

**Rajkiya Engineering College (REC)
Deogaon, Azamgarh (UP)
(M.M.M.UNIVERSITY OF TECHNOLOGY CAMPUS GORAKHPUR)**

Tender No: 01/REC/2016-17

Dated : 24-05-2016

Tender Notice

Director, REC, Azamgarh invites sealed Tenders from eligible bidders for supply and commissioning of Lab Equipments for different departments and Drinking Water Cooler with RO for **Rajkiya Engineering College Deogaon, Azamgarh (UP)**. Separate tenders must be submitted at office of REC AZAMGARH (MMMUT Campus Gorakhpur) for each package. The tender documents can be downloaded from the College website www.gecazamgarh.ac.in and may be submitted by 13-06-2016 upto 02.00 pm. Tenders will be opened on the same day at 03:00 PM in the REC 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

DIRECTOR

Tender Date :	24-05-2016
Date for tender submission	24-05-2016 to 13-06-2016 upto 02.00 pm
Place where tender will be submitted :	Office Rajkiya Engineering College, Electrical Engg. Department, M M M University of Technology Campus, Gorakhpur - 273010
Tender opening date and Time :	13-06-2016 on 03.00 pm
Tender opening place :	Office Rajkiya Engineering College, Electrical Engg. Department, M M M University of Technology Campus, Gorakhpur - 273010
Draft, in favor of	Director, Rajkiya Engineering College, Azamgarh
Payable at	SBI, MMMUT Branch , Gorakhpur Branch Code : 02578, IFS Code : SBIN0002578

Rajkiya Engineering College (REC) Deogaon, Azamgarh

TENDER DOCUMENT

Tender No: 01/REC/2016-17

Dated : 24-05-2016

Opening Date: 13-06-2016

Opening Time: **03.00 PM**

Opening Place: **GEC 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 is 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/ Water Coolers and ROs 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) payable at SBI, MMMUT Branch Gorakhpur. Both envelopes should be kept in one big envelope. The tenders should reach to undersigned latest 13-06-2016 at **2.00 PM**.
6. ***Tenders are being invited to purchase and commissioning of equipments/Water Coolers and ROs 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

Sl. No	Package	Name of Laboratory	Department	Earnest Money (in Rs)
1	Package 01	Machine Drawing Lab	Mechanical Engg	5130.00
2	Package 02	Manufacturing Science-I Lab	Mechanical Engg	9330.00
3	Package 03	Measurement and Metrology Lab	Mechanical Engg	17400.00
4	Package 04	Machine Design Lab	Mechanical Engg	720.00

(B) INFORMATION TECHNOLOGY DEPARTMENT

Sl. No	Package	Name of Laboratory	Department	Earnest Money (in Rs)
1	Package 05	Computer Organization Lab	IT	24000.00

(C) CIVIL ENGINEERING DEPARTMENT

Sl. No	Package	Name of Laboratory	Department	Earnest Money (in Rs)
1	Package 06	Environmental Engineering Lab.	Civil Engg	35130.00
2	Package 07	Geo-Technical Lab.	Civil Engg	37110.00
3	Package 08	Highway Engineering Lab.	Civil Engg	24900.00

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

Sl. No	Package	Name of Laboratory	Department	Earnest Money (in Rs)
1	Package 09	Physics Lab	Applied Science	34200.00
2	Package 10	Chemistry Lab	Applied Science	16680.00
3	Package 11	Foundry and casting Equipments etc.	Mechanical Engg	30000.00

(E) Water Cooler and RO

Sl. No	Package	Name of Laboratory	Earnest Money (in Rs)
1	Package 12	Drinking Water Cooler with RO	19000.00

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	Rajkiya Engineering College (REC) Deogaon, Azamgarh (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

Ralkiya Engg.College Azamgarh

Package 01Machine Drawing Lab

Tender Cost: Rs. 500.00

EMD- Rs. 5130.00

Bill of Quantity for Machine Drawing Lab:

