11. The conditional tenders/ incomplete tender/ tender without earnest money/without tender cost or tenders received after due date will be summarily rejected.
12. The discount should not be quoted separately. If any supplier wishes to offer any discount, he should include the same in the price of the machinery/equipment offered by him.
13. Authorized dealers of manufacturers can also apply for tender. Such bidders are required to submit the authorization certificate issued by the manufacturers.

INSTRUCTIONS

1. Clarification of Bidding Documents

- 1.1 A prospective bidder requiring any clarification of the bidding documents may notify the purchaser in writing or by telex or cable or fax at the purchaser mailing address indicated in the Invitation for Bids. The purchaser will respond in writing to any request for clarification of the bidding documents which it receives not later than 15 days prior to the dead line for submission of tenders prescribed by the purchaser. Written copies of the purchaser's response (including an explanation of query but without identifying the source of inquiry) will be sent to all prospective bidders which have received the bidding documents by main office of J.N. Govt. Engg. College Sundernagar or by post.

2. Amendment of Bidding Documents

- 2.1 At any time prior to the deadline for submission of bids, the purchaser may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder, modify the bidding documents by amendment.
- 2.2 All prospective bidders who have received the bidding documents will be notified of the amendment in writing or by cable or by fax, and will be binding on them.
- 2.3 In order to allow prospective bidders reasonable time in which to take the amendment into account in preparing their bids, the purchaser, at its discretion, may extend the deadline for the submission of bids.

3. Bid Prices

- 3.1 The bidder shall indicate on the price schedule the unit price and total bid prices of the goods it proposes to supply under the contract.
Prices of machinery and equipment are to be submitted as per the format and should include the price of machinery and equipments. **The price quoted will be valid for six months from the date of sale of tender document.**

Besides this the supplier/manufacturers are also required to list out the GST (%age and amount) to be included in the price of the equipment.

4. Late Bids

4.1 Any bid received by the purchaser after the deadline for submission of bids prescribed by the purchaser will be rejected and/or returned unopened to the supplier.

5. Modification and Withdrawal of Bids

5.1 No bid tender may be modified subsequent to the deadline for submission of tender.

6. Opening of Tender by the Purchaser

6.1 The purchaser will open all technical bids, in the presence of suppliers'/representatives who choose to be present at J.N.Govt. Engg. College, Sundernagar, Distt. Mandi (H.P.) **on 28/10/2017 at 02.30 PM.** The supplier's representatives, who are present on the date of opening of tender, will have to sign as an evidence of their attendance. In the event of the specified date of bid opening being declared a holiday for the purchaser, the bids shall be opened at the appointed time and location on the next working day.

6.2 The purchaser will open the financial bids of the bidders who qualify technically (after evaluation of technical bids), in the presence of suppliers' representatives who choose to be present at J.N.Govt. Engg. College, Sundernagar, Distt. Mandi (H.P.) **on 01/11/2017 at 02.30 PM.**

6.3 The Suppliers' Names, tenders modifications or withdrawals, tenders prices, and the presence or absence of requisite bid security and such other details as the Purchaser, at its discretion, may consider appropriate, will be announced on the respective dates and time of opening of the bids. The late bids shall be returned unopened to the bidder after completion of the process.

6.4 Tender not opened shall not be considered for evaluation, irrespective of the circumstances.

7. Transportation

7.1 The supplier is required under the contract to transport the machinery to the specified place of destination within Institute and at the specified lab. The transportation to such place of destination at J.N.Govt. Engg. College, Sundernagar, Distt. Mandi (H.P.) will include insurance and shall be arranged by the supplier and the related cost shall be included in the contract price. It will be sole responsibility of supplier to install the machinery at the specified place in the lab., failing which, no payment will be released. The supplier/manufacturers will also have to provide proper demonstration and training to the faculty along with properly drafted lab manuals beside machinery operation and maintenance manuals.

8. Warranty

8.1 The warranty period shall be **36 months** from the date of acceptance of the Goods (after successful installation subsequent to inspection) or **39 months** from the date of supply, whichever occurs earlier. No separate cost in this regard has to be quoted and warranty cost (if any) should be included in the equipment cost. The supplier shall, in addition, comply with the performance guarantees specified under the contract. If, for reasons attributable to the supplier, these guarantees are not attained in whole or in part, the supplier shall, make such changes, modifications, and/or additions to the Goods or any part thereof as may be necessary in order to attain the contractual guarantees specified in the contract at its own cost and expense and to carry out further performance tests in accordance.

