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Central Soil & Water Conservation Research & Training Institute,
218 Kaulagarh Road, Dehradun-248 195 (Uttarakhand)

No. /40(1)/2009-10-Stores/(NAIP) Dated November , 2009

To,

REGISTERED POST

Sub: Invitation of quotation for supply of NAIP Equipments – reg.

Dear Sirs,

1. Sealed competitive quotations are invited by the undersigned for the following items of goods/ equipments. (**To be submitted in separate sealed envelopes**)

- A. Digital Planimeter - 1 No.
B. Waterproof Handheld Turbidity Meter - 1 No.
C. Electronic Survey Total Station - 1 No.
D. Global Positioning System (GPS) - 1 No.

Detailed specifications are as under:

S.No.	Brief description of goods/equipment	Brief Specifications	Quantity	Delivery Period	Place of Delivery
	(A) Digital Planimeter:	Capable to measure areas on map along with curvilinear lengths, coordinates, radii and angles.	01 nos.	30 days	Dehradun
1.	Power: Internal Ni-Cd or AC hours recharge				
2.	Maximum & minimum measuring range 10 m to less than 1 cm				
3.	Display: LCD, 2 or 3 lines				
4.	Measuring Range: 380 mm x 10 m				
5.	Accuracy: +/- 0.1% (for an area of 100 x 100 mm)				
6.	Minimum line reading: 0.05 mm				
7.	Dimensions: Small & compact				
8.	Weight: Approx. 1kg				
9.	Unit commutability: mm, cm, m, &km				

Contd....P/2

(B) Waterproof Handheld Turbidity Meter: Rugged and waterproof, detachable cable design, user-friendly, calendar clock, good laboratory practice, 1500 reading notepad, automatic data logging, optional Rs. 232 interface/window interface (USB).		01 nos.	30 days	Dehradun
1.	Ranges: 0.1 to 200.0 NTU/1 to 2000 NTU (Exact ranges subject to sensor performance)			
2.	Resolution: 0.1 NTU/ 1 NTU			
3.	Repeatability: 2% +/- 1 digit on all ranges			
4.	Enclosure: Tough, anti-static Luran-S plastic case, waterproof to IP67.			
5.	Connectors: Waterproof to IP65.			
6.	Display: 32 Character alphanumeric LCD with user-friendly menu system and full-text messages.			
7.	Memory: >150 readings, including data and time.			
8.	Automatic Logging: User-set for one reading every 1 to 90 seconds, 1 to 90 minutes or 1 to 24 hours.			
9.	RS 232 Output: (Optional) 300, 1200 and 9600 Baud. 8 Bits, No Parity, 1 stop Bit, XON/XOFF			
10.	Clock: 24-Hour Calendar Clock			
11.	Power: 6V Ni-MH Rechargeable battery pack for approx 50 hours operation.			
12.	Battery charger: Battery charger, cable with one space battery pack.			
13.	Meter & sensor size: Small & heavy not more than 2 kg			
14.	Mass: Instrument only: Approx 440g; Full Kit: Approx 3.0kg			
15.	Environment: Temperature: 0. to 45 ° C; Humidity: 0 to 95% R.H.			
16.	Indicator: Warning when calibration is failed			

*Quote the rate of one spare battery pack separately for the given instrument

Note:

- Indicate the life of system individuals, like battery etc.
- Testing and calibration of the instrument are required to be shown.
- Any consumable material (refiller/chemicals) or frequent replaceable parts are required for the entire unit, PI indicates.
- These instruments will be installed in the supervision of supplier's representative.
- Quoters must supply the list of research organizations where such type of system installed.
- Indicate life of instruments and after sale services (warranty/guarantee)
- Express the terms and conditions for supplying the said items and imparting training facilities for operation of the instruments. After-sale service conditions must be indicated. For post processing, the data should easily be down loaded to MS excel or other compatible software.

