

**Indian Institute of Technology Kanpur
Department of Civil Engineering**

Date: 14.08.2013

To

Ref. No: CE/GI/LTAS/02/2013-2014

Closing Date: 30.08.2013 Time: 5PM

Sub: Quotation for GPS and Total Station

Dear Sir/Madam,

We would like to procure GPS and Total Station use in laboratory for teaching and research purposes. You are invited to provide quotations as educational pack with the following features.

Required Features:

S N	Description	Required Quantity
1.	Hand held GPS with Complete Accessories GUI based Receiver- Hand held Channels-minimum 12 channels Update rate- 1Hz GPS GNSS Accuracy Meter or sub meter Storage RAM: minimum 256 MB Flash :Minimum 1 GB External storage: up to 32 GB Connectors USB connector. USB to serial converter. External power connector. SDHC card socket. Battery Type: Rechargeable, removable Li-Ion Battery run time: minimum 7 to 8 hour Easy to carry in hand Software: Post processing software unlimited license.	20
02	GPS System and complete Accessories GUI based Single frequency 12 Channels L1 C/A Code, L1 Full Cycle Carrier Static and FastStatic GPS surveying	05

	<p>Horizontal :at least $\pm(5 \text{ mm} + 0.5 \text{ ppm})^2$ RMS Vertical : at least $\pm(5 \text{ mm} + 1 \text{ ppm})^2$ RMS</p> <p>Kinematic surveying Horizontal : at least $\pm(10 \text{ mm} + 1 \text{ ppm})^2$ RMS Vertical : at least $\pm(20 \text{ mm} + 1 \text{ ppm})^2$ RMS</p> <p>Data Storage Minimum 64 MB memory Data Transfer and download/upload through USB Battery :Rechargeable battery up to 8 hours on a full charge Battery charger: internal with external AC power adapter and complete accessories for receiver. Compatible Post processing software for aforementioned receiver with unlimited use in terms of number of simultaneous uses and to achieve accuracy in mm. Accessories: required cables, carbon fiber rod as per instrument, bipod etc.</p>	
03	<p>Total Station with complete Accessories System should be GUI based with WindowsCE Range with reflector sheet of size 5 cm x 5 cm 1.5 m to 270 m Range with single prism of size 6.25 cm 1.5 m to 3,000 m</p> <p>Accuracy (1 Standard Deviation based) With Prism :$\pm(2+2 \text{ ppm} \times D)$ mm In Reflectorless mode :$\pm(3+2 \text{ ppm} \times D)$ mm</p> <p>Angle accuracy-horizontal and vertical :1" Horizontal/Vertical angle should be Diametrical Measurement capable in face left and face right.</p> <p>Telescope Image erect Magnification of telescope 30X Minimum focusing distance 1.5m Laser pointer—coaxial with red light Resolving power – 3" minimum</p> <p>Laser Plummet for centering</p> <p>Diagonal Eye Piece capable (give cost of diagonal eye piece as an optional item)</p> <p>Tilt sensor Dual-axis with Compensation range : $\pm 3.5'$</p> <p>Communication methods Communication ports : USB and RS232 Wireless communications : Integrated Bluetooth</p> <p>RAM 128MB and Flash Memory 128MB Minimum</p> <p>Battery capacity: Continues 24 hour working Accessories: Measuring tape for Instrument Height</p>	05

Measurement, required cables, Prism, prism holder, carbon fiber rod, Tripod, required software as per instrument with unlimited license, bipod etc.	
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Service Features

- 1) It must be noted that the Hand held GPS receiver machine should also be compatible for use with ESRI ARC PAD 6.0 or higher version or mapping tools from other similar Software.
- 2) Warranty period should be clearly mentioned in the quotation. Local maintenance support should be available. If not, please mention where the machine will be serviced in the event of failure. Further mention whether stand-by machine will be provided during down time within warranty period.

You are requested to submit your quotation in sealed envelope mentioning the following:

1. Cost of the item including warranty/free maintenance
2. Technical specifications in detail.
3. Warranty period to be clearly mentioned in quotation.
4. Delivery time (items are to be delivered at IIT Kanpur)
5. Educational discount applicable considering end use for research and teaching
6. Payment terms (as per standard IIT Kanpur norms).
7. Proprietary Certificate, if applicable.
8. Any other relevant details.

Last date for the receipt of quotations: 30 August, 2013. Please note that your quotation must provide responses to all points raised under service features.

Please call Dr. Bharat Lohani at 0512-2597413 for any further queries/clarifications in this regard.

Yours Sincerely

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