

**CENTRAL SOIL SALINITY RESEARCH INSTITUTE  
(ICAR), ZARIFA FARM, KACHWA ROAD,  
KARNAL-132001(HARYANA)**

**TENDER NOTICE NO.3/2010**

The Director, CSSRI, Karnal on behalf of Secretary, ICAR invites sealed tenders from reputed dealers/contractors for the under mentioned items for CSSRI, Karnal.

Sr. No	Name of item	Place of Delivery	Qty.	EMD Amount Rs.
1.	Groundwater resistivity and geophysical equipments	-do-	One	10,000/-
2.	EEL Flame photometer	-do-	Two	5,000/-
3.	Heavy Duty Power Lawn Mower	-do-	One	10,000/-
4.	Diluter	-do-	Two	10,000/-
5.	Automatic Nitrogen Analyzer	CSSRI, Karnal and CSSRI, RRS, Canning Town	One at each place	10,000/-
6.	Spectrophotometer	CSSRI, RRS, Bharuch	One	10,000/-
7.	Wi-Fi Network facility for zone-I within CSSRI campus	-do-	One	10,000/-

**GENERAL TERMS & CONDITIONS:**

1. Blank Tender forms for the above items alongwith details can be obtained from the office of the Sr. Administrative Officer, CSSRI, Karnal on any working day between 10.30 A.M. to 4.00 P.M. from the date of publication of tender notice at a cost of Rs.500/- for each item till 20.02.2010 upto 11.30 A.M. on payment of cash and by post Rs.550/- in shape of demand draft in favour of ICAR-UNIT-CSSRI, KARNAL at least one week earlier from above said date.
2. The tender form may also be downloaded from this Institute web site [www.cssri.org](http://www.cssri.org). The cost of down loaded form must be accompanied with Tender of Rs.500/- for each separate item in the shape of DD in favour of ICAR-UNIT-CSSRI, KARNAL. The DD/Ch. Of Rs.500/- cost of tender form should be placed separately. Other terms & conditions provided in the tender forms.
3. The tender will be received/deposited along with EMD on or before 20.02.2010 upto 12.30 P.M. and tender box will sealed, thereafter no tender will be received
4. The tender will be opened at 2.30 P.M. on 20.02.2010 in the presence of the tenderers or their representative as per terms & conditions in the tender document.
5. Validity of tenders shall be 120 days from the date of opening of the tenders.
6. Place of delivery of the material as mentioned above is the liability of the supplier only
7. All disputes subject to Karnal jurisdiction
8. The Director, CSSRI, Karnal reserves right to accept/reject any or all the tenders without assigning any reasons. The tenders received late and without any earnest money will out rightly be rejected.
9. Tender without EMD/incomplete in any respect, received after due date and Time may not be accepted.
10. Other terms & conditions provided in the tender forms.
11. **Cost of Tender as mentioned in Sr. No. 1 is non refundable in any case.**

Sr. Administrative Officer  
Ph.: 0184-2291156

**CENTRAL SOIL SALINITY RESEARCH INSTITUTE,  
(ICAR) ZARIFA FARM, KARNAL-132001**

**TENDER APPLICATION FORM MUST BE SUBMITTED IN A SEALED ENVELOPE FOR THE ITEMS QUOTED. RATES ARE TO BE QUOTED SEPARATE FOR EACH ITEM.**

**Tender No.( 3/2010)**\_\_\_\_\_ **Dated: ..... 2010**

Sealed Tenders for supply of the above item is invited on behalf of the Indian Council of Agriculture Research, as per schedule/ specification attached.

**Items mentioned as per enclosed specification.**

**PREPARATION OF TENDER** : The tender documents comprising of the tender form and the schedule referred to therein are provided herewith. Any form of overwriting or use of more than one ink of the tender will disqualify the tender and such tenders are liable to be ignored. Also, a tender is liable to be ignored if complete information as required therein is not filled in. Rates should be quoted in words also. Rates have to be quoted separate for each item. The tender no. and due date should invariably be super subscribed on the envelop cover.

