

**Rajkiya Engineering College (REC)  
Deogaon, Azamgarh (UP)**

Tender No: 02/REC/2016

Dated : 10-03-2016

**Tender Notice**

Director, REC, Azamgarh invites sealed Tenders from eligible bidders for supply and commissioning of Lab Equipments for different departments of ***Rajkiya Engineering College Deogaon, Azamgarh (UP)***. Separate tenders must be submitted for each package. The tender documents can be downloaded from the College website [www.gecazamgarh.ac.in](http://www.gecazamgarh.ac.in) and may be submitted by 28 March 2016. Tenders will be opened on the same day at 03:00 PM in the GEC Office (Electrical Engg. Dept.) at Madan Mohan Malaviya University of Technology Campus Gorakhpur. Director reserves all rights to reject any or all tenders without assigning any reason thereof.

**For Tender Cost, EMD, Specifications and other details please visit our website: [www.gecazamgarh.ac.in](http://www.gecazamgarh.ac.in)**

**DIRECTOR**

<b>Tender Date :</b>	10-03-2016
<b>Date for tender submission</b>	10-03-2016 to 28-03-2016 up to 02.00 pm
<b>Place where tender will be submitted :</b>	Office Rajkiya Engineering College, Electrical Engg. Department, M M M University of Technology Campus, Gorakhpur - 273010
<b>Tender opening date and Time :</b>	28-03-2016 on 03.00 pm
<b>Tender opening place :</b>	REC Office (Electrical Engg. Dept.), M M M University of Technology Campus, Gorakhpur – 273010
<b>Demand Draft, in favor of</b>	Director, Rajkiya Engineering College, Azamgarh
<b>Payable at</b>	SBI, MMMUT Branch , Gorakhpur Branch Code : 02578, IFS Code : SBIN0002578

## Rajkiya Engineering College (REC) Deogaon, Azamgarh

### TENDER DOCUMENT

No: REC/01/2/2016

Date: **10-03-2016**

Opening Date: **28-03-2016**

Opening Time: **03.00 PM**

Opening Place: **REC Office  
(Electrical Engg. Dept.) ,  
M M M UT Campus,  
Gorakhpur – 273010**

#### General Information to Bidders:

1. Rajkiya Engineering College Azamgarh (Formerly Manyawar Kanshiram Engineering College of Information Technology) was established in the year 2010 by Government of Uttar Pradesh. The college currently offers four year B.Tech. program in three disciplines, namely, Mechanical Engineering, Civil Engineering and Information Technology with intake of Sixty (60) each.
2. The Classes of the College are presently being run at Madan Mohan Malaviya University of Technology Campus Gorakhpur. The construction work of the building of REC, Azamgarh including Academic Blocks, Workshop, Hostels and Residences are expected to be completed by end of June 2016. The college will be operational in its own campus from July 2016.
3. The new campus of REC Azamgarh is situated at Deogaon on Azamgarh-Varanasi Road, approx 42 Km from Azamgarh and 04 Km from Deogaon towards Deogaon -Jiwali road (Jaunpur).
4. Various laboratories in the Department are to be established before commencement of operations of REC Deogaon, Azamgarh at its own campus. A list of laboratories along-with list of equipments required in each laboratory with their specifications is given in the tender document.
5. Sealed and separate tenders in duplicate in two parts i.e. **tender bid-I** and **tender bid-II** are herewith invited for **Supply & Commissioning of Laboratory Equipments at REC Deogaon, Azamgarh (UP)** along with earnest money amounting to Rs.... (Mentioned with package/unit) in the shape of Demand Draft of Nationalized/Scheduled Bank in favour of Director REC Azamgarh (UP). Both envelopes should be kept in one big envelope. The tenders should reach to undersigned latest 28-03-2016 at **2.00 PM**.
6. ***Tenders are being invited to purchase and commissioning of equipments to establish various laboratories. Each laboratory will be treated as one package /unit. It is expected that a firm selected for the establishment of a laboratory shall supply all equipments of that laboratory. The firm will also complete the work of installation/ mounting and commissioning of these equipments. This includes concrete foundation work (in case of heavy machines), electrical safety, and electricity wiring in the laboratory to make these equipments functional.***
7. Firm will supply all equipment after the transfer of building to Director after month of June 2016.

## Terms & Conditions:

1. Details of equipments/ materials are as per bill of quantity attached.
2. Tenders should be submitted either in person or by post in sealed envelopes on which name of package/unit, tender number and date along with name and address of the firm will be written.
3. **TENDER BID-I** (Technical) shall contain (i) Tender cost (non refundable) (ii) Earnest Money (iii) Proof of PAN and TIN registration document (iv) Standing of the firm (v) Major supplies executed in recent past (vi) Authorized dealer certificate from OEM & Commercial terms and conditions.  
**TENDER BID-II** (Financial) shall contain rate schedule only. The rates must be quoted in both figures and words. Any overwriting and/or cutting must be duly attested failing which tenders are likely to be rejected.
4. All tenders received after due date and time will not be considered.
5. Price quoted should be **F.O.R. Rajkiya Engineering College, Deogaon, Azamgarh (UP)**.
6. The detailed specifications and make of the equipments /material must be given.
7. The quoted items should strictly be in order of merit with serial number and metric unit otherwise the tenders are liable to be ignored
8. Conditions regarding validity of tenders, delivery period, payment discount, warrantee and Guarantee Period, Trade Tax, Excise & Custom Duty and insurance etc. should be mentioned clearly. Net prices should be quoted.
9. No sales tax form "C" or "D" etc. for concessional rates shall be provided by the Institute.
10. The quoted rates should be valid for at least **six months** from the date of opening.
11. Tenders without sample wherever required may not be accepted.
12. In case of imported equipment, commission allowed to agents must be specifically mentioned.
13. Free demonstration shall be done in the Institute premises if required.
14. Insurance shall be done by the suppliers at their own cost.
15. Tenders without mentioned earnest money deposit will not be entertained.
16. Standing of the firm and major supplies in recent past with proof must be attached.
17. In case of dealers, authorized distributors, dealer's certificate from OEM is required.
18. Document through bank and advance payment on proforma invoice may not be accepted.
19. The quantity mentioned in bill of quantity against each items will be treated as provisional and it may be changed depending on actual requirement.
20. Payment will be made only after successful installation and operation in the concerned department after verification from the departments.
21. If the supply is not made within prescribe period the firm shall be liable to pay a penalty equal to 0.10% of value of purchase order per day. However this can be waved off by the Director under special circumstances. If the firm fails to supply the equipments earnest money deposit will be forfeited.
22. Deduction of TDS as per Govt. Rules.
23. Tenders will be opened in the presence of those who choose to be present on the opening date and time.
24. Any dispute will be subjected to Azamgarh (UP) Jurisdiction only.
25. Conditional tenders will not be accepted.
26. The Director reserves the right to accept or reject any or all tenders without assigning any reason.

