

INDIRA GANDHI ENGINEERING COLLEGE **SAGAR, MADHYA PRADESH**

(Near Makroniya Railway Station, Jabalpur Rd, Baheriya, Madhya Pradesh 470021)

Department of Mechanical Engineering

Tender no-IGEC/Mechanical/2024/2946

Date:20/12/2024

(E-Tender document for Supply of Laboratory Equipment)

E- Tenders are hereby invited for supply of Laboratory equipment in mechanical engineering department at Indira Gandhi Engineering College, Sagar (M.P.) as briefly described hereunder:

1	Name of the tender	Supply of Equipment for different laboratories in mechanical engineering department
2	Bid submission mode	Online through e-procurement mode on <u>E-tender</u> portal. https://mptenders.gov.in Three cover system: Cover 1 – Fee. Cover 2 – PreQual/Technical Bid Cover 3 - Financial Bid.
3	Tender document fee	Rs.500/- (Rupees Five hundred only) (non-refundable & No Exemption is Allowed)
4	EMD	15000/- (Exemption as per MP govt rule)
5	Publish Date and time of availability of bid document on e-tender portal / college website.	30/01/2025, 12:00 PM
6	Online Bid Submission Start Date & Time	30/01/2025 01:00 PM
7	Online Bid Submission End Date & Time	20/02/2025 01:00 PM
8	Date and time of opening of bid at IGEC Sagar.	21/02/2025 02:00 PM
9	Contact details of concerned person for any query	Dr. S. D. Sharma Head of department, Mechanical Ph. no.- 9893328595
10	Portal -	https://mptenders.gov.in

Notice Inviting Tender

Indira Gandhi Engineering college, Sagar (herein after referred to as IGEC Sagar) is an Educational Institution, invites E-tenders from reputed Original Equipment Manufacturers or their authorized agents/ dealers/ distributors/channel partners for Supply, Installation and Commissioning of the laboratory equipment as per the detailed terms and conditions and technical specification given below:

TERMS & CONDITIONS

1. Supply of mentioned items (including the essential accessories) should meet the specification and compatibility given in Annexure- I, II, III, IV, V,VI, VII and VIII.
2. The quantity of the materials to be purchased may vary according to the requirement if the need arises (minimum quantity is one of each equipment).
3. Tender document can be viewed/purchased/submitted only online on website www.mptenders.gov.in by making online payment for the tender document. The cost of Tender Form is Rs. 500/- (non-transferable & non-refundable)
4. The tender document is not transferable to any other bidder.
5. The Bidder must upload CA certified Turnover of preceding 3 years (2021-22, 2022-23 and 2023-24) along with PAN Card. Startup firms of MP state will be exempted from this condition.
6. The Bidder must submit GSTIN Registration along with bid.
7. The specification of the items quoted by the bidder should not be inferior to the specifications mentioned in the Annexure-I, II, III, IV, V,VI, VII and VIII.
8. The Bidder must upload authorization from the manufacturer in case their Agents/Dealers/Suppliers are submitting tender on its behalf.
9. The Bidder should submit the copies of supply orders in support of experience of supply of items in Govt./Semi-Govt. Organizations.
10. The Bidder quoted Lowest Rates (inclusive of all taxes) for each item will be considered as L1 Bidder for such items. Thus, this L1 Bidder will be considered for supply of such quoted items.
11. In case similar L1 rates quoted by more than one Bidder for a given item, the experience of supply of such item in Govt./Semi-Govt. Organizations will be considered for taking final decision. Preference will be given to the bidder having more experience.
12. Institute has the right to place the order item-wise or as a whole to single or individual firms depending on the cost of the item/items.
13. Proposal (tender) that is incomplete or not in prescribed format will be rejected.
14. The bidder is responsible for registration on the portal www.mptenders.gov.in at their own cost.
15. The Bidder must submit the tenders in **TWO BID SYSTEM**.
 - (a) The Technical and Financial proposal should be submitted only through the e-procurement Portal.
 - (b) Technical Bid – The proposal should be submitted in prescribed technical format and specifications given on Annexure-I to VIII on the portal (www.mptenders.gov.in).

