

Office of the Principal, Rewa Engineering College, Rewa (MP)

(Declared Autonomous by the Govt. of M.P.)



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TENDER DOCUMENT (Second Invitation)

E-Tender Document for the Computerized Wind Tunnel Test Rig for HMT Lab of Mechanical Engineering Department through single stage on-line two bid system (separate technical & financial bid) in Rewa Engineering College, Rewa.

Tender Number	NO./RECR/Tender/Lab Equipment/2024/612
Publishing Date	04/03/2024, Time 10:00 AM
Document download/Sale Start Date	04/03/2024, Time 12:00 PM
Bid Submission Start Date	04/03/2024, Time 01:00 PM
Bid Submission End Date	26/03/2024, Time 05:00 PM
Bid Opening Date	28/03/2024, Time 11:00 AM
Place of Opening of Tender	Principal Office Rewa Engineering College, Rewa
Cost of Tender Document	Rs. 1000=00 (Online submission through e-procurement portal)
EMD (3% of total bid estimated cost) (Fee cover) or exemption MSME certificate of M.P. State	Rupees 30000=00 (Rs Thirty Thousand Rupees only) deposited online (through e-tendering portal)
Bid Security & Performance guarantee (3% of total bid estimated cost)	Rupees 30000=00 (Rs Thirty Thousand Rupees only) deposited by online (through e-tendering portal) or Demand draft in favour of Principal, Rewa Engineering College, Rewa (M.P.)
Quantity & estimated cost of Computerized Wind Tunnel Test Rig	1 Nos, Rs 1000000=00 (Rs Ten lakh Rupees Only)
Total Amount of Bid	Rs 1000000=00 (Rs Ten lakh Rupees Only)

Tender bids are invited by Rewa Engineering College Rewa (MP) from the reputed OEM/Bidders for the supply of Computerized Wind Tunnel Test Rig for HMT Lab of Mechanical Engineering Department.

Part-I: EMD Requirements (mandatory submission)

(1) Rupees 30000=00 (Rs Thirty Thousand Rupees only) to be submitted on-line on MP e-tender portal in favour of Principal, Rewa Engineering College, Rewa (M.P.). On-line generated receipt should be submitted (online and offline). Bank Guarantee will not be accepted towards EMD.

(2) Micro small and medium enterprises (MSME) and start-ups registered in Madhya Pradesh with the National Small Industries Corporation (NSIC), MSEs can be exempted for submission of EMD only if they submit valid Permanent Enlistment Certificate for EMD exemption from NSIC, MSE for the quoted/similar/comparative item and type of business only as per MP Stores & Purchase Rules 2015 (as amended, 2022).

(3) Only OEM (Original equipment manufacturer) which are registered in M.P., are eligible for exemption from EMD.

(4) The technical bid without EMD will be rejected.

(5) EMD of the bidders who are not qualified during the technical evaluation, will be refunded without any interest on-line by the MP e-tender portal.

(6) After financial evaluation, EMD of L1 bidder will be retained with Purchaser, whereas EMD of remaining bidders will be refunded without any interest on-line by the MP e-tender portal.

Part-2: Technical Bid (Technical Tender form)

The technical bid documents should be submitted through on-line mode on www.mptenders.gov.in. However, the technical bid documents can also be submitted physically at office address for ease of documentation.

Required Technical Specification

S.N.	Specification	Value
1	Type of Tunnel	Low speed, open circuit, suction type, having $\geq 300 \times 300 \times 1000$ mm (test section size) with transparent windows. It should be open from two sides.
2	Air velocity	Air Velocity Range Min. 5 Up to 30 m/s (In the test section) to be provided.
3	Drive	Variable frequency drive (Should be On/Off with the help of computer signal)
4	Contraction Ratio	9 : 1
5	Material of construction of the Wind tunnel	Made of Stainless steel 304 grade
6	Fan unit	Axial flow 5 Blades on axial blow fan, Made of Metal/PAG and rigid MS support/frame. Controlled by computer signal (Silencer to be provided after the axial fan), Dynamically Balanced fan impeller to be provided (Make and model of the fan to be mentioned in the technical bid) Motor A.C. 3 phases 440 Volt, 50 Hz with neutral and earth.
7	Tunnel balance	2 component (lift Force and drag force) strain Gauge based balance with Digital indicator
8	Control panel	Independent control panel consisting of digital lift drag Indicator Digital speed indicator & motor control drive.
9	Wind tunnel screen	03 Numbers, Made of Stainless Steel 304 grade Honeycomb grid Square L/D=8 for flow straightening Diffuser The diffuser having a maximum of 7 degree angle to prevent flow separation will be provided.