**DIRECTOR**

**(A) MECHANICAL ENGINEERING DEPARTMENT**

<b>Sl. No</b>	<b>Package</b>	<b>Name of Laboratory</b>	<b>Department</b>	<b>Earnest Money (in Rs)</b>
1	Package 1	Machine Drawing Lab	Mechanical Engg	5130.00
2	Package 2	Manufacturing Science-I Lab	Mechanical Engg	9330.00
3	Package 3	Manufacturing Science-II Lab	Mechanical Engg	74010.00
4	Package 4	Measurement and Metrology Lab	Mechanical Engg	17400.00
5	Package 5	Machine Design Lab	Mechanical Engg	720.00
6	Package 6	Foundry and casting Equipments etc.	Mechanical Engg	30000.00

**(B) INFORMATION TECHNOLOGY DEPARTMENT**

<b>Sl. No</b>	<b>Package</b>	<b>Name of Laboratory</b>	<b>Department</b>	<b>Earnest Money (in Rs)</b>
1	Package 7	Computer Organization Lab	IT	24000.00

**(C) CIVIL ENGINEERING DEPARTMENT**

<b>Sl. No</b>	<b>Package</b>	<b>Name of Laboratory</b>	<b>Department</b>	<b>Earnest Money (in Rs)</b>
1	Package 8	Environmental Engineering Lab.	Civil Engg	35130.00
2	Package 9	Geo-Technical Lab.	Civil Engg	37110.00
3	Package 10	Highway Engineering Lab.	Civil Engg	24900.00

**(D) (Common to I Year of all Branches)**

<b>Sl. No</b>	<b>Package</b>	<b>Name of Laboratory</b>	<b>Department</b>	<b>Earnest Money (in Rs)</b>
1	Package 11	Physics Lab	Applied Science	34200.00
2	Package 12	Chemistry Lab	Applied Science	16680.00
3	Package 13	Workshop	Workshop	35280.00
		a. Machine Shop	Workshop	
		b. Welding Shop	Workshop	
		c. Fitting Shop	Workshop	
		d. Sheet Metal Shop	Workshop	
		e. Carpentry Shop	Workshop	
		f. Black Smithy Shop	Workshop	
		g. Foundry Shop	Workshop	

**Rajkiya Engineering College (REC)  
Deogaon, Azamgarh  
(M.M.M.University of Technology Campus Gorakhpur-273010)**

**TENDER DOCUMENT**

**(FOR Rajkiya Engineering College (REC)  
Deogaon, Azamgarh)**

Bidders Proforma

Tender	Purchase and Commissioning of Equipments for Machine Drawing Lab of Mechanical Engg.
Name of the firm with full address and contact number	
FOR	<b>Rajkiya Engineering College (REC) Deogaon, Azamgarh</b> (Located on Azamgarh-Varanasi Road at approx 43 kms from Azamgarh and 4.0kms from Deogaon-Jiwali Road (Jaunpur))
Cost of Tender Document	DD No: _____ Amount: _____ Bank: _____ Date: _____  Drawn on favour of Director Rajkiya Engg. College, Azamgarh payable at Gorakhpur
Earnest Money Deposit	DD No: _____ Amount: _____ Bank: _____ Date: _____  Drawn on favour of Director Rajkiya Engg. College, Azamgarh payable at Gorakhpur
PAN/TIN/TAN No	PAN: _____ TIN: _____ TAN: _____ (Attach proof)
Original Equipment Manufacturers /Authorization Letter from O.E.M.	Attach proof
Turnover in the last three years	Attach proof
Details of Similar Work Executed during last Three years	Attach proof

Signature and Seal of Bidders

**Mechanical Engg Department**  
**Rajkiya Engg. College Azamgarh**  
**Package 1 Machine Drawing Lab**

**Tender Cost: Rs. 500.00**

**EMD- Rs. 5130.00**

**Bill of Quantity for Machine Drawing Lab:**

<b>Sr. No.</b>	<b>Name Item</b>	<b>Specifications</b>	<b>Qty.</b>	<b>Unit Cost</b>	<b>Total Cost</b>	<b>Remarks</b>
1.	Drawing Board	Suitable for A <sub>0</sub> drawing sheet	45			
2.	Model for Orthographic Projection	Wooden model and of Split type for depicting	20			
3.	Model of Cotter Joint	Metallic	1			
4.	Model of Knuckle Joint	Metallic	1			
5.	Model of Coupling Muff , Flange and Flexible coupling	Metallic	One each			
6.	Model of Lathe Tail Stock , Air Valve Screw Jack Connecting rod, Safety Valve, Stuffing Box	Wooden model One Each	6			
	TOTAL					