Sr. No.	Name Item	Specifications	Qty.	Unit Cost	Total Cost	Remarks
1.	Drawing Board	Suitable for A ₀ 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 Value Screw Jack Connecting rod, Safety Valve, Stuffing Box	Wooden model One Each	6			
	TOTAL					

Rajkiya Engineering College (REC)
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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	Rajkiya Engineering College (REC) Deogaon, Azamgarh (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
Ralkiya Engg.College Azamgarh**

Package 02 Manufacturing Science-I Lab

Tender Cost: Rs. 500.00

EMD- Rs. 9330.00

Bill of Quantity for Manufacturing Science-I Lab:

Sr. No.	Name Item	Specifications	Qty.	Unit Cost	Total Cost	Remarks
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 Measurement and Metrology Lab of Mechanical Engg.
Name of the firm with full address and contact number	
FOR	Rajkiya Engineering College (REC) Deogaon, Azamgarh (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
Ralkiya Engg.College Azamgarh**

Package 03 Measurement and Metrology Lab

Tender Cost: Rs. 500.00

EMD- Rs. 17400.00

Bill of Quantity for Measurement and Metrology Lab:

Sr. No.	Name Item	Specifications	Qty.	Unit Cost	Total Cost	Remarks
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.	Vevel 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					

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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	Rajkiya Engineering College (REC) Deogaon, Azamgarh (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)
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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
Ralkiya Engg.College Azamgarh**

Package 04 Machine Design Lab

Tender Cost: Rs. 500.00

EMD- Rs. 720.00

Bill of Quantity for Machine Design Lab:

Sr. No.	Name Item	Specifications	Qty.	Unit Cost	Total Cost	Remarks
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 Equipments for Computer Organization Lab of Information Technology.
Name of the firm with full address and contact number	
FOR	Rajkiya Engineering College (REC) Deogaon, Azamgarh (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
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Details of Similar Work Executed during last Three years	Attach proof

Signature and Seal of Bidders

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

Package 05- Computer Organization Lab

Tender Cost: Rs. 500.00

EMD- Rs. 24000.00

Bill of Quantity for Computer Organization Lab:

Sr. No.	Kit Name	Kit Technical Specification / Model Details	Qty.	Unit Cost	Total Cost	Remarks
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	Rajkiya Engineering College (REC) Deogaon, Azamgarh (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 06 - 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
(A) EQUIPMENTS						
1	Turbidity meter	Accuracy: 0 - 10,00 NTU, \pm 2% of reading , Operating range: 0° - 50°C	1			
2	Colour Comparator	Color Comparator disc at cobalt scale as per IS specifications	1			
3	Conductivity Meter	As per relevant I.S. Specification	1			
4	Sound level meter	Range 40-140 dB, high and low measuring ranges Accuracy (+/-) 1.5 dB, fast response time, backlit display, complete with microphone, wind screen and battery etc.	1			
5	pH meter	pH meter with digital display, pH range 0 – 14, Resolution : 0.01 pH, Table model with Probe and Automatic Temp. Compensation	4			
6	Balance with Sensitivity 0.000gm	Electronic balance Sensitivity : 0.0001 gm and capacity 160 gm	1			
7	Distilled Water Plant	Complete assembly of borosil glass with	1			

		embedded heating elements to work on 220/230 volts A.C. supply output capacity 3 Litres/Hr				
8	Biological microscope	Biological Microscope with Colony counter & photographic attachments as per IS specifications	1			
9	B.O.D. Incubator	B.O.D. Incubator double walled outer & Inner are made of S.S. with three shelves, temp. controlled by LCD graphic display Capacity 6.1 Cu. Ft.	1			
10	Hot Air Oven	Double walled, outer & inner wall made of S.S. > Gap between inner & outer chamber should be filled with high grade glass wool Thermostatically controlled Temp. Range 20° C to 250° C	1			
11	Kheldahl Nitrogen Assembly	Unit should be made of borosil glass complete with all accessories as per IS specifications	1			
12	Flouride testing Kit	The test kit should be based on bleaching of Zirconium Xylenol	1			