S.No.	Brief description of goods/equipment	Brief Specifications	Quantity	Delivery Period	Place of Delivery
(C) Electronic survey total station					
1.	Electronic Total Station with extended range EDM for measurement without reflector having angular least count of 0.1" and accuracy of 7 " both for Hz and Vt. angles, 1.5mm+2ppm distance measurement accuracy, can measure a distance of 3.5 km with single circular prism and more than 30 mts without reflector under average atmospheric conditions, having internal memory \geq 13500 sets of points with USB port, Alphanumeric keyboard on single face, inbuilt Survey Programs" Surveying, Set out, resection, height transfer, Tie distance, Area calculation, Free station" with the following accessories.		1	30 days	Dehradun
2.	GDF111i Tribrach without optical plummet		1		
3.	GST05 Wooden Telescopic Tripod		1		

Contd....4/-

4.	Plug in Camcorder battery GEB121 NiMH, 6V/4.2 Ah, rechargeable	2		
5.	GKL112 Charger with adapter	1		
6.	Data Downloading Software	1		
7.	GPL112 Circular prism with holder and target plate	1		
8.	Reflector Pole GLS11, telescopic, with circular bubble, cm and ft graduation, extends to 2.15m	1		

(D)(i) Global Positioning System (GPS)		1 no.	30 days	Dehradun
1.	Receiver: 12 or more parallel channels for GPS receiver. L1 Code/Phase with SBAS tracking	1		
2.	GPS Accuracy: Position (Post-processing) L1 Code only: Typically 30 cm (rms), L1 code and Phase typically 5 to 10mm+2 ppm			
3.	Antenna: Internal microstrip antenna with a built in ground plane. Provision for connecting external antenna with a cable should also be provided.	1		
4.	Data Transfer: Through Bluetooth, Rs. 232 port and Compact flash memory card (PCV-USB Bluetooth). Data transfer card/USB compatibility			
5.	Shock: Rugged and shock proof upto 0.1 m drop			
6.	Internal Memory: Compact flash of 64 MB . Should support upto Min. 2 GB			
7.	Weight: Not more than 1 kg, Size: Compact hand held Case: Rugged and Waterproof Temperature: -20°C to 55°C operating and – 40° C to 75°C storage Operating Humidity: Upto 99% non Condensing			
8.	Display: Graphical LCD, with backlight capable of displaying point, line and polygon features in vector format. Display should not be touch sensitive.			
9.	Keyboard: Hard keyboard with at least 20 keys			
10.	Wireless communication: Should be Bluetooth enabled			
11.	Ports: Should have RS 232 Serial port and an external antenna port			

12.	Power: Power Consumption: Less than 2.5 Watt. I on rechargeable batteries with a provision to connect 12 V external car battery. Plug in internal Lithium Batter charger Power card for batter charger	3		
13.	Data Recording Rate and Capacity: Data should be recorded in Compact flash cards of capacity 64MB with a provision to upgrade upto 2 GB for further post processing. Data sampling interval should be user selectable with a maximum of 1 second.			
14.	Interface: NMEA out put, RTCM output and RTCM input Connectivity to laser distance meter for offset point measurement.			
15.	Coordinate System: Receiver should have provision to define and upload user definable coordinate system with user definable ellipsoids, transformations and projections.			
16.	Post Processing software: Suitable post processing software for processing of data in differential code as well as differential phase.			

D. (ii) Please also quote the rates of a differential GPS system (Base & Rover) with the same specifications as mentioned above.

Note:

- Indicate the life of system individual, like battery etc.
- Testing and calibration of the instrument are required to be shown.
- Indicate any consumable material (refiller/chemicals) or frequent replaceable parts are required for the system.
- These instruments will be installed in the supervision of supplier's representative.
- Quoters must supply the list of research organizations where such type of system installed.
- Indicate life of instruments and after sale services (warranty/guarantee)
- Express the terms and conditions for supplying the said items and imparting training facilities for operation of the instruments. After-sale service conditions must be indicated. For post processing, the data should easily be down loaded to MS excel or other compatible software.