**Rajkiya Engineering College (REC)  
Deogaon, Azamgarh  
(M.M.M. University of Technology Campus Gorakhpur-273010)**

**TENDER DOCUMENT**

**(FOR Rajkiya Engineering College (REC)  
Deogaon, Azamgarh)**

Bidders Proforma

Tender	Purchase and Commissioning of Equipments for Manufacturing Science-I Lab of Mechanical Engg.
Name of the firm with full address and contact number	
FOR	<b>Rajkiya Engineering College (REC) Deogaon, Azamgarh</b> (Located on Azamgarh-Varanasi Road at approx 43 kms from Azamgarh and 4.0kms from Deogaon-Jiwali Road (Jaunpur))
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Earnest Money Deposit	DD No: Amount: Bank: Date:  Drawn on favour of Director Rajkiya Engg. College, Azamgarh payable at Gorakhpur
PAN/TIN/TAN No	PAN: TIN: TAN: (Attach proof)
Original Equipment Manufacturers /Authorization Letter from O.E.M.	Attach proof
Turnover in the last three years	Attach proof
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Signature and Seal of Bidders

**Mechanical Engg Department  
Rajkiya Engg. College Azamgarh**

**Package 2 Manufacturing Science-I Lab**

**Tender Cost: Rs. 500.00**

**EMD- Rs. 9330.00**

**Bill of Quantity for Manufacturing Science-I Lab:**

<b>Sr. No.</b>	<b>Name Item</b>	<b>Specifications</b>	<b>Qty.</b>	<b>Unit Cost</b>	<b>Total Cost</b>	<b>Remarks</b>
1.	Power Hammer		1			
2.	Sieve Shaker	With Different grade Sieve Sheets	1			
3.	Moulding Machine	Cast Iron	2			
4.	Tube Bending Machine	For different dia. tubes	2			
5.	Press Machine	For Blanking/Piercing /Washer Making	1			
6.	Pattern Making	Wood for pattern	of required shape and size			
	TOTAL					



**Rajkiya Engineering College (REC)**  
**Deogaon, Azamgarh**  
**(M.M.M.University of Technology Campus Gorakhpur-273010)**

**TENDER DOCUMENT**

**(FOR Rajkiya Engineering College (REC)**  
**Deogaon, Azamgarh)**

Bidders Proforma

Tender	Purchase and Commissioning of Equipments for Manufacturing Science-II Lab of Mechanical Engg.
Name of the firm with full address and contact number	
FOR	<b>Rajkiya Engineering College (REC)</b> <b>Deogaon, Azamgarh</b> (Located on Azamgarh-Varanasi Road at approx 43 kms from Azamgarh and 4.0kms from Deogaon-Jiwali Road (Jaunpur))
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Signature and Seal of Bidders



**Rajkiya Engineering College (REC)  
Deogaon, Azamgarh  
(M.M.M. University of Technology Campus Gorakhpur-273010)**

**TENDER DOCUMENT**

**(FOR Rajkiya Engineering College (REC)  
Deogaon, Azamgarh)**

Bidders Proforma

Tender	Purchase and Commissioning of Equipments for Measurement and Metrology Lab of Mechanical Engg.
Name of the firm with full address and contact number	
FOR	<b>Rajkiya Engineering College (REC) Deogaon, Azamgarh</b> (Located on Azamgarh-Varanasi Road at approx 43 kms from Azamgarh and 4.0kms from Deogaon-Jiwali Road (Jaunpur)
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Original Equipment Manufacturers /Authorization Letter from O.E.M.	Attach proof
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Signature and Seal of Bidders

**Mechanical Engg Department  
Rajkiya Engg College Azamgarh**

**Package 4 Measurement and Metrology Lab**

**Tender Cost: Rs. 500.00**

**EMD- Rs. 17400.00**

**Bill of Quantity for Measurement and Metrology Lab:**

<b>Sr. No.</b>	<b>Name Item</b>	<b>Specifications</b>	<b>Qty.</b>	<b>Unit Cost</b>	<b>Total Cost</b>	<b>Remarks</b>
1.	Vernier Calipers	300,250mm	10			
2.	Micrometer	1 digital& 6 manual	1+6			
3.	Sine Bar	0-300 mm,0-350 mm, 250 mm	2 each			
4.	Tachometer	0 to 10000 rpm	2			
5.	Slip Gauges	Set of Slip-gauges 6 boxes	5			
6.	Limit Gauges	Go and No Go of Different sizes	10			
7.	Level Protector	For angle measurement	4			
8.	Feeler Gauges		4			
9.	Dial indicator	Plunger movement 10mm				
10.	Surface plate	4 square feet	5			
11.	Strain Gauge Indicator	With applicator toolkit and different load cells	3			
12.	Optical Stroboscope		2			
13.	Plug gauge	20mm dia.	10			
14.	Plug & ring taper gauge	Mt3	2			
	TOTAL					

**Rajkiya Engineering College (REC)  
Deogaon, Azamgarh  
(M.M.M. University of Technology Campus Gorakhpur-273010)**

**TENDER DOCUMENT**

**(FOR Rajkiya Engineering College (REC)  
Deogaon, Azamgarh)**

Bidders Proforma

Tender	Purchase and Commissioning of Equipments for Machine Design Lab of Mechanical Engg.
Name of the firm with full address and contact number	
FOR	<b>Rajkiya Engineering College (REC) Deogaon, Azamgarh</b> (Located on Azamgarh-Varanasi Road at approx 43 kms from Azamgarh and 4.0kms from Deogaon-Jiwali Road (Jaunpur))
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Signature and Seal of Bidders