		Orange complex depending on fluoride content in water. Range: 0.0 to 3.0 mg/l				
Total						
(B) Glass Ware						
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			
Total						
(C) CHEMICALS						
1	Hydrochloric Acid		2.5lt			
2	Sulphuric Acid H ₂ SO ₄		5lt			
3	Methyl Drawee Indicator		200ml			
4	Phenolphthalein Indicator		250ml			
5	Nessler's Reagent		250ml			
6	Chlorine Water		200ml			
7	Sodium HydroliteMaOH		500gm			
8	Silver Nitrate AgNO ₃		100gm			
9	Potassium Chromate H ₂ Co ₂ O ₄		500gm			
10	Erichrme Block – T		100gm			
11	Ammonium Chloride NH ₄ Cl		500gm			
12	Ammonia Liquid NH ₄ OH		25lt			
13	EDTA		200gm			
14	Magnesium Chloride MgCl ₂		500gm			
15	Calcium Chloride CaCl ₂		500gm			
16	Magnoussulphate MnSO ₄		500gm			
17	Potassium Thiasulphate		500gm			
18	Sodium Thiasulphate		500gm			
19	Starch		1kg			
20	Di Hydrogen Potassium Phosphate KH ₂ PO ₄		500gm			

21	Di-Potassium Hydrogen Phosphate K_2HPO_4		500gm			
22	Di-Sodium Hydrogen Phosphate $Na_2HPO_4 \cdot 7H_2O$		500gm			
23	Magnesium Sulphate $MgSO_4 \cdot 7H_2O$		500gm			
24	Ferric Chloride $FeCl_3$		500gm			
25	Potassium dichromate $K_2Cr_2O_7$		500gm			
26	1:10 Phenanthrleinsulphate		100gm			
27	Ferrous Sulphate		500gm			
28	Ferrous Ammonium Sulphate		500gm			
	Total					
	Total Cost (A+B+C)					

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	Rajkiya Engineering College (REC) Deogaon, Azamgarh (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 07- Geo-Technical Lab.

Tender Cost: Rs. 500.00

EMD- Rs. 37110.00

Bill of Quantity for Geo-Technical Lab.:

Sr. No.	Name Item	Specifications	Qty.	Unit Cost	Total Cost	Remarks
1.	Balance	Digital with sensitivity 20Kg1gms	1			
2.	Balance	Digital with sensitivity 3Kg0,1gms	1			
3.	Balance	Digital 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. Cast Iron Body 2. Adjustable top clamping plate provided for holding sieves 3. Suitable for operating on 220 v, 50 Hz, single phase supply	1			
6.	Hydrometer	Conforming to IS:2720 (Part IV) Graduated Scale of 0.995 g/ml to 1.030 g/ml at 27° C	10			
7.	Measuring cylinder (borosil) 1000 ml	Conforming to IS:2720 (Part IV) To be supplied complete with rubber bung	10			

8.	Liquid limit apparatus	<p>Conforming to IS:2720 (Part V)</p> <p>Fitted with brsdd cup, crank and cam mechanism mounted on rubber base</p> <p>Fitted with drop counter</p> <p>Fitted with a F.H.P. motor to drive the operating mechanism of cup at 120 rpm</p>	4			
9.	Porcelain dish		10			
10.	Granite(2" X 2")		1			
11.	Shrinkage limit apparatus	<p>Conforming to IS:10077 and IS:2720 (Part VI)</p> <p>Complete set including square prong plate, square plain plate, stainless steel shrinkage dish, glass cup with ground edge and flexible spatula</p>	5			
12.	Proctor Compaction test app.	<p>Indian Light compaction Equipment as per IS:2720 (Part VII) should include standard mould, collar, base plate and rammer</p>	3			
13.	Relative density app.	<p>Conforming to IS:2720 (Part XIV), IS: 10837 should include vibrating table suitable to</p>	1			