(c) Financial Proposal – The proposal should be submitted in Financial Bid format given on the portal (www.mptenders.gov.in)

16. Only Technical Bid shall be opened on the date of tender opening.
17. The Financial bid will be opened only on the prescribed date for those who qualify the Technical bid. This date will be announced later.
18. Full name and status of the person signing the tender documents must be clearly mentioned in the Tenders.
19. Tenders received after the due date and time shall not be accepted.
20. The Bidder is required to pay Earnest Money Deposit (EMD) of Rs. 15000/- (Fifteen Thousand only) on www.mptenders.gov.in. and upload the details of tender document fee and EMD in technical bid in the prescribed format as given in Annexure-IX.
21. As per "Madhya Pradesh Store Purchase and Service Procurement Rules 2015", exemption in EMD is applicable to Micro and Small Enterprises of State of Madhya Pradesh only.
22. No interest in any case will be paid on EMD.
23. The entire amount of EMD is liable to be forfeited and firm will be **blacklisted** and the order will be treated as cancelled in the following cases: -
 - (a) Supplier expresses inability to accept the order.
 - (b) Full ordered items not supplied.
 - (c) If the acceptance of the order is conditional as detailed in the execution of the order.
24. The delivery and installation time from the date of placement of order shall not exceed 30 days in any case.
25. In case the supplier fails to deliver and install the items within 30 days from the date of placement of order, the supplier will have to pay a penalty @ 2% per month on the order value or part thereof calculated for the period of delay.
26. The entire material will be delivered and installed by the supplier in Mechanical Engineering Department at IGEC Sagar on FOR value.
27. In Financial Bid, the Bidder needs to quote price including basic cost, insurance, freight, installation, commissioning, warranty (2 years) and should be inclusive of all taxes.
28. If defects of any kind or deviations from specifications are detected and reported to the supplier, the supplier should replace the article within 15 days from the date of report.
29. The successful bidder has to submit performance security deposit of 10% value of the equipment cost in the form of Bank Guarantee of a Commercial Bank for duration of **two years**.
30. The Security Deposit will be returned only after the completion of warranty period which will be counted from the date of installation and based on performance of equipment.
31. In case the supplier fails to install and demonstrate the item within 10 days from the date of supply, the supplier will have to pay a penalty @ 0.5% of the order value per week for the period of delay.

32. Payment will be made within 45 working days of the successful installation and demonstration.
33. If equipment supplied are not according to the specifications and are not of proper quality, the same will not be accepted. Similarly, second hand, reconditioned, damaged, repaired and substandard equipment having poor workmanship of not to the satisfaction of the verification committee, will not be accepted. The equipment rejected by the Committee will be returned to the supplier at his own cost and risk, and entire amount of Earnest Money/Security Deposit is liable to be forfeited.
34. Make and Model of the article should be mentioned with tender document. Year of manufacturing should be mentioned and it must be of the latest make.
35. Conditional bid will not be entertained and liable to be rejected.
36. Any dispute arising out of this agreement in respect of quantity/quality/specification/delivery or payment shall be referred to the SOLE ARBITRATION of the Principal, Indira Gandhi Engineering College, Sagar. All legal disputes will be settled under jurisdiction of Sagar District.
37. The Principal reserves all rights to accept or reject any tender or the entire process.

Date:

Place:

Signature & Seal
of the Bidder along with date

Annexure-I

Tender No - IGEC/Mechanical/2024/2946

Date:20/12/2024

For technical bid- Specifications of Simply Supported Beam Apparatus

Make and model.....

.....	
Technical specifications of simply supported beam apparatus	Indicate meeting specification Yes or No.
• Simply supported beam apparatus, hooks, weights, hanger etc(2 Sets)	

*** Catalogue/Brochure/Technical Specification details should be uploaded along with the technical bid in support of above specifications.**

Note: All the bidders are requested to provide true statement in the columns. Concealing of facts will liable to be rejected the tender completely. No communication will be made in the regard.

Date:.....

Place:.....

**Signature & Seal
of the Bidder along with date**

Annexure-II

Tender No - IGEC/Mechanical/2024/2946

Date:20/12/2024

For technical bid- Specifications of Flywheel Apparatus

Make and model.....

.....	
Technical specifications of Flywheel Apparatus	Indicate meeting specification Yes or No.
• Apparatus of Fly wheel, stop watch, Weights, scale etc (2 Sets)	

*** Catalogue/Brochure/Technical Specification details should be uploaded along with the technical bid in support of above specifications.**

Note: All the bidders are requested to provide true statement in the columns. Concealing of facts will liable to be rejected the tender completely. No communication will be made in the regard.

Date:.....

Place:.....

**Signature & Seal
of the Bidder along with date**

Annexure-III

Tender No - IGEC/Mechanical/2024/2946

Date:20/12/2024

For technical bid- Specifications for Gravesand's Apparatus

Make and model.....

.....

Technical specifications of Gravesand's Apparatus	Indicate meeting specification Yes or No.
Gravesand's apparatus, paper sheet, weight, thread, pans, set square, pencil, drawing pin etc (2 set)	

* Catalogue/Brochure/Technical Specification details should be uploaded along with the technical bid in support of above specifications.