**Mechanical Engg Department  
Rajkiya Engg. College Azamgarh**

**Package 5 Machine Design Lab**

**Tender Cost: Rs. 500.00**

**EMD- Rs. 720.00**

**Bill of Quantity for Machine Design Lab:**

<b>Sr. No.</b>	<b>Name Item</b>	<b>Specifications</b>	<b>Qty.</b>	<b>Unit Cost</b>	<b>Total Cost</b>	<b>Remarks</b>
1.	Model of Cotter Joint	Metallic	1			
2.	Model of Knuckle Joint	Metallic	1			
3.	Model of Coupling Muff, Flange and Flexible coupling	Metallic	One each			
4.	Screw Jack	100 kN	1			
5.	Helical Spring	25 kN tension and compression	4			
	TOTAL					

**Rajkiya Engineering College (REC)**  
**Deogaon, Azamgarh**  
**(M.M.M. University of Technology Campus Gorakhpur-273010)**

**TENDER DOCUMENT**

**(FOR Rajkiya Engineering College (REC)  
Deogaon, Azamgarh)**

Bidders Proforma

Tender	Purchase and Commissioning of Foundry and Casting Equipments etc.
Name of the firm with full address and contact number	
FOR	<b>Rajkiya Engineering College (REC)</b> <b>Deogaon, Azamgarh</b> (Located on Azamgarh-Varanasi Road at approx 43 kms from Azamgarh and 4.0kms from Deogaon-Jiwali Road (Jaunpur))
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PAN/TIN/TAN No	PAN: TIN: TAN: (Attach proof)
Original Equipment Manufacturers /Authorization Letter from O.E.M.	Attach proof
Turnover in the last three years	Attach proof
Details of Similar Work Executed during last Three years	Attach proof

Signature and Seal of Bidders

**Mechanical Engg Department  
Rajkiya Engg. College Azamgarh**

**Package 6 Foundry and Casting Equipments etc.**

**Tender Cost: Rs. 500.00**

**EMD- Rs. 30000.00**

**Bill of Quantity for Foundry and Casting Equipments etc.:**

<b>Sr. No.</b>	<b>Name Item</b>	<b>Specifications</b>	<b>Qty.</b>	<b>Unit Cost</b>	<b>Total Cost</b>	<b>Remarks</b>
1.	Injection molding machine	Injection Short capacity 100gm, Injection Force 9tonnes, Max.Mold Thickness 400 mm, Min.Mold Thickness 100 mm, Motor 5 HP, Heater Capacity3 Kw, Pattern Area 300mm x300mm	01			
2.	Semi-Automatic Centrifugal Casting Machine with integrated furnace and stirrer	Mold diameter 8-12", mold thickness 0-120 mm, pressure 0-7 kg., Power 1.5 kw – 3 kw, speed 50-1400 rpm, furnace 9 kw,	01			
<b>TOTAL</b>						



**Rajkiya Engineering College (REC)  
Deogaon, Azamgarh  
(M.M.M.University of Technology Campus Gorakhpur-273010)**

**TENDER DOCUMENT**

**(FOR Rajkiya Engineering College (REC)  
Deogaon, Azamgarh)**

Bidders Proforma

Tender	Purchase and Commissioning of Equipments for Computer Organization Lab of Information Technology.
Name of the firm with full address and contact number	
FOR	<b>Rajkiya Engineering College (REC) Deogaon, Azamgarh</b> (Located on Azamgarh-Varanasi Road at approx 43 kms from Azamgarh and 4.0kms from Deogaon-Jiwali Road (Jaunpur)
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Signature and Seal of Bidders

**Information Technology Department  
Ralkiya Engg.College Azamgarh**

**Package 7 - Computer Organization Lab**

**Tender Cost: Rs. 500.00**

**EMD- Rs. 24000.00**

**Bill of Quantity for Computer Organization Lab:**

<b>Sr. No.</b>	<b>Kit Name</b>	<b>Kit Technical Specification / Model Details</b>	<b>Qty.</b>	<b>Unit Cost</b>	<b>Total Cost</b>	<b>Remarks</b>
1.	Digital Trainer Kit (Bread Board)	1. TTL/CMOS Compatible logic level inputs. 2. Logic HIGH and LOW are displayed by dual color LED. 3. Facility for single pulse generation by a push button switch. 4. Eight logic switch to provide LOW, logic HIGH logic 5. One seven segment display with BCD inputs. 6. Capable of accepting wire diameters from 0.3 to 0.8 mm 7. The system requires + 5V supply for its operation.	01			
2.	Bread Board & IC Based Lab	1. AND GATE-7408 2. OR GATE - 7432 3. NAND GATE-7400 4. XOR GATE -7486 5. NOR GATE- 7402 6. NOT GATGE-7404 7. SHIFT REGISTER - 74164 8. ADDER IC - 7483 9. ASYNCHRONOUS COUNTER - 7493 10. SYNCHRONOUS COUNTER-74193	25			
3.	PC Trainer Kit	PC Trainer Kit depicting complete architecture of a desktop PC	01			
4.	Trainer Kits for Combinational & Sequential Circuits	Trainer Kits for Half Adder, Full Adder, Counters etc.	01			
	TOTAL					

**Rajkiya Engineering College (REC)**  
**Deogaon, Azamgarh**  
**(M.M.M.University of Technology Campus Gorakhpur-273010)**

**TENDER DOCUMENT**

**(FOR Rajkiya Engineering College (REC)**  
**Deogaon, Azamgarh)**

Bidders Proforma

Tender	Purchase and Commissioning of Equipments for Environmental Engineering Lab. of Civil Engg.
Name of the firm with full address and contact number	
FOR	<b>Rajkiya Engineering College (REC)</b> <b>Deogaon, Azamgarh</b> (Located on Azamgarh-Varanasi Road at approx 43 kms from Azamgarh and 4.0kms from Deogaon-Jiwali Road (Jaunpur)
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Original Equipment Manufacturers /Authorization Letter from O.E.M.	Attach proof
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Signature and Seal of Bidders