		work with 440v, 50 Hz of size 750 square mm, cylindrical unit weight mould, guide sleeve, surcharge weight, etc.				
14.	Core cutter with hammer	Conforming to IS:2720 (Part XXIX), consisting of cylindrical core cutter 100 mm X 130 mm and rammer	6			
15.	Sand replacement apparatus	Conforming to IS:2720 (Part XXVIII), consisting of sand pouring cylinder, calibration container, metal tray, etc.	6			
16.	Permeability test apparatus	Conforming to IS:2720 (Part XXVII), IS: 11209 consisting of permeameter mould 1 l capacity stand pipes, stilo overhead tank and light and heavy rammers with appropriate mounting for stand pipes	1			
17.	Direct shear test app.	Conforming to IS:2720 (Part XIII), consisting of hand operated/ motorized horizontal loading system. Should include shear box assembly 60	1			

		square mm, set of weights complete with all accessories				
18.	Static cone penetration test app (with accessories)	<p>Conforming to requirements of IS: 4968 (Part III) 1976</p> <p>Consisting of gear drive assembly with winch and pinion mechanism</p> <p>The unit should be complete with screw type anchors, mantle tubes, sounding rods, cone with friction jacket, pressure gauges and automatic cut-off device for pressure gauge, complete with all accessories</p>	1			
19.	SPT & DCPT Apparatus(with accessories)	<p>1. The equipment should fulfill the requirements of IS:2131 1981. The equipment should be consisting of standard tripod stand with 5m long mild steel legs, pulley, drop hammer, drill rods and split spoon sampler. The equipment should be complete with all accessories</p> <p>2. The equipment should fulfill the</p>	1			

		requirements of IS:2131 1981. The equipment should be consisting of standard tripod stand with 5m long mild steel legs, pulley, drop hammer, drill rods and cone (50 mm dia and 60° apex. The equipment should be complete with all accessories				
20.	Post hole auger with handle	Post hole auger outfit having 50 mm/ 75 mm/ 100 mm auger heads with 1 m long extension rods.	2			
21.	Split spoon sampler	As per IS: 9640 should consist of split barrel 35 mm id 50.8 mm od and 500 mm long, complete with driving shoe and cutting edge	1			
22.	Liner	Brass liners for split spoon samplers having od 35 mm	10			
23.	S.P.T. Drill Rod	As per IS: 9640	25			
	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 Highway Engineering Lab. of Civil Engg.
Name of the firm with full address and contact number	
FOR	Rajkiya Engineering College (REC) Deogaon, Azamgarh (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

Civil Engg Department
Ralkiya Engg.College Azamgarh

Package 08- Highway Engineering Lab.

Tender Cost: Rs. 500.00

EMD- Rs. 24900.00

Bill of Quantity for Highway Engineering Lab.:

Sr. No.	Name Item	Specifications	Qty.	Unit Cost	Total Cost	Remarks
1.	Flash and fire point apparatus	Complete set to determine flash & fire point of bitumen as per IS: 1209 (Electrically heated)	1			
2.	G I Sheet sieves (450 mm dia)	Complete set of G I Sheet sieves (450 mm dia) to determine gradation as per IS	1			
3.	Brass sieves set(20 mm dia)	Complete set of Brass sieve set(20 mm dia) to determine gradation as per IS	1			
4.	High speed grinder	Complete set to grind stone aggregate in laboratory	1			
5.	Loss angels abrasion testing machine	Complete set to determine abrasion value of stone aggregate as per IS: 2386,Part IV	1			
6.	Viscometer	Complete set to determine viscosity of bitumen as per IS: 1206,Part I	1			
7.	Ring & ball Apparatus(Electrically operated)	Complete set to determine softening point of bitumen as per IS:	1			