10	Flow Characteristics	Free stream turbulence intensity less than 0.5%, Flow angularity in the test section will be less than 20, Mean Flow Velocity Variation will not exceed 0.75%(Major requirement of this set up (Previous Experience of the same should be attached along with the purchase order).
11	Pressure measurement	a) Aerofoil 02 No's pressure distribution measurement b) Cylinder for pressure measurement c) Instruments Pitot static tube with highly accurate differential pressure transmitter of reputed makes like honey wheel, semen's etc. d) Two axis Load Cell to be provided with digital display, 9 tube manometer to be provided with digital display having size 0-250mm water column.
12	Data acquisition system	NI based Lab view software Speed control by software only
13	Desk top (1 Nos)	13th Gen. Intel core i5 or above, windows 10/11 home, NVIDIA integrated graphics card 1 GB or above , 16 GB RAM DD4 or above 512 GB NVMe SSD or above , one TB hard disk Monitor 21 inch or above (UHD) Keyboard, mouse, speaker & other Accessories Wifi inbuilt, Bluetooth Top five international brand of product are desirable
14	Colour printer all in one (Ink Tank)	Print A4 colour smart tank all in one (Print, Copy, Scan) Print speed colour -10 ppm to 20 ppm Print speed black-20 ppm to 30 ppm Print resolution-5760x1440 dpi or above Scan resolution- 1200x2400 dpi or above Wifi, Bluetooth Top five international brand of product are desirable
15	Equipment and simulation drawing	a) Equipment drawing should be printed on Sun board sheet having size (4feet x4 feet) to hang on the wall. b) The working drawing of the quoted instruments and simulation sheet to be attached
16	ISO 9001:2015 ISO 45001:2015 ISO 14001:2015	Valid certificates to be uploaded.

(2) Eligibility, Terms and conditions of tender

It is mandatory for the bidder to enclose the currently valid certified copies of the following documents along with the bid. In the event shortfall of any document, the bid shall not be considered for evaluation.

(2.1) Buyer added terms and conditions

S.N.	Description	Documents required to be uploaded
1	Bid participation by OEM/bidder	Covering letter of the participating OEM/bidder
2	Tender Fee paid by OEM/bidder	Receipt of Tender Fee paid on-line
3	EMD paid by OEM/bidder	Receipt of EMD paid on-line
4	Proof of ITR return	The OEM/ Bidder must submit ITR in name of organisation /firm for last three financial years i.e. 20-21,21-22,22-23.
5	Minimum three supply Order copies with total value in last three years having at least 60% of the bid estimated value	Work order should be from Central Government/State Government sector/Government Undertaking.
6	Average Annual turnover of the bidder	Minimum 60 % of the bid estimated value for last three financial years (2022-2023,2021-2022, 2020-2021) / CA certificate to be uploaded
7	Average Annual turnover of the OEM	Minimum 100 % of the bid estimated value for last three financial years (2022-2023,2021-2022, 2020-2021) / CA certificate to be uploaded
8	The Bidder/OEM PAN registration.	Self-certified copies to be uploaded.
9	The Bidder/OEM GST registration.	Self-certified copies to be uploaded.
10	MSME Registration	Preferably MSME registration in M.P.
11	The Bidder/OEM should not be blacklisted by any Government/PSU during last 03 years where they have supplied any material/products.	Affidavit on non-judicial stamp of Rs.100/- to be submitted.
12	The applicant company should be profit making company during last 2 years.	Self certified copies to be attached.
13	Toll free number for after sales service/complaint resolution.	Undertaking on letterhead by OEM/Manufacturer with required

		details duly signed & sealed.
14	Escalation method in case of complaint not resolved or delay.	Undertaking on letterhead by OEM/Manufacturer with complete hierarchy, contact details & email id duly signed & sealed.
15	The Bidder/OEM should be in India market since last 3 years.	Self-certified copies to be uploaded
16	The applicant company should have their own manufacturing unit of Equipments.	List of equipment manufacturing machinery to be attached along with photograph & Third party feasibility report of manufacturing machinery installed in your plant.
17	1 year comprehensive warrantee on all products.	Undertaking on letterhead by OEM/Manufacturer duly signed & sealed.