**Civil Engg Department**  
**Ralkiya Engg.College Azamgarh**

**Package 8 - Environmental Engineering Lab.**

**Tender Cost: Rs. 500.00**

**EMD- Rs. 35130.00**

**Bill of Quantity for Environmental Engineering Lab.:**

Sr. No.	Name Item	Specifications	Qty.	Unit Cost	Total Cost	Remarks
<b>(A) EQUIPMENTS</b>						
1	Turbidity meter		1			
2	Colour Comparator		1			
3	Conductivity Meter		1			
4	Sound level meter		1			
5	pH meter		4			
6	Balance with Sensitivity 0.000gm		1			
7	Distilled Water Plant		1			
8	Biological microscope		1			
9	B.O.D. Incubator		1			
10	Hot Air Oven		1			
11	Kheldahl Nitrogen Assembly		1			
12	Flouride testing Kit		1			
	<b>Total</b>					
<b>(B) Glass Ware</b>						
1	Beaker - 500ml		50			
2	Beaker - 200ml		50			
3	Burette – 50ml		50			
4	Burette Stand		50			
5	Funnel		20			
6	Pipette - 5ml		10			
7	Measuring Cylinder 250 ml		6			
8	Measuring Cylinder 1000 ml		10			
9	Conical Flask 500 ml		50			
10	Measuring Flask 500 ml		2			
11	Measuring Flask 1000 ml		6			
12	Watch Claris		10			
13	Spatula		10			
14	Tong		10			
15	Clay Tangle		10			
16	Spirit Lamp		50			
17	Burner stand		50			
18	Flap for Spirit Lamp		50			
19	Glass Rod		1m			
20	B.O.D. Bottle 300ml		50			
21	Silica Crucible		6			
	<b>Total</b>					
<b>(C) CHEMICALS</b>						
1	Hydrochloric Acid		2.5lt			
2	Sulphuric Acid H <sub>2</sub> SO <sub>4</sub>		5lt			
3	Methyl Drawee Indicator		200ml			
4	Phenolphthalein Indicator		250ml			
5	Nessler's Reagent		250ml			

6	Chlorine Water		200ml			
7	Sodium Hydroxide NaOH		500gm			
8	Silver Nitrate AgNO <sub>3</sub>		100gm			
9	Potassium Chromate K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub>		500gm			
10	Erichrome Block – T		100gm			
11	Ammonium Chloride NH <sub>4</sub> Cl		500gm			
12	Ammonia Liquid NH <sub>4</sub> OH		25lt			
13	EDTA		200gm			
14	Magnesium Chloride MgCl <sub>2</sub>		500gm			
15	Calcium Chloride CaCl <sub>2</sub>		500gm			
16	Magnesium Sulphate MgSO <sub>4</sub>		500gm			
17	Potassium Thio Sulphate		500gm			
18	Sodium Thio Sulphate		500gm			
19	Starch		1kg			
20	Di Hydrogen Potassium Phosphate KH <sub>2</sub> PO <sub>4</sub>		500gm			
21	Di-Potassium Hydrogen Phosphate K <sub>2</sub> HPO <sub>4</sub>		500gm			
22	Di-Sodium Hydrogen Phosphate Na <sub>2</sub> HPO <sub>4</sub> .7H <sub>2</sub> O		500gm			
23	Magnesium Sulphate MgSO <sub>4</sub> .7H <sub>2</sub> O		500gm			
24	Ferric Chloride FeCl <sub>3</sub>		500gm			
25	Potassium dichromate K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub>		500gm			
26	1:10 Phenanthroline Sulphate		100gm			
27	Ferrous Sulphate		500gm			
28	Ferrous Ammonium Sulphate		500gm			
	<b>Total</b>					
	<b>Total Cost (A+B+C)</b>					

**Rajkiya Engineering College (REC)**  
**Deogaon, Azamgarh**  
**(M.M.M.University of Technology Campus Gorakhpur-273010)**

**TENDER DOCUMENT**

**(FOR Rajkiya Engineering College (REC)**  
**Deogaon, Azamgarh)**

Bidders Proforma

Tender	Purchase and Commissioning of Equipments for Geo-Technical Lab. of Civil Engg.
Name of the firm with full address and contact number	
FOR	<b>Rajkiya Engineering College (REC)</b> <b>Deogaon, Azamgarh</b> (Located on Azamgarh-Varanasi Road at approx 43 kms from Azamgarh and 4.0kms from Deogaon-Jiwali Road (Jaunpur))
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PAN/TIN/TAN No	PAN: TIN: TAN: (Attach proof)
Original Equipment Manufacturers /Authorization Letter from O.E.M.	Attach proof
Turnover in the last three years	Attach proof
Details of Similar Work Executed during last Three years	Attach proof

Signature and Seal of Bidders

**Civil Engg Department**  
**Ralkiya Engg.College Azamgarh**

**Package 9- Geo-Technical Lab.**

**Tender Cost: Rs. 500.00**

**EMD- Rs. 37110.00**

**Bill of Quantity for Geo-Technical Lab.:**

<b>Sr. No.</b>	<b>Name Item</b>	<b>Specifications</b>	<b>Qty.</b>	<b>Unit Cost</b>	<b>Total Cost</b>	<b>Remarks</b>
1.	Balance with sensitivity 20Kg/1gms		1			
2.	Balance with sensitivity 3Kg/0.1gms		1			
3.	Balance with sensitivity 600/0.01gms		1			
4.	Sieve set with lead and pan (4.75mm, 3.35, 2.00, 1.00 mm-600, 425, 300, 150 & 75 micron )		1			
5.	Sieve shaker motorized		1			
6.	Hydrometer		10			
7.	Measuring cylinder (borosil) 1000 ml		10			
8.	Liquid limit apparatus		4			
9.	Porcelain dish		10			
10.	Granite(2" X 2")		1			
11.	Shrinkage limit apparatus		5			
12.	Proctor Compaction test app.		3			
13.	Relative density app.		1			
14.	Core cutter with hammer		6			
15.	Sand replacement apparatus		6			
16.	Permeability test apparatus		1			
17.	Direct shear test app.		1			
18.	Static cone penetration test app (with accessories)		1			
19.	SPT & DCPT Apparatus(with accessories)		1			
20.	Post hole auger with handle		2			
21.	Split spoon sampler		1			
22.	Liner		10			
23.	S.P.T/Drill Rod		25			
	<b>Total</b>					