Note: All the bidders are requested to provide true statement in the columns. Concealing of facts will liable to be rejected the tender completely. No communication will be made in the regard.

Date:.....

Place:.....

**Signature & Seal
of the Bidder along with date**

Annexure-IV

Tender No - IGEC/Mechanical/2024/2946

Date:20/12/2024

For technical bid- Specifications for Model for study of ignition systems of IC Engine (Battery and Magneto ignition System) and electronics ignition system

Make and model.....

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Technical specifications of Model for study of ignition systems of IC Engine (Battery and Magneto ignition System) and electronics ignition system	Indicate meeting specification Yes or No.
ISO Certified: Battery and Magneto ignition system and electronic ignition system, Manual should be provided and clearly showing with number all the essential parts	

*** Catalogue/Brochure/Technical Specification details should be uploaded along with the technical bid in support of above specifications.**

Note: All the bidders are requested to provide true statement in the columns. Concealing of facts will liable to be rejected the tender completely. No communication will be made in the regard.

Date:.....

Place:.....

**Signature & Seal
of the Bidder along with date**

Annexure-V

Tender No - IGEC/Mechanical/2024/2946

Date:20/12/2024

For technical bid- Specifications for Diesel injectors in cut section/ Fuel pump in cut section for study of fuel supply system of a diesel engine (fuel pump and fuel injector)

Make and model.....

.....	
Technical specifications of Diesel injectors in cut section/ Fuel pump in cut section for study of fuel supply system of a diesel engine (fuel pump and fuel injector)	Indicate meeting specification Yes or No.
ISO certified: Diesel injector in cut section model specification: - cut section model of injector showing arrangement of nozzle, spring, spindle and all other essential parts. Cut section should be mounted on wooden plate with printed diagram. The whole assembly should be covered with a plastic cover. Manual should be provided. Fuel Injection pump in cut section specifications: - cut section model showing arrangement of plunger element, cam shaft, delivery valve, delivery seat, barrel, spring, rack and quarding, feed pump, roller tappets and governor and all other essential parts. • The cut section should be mounted on wooden plate, in which all parts should be displayed. The whole assembly should be supported with a suitable stand. A separate handle provided for manual operation for demonstration. Manual should be provided	

*** Catalogue/Brochure/Technical Specification details should be uploaded along with the technical bid in support of above specifications.**

Note: All the bidders are requested to provide true statement in the columns. Concealing of facts will liable to be rejected the tender completely. No communication will be made in the regard.

Date:.....

Place:.....

**Signature & Seal
of the Bidder along with date**

Annexure-VI

Tender No - IGEC/Mechanical/2024/2946

Date:20/12/2024

**For technical bid- Specifications For Model of petrol injection system
for study of petrol injection system**

Make and model.....

.....

Technical specifications of Model of petrol injection system for study of petrol injection system	Indicate meeting specification Yes or No.
ISO certified actual working model	

* Catalogue/Brochure/Technical Specification details should be uploaded along with the technical bid in support of above specifications.

Note: All the bidders are requested to provide true statement in the columns. Concealing of facts will liable to be rejected the tender completely. No communication will be made in the regard.

Date:.....

Place:.....

**Signature & Seal
of the Bidder along with date**

Annexure-VII

Tender No - IGEC/Mechanical/2024/2946

Date:20/12/2024

For technical bid- Specifications for Stefan Boltzmann Apparatus

Make and model.....

Technical specifications of Stefan Boltzmann Apparatus	Indicate meeting specification Yes or No.
• Hemisphere diameter 200 mm (approx.) made of copper. • Test disc size 20 mm diameter x 1.5 mm thickness made of copper • Water tank stainless steel 12 Ltr capacity • Heater Nichrome wire immersion heater • Control panel comprising of digital temperature controller: PID controller, 0 to 199.9 °C (for water tank) Digital temperature Indicator: 0 to 199.9 °C with multi-channel switch. Temperature sensors: RTD PT-100 Type with temperature transmitter and local digital display -2 Nos. (at least) with standard make on/off switch, main indicator etc. • One ceramic bare sensor will be welded on test directly. There will be no other material in between ceramic sensor and test specimen to avoid any losses. • Equipment should be upgraded for date logging facility in future if required. The whole set-up is well designed and arranged on a rigid structure painted with industrial PU paint.	

*** Catalogue/Brochure/Technical Specification details should be uploaded along with the technical bid in support of above specifications.**

Note: All the bidders are requested to provide true statement in the columns. Concealing of facts will liable to be rejected the tender completely. No communication will be made in the regard.

Date:.....

Place:.....

**Signature & Seal
of the Bidder along with date**

Annexure-VIII

Tender No - IGEC/Mechanical/2024/2946

Date:20/12/2024

For technical bid- Specifications for PIN Fin apparatus

Make and model.....