(2.2) Additional Terms and conditions

- (a) EMD (3% of the total bid estimated cost or 30000/- Thirty Thousand rupees only) must be deposited online (through MP E-tender portal: www.mptenders.gov.in) in favour of principal, Rewa Engineering College, Rewa (MP). Under MSME category, only OEM (MSME certificate of MP) are eligible for exemption from EMD.
- (b) EMD of the bidders who are not qualified during the technical evaluation, will be refunded without any interest on-line by the MP e-tender portal.
- (c) The selected bidder/OEM has to furnish security deposit/performance guarantee in the form of DD/Bank Guarantee valid for 14 months from the date of award of contract for an amount of 3% of total bid estimated cost or 30000/- (Thirty Thousand rupees only) whichever is higher. The security deposit/performance guarantee shall be submitted within 21 days from the date of notification of Award. The earnest money shall be retimed only after the Performance security is submitted by the Contracting Agency.
- (d) Data- sheet/ Catalogue/ brochure of the product offered in the bid are to be uploaded along with bid documents in support of Item Specifications. Buyers can match and verify data sheet / Catalogue with the product specification offered. In case of any unexplained mis-match of technical parameters, the bid is liable for rejection.
- (e) The firm has to submit an undertaking that all terms and conditions are acceptable to the firm.
- (f) The agency will be responsible for any pilferage/damage due to rain and other reason during carriage of material and no claim on account of this shall be entertained.
- (g) Free delivery at site including loading /unloading. In respect of items requiring installation and / or commissioning, training and other services in the scope of supply and the cost of the same is also included in contract price.
- (h) Contract prices are all inclusive i.e. including all taxes, duties, local levies / transportation / loading – unloading charges etc.

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- (i) Delivery of goods should be completed within 60 days from the date of purchase order. Any modification, if any, there shall be mutually agreed. If the seller fails to deliver any or all the goods as per terms & conditions in the bid document, the buyer will be entitled to deduct the liquidated damage for the delay @ 0.5 % per week or part of the week of delayed period as per estimated damage not more than 10 % of the contract price.
- (j) The Bid shall remain valid for a period not less than 90 days after the deadline fixed for submission of Bids.
- (k) Bidder's / OEM offer is liable to be rejected if they don't upload any of the certificates/ documents sought in the bid document and corrigendum if any.
- (l) Any dispute arising out of this bid or supply of any other matter will fall under jurisdiction of Madhya Pradesh only.
- (m) The buyer reserves the rights for any change/cancellation /rejection of any part or whole bid, without assigning any reason what so ever.
- (n) The Bidder's / OEM has to submit hard/soft copies of all the relevant documents before the last date of bidding.

Part-3: Financial Bid (Price bid)

Financial Bid to be submitted online at www.mptenders.gov.in. The financial bid shall be submitted in the enclosed format (BOQ) only online through MP e-tender website. No financial information should be submitted at any time in-print mode during the tender process. Any such instance occurring will make the rejection of bid.

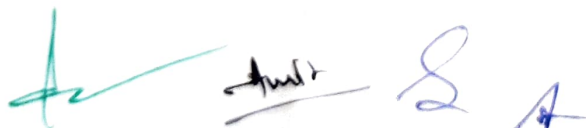
(3.1) Bid price shall be considered as itemized unit price inclusive of all taxes, and service charges, including installation and training to staff, manual, etc. along with three years onsite warranty period. The format of the price bid is enclosed with the document. (Bid Price = Itemised unit price + All taxes + Service charges + Manuals + Transportation + Installation and Onsite training to staff + Three years onsite warranty + Any other hidden cost)

(3.2) All duties, taxes, and other levies payable by the contractor (the bidder) under the contract shall be included in the total price.

(3.3) The prices should be quoted in Indian Rupees, inclusive of taxes, service charges etc.

(3.4) The final bidder will be decided based on the Total lowest price.

(3.5) Format of financial bid (BOQ)

The image shows four handwritten signatures in blue ink, arranged horizontally. The first signature is a stylized 'A' with a long horizontal stroke. The second is a cursive signature that appears to be 'Anil'. The third is a large, bold 'S'. The fourth is a simple 'A'.