Important: In the event of any correction of defects or replacement of defective material during the warranty period, **the warranty for the corrected/replaced material shall be extended** to a further period of 36 months.

8.2 Goods should be **FOR J.N. Govt. Engg. College, Sundernagar, Distt. Mandi (H.P.).**

9. Payment

- 9.1 The method and conditions of payment to be made to the supplier under this contract shall be specified.
- 9.2 The supplier's request(s) for payment shall be made to the purchaser in writing, accompanied by an invoice describing, as appropriate, the Goods delivered and the services performed, and by documents, submitted pursuant to Clause, and upon fulfillment of other obligations stipulated in the contract.

10. Jurisdiction

- 10.1 All the legal dispute will be settled within the jurisdiction of Sundernagar, Himachal Pradesh Only.

11. Performance Security

- 11.1 Within 21 days of receipt of the notification of contract award, the supplier shall furnish performance security to the purchaser for an amount of 5% of the contract value excluding annual maintenance cost, valid upto three years (3 years) after the date of completion of performance obligations including warranty obligations. The proceeds of the 5% performance security shall be payable to the purchaser as compensation for any loss resulting from the supplier's failure to complete its obligations under the contract. The 5% performance security shall be denominated in Indian Rupees and shall be in form of FDR for a period of three years (03 years) **Pledged in the Name of Director/Principal, J. N. Govt. Engg. College Sundernagar, Distt. Mandi (H.P.)** The 5% performance security will be discharged by the purchaser and returned to the supplier not later than 30 days following the date of completion of the supplier's performance obligations, including any warranty obligations under the contract.

12. The bidders are required to fill the Annexure-A (General Information Form). The filled Annexure-A is to be placed in the technical bid.

Please fill this annexure positively

**Annexure-A
General Information Form**

1.	Date of Application	
2.	Name of the Firm	
3.	Address of the Firm	
4.	GST Registration Number	
5.	PAN Number	
6.	Whether Manufacturer/ Authorized Dealer	
7.	Certificate of Authorization (in Case of Dealer)	Attached as Page Number_____ of Technical Bid.
8.	Name and Address of Manufacturer (In case you are a dealer)	
9.	Name and Address of the service centre or the authorized agency that will provide warranty services on your behalf	
10.	Tender Fee Receipt/DD No. with Issuing Bank & Branch	
	Tender Fee Receipt/DD Date	
11.	EMD DD No. /Pledged FDR No.	
	Name of Bank	
	Branch	
	Date of Issuing (Demand Draft/FDR)	
12.	Original Catalogue/Printed Brochure/Literature	Attached as Page Numbers from_____ to _____ of Technical Bid.
13.	Income Tax Returns/Balance Sheets	Attached as Page Numbers from_____ to _____ of Technical Bid.
14.	Any other documents (if any)	

Note: No supplier/bidder shall quote the value of amount of EMD in General Information Form (i.e. Annexure-A).

(Signature with **Name** and **Seal**)

Annexure-B

Sr. No.	Name of Item with Specifications	Cost/Unit (Rs.) (Without Taxes)	Taxes to be Included (Also Indicate %)			Total Cost/Unit (Rs.) (Alongwith Taxes)	Qty. Required	GRAND TOTAL COST (Rs.)
			CGST	SGST	Other Taxes (If any)			
1.	<p>Universal Governor Apparatus Material for Spindle: Stainless Steel, Governor Mechanism: Four different types of governor mechanism with spring and weights: Watt Governor, Porter Governor, Hartnell Governor, Proell Governor, Digital RPM Indicator with proximity sensor, Variable Speed DC Motor, RPM: 0-700 (approx.), with thyristor controlled D.C. Drive for variable speed, Control Panel: for speed control of motor. An ENGLISH instruction manual need to be provided along with the apparatus. A Technical manual showing a) Electrical circuit, b) Schematic Diagram, c) Actual Photograph, d) Sample Calculations with Detailed Procedure, and e) Precautions. The whole set-up is well designed and arranged on a rigid structure painted with industrial PU Paint.</p>					01		
2.	<p>Motorized Gyroscope Disc: Material is Stainless Steel, Diameter: 300mm, Thickness: 10mm, Precisely balanced which can be rotated in 3 mutually perpendicular axis, Digital RPM Indicator with proximity sensor, Variable Speed DC Motor, with thyristor controlled D.C. Drive for variable speed, Supplied with speed control unit, weights: 500gm, 1kg, 2kg, Electronic Stopwatch, A Technical manual showing a) Electrical circuit, b) Schematic Diagram, c) Actual Photograph, d) Sample Calculations with Detailed Procedure, and e) Precautions. The whole set-up is well designed and arranged on a rigid structure painted with</p>					01		

