

**OFFICE OF THE DEAN,
COLLEGE OF AGRICULTURE, GWALIOR - 474002**

No. IPRO/Dean/SS/2011/1951

Dated: 13.12.11

TENDER NOTICE

Sealed tenders are invited from reputed firm/Companies for purchase of Carbon analyzer, Soil particle analyzer, TDR moisture meter under the Research project on Ravines of Chamabl on or before 02:00 pm, 24.12.2011, the tender form and other terms & conditions can be obtained from the office of the undersigned and website from 15.12.2011. For detail information please visit our website www.rvskvv.nic.in

DEAN

Collage of Agriculture, Gwalior

Rajmata Vijayaraje Scindia Krishi Vishwa Vidyalaya
College of Agriculture Gwalior – 474002

Tender form for **Total Carbon Analyser**

Tender No.	
Date of publication	
Last date of accepting tender	
Amount of fee deposited for issuing tender form	Rs. 1000/-
Details of money receipt/DD No. & Date	No.date.....
DETAIL OF TENDER FORM	
Item Quoted	
Name and Address of the agency quoting the rates	
Registered address of the company /firm	
Name of Proprietor with telephone no.	
Details of earnest money (FDR/DD/ Bankers cheque) (EMD: Rs. 30,000/-)	Rs. 30,000/- No..... Date.....
Period for which FDR/DD/ Bankers cheque is issued	
Name of Bank issuing FDR/DD/Bankers Cheque	

SIGNATURE

Rajmata Vijayaraje Scindia Krishi Vishwa Vidyalaya
College of Agriculture Gwalior – 474002

Tender form for Soil Partical Size Analyser

Tender No.	
Date of publication	
Last date of accepting tender	
Amount of fee deposited for issuing tender form	Rs. 1000/-
Details of money receipt/DD No. & Date	No.date.....
DETAIL OF TENDER FORM	
Item Quoted	
Name and Address of the agency quoting the rates	
Registered address of the company /firm	
Name of Proprietor with telephone no.	
Details of earnest money (FDR/DD/ Bankers cheque) (EMD: Rs. 30,000/-)	Rs. 30,000/- No..... Date.....
Period for which FDR/DD/ Bankers cheque is issued	
Name of Bank issuing FDR/DD/Bankers Cheque	

SIGNATURE

Rajmata Vijayaraje Scindia Krishi Vishwa Vidyalaya
College of Agriculture Gwalior – 474002

Tender form for **TDR Moisture Meter**

Tender No.	
Date of publication	
Last date of accepting tender	
Amount of fee deposited for issuing tender form	Rs. 1000/-
Details of money receipt/DD No. & Date	No.date.....
DETAIL OF TENDER FORM	
Item Quoted	
Name and Address of the agency quoting the rates	
Registered address of the company /firm	
Name of Proprietor with telephone no.	
Details of earnest money (FDR/DD/ Bankers cheque) (EMD: Rs. 8,000/-)	Rs. 8,000/- No..... Date.....
Period for which FDR/DD/ Bankers cheque is issued	
Name of Bank issuing FDR/DD/Bankers Cheque	

SIGNATURE

SPECIFICATION

Item: 1 TOTAL CARBON ANALYZER

- Analytes: TC, IC, TOC
- Analysis method: TC: Catalytic oxidation and thermal decomposition at 700°C to 1100°C.
IC: Reaction with acid in a reactor, adjustable between 20°C. and 150°C.
TOC: Calculation or direct measurement after pre-treatment by acidification. (NPOC)
- Detection method: Synchronous dual wavelength infrared detection (NDIR).
- Applications: Industrial solid waste, waste waters, strong acids and alkaline solutions, sludges and sediments, soil & plant, fertilizer, lime stone, mining, swab sampling.
- Minimum detection: 0.002 mg Carbon (absolute)
- Analytical range: 0.005 – 120 mg Carbon (absolute)
- Measuring range: 0.001 – 100%*
- Max. sample weight: Up to 3 gram for solids and up to 1 gram (1 ml.) for liquids.
- Pre-treatment: Drying and milling (homogenizing) in accordance with ISO 11464 and ISO 11465 for soils.
- Reproducibility: $\pm 2\%$.
- Measurement time: TC 3 to 6 minutes. IC 3 minutes.
- Data processing: Detector signal: Area calculation.
Data: Multi point linear regression, exclusion of results and recalculations statistical calculation.
- Output: I/O: Windows based software.

Results: Computer screen, floppy disc, printer and ASCII files.