**Submission of Proposals:** The proposals shall be submitted in two parts, viz., Technical and Financial and should follow the conditions i.e. Technical and Financial proposals must be submitted in two separate sealed envelopes (**with respective marking in bold letters**). The **first envelope marked Technical proposal** should include the technical specifications. The first envelope should not contain any cost information whatsoever. The second envelope marked **FINANCIAL PROPOSAL** must also be sealed with sealing wax and should contain the detailed price offer for the equipment's. Both the sealed envelopes should again be placed in a bigger sealed cover, which will be received in the office of Director, CSSRI, Karnal upto **12.30 P.M. on 20.02.2010**. The proposals will be opened by the authorized committee constituted by the Director in the presence of tenderers or their representative at **2.30 P.M. on 20.02.2010**. A two-stage procedure will be adopted in evaluating the proposals (i) a technical evaluation, which will be carried out prior to opening any financial proposal (ii) a financial evaluation. The tender competing in technical evaluation will only be considered for financial evaluations. The price envelopes of others will not be considered. At second stage, financial bids of only technically acceptable offers should be opened for further evaluation and ranking before awarding the contract. The financial proposal shall be opened in the presence of the tenderers or their representatives who choose to attend. The prior information in this regard will be given to the qualified tenderers.

**DELIVERY OF TENDER:** All tenders should be addressed to the **Director, CSSRI, Karnal-132 001** and should ordinarily be deposited in the tender box kept in the office of Purchase Section for the purpose. Tenders can also be sent by post but this will be at the risk and responsibility of the tenderer themselves. However, such

tenders as are sent by post, duly sealed, subscribed and addressed as indicated above should be made to be delivered to the Director, CSSRI, Karnal. No responsibility whatsoever will be accepted with regard to postal delays or for wrong delivery of the tenders sent by post.

**LATEST HOUR FOR RECEIPT AND OPENING OF TENDERS:** As specified to the schedule to tender, the tenders must reach this office on or before 20.02.2010 by 12.30 P.M. The technical tenders will **be opened at 2.30 P.M. on 20.02.2010** as mentioned above in the presence of the tenderers who may choose to be present personally or through representative duly authorized in this behalf. **The tender which meets our required specifications will only be considered for rate comparison. The rates should be quoted as per destination of delivery mentioned in the tender documents.** Late tenders i.e. tenders received after the specified hours and dates will not be considered at all.

Contd...2p

**PERIOD FOR WHICH THE OFFER WILL REMAIN OPEN/ CONTRACT PERIOD** : As specified in the schedule to tender the tender shall remain open for acceptance-upto 120 days from the date of opening. After the acceptance of the tenders, the successful tenderers will have to execute every supply/work order.

**EARNEST MONEY**: Each tender must be accompanied with an **earnest money with technical specification for Rs.10,000/- or Rs.5,000/-** in respect of each item as mentioned against in the Tender Notice without which no tender shall be considered. Earnest money should be furnished in the form of Bank Draft/FDR/Pay Order drawn in favour of the **ICAR Unit, CSSRI, Karnal**. Preferably on the **SBI, Karnal**. Bid Security/EMD of the unsuccessful bidders should be returned to them at the earliest on or before the expiry of the final bid validity.

**PERFORMANCE SECURITY**: (i) To ensure due performance of the contract, performance security is to be obtained from successful bidder equivalent to 5% of the total value of contract by Demand Draft/Fixed Deposit in favour of the ICAR Unit, CSSRI, Karnal. (ii) Performance Security should remain valid for a period of sixty days beyond the date of completion of all contractual obligations of the supplier including warranty obligations. (iii) Bid Security should be refunded to the successful bidder on receipt of performance security. The Institute will pay no interest for the deposit. The supply/work is to be completed in the stipulated period as will be given in the supply/work award letter otherwise will attract penalty clause as in para 14

**PRICES AND DELIVERY** : As given in the schedule to tender, the prices quoted must be net per unit, inclusive of all charges. The supplier may charge full Sale Tax/Vat etc. as no form 'C' & 'D' will be issued. No request will be considered on later stage regarding any amendment etc. The successful bidder is to supply the material immediately after receiving the work award letter. No price variation will be admissible beyond the original scheduled delivery date. **The delivery of the material will be made at the destination mentioned in the tender invitation letter and in work award letter. In case of imported item, the supplier/their Indian Agent will be responsible for delivery of the material from the place of discharge of material.**

**PAYMENT** : The payment to the supplier/manufacturer (in India) will be made only on bill basis after receiving the material in goods condition after satisfactory installation/commissioning. The payment in respect of Maintenance contract may be released in installments on quarterly or half yearly basis.

**IMPORTED EQUIPMENT**: In case of imported equipment, the Performa Invoice of the manufacturer should be enclosed alongwith complete terms & Conditions. The terms of payment in case of imported equipment will be Letter of Credit on F.O.B. basis as under

a. L.C. will be opened for 100% amount and shall be bifurcated in the following manner:

(i)L.C. for 80% of the cost of material, which shall be released by the bank on proof of dispatch of goods in good condition etc.