Contd....6/-

2. Government of India has received a Credit from World Bank in various currencies equivalent to US \$ towards the cost of National Agricultural Innovation Project and intends to apply part of the proceeds of this credit to eligible payments under the contract for which this invitation for quotation is issued.
3. **Quoted Price:**
 - a) **The bidder shall quote for items in the format of quotation attached. (Annex. I)**
 - b) All duties taxes and other levies payable by the bidder (Other than Sales Tax on the finished goods) shall be included in the item rate. Sales tax if any should be quoted separately.
 - c) The rate quoted for each item shall be fixed for the duration of the contract and shall not be subject to adjustment.
 - d) Rates of partial quantity of an item is not acceptable.
 - e) Corrections if any shall be made by crossing out, initialing, dating and rewriting.
 - f) Telex or Facsimile quotations are not acceptable.
 - g) **The bidder shall quote the rates in Indian Rupees only and payment will be made in Indian Rupees only. Quotations in foreign currency will be rejected.**
4. Each bidder must submit only one quotation.
5. **Validity of quotations:**

The quotations shall remain valid for a period of not less than 45 days after the deadline fixed for submission of quotations.
6. **Evaluation of quotations:**

The purchaser will evaluate and compare the quotations determined to be substantially responsive i.e. which are properly signed and conform to the terms and conditions and specifications in the following manner.

 - (a) The evaluation will be done excluding the sales tax. If the bidder has included the sales tax in his quotation for the item rate, it will be treated as though it is exclusive of the sales tax and no down loading of sales tax will be made.
 - (b) The evaluation would be done for each item separately. The items for which no rates have been quoted would be treated as zero and total amount would be computed accordingly. The bidder who has quoted for partial quantity of any one or more items would be treated as non-responsive. Purchaser will award the contract to the responsive bidder whose total cost for all the items put together is the lowest.

7. Award of contract:

- (a) The Purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive and who has offered the lowest price as per para 6 (b) above.
- (b) The purchaser reserves the right at the time of contract award to increase or decrease the quantities of items indicated in para 2 above by 25% without any change in the unit price or any other terms and conditions.
- (c) The purchaser prior to the expiration of the quotation validity period will notify the bidder whose quotation is accepted of the award of contract. The terms of the accepted offer shall be incorporated in the purchase order.
- (d) Normal commercial warranty/guarantee shall be applicable to the supplied goods.
- (e) Payment shall be made immediately after the delivery of the goods and their acceptance.
- (f) Notwithstanding the above, the Purchaser reserves the right to accept or reject any quotation and to cancel the bidding process and reject all quotations at any time prior to the award of the contract.

8. Last date of the time of receipt of quotations: 30.12.2009 (Wednesday)

You are requested to submit the sealed quotations **IN SEPERATE SEALED ENVELOPES SEPERATELY FOR EACH EQUIPMENT** superscribing on each envelope as **“Quotation for the supply of _____ due on 30.12.2009”**. **Quotations may be submitted latest by 15:00 hours on 30.12.2009.**

The bidder shall quote the rates in Indian Rupees only and payment will be made in Indian Rupees only. Quotations in foreign currency will be rejected.

Quotations may be sent by post in the name of “Director, Central Soil & Water Conservation Research and Training Institute, 218 Kaulagarh Road, Dehradun (Uttarakhand) – 248 195 or may be deposited in the tender box kept in the Security Hut at the Office Gate.

We look forward to receiving your quotations and thank you for your interest in this project.

Yours Sincerely,

(Puneet Goel)
Administrative Officer (S&P)

ANNEXURE - I

FORMAT OF QUOTATION

Sl. No.	Brief description of goods/equipment	Brief specifications	Qty.	Unit	Unit rate (Rs.) in Figures	Unit rate (Rs.) in words	Total Amount in Figures	Total amount in Words
1								
2								
3								
4								
5								

Gross total Cost : Rs.in figures)

Rs.....(in words)

We agree to supply the above goods in accordance with the technical specifications for a total contract price of Rs.....(in figures)

Rs.....(in words) within the period specified in the Invitation for Quotations.

We also confirm that the normal commercial warranty/guaranteeof months shall apply to the offered goods.

(Bidder)

Name:.....

Signature:.....

Date:.....