**Rajkiya Engineering College (REC)**  
**Deogaon, Azamgarh**  
**(M.M.M.University of Technology Campus Gorakhpur-273010)**

**TENDER DOCUMENT**

**(FOR Rajkiya Engineering College (REC)**  
**Deogaon, Azamgarh)**

Bidders Proforma

Tender	Purchase and Commissioning of Equipments for Highway Engineering Lab. of Civil Engg.
Name of the firm with full address and contact number	
FOR	<b>Rajkiya Engineering College (REC)</b> <b>Deogaon, Azamgarh</b> (Located on Azamgarh-Varanasi Road at approx 43 kms from Azamgarh and 4.0kms from Deogaon-Jiwali Road (Jaunpur))
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Signature and Seal of Bidders



**Civil Engg Department**  
**Ralkiya Engg.College Azamgarh**

**Package 10 - Highway Engineering Lab.**

**Tender Cost: Rs. 500.00**

**EMD- Rs. 24900.00**

**Bill of Quantity for Highway Engineering Lab.:**

<b>Sr. No.</b>	<b>Name Item</b>	<b>Specifications</b>	<b>Qty.</b>	<b>Unit Cost</b>	<b>Total Cost</b>	<b>Remarks</b>
1.	Flash and fire point apparatus		1			
2.	G I Sheet sieves (450 mm dia)		1			
3.	Brass sieve set 20 mm		1			
4.	High speed grinder		1			
5.	Loss angels abrasion testing machine		1			
6.	Viscometer		1			
7.	Ring & ball Apparatus(Electrically operated)		1			
8.	Standard penetrometer		1			
9.	Aggregate Impact tester		1			
10.	Water bath		1			
11.	Ductility testing machine		1			
12.	Float test apparatus		1			
13.	Marshal test stability testing machine		1			
14.	Benkleman beam		1			
15.	Sieve shaker moterised		1			
16.	Field CBR apparatus		1			
17.	Length gauge		2			
18.	Thickness gauge		2			
19.	Wire basket		1			
20.	Hot air oven		1			
21.	Digital electronics balance		1			
22.	Lab stirrer		1			

**Rajkiya Engineering College (REC)**  
**Deogaon, Azamgarh**  
**(M.M.M.University of Technology Campus Gorakhpur-273010)**

**TENDER DOCUMENT**

**(FOR Rajkiya Engineering College (REC)**  
**Deogaon, Azamgarh)**

Bidders Proforma

Tender	Purchase and Commissioning of Equipments for Physics Lab of Applied Science.
Name of the firm with full address and contact number	
FOR	<b>Rajkiya Engineering College (REC)</b> <b>Deogaon, Azamgarh</b> (Located on Azamgarh-Varanasi Road at approx 43 kms from Azamgarh and 4.0kms from Deogaon-Jiwali Road (Jaunpur)
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Signature and Seal of Bidders

**Applied Science Department  
Ralkiya Engg.College Azamgarh**

**Package 11 - Physics Lab**

**Tender Cost: Rs. 500.00**

**EMD- Rs. 34200.00**

**Bill of Quantity for Physics Lab:**

<b>Sr. No.</b>	<b>Name Item</b>	<b>Specifications</b>	<b>Qty.</b>	<b>Unit Cost</b>	<b>Total Cost</b>	<b>Remarks</b>
1.	Bi Prism Assembly for Interference Experiment with Sodium		2			
2.	Newton's Ring Experiment with Sodium Lamp		2			
3.	Nodal Slide Experiment complete		2			
4.	Grating Experiment, complete with mercury Ramp and spectrometer		2			
5.	Diffraction Experiment with bench , sodium lamp		2			
6.	Lasers He – Ne – 1 m W for above Experiment		2			
7.	Magnetic field on Axis of a coil, complete		2			
8.	Steffen's law by Electrical Method		2			
9.	Cary Footer Bridge Expt. Complete		2			
10.	B – H- Curve apparatus complete		2			
11.	Hall Effect Setup		2			
12.	Band Cap of Diode		2			
13.	Calibration of Voltmeter		2			
14.	Calibration of Ammeter		2			
15.	Corrosion of Galvanometer Ammeter		2			
16.	Corrosion of Galvanometer – Volt meter		2			
17.	Tables 4' X 6' X 2/1/2", sun mica Top		10			
18.	Chain		25			
19.	Spirometer		10			
20.	Ves-Callipers		10			
21.	Lens, Prisms, Gratings (Sparer), with etc.		50			
<b>Total</b>						

**Rajkiya Engineering College (REC)**  
**Deogaon, Azamgarh**  
**(M.M.M.University of Technology Campus Gorakhpur-273010)**

**TENDER DOCUMENT**

**(FOR Rajkiya Engineering College (REC)**  
**Deogaon, Azamgarh)**

Bidders Proforma

Tender	Purchase and Commissioning of Equipments for Chemistry Lab of Applied Science.
Name of the firm with full address and contact number	
FOR	<b>Rajkiya Engineering College (REC)</b> <b>Deogaon, Azamgarh</b> (Located on Azamgarh-Varanasi Road at approx 43 kms from Azamgarh and 4.0kms from Deogaon-Jiwali Road (Jaunpur)
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Signature and Seal of Bidders