Item: 2**Nano-Particle Size Analyzer and zeta potential measurement Instrument (Dynamic Light Scattering)**

S. N.	Feature	Description
1.	Principle	Dynamic light scattering
2.	Particle size measurement range	0.3 nm to 5 microns
3.	Particle size for zeta potential measurement	3.8nm to 100 microns.
4.	Measurement technique for zeta potential measurement	M3-PALS (Phase angle Light scattering)
5.	Detector	Avalanche Photo Diode (APD)
6.	Optics	The optics must be fully pre-aligned with no user adjustment required.
7.	Measurement temperature range	0°C - 90°C +/- 0.1°C, 120°C is available as optional.
8.	Light source	Laser diode, 632.8 nm, 4 mW as per ISO 13321 document
9.	Scattering angle	90 degree
10.	Sample cell	1) Disposable size cuvetts 2) Glass size cuvetts 3) Disposable Zeta cuvetts 4) Universal dip cell for Aqueous and non-aqueous samples zeta potential measurement
11.	Conductivity	Up to 200 ms/cm or more
12.	Auto-correlator	4000 channels. Min. sample time 25ns, max. delay time 8000s.
13.	Power supply	230 Volts. 50 Hz
14.	Verification of system performance	NIST traceable 60nm and 200nm standard
15.	Optional accessory	Auto-titrator
16.	Software feature	Over plots of up to 20 size or Zeta distributions must be possible.
17.	Software feature	The user must have the ability to measure the sample with manually defined parameters, or by defining a 'Standard Operating Procedure (SOP).
18.	Software feature	System should give Z-average value and poly-disperse (PDI) value

Item: 3 TDR Moisture Meter

Small size has enabled a lower cost and more affordable soil moisture recording system.

The computer software includes a three dimensional graph, which gives a dynamic display of soil moisture recharge and use by the irrigated crop.

Summed histograms and histogram slices display the dynamics of water use by the plants and soil moisture recharge from irrigation or rainfall.

This gives Growers a range of options for making instant and right decisions at proper time in the field itself regarding irrigation management.

Specifications:

Sensor Dia: 15mm

Datalogger with LCD Display

Range: Oven Dry to Saturation Volumetric.

Accuracy: Better than 1%

Temperature Range: 0 – 50 deg C

Measurement Principle: Dielectric Constant (FDR)

Memory: More than 2500 profiles

Probe Lengths: upto 1.6m

Measurement in “%age” as well as “mm”

Rajmata Vijayaraje Scindia Krishi Vishwa Vidyalaya
College of Agriculture Gwalior – 474002
Terms and conditions

Tender No.		
Date of publication		
Date of issuing the tender form	15.12.2011	On line
Last date for submission of tender	24.12.2011	Time 14.00 hrs. at Office of Dean College of Agriculture, Gwalior
Date and time of opening of tender	24.12.2011	Time 15:30 hrs. at Office of Dean, College of Agriculture, Gwalior

1. Only the registered firm/company and their authorized representative need submit the tender.
2. No person of firm shall submit more than one tender for the same item.
3. Separate tender form and fee submitted for each items.
4. Only the firm/company and their authorized representative, who can provide after sale service facility, need to submit the tender.
5. Installation and essential training for operation of instrument will be duty of firm/company.
6. Firm/Company should also provide the list of users.
7. The tenderer must submit the tender form issued by the office in original, or download form website along with fees.
8. Tender documents, signed copy of the terms and conditions duly stamped along with requisite EMD in a sealed cover, in the office of the Dean, College of Agriculture Gwalior, 474002 only by registered/speed post/courier up to 14.00 hrs of 24.12.2011
9. Belated tenders due to postal or any other delay will not be considered.
10. The EMD (Earnest Money Deposit) valid for six months from the date of issue should be in the form of A/C payee DD/ Bankers Cheque/ fixed deposit receipt of a nationalized / schedule Bank in favour of “Dean, College of Agriculture, Gwalior” payable at Gwalior. In absence of EMD in the prescribed form, the tender will not be considered. The EMD will be forfeited in case the tenderer fail to execute the order in specified time.
11. The tender offer should have validity for the financial period of 2010-11.
12. The rates quoted should be inclusive of all the Tax, F.O.R., College of Agriculture, Gwalior.
13. Each tender must be accompanied with the price list of the items failing which the tender will not be considered.
14. The tender will be opened on 24.12.2011 at 15.30 hrs by the members of the College level purchase committee in the Office of Dean, College of Agriculture, Gwalior 474002. The tenderer can depute his authorized representative to be present at the time of opening of the tenders.
15. The Dean. College of Agriculture, Gwalior reserves the right to extend due date and the date of opening of the tenders.

16. The EMD shall be released after 50 days from the date of opening of the tender.
17. The standard terms and conditions of payment acceptable are – payment in full will be made after the contract is effective in full and to the satisfaction of the authority. The payment will be released to the firm only on completion of work.
18. If so desired the tenderer should have to enter into an agreement.
19. Any deviation, variation of non-compliance by the tenderer shall be considered as breach of contract and the undersigned reserves the right to forfeit the amount of the EMD in part or full and to take action as per legal arrangement.
20. The Dean, College of Agriculture, Gwalior, reserves the right to accept or reject any or all the tenders without assigning the reasons thereof and to split of the tender as deemed fit.
21. Should there arise any dispute, the Vice Chancellor, RVSKVV, Gwalior shall be the sole Arbitrator whose decision in the matter shall be final and binding.
22. The tenderer shall have to give an undertaking that the terms and conditions as mentioned above are acceptable to the tenderer by providing a signed and duly stamped copy of the terms and conditions.

Dean
College of Agriculture
Gwalior- 474002