**(ii) The 20% amount against L.C. of the cost of material, shall be released by bank on satisfactory installation and commissioning of the equipment on subsequent intimation by the office to the bank to this effect.**

**Warranty:** The warranty clause should be clear. Any defective goods or to replace or repair by the supplier without charges with similar goods free from defect. Any goods repaired or replaced by the supplier shall be delivered at the buyer's premises without costs to the buyer. The warranty shall not be less than the period of 12 months from the date of satisfactorily installation/commissioning.

**LATE BIDS:** Late bids i.e. bids received after the specified date and time of receipt should not be considered.

**CONDITIONS OF CONTRACT:** The successful bidder/contractor to whom order will be placed has to supply the material within stipulated period given in the terms and conditions for timely delivery of the goods. If any time during the performance of the contract, the supplier encounters conditions hindering timely delivery of the goods, the supplier shall promptly inform the purchaser in writing the fact of the delay and the likely duration of the same. After receipt of supplier's communication, the purchaser shall decide as to whether to cancel the contract for the un-supplied portion after the existing delivery period, or to extend the delivery period suitably by issuing an amendment to the contract. If the supplier fails to deliver the goods and / or perform the services within the contractual delivery period for reasons other than circumstances beyond supplier's control (which will be determined by the purchaser) and the purchaser extends the delivery period, the purchaser will also deduct from the contract price, as liquidated damages, a sum equivalent to 0.5% (half percent) of the delivered price of the delayed goods or unperformed services for each week of delay or part thereof until actual delivery or performance. The maximum limit of such deduction will, however, be 10% (ten percent) of the contract price of the delayed goods or services.

Further, during such delayed period of supply and / or performance, the supplier shall not be entitled to any increase in price and cost, whatsoever, on any ground. However, the purchaser shall be entitled to the benefit of any decrease in price and cost on any ground, whatsoever, of the goods & services, supplied during the period of delay.

**Maintenance Contract:** The equipment or machinery is maintained free of charge by the supplier during warranty period or such other extended periods as the contract terms may provide and the paid maintenance should commence only thereafter. The manufacturer/dealer has to ensure that the spare parts etc. of the equipment/machinery will be supplied without any interruption minimum period of five years after expiry of the warranty period, the clear terms in this regard may be submitted. Rates of AMC after warranty for 2-5 years may be provided.

**AUTHORIZATION CERTIFICATE:** *In case the firm is quoting rate on behalf of manufacturer as Indian Agent, the Authorization Certificate must be enclosed from the Principle/manufacturer .*

**USERS LISTS/Catalogue/Brochure:** Firm will provide users list of equipment with address E-Mail, Fax and Phone number and also catalogue/brochure without which tender is liable to be rejected.

**18. Dispute Resolution Mechanism:** If any dispute or difference arises between the purchaser and the supplier relating to any matter connected with the contract, the parties shall make every effort to resolve the same amicably by mutual discussions. However, if the parties fail to resolve the dispute or difference by such mutual discussion within 30 days, either the purchaser or the supplier may give notice to the other party of its intention to refer the same to arbitration. The arbitration shall be conducted by a sole arbitrator, who will be appointed by the Secretary, ICAR and the procedure to be followed in this respect will be as per the Indian Arbitration and conciliation Act 1996. The venue of the arbitration shall be the place from where the contract is issued.

**Evaluation of Bids Received:** The Institute should evaluate, segregate, rank the responsive Bids and select the successful bidder for placement of the contract. Without required information/supporting documents as mentioned in Tender Notice as well in the tender form, the bid will be rejected in straight way.

**SALE TAX REGISTRATION CERTIFICATE:** Every tender must be accompanied by a certificate as under : Photo state copy, duly attested of the sales tax declaration to the effect that the firm is registered under the Sales Tax Deptt.

**21 . INCOME TAX :** Photostat copy of the latest income tax clearance certificate and a copy of PAN  
No. may be provided.

**22. CUSTOM DUTY & EXCISE DUTY EXEMPTION:** Ours Institute is registered with the  
Department of Scientific & Industrial Research (DSIR) for purposes of availing customs duty exemption  
in terms of Government Notification No. 51/96-Customs dated 23 July, 1996 and central excise duty  
exemption in terms of Government Notification No. 10/97-Central Excise dated 1 March, 1997. The  
certificates will be made available.