**Applied Science Department  
Ralkiya Engg.College Azamgarh**

**Package 12 - Chemistry Lab**

**Tender Cost: Rs. 500.00**

**EMD- Rs. 16680.00**

**Bill of Quantity for Chemistry Lab:**

<b>Sr. No.</b>	<b>Name Item</b>	<b>Specifications</b>	<b>Qty.</b>	<b>Unit Cost</b>	<b>Total Cost</b>	<b>Remarks</b>
<b>A. Glass-wares</b>						
1.	Burette		50			
2.	Pipette		50			
3.	Conical flasks		50			
4.	Beakers		100			
5.	Glass rods		100			
6.	Clamp stand		100			
7.	Jar (100 ml, 200 ml, 500 ml, 1000 ml)					
8.	Measuring flask 100 ml, 250 ml, 500 ml , 1000 ml					
9.	Balances (Analytical) / Electrical		10			
10.	Hot Plates (Heating System)		10			
11.	Kip's Apparatus		L S			
<b>Total A</b>						
<b>B.Equipment</b>						
1.	pH meter		5			
2.	Conductivity meter		5			
3.	Calorie meter		5			
4.	Thermo Stats		5			
5.	Water distillation Plant		2			
<b>Total B</b>						
<b>Total A + B</b>						

**Rajkiya Engineering College (REC)**  
**Deogaon, Azamgarh**  
**(M.M.M.University of Technology Campus Gorakhpur-273010)**

**TENDER DOCUMENT**

**(FOR Rajkiya Engineering College (REC)**  
**Deogaon, Azamgarh)**

Bidders Proforma

Tender	Purchase and Commissioning of Equipments for Workshop of Workshop.
Name of the firm with full address and contact number	
FOR	<b>Rajkiya Engineering College (REC)</b> <b>Deogaon, Azamgarh</b> (Located on Azamgarh-Varanasi Road at approx 43 kms from Azamgarh and 4.0kms from Deogaon-Jiwali Road (Jaunpur)
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Signature and Seal of Bidders

**Workshop Department**  
**Ralkiya Engg.College Azamgarh**

**Package 13- Workshop**

**Tender Cost: Rs. 500.00**

**EMD- Rs. 35280.00**

**Bill of Quantity for Workshop:**

Sr. No.	Name Item	Specifications	Qty.	Unit Cost	Total Cost	Remarks
<b>A. Machine Shop</b>						
1.	LATHE MACHINE • 3 Jaw Chuck • 4 Jaw Chuck • Steady Rest • Follow Rest • Face Plate • Coolant Pump • Work Light • Chang Gears • Dial Indicator • Dead Center and Center Sleeve • Splash Guard • Chip Pan • Toolbox with Tools	Max .swing die over bed 360mm Max .swing die over gap 508mm Max .swing die over carriage 215mm Bed width 186	01			
2.	Lathe Machine 5' 6" with 1 Hp motor, 3 jaw 200 Ø, 4 jaw 200 Ø chuck and electrical.		01			
3.	Cutting tools, drill bits 20 set, tap set die etc					
4.	Shearing m/c	3"ft	01			
5.	Pedestal grinder	8" wheel	01			
6.	Pillar electric drill m/c	12 mm capacity	01			
7.	Power Hacksaw with auto stop , hydraulic type, ac motor 3 phase	complete	01			
<b>TOTAL A</b>						
<b>B. WELDING SHOP</b>						
1.	Electric Arc Welding machine set complete	5 H.P., 12 KVA 50 cycle 50 to 400 Amp.	01 Nos.			
2.	Electrode holder	Std. size	02 Nos.			
3.	Hand Welding screen	Std size	06 Nos.			
4.	Chipping hammer	1/4 kg	06 Nos.			
5.	Leather Apron	Std. size	06 Nos.			
6.	Ball peen hammer	1 ½ lbs	02 Nos.			
7.	Flat Tong	12"	06 Nos.			
8.	Goggles for gas welding	Std size	06 Nos.			
9.	Plier	8"	02 Nos.			
10.	Screw Driver	12"	02 Nos.			
11.	Working Table Metal	3' x2 'x 3'	02 Nos.			

				<b>Total B.</b>			
<b>C. FITTING SHOP</b>							
1.	Venire Caliper 0-200mm		01				
2.	Letter Punch						
3.	Steel Scale 6"		03				
4.	Steel Scale 12"		03				
5.	Chisel Cold 4"		02				
6.	Centre Punch		06				
7.	Try Square 4"		04				
8.	Tap set 10 x 1.5"		01				
9.	Divider 15 cm spring		06				
10.	Inside Caliper 15cm		06				
11.	Outside Caliper 15cm		06				
12.	'V' Block with clamp 75x38mm		01				
13.	Surface plate 18" x 24"		01				
14.	Try square 6		03				
15.	Combination Set 30cm		01				
16.	Flat File (B) 12" J.K. MAKE		10				
17.	Flat File (S) 12" J.K. MAKE		06				
18.	Flat File (S) 12" J.K. MAKE		06				
19.	Flat File (B) 12" J.K. MAKE		06				
20.	Round File (B) 10" J.K. MAKE		03				
21.	Round File (S) 10" J.K. MAKE		03				
22.	Triangular File (S) 6" J.K. MAKE		03				
23.	Triangular File (S) 8" J.K. MAKE		03				
24.	Triangular File (B) 10" J.K. MAKE		03				
25.	Triangular File (S) 10" J.K. MAKE		03				
26.	Knife Edge File 10" J.K. MAKE		01				
27.	Knife Edge File 8" J.K. MAKE		01				
28.	Knife Edge File 6" J.K. MAKE		01				
29.	Flat Chisel 1/2"		04				
30.	Flat Chisel 3/4"		04				
31.	Diamond Point Chisel 6"		02				
32.	Adjustable Hacksaw Frame		06				
33.	Ball Peen Hammer 800 gm		06				
34.	Cross Peen Hammer 800 gm		06				
35.	* Straight Peen Hammer 800 gm		06				
36.	JennyCalliper		06				
37.	Combination Pliear 15cm		01				
38.	Screw Driver 8" Pye / Taparia Make		04				
39.	Screw Driver 10" Pye / Taparia Make		04				
40.	Screw Driver 12" Pye / Taparia Make		04				
41.	Feeler Gauge		01				
42.	* Out side Micrometer 50-		01				