Technical specifications of PIN Fin apparatus	Indicate meeting specification Yes or No.
Pin fin experiment is to be conducted in free and forced convection heat transfer mode. Duct: 100-120x 150-160 x 560-600 mm (MS powder coated) Fin: 11-12 mm dia x 230 -240 mm long, (Three fins, made of Brass, Aluminum and copper) Heater: Band type, Nichrome- 250 watts Manometer: U- Tube with mercury as working fluid with data. • Blower: Centrifugal ½ HP, 220 V AC Variac: Auto transformer 2A with Data Logger Voltmeter: Digital ammeter of range 0-20 A AC with Data Logger Temperature indicator: By thermocouple a digital temperature indicator with channel selector and interfaced with Data logger. No. of thermocouples fitted with fins= 5 in each fin x 3 = 15 No. of thermocouple in ambient	

* Catalogue/Brochure/Technical Specification details should be uploaded along with the technical bid in support of above specifications.

Note: All the bidders are requested to provide true statement in the columns. Concealing of facts will liable to be rejected the tender completely. No communication will be made in the regard.

Date:.....

Place:.....

**Signature & Seal
of the Bidder along with date**

Annexure –IX

Fee Cover Form

INDIRA GANDHI ENGINEERING COLLEGE, SAGAR (M.P.)

Jabalpur Road, Makronia Station, Sagar- 470021

Phone No. : 07582 - 263844, 263896, 9826735071 Fax No: 07582 - 263844

✉ Email Id: dr.principalgec@rediffmail.com

Tender No - IGEC/Mechanical/2024/2946

Date:20/12/2024

1. Name of Tendering Company/ Bidder/Firm/Agency:

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.....
.....

2. Registered Office Address with telephone/mobile No:

.....
.....
.....

E-Mail Address.....

3. Particulars of Earnest Money deposit (EMD)

(a) Online pay ref No.....

(b) Date

(c) for Rs.

4. Particulars of tender **document fee**
(No Exemption is Allowed)

(a) Online pay ref No.....

(b) Date

(c) for Rs.

Place

Signature

Date

Name

Designation

Seal & Signature of the Tenderer

Annexure-X
TENDER FORM- Technical

Tender No - IGEC/Mechanical/2024/2946

Date:20/12/2024

To
The Principal
Indira Gandhi Engineering College,
Sagar.

I/We wish to submit the tender for the item advertised by you.

1. Name of the item

Item No.	Item Name*	Participating Yes/No
1	Simply Supported Beam Apparatus	
2	Flywheel Apparatus	
3	Gravesand's Apparatus	
4	Model for study of ignition systems of and IC Engine (Battery and Magneto ignition System) and electronics ignition system	
5	Diesel injectors in cut section/ Fuel pump in cut section for study of fuel supply system of a diesel engine (fuel pump and fuel injector)	
6	Model of petrol injection system for study of petrol injection system	
7	Stefan Boltzmann Apparatus	
8	PIN Fin apparatus	

* The specification of items to be seen and submitted as per format in Annexure-I to VIII.

2. Name of the firm:

3. Telephone/Mob. No:

4. Email.ID:

5. Full Address:

6. Registration No. of Firm and Place:

7. Details of GSTIN:

8. Details of PAN:

Total documents attached..... Pages.....

I/We have read all the terms and conditions of the tender and shall abide by them. The materials shall be supplied strictly as per specification at Annexure-I to VIII and in the given time period.

Date:

Place:.....

**Signature & Seal
of the Bidder along with date**

List of Documents to be uploaded by the Bidder
In the Technical Bid

S. No.	Document	Yes/No
1	CA certified turnover document of the firm of preceding 3 years	
	(i) 2023-24	
	(ii) 2022-23	
	(iii) 2021-22	
2	Scanned copy of Permanent Account Number (PAN) with sign and seal	
3	Scanned copy of GSTIN Registration with seal and sign	
4	Scanned copy of supply orders in support of experience of supply of items in Govt./Semi Govt Organization (if any) with sign and seal	
5	Authorization from the manufacturer in case their Agents/Dealers/Suppliers are submitting tender on its behalf	
6	Scanned copy of Fee Cover form and Tender Form- Technical as specified in Annexure-IX, X with sign and seal	
7	Scanned Copy of EMD online payment receipt for Rs.15,000/- or EMD exception certificate with sign and seal	
8	Scanned copy of Technical tender form related to specifications of the equipment in Annexure-I,II,III,IV,V,VI,VII,VIII with sign and seal.	
9	Scanned copy of terms and condition of this tender document with sign and seal.	

Date:

Place:.....

Signature & Seal
of the Bidder along with date