**23. It is compulsory to mention your Bank Account No. and Bank name for smooth transition of payment**

**Director ,CSSRI, Karnal** reserves the right to cancel any tender without assigning any reason thereof.

**NOTE : *Quantity mentioned in the tender notice is approximate and liable To change at the discretion of the Director, CSSRI, Karnal***

## **1. Specification of Resistivity Meter**

1. Microprocessor based Resistivity Meter with penetration depth 1000 ft to 1500 ft
    - ❖ Portable with all accessories i.e. electrodes, cable, hammer, spool complete in all respect.
    - ❖ Rechargeable battery backup
    - ❖ Easy in operation and data storage/retrieval.
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## **2. Specification for Flame Photometer**

**Aspiration Rate:** 3-5.5ml/min

**Optimal Range:**

**Single Point**

**Multi Point Calibration:**

**Calibration:**

Na	0.05 – 60ppm	Na	0.05 – 1000ppm
K	0.05 – 100ppm	K	0.05 – 1000ppm
Li	0.1 – 50ppm	L	0.1 – 1000ppm
Ca	2.5 – 100ppm	Ca	2.5 – 1000ppm
		Ba	30 – 3000ppm

**Reproducibility :** <1% coefficient of variability for 20 consecutive samples over 10 minutes (after instrument stabilization) at concentrations of 100ppm or less.

**Limits of Detection:**

Na	0.02ppm
K	0.02ppm
Li	0.05ppm
Ca	1.0ppm
Ba	10ppm

**Stability:** Less than 15 seconds after sample is introduced into the flame.

**Specificity:** Na/K/Li + <0.5% to each other when equal in concentration at <100ppm.

**Drift:** Less than 1% per 30 minutes after instrument stabilization.

**Number of Parameters Measured:** Simultaneous display of Na, K, Ca, Li, Ba.

**Linearization:** software, for the 5 elements. Achievable on both single and Multi Point calibrations.

### **3. Specification of Heavy duty Lawn Mower**

Ride on Lawn Mower

Power - 6.5 HP/4.8 KW

Engine (Type) - Biggs & Stratton intek.

Cutting Width - 62 cm

Propulsion - 3 forward gears + one reverse

Turning radius - 1.4 m

Bag Capacity - 140 lit.

Dimension approximately - 170 X 73X 103 cm

Weight - 110 125 Kg.  
(approximately)

### **4. Specification of Dilutors**

Dilution Capacity -

Programmable from 1/5 to 1/100

User Interface - Local Interface  
Digital Front Panel  
(Panel with digital Key panels or menus for programming)

Accuracy -  $\pm 0.10\%$

Precision - 0.10%

Power Consumption - 230V

50Hz

Construction - Corrosion resistant  
Powder coated  
Polyester Painted

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## **5. Specification of Automatic Nitrogen Analyzer**

The equipment should consist of Automatic Digestion, Distillation & Titration units of the following specifications.

**(a) Digestion unit:** Fully Automatic micro-processor based complete set of Digestion System for accommodating at least 20 samples (250 ml) at a time mounted on aluminum of suitable good quality metal block. The system should have digital PID temperature controller. It must have built in all safety features like over temperature protection, error indication and sensor break protection, etc. It should also have Acid Neutralizer Scrubber with suitable capacity of water and alkali container and erosion resistant self priming pump.

**(b) Distillation unit:** Fully automatic & completely programmable micro-processor based auto-sequencing computer compatible Distillation System with automatic addition facility of boric acid,  $\text{KMnO}_4$ , alkali, etc. It should have automatic stream processing unit, reaction delay time, and residual removal facilities. The stream generator should be made of high grade non-corrosive material. The unit should have all built in safety features and software for calculation and documentation of results.

**(c) Titration unit:** It should be fully automatic for precise potentiometric titration acid/base aqueous and non-aqueous titration. It should have automatic buffer recognition (5 or more numbers) system with display of titration curve and USB connected laser printer (colour) of suitable size.

## **6. Specification of Spectrophotometer**

Wavelength range 325-1100 nm

Optical system grating based, 1200 lines/mm

Spectral slit width 8nm

Display 20 character

Accuracy  $\pm 2$  nm

Accuracy 0.003 from 0.0 to 0.3 A, 1% from 0.301 to 2.5A

Photometric range 0-125% T

Drift  $< 0.003$  A/hr.

Standard interface RS-232C and centronic ports

Power requirement 240V, 50Hz

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- 7. Survey, Installation and Commissioning of Wi-Fi network facility in CSSRI Campus (Zone I) covering Scientist Hostel, International Scientist and Director Residence (map may be obtained from Computer Unit)**

Proposal must contain quotation for survey, installation, Wi-Fi components and commissioning