		1205 (Electrically heated)				
8.	Standard penetrometer	Complete set to determine penetration /grade of bitumen as per IS: 1203	1			
9.	Aggregate Impact tester	Complete set to determine Impact value of stone aggregate as per IS: 2386,Part IV	1			
10.	Water bath	Double walled with thermostat controlled to be used in laboratory	1			1
11.	Ductility testing machine	Complete set to determine ductility value of bitumen as per IS: 1208	1			
12.	Float test apparatus	Complete set to determine ductility value of bitumen as per IS requirements	1			
13.	Marshal test stability testing machine	Complete set to determine optimum bitumen content & other values of bituminous concrete as per IS requirements	1			
14.	Benkelman beam	Complete set to determine structural rebound & other values of bituminous concrete as per IS requirements	1			

15.	Sieve shaker motorized	Complete motorized set to shake the sieves of 450 mm size	1			
16.	Field CBR apparatus	Complete set to determine CBR in field as per IS requirements	1			
17.	Length gauge	Complete set to determine elongation index of stone aggregate as per IS: 2386,Part I	2			
18.	Thickness gauge	Complete set to determine flakiness index of stone aggregate as per IS: 2386,Part I	2			
19.	Wire basket	Standard size with bulk density measuring cylinder as per IS 2386 part IV	1			
20.	Hot air oven	Size 600mm x600mm x600mm,digital temperature display & 1 degree centigrade accuracy	1			
21.	Digital electronic balance	Capacity 20 Kg and sensitivity 1 gm	1			
22.	Lab stirrer	Motorized model of stainless steel material with stand	1			
				Grand 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 Physics Lab of Applied Science.
Name of the firm with full address and contact number	
FOR	Rajkiya Engineering College (REC) Deogaon, Azamgarh (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

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

Package 09 - Physics Lab

Tender Cost: Rs. 500.00

EMD- Rs. 34200.00

Bill of Quantity for Physics Lab:

Sr. No.	Name Item	Specifications	Qty.	Unit Cost	Total Cost	Remarks
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			
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 Chemistry Lab of Applied Science.
Name of the firm with full address and contact number	
FOR	Rajkiya Engineering College (REC) Deogaon, Azamgarh (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 10 - Chemistry Lab

Tender Cost: Rs. 500.00

EMD- Rs. 16680.00

Bill of Quantity for Chemistry Lab:

Sr. No.	Name Item	Specifications	Qty.	Unit Cost	Total Cost	Remarks
A. Glass-wares						
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			
			Total A			
B.Equipment						
1.	pH meter		5			
2.	Conductivity meter		5			
3.	Calorie meter		5			
4.	Thermo Stats		5			
5.	Water distillation Plant		2			
			Total B			
			Total A + 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 Foundry and Casting Equipments etc.
Name of the firm with full address and contact number	
FOR	Rajkiya Engineering College (REC) Deogaon, Azamgarh (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

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

Package 11 Foundry and Casting Equipments etc.

Tender Cost: Rs. 500.00

EMD- Rs. 30000.00

Bill of Quantity for Foundry and Casting Equipments etc.:

Sr. No.	Name Item	Specifications	Qty.	Unit Cost	Total Cost	Remarks
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			
Total						

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

Bidders Proforma

Tender	Supply & Commissioning of 150 litre Drinking Water Cooler with 100 litre RO Package –12
Name of the firm with full address and contact number	
FOR	Rajkiya Engineering College (REC) Deogaon, Azamgarh (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
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Original Equipment Manufacturers /Authorization Letter from O.E.M.	Attach proof
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Details of Similar Work Executed during last Three years	Attach proof

Signature and Seal of Bidders

**Drinking Water Cooler with RO
Package –12**

Tender Cost: Rs. 500.00

EMD- Rs. 19000.00

Bill of Quantity for supply & commissioning of :

S.N.	Item	Quantity	Unit Price	Total Amount
1.	Drinking water Cooler 150 ltr Capacity –Voltas/Blue Star	10 No		
2.	R.O. 250litres/Hr; 7 stage water purifier system Standard Make & Quality	10 No		