	industrial PU Paint.							
3.	<p>Static and Dynamic Balancing Apparatus Drive Motor: FHP Motor, Variable speed with speed controller, Balancing Weight: 4 Nos. of stainless steel with different sized eccentric mass for varying unbalance, Rotating Shaft Material: Stainless Steel. A Technical manual showing a) Electrical circuit, b) Schematic Diagram, c) Actual Photograph, d) Sample Calculations with Detailed Procedure, and e) Precautions. The whole set-up is well designed and arranged on a rigid structure painted with industrial PU Paint.</p>						01	
4.	<p>Surge Apparatus Test Section: Material Stainless Steel, Size: 20 mm ID (approx.), Length: 3m (approx.), Surge Shaft: Material Clear Acrylic, Size: 40mm ID (approx.), Height: 800mm (approx.) with graduated scale. Water Circulation: Centrifugal Pump, Flow Measurement: Flow Sensor Output 4-20 mA, Constant Head Tank: Material Stainless Steel (Suitable Capacity), Sump Tank: Material Stainless Steel (Suitable Capacity). Pressure Measurement: Pressure Sensor 0-7 Bar, output 4-20 mA (For Water Hammer) Level Measurement: Level sensor, output 4-20mA (For Pipe Surge) Control Panel consists of: Standard make On/Off Switch, Mains Indicator, etc. An ENGLISH instruction manual need to be provided along with the apparatus. The whole set-up is well designed and arranged on a rigid structure painted with industrial PU Paint.</p>						01	
5.	<p>Wind Tunnel Test Rig (With Data Logging Facility) Scope of Experiment</p> <ul style="list-style-type: none"> • To plot speed curve for wind tunnel. • To study pressure distribution around aerofoil, cylinder etc. 						01	

<ul style="list-style-type: none"> • To study the development of boundary layer along a body in tunnel. • To measure lift and drag force on aerofoil model etc. <p>Variable Speed: 3HP motor with speed controller, Type: Bell Mouthed Entry Open Type Wind Tunnel consists of inlet section with honeycomb (L/D= 9:1 Ratio) and stainless steel wire mesh with suitable size and suitable locations, Test Section: 300 x 300 x 1000mm, Contraction Ratio-9:1, Axial Fan: Compatible Capacity (3HP) with suitable number Aluminium Die-casted blades with adjustable vane angle, Fan Duct, 3HP AC Motor with Speed Controller, Air Velocity: Maximum 30m/s (in test section), Force Indicator: For lift and drag force, Pressure Measurement: Pressure Sensors (10Nos.) on the body and extra pressure sensors to cover scope of experiments (mentioned above), Velocity Measurement: By Differential Pressure Transmitter with Pitot Static Tube/Micro-Pitot Tube/Hot wire Anemometer for boundary layer</p> <p>Educational software environment: Labview based software which can have facility of data logging, printing the stored data, preparing sheets, Desktop with latest configuration, data acquisition device/card.</p> <p>Desktop Configuration</p> <p>Operating system: Windows 7 or Higher Memory: 4GB or Higher, Hard drive: 500GB or Higher. LCD Display: 15.0 inch or Higher, Keyboard: Standard keyboard-International English.</p> <p>USB Slots, Tray load DVD RW drive,</p>						
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	Microsoft application software: Microsoft® Office. Security software: Antivirus with atleast 15-month subscription. An ENGLISH instruction manual need to be provided with all calculations/graphs covering all scope of experiments along with the apparatus. The whole set-up is well designed and arranged on a rigid structure painted with industrial PU Paint.							
	<u>COST (In Figures)</u>					---		

Note: In context of taxes paid other than GST, the supplier/bidder shall submit the details of taxes paid and quoted in bid during the time of installation.

Total Cost (In Words):

Detail of Taxes **to be included in Unit Price**

	Description of Tax	%	Amount (Rs.)
1.			
2.			

Authorized Signature with Seal