	75mm					
43.	* Inside Micrometer 25mm to 50mm		01			
44.	File Brush		06			
45.	Hacksaw Blade		200			
46.	File Handle (Wooden)		50			
47.	Hammer Handle (Wooden)		50			
48.	Adjustable Wrench 12"		01			
49.	Scriber 6"		06			
50.	Inch Type 3 Mtr. FREE MAN MAKE		01			
51.	Ring Spanner Set 12 Pc (110 mm – 32 mm)		12			
52.	Number Punch Set 3 mm		01			
53.	Bench vice standard 6"		10			
			<b>Total C.</b>			
<b>D. SHEET METAL SHOP</b>						
1.	Shearing Machine 12"		01			
2.	Mallet Square		10			
3.	Trammel		01			
4.	Hallow Punch Set		02			
5.	Grooving Punch Set		02			
6.	Solid Punch Set		02			
7.	Hand Shear 18"		02			
8.	Scriber 6"		06			
9.	Chisel 1/2"		06			
10.	Try Square 6"		03			
11.	Anvil 25 kg with Stand		01			
12.	Long Nose Pliers 6"		02			
13.	Cutting Pliers 6"		02			
14.	Square Hammer (Small)		03			
15.	Square Hammer (Big)		03			
16.	Stake –Round Nose		01			
17.	Stake –Hatchet		01			
18.	Stake-Beak- Horn		01			
19.	Stake –Hand Dolly		01			
20.	Wire Gauge		01			
			<b>Total D.</b>			
<b>E. CARPENTRY SHOP</b>						
1.	Wood Working Vice		10			
2.	Marking Gauge		03			
3.	Mortise Gauge		03			
4.	Steel Scale 12"		06			
5.	'C' Clamp		01			
6.	'G' Clamp		01			
7.	Scriber 6"		06			
8.	Bevel Square 6"		04			
9.	Rip Saw 20"		10			
10.	Cross cut saw 20"		06			
11.	Panel Saw 10"		02			
12.	Compass saw 12"		02			
13.	Key hole saw 12"		02			
14.	Tennon Saw 12"		05			
15.	Dovetail Saw 12"		05			

16.	Firmer Chisel ¼"		06			
17.	Firmer Chisel ½"		06			
18.	Firmer Chisel ¾"		06			
19.	Firmer Chisel 1"		06			
20.	Dovetail Chisel ¼"		06			
21.	Dovetail Chisel ½"		06			
22.	Dovetail Chisel ¾"		06			
23.	Dovetail Chisel 1"		06			
24.	Mortise Chisel ¼"		06			
25.	Mortise Chisel ½"		06			
26.	Mortise Chisel ¾"		06			
27.	Mortise Chisel 1"		06			
28.	Wooden Jack Plane		02			
29.	Iron Jack Plane		02			
30.	Counter Sink Bit ¼"		01			
31.	Counter Sink Bit 3/16"		01			
32.	Counter Sink Bit 3/8"		01			
33.	Wooden Mallet		15			
34.	Claw Hammer 200 gm		06			
35.	Pincer 6"		06			
36.	Rosp Cut File 12"		03			
37.	Rosp Cut File 10"		03			
38.	Oil Steiner		02			
39.	Inch Tape 5 Mtr		02			
40.	Divider 6"		04			
41.	Screw Driver 8" Pye / Taparia Make		02			
42.	Screw Driver 10" Pye / Taparia Make		02			
43.	Screw Driver 12" Pye / Taparia Make		02			
44.	Triangular File 6" (S) J.K. MAKE		10			
45.	Shikanja (Bar Clamp) 5'		01			
46.	Handle for Chiseal		50			
			<b>Total E.</b>			

#### **F. BLACK SMITHY SHOP**

1.	Blower 1HP		02			
2.	Pipe Vice 4"		01			
3.	Anvil Stand		01			
4.	Swage Block 50Kg		01			
5.	Swage Block Stand		01			
6.	Beak Iron 25Kg		01			
7.	Close Flat Tong 18"		06			
8.	Flat Bar Tong 18"		06			
9.	Pincer Tong 18"		06			
10.	Belt Tong 18"		06			
11.	Round Hallow Tong 18"		06			
12.	Square Hollow Tong 18"		06			
13.	Pick up Tong 18"		06			
14.	Cold Chisel ¾"		03			
15.	Cold Chisel 1"		03			
16.	Hot Chisel ¾"		03			
17.	Hot Chisel 1"		03			

18.	Ball Pen Hammer 1.5Kg		04			
19.	Straight Peen Hammer 1.5Kg		04			
20.	Cross Peen Hammer 1.5Kg		04			
21.	Sledge Hammer 5Kg (Double face)		01			
22.	Sledge Hammer 3Kg (Straight)		01			
23.	Round Swage Top & Bottom		01			
24.	Flat Swage Top& Bottom		01			
25.	Set Hammer 500gm		02			
26.	Drift & Punch		02			
27.	Punch Set		02			
28.	Shawl		01			
29.	Poker		02			
30.	Steel Scale 12"		06			
31.	Pipe Wrench 18"		01			
32.	Hacksaw Frame		06			
33.	Gloves		10			
34.	Goggels		10			
			<b>Total F.</b>			
<b>G. FOUNDRY SHOP</b>						
35.	Foundry Pits and Furnaces					
			<b>Total G.</b>			
			<b>Total (A + B + C + D + E + F + G )</b>			