Validate

Print

Help

Item Rate BoQ

Tender Inviting Authority:

Name of Work:

Contract No:

Name of the Bidder/ Bidding Firm / Company :	
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PRICE SCHEDULE

(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)

NUMBER #	TEXT #	NUMBER #	TEXT #	NUMBER #	NUMBER #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	GST (Enter GST amount In RUPEES)	TOTAL AMOUNT Without Taxes	TOTAL AMOUNT With Taxes	TOTAL AMOUNT In Words
1	2	4	5	13	14	53	54	55
1	Name of Equipment							
1.01	Computerized Wind Tunnel Test Rig	1.000	Nos			0.000	0.000	INR Zero Only
Total In Figures						0.000	0.000	INR Zero Only
Quoted Rate in Words						INR Zero Only		

[Handwritten signatures and initials in green and blue ink]


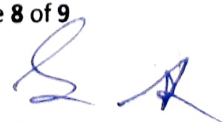
Part-4: Check List of Attested Copies of Documents

All documents are compulsory to be submitted with the Bid. Failing with the bid will be considered as non-responsive.

S. No.	Description	Yes	No	Page No.	Remark
1	Covering letter of the participating OEM/bidder				
2	Receipt of Tender Fee paid on-line				
3	Receipt of EMD paid on-line				
4	Technical specifications compliance sheet with product specifications brochure/catalogue in support of Computerized Wind Tunnel Test Rig.				
5	Income Tax Return in name of Bidder/OEM for last three financial years i.e. 20-21, 21-22, 22-23.				
6	Work orders (minimum three) from Central Government/State Government sector/Government Undertaking.				
7	Signed and sealed CA certificate of average annual turnover of bidder of minimum 60 % of the bid estimated value for last three financial years (2022-2023, 2021-2022, 2020-2021)				
8	Signed and sealed CA certificate of average annual turnover of OEM of minimum 100 % of the bid estimated value for last three financial years (2022-2023, 2021-2022, 2020-2021)				
9	PAN registration certificate of bidder/ OEM				
10	GST registration certificate of bidder/ OEM				
11	MSME registration (MP) certificate.				
12	Affidavit on non-judicial stamp of Rs.100/- regarding Bidder/OEM is not blacklisted by any Government/PSU during last 03 years from the date of submission of the bid.				
13	Declaration certificate that company is profit making company during last 2 years.				
14	Toll free number for after sales service/complaint resolution.				
15	Undertaking on letter head for escalation method in case of complaint not resolved or delay.				
16	Self-certified copy that Bidder/OEM is in India market since last 03 years.				
17	List of plant and machinery to be attached along with photograph & Third party feasibility report of machinery installed in factory & undertaking on letterhead that the given machinery are installed in your factory.				
18	01 year warranty undertaking on letterhead by OEM/Manufacturer duly signed & sealed.				
19	Valid certificates of ISO 9001:2015, ISO 45001:2015, ISO 14001:2015				
20	Copy of EFT Mandate duly certified by Bank.				
21	Signed and put company seal on each page of bid				

The terms and conditions as mentioned in the tender are acceptable to us

Seal & Signature of the OEM/Bidder

Part-5: Validity of bid

(5.1) The Bid shall remain valid for a period not less than 90 days after the deadline fixed for submission of Bids.

Part-6: Evaluation of Technical Bid

(6.1) The technical aspects and commercial terms of the documents submitted as part of the technical bids shall be scrutinized by a technical committee constituted by the institute.

(6.2) The technical committee will also verify the veracity of claims in respect of the known performance of the product offered, the experience and reputation of Bidder in the field, the financial solvency etc.

(6.3) The decisions of the technical committee on whether the tenders are responsive or nonresponsive or requiring clarifications will be intimated to respective bidders.

Part-7: Evaluation of Financial Bid

(7.1) The financial bids of the technically qualified Bidder(s) will be opened online after completion of evaluation of technical bids.

(7.2) The opening of the financial bid shall be done online by institute by a committee constituted for this purpose.

(7.3) Bidder shall refer to the financial bid format (BOQ) included in this tender document and quote the financials in the respective fields and to be submitted online.

(7.4) Financial bid offered shall be all inclusive, and with option for quoting in INR.

(7.5) Financials quoted by the Bidder shall be fixed during the period of the contract and not subject to variation on any account.



(7.6) Financial variation due to statutory changes including CGST, SGST, IGST & customs duty will be accepted during the running contract period before releasing the Purchase Order on receipt of proper documents.

Part-8: Award of Contract

(8.1) The Indenter may award the contract to the bidder whose Bid has been determined to be substantially responsive and who has offered the lowest price but mere lowest price will not confer any right for awarding the contract.

(8.2) The Indenter reserves the right to accept or reject any one or all Bids and to cancel the bidding process and reject all Bids at any time prior to the award of the contract.

(8.3) The indenter reserves the right to cancel the contract any time without assigning any reason.


Principal

Rewa Engineering College, Rewa, (MP)

Award
