STATE COUNCIL FOR SCIENCE TECHNOLOGY & ENVIRONMENT. 34 SDA COMPLEX KASUMPTI, SHIMLA-9

NOTICE INVITING TENDER

Sealed tenders are invited from manufacturer/their-authorized dealers for the supply of Handheld Mapping/GIS GPS and Laser Range Finder to the State Council for Science Technology & Environment, Shimla. The tender rates should reach in the office of State Council for Science Technology & Environment, 34 SDA Complex, Kasumpti, Shimla-9 on or before 16th July 2010 up to 11.00 AM and the tenders will be opened on same day at 3.00 PM in the presence of intending firms or their authorized representatives. The intending firms shall have to deposit an earnest money in the form of Demand Draft in favour of Member Secretary (EC)amounting Rs.15,000/-. The accepting authority reserves the right to reject or accept any of the bid without assigning any reason. The specification and terms and conditions of the instrument can be seen on our Website **http://www hpscste.gov.in**

SPECIFICATIONS FOR HANDHELD MAPPING/GIS GPS

1. Handheld MAPPING /GIS GPS

I. Handheld, 12 Channel GPS Receivers - 1No.
II. Support module with power supply & - 1 No.
USB data transfer port.
III. Carrying Pouch. - 1 No
IV. Software : Field Software for control of GPS data and for infield mission planning - 1No.

2. Post Processing Software - 1 No

SPECIFICATION FOR GPS RECEIVER

GENERAL

Single frequency GPS Receiver with integrated GPS Receiver, GPS Antenna, display and Memory in single casing should have the following:

- Microsoft Windows Mobile Version 5 Operating Software platform for Pocket PCs or Later
- 416 MHz Intel X Scale Processor or faster
- Post Processing capability.
- Real Time map display with color graphics and capability to accept background maps.
- 12 channels receivers(Base and Rover) for L1 C/A and carrier phase data.
- Protected internal flash Memory of at least 512 MB (non volatile).
- Weight : Less than 0.78 kg including rechargeable batteries.
- Operating Temperature of all the components: -10 deg C to 50 deg C
- Display: TFT color graphical display with backlight, 65,000 colors
- Power Consumption: Less than 2.5 watt with backlight. Battery should be good enough for at least 8 hours with backlight and 12 hours under normal GPS operation without use of backlight.
- Communication: Bluetooth, 802.11b Wireless LAN. USB client via interface module.
- Memory should be expandable using CF Card or SD Card
- Warranty should be minimum 12 months from the date of supply against any manufacturing defects.

ACCURACY

- Code Post Processing Accuracy : Submeter
- Accuracy with Carrier Processing : Upto 30cm with 5 minutes
Tracking
: Up to 1 cm with 45 minutes tracking
- The system should be able to achieve sub-meter accuracy with minimum 4 satellites visible, PDOP 6 and elevation 15_o. Should be able to work in tough terrain.
- The system should be able to generate a 3D position with four satellites visible.

GIS FIELD SOFTWARE

(1) GIS Field Software from Manufacturer.
(a) Should run on Microsoft Windows Mobile Version 2005 Software platform for Pocket PCs or later.
(b) Should be capable of
1. Collecting data for a GIS or spatial data base
2. Navigating in the field
3. Should be able to collect GPS data.
(c) Should be able to create data dictionary with features and attributes in the field,
(d) Should have real time map display capability.
(e) Should have support for in-field mission planning with Planning, sky plot and DOP graph, making it easy to find best time to collect quality data.
(f) Should have password protection option
(g) Should have provision to auto generate date and time attributes.
(h) Should have the facility for auto incrementing attributes.
(i) Should have the facility of taking offsets in the field manually.
(j) It should be possible to segment a line ie. record a continuous line with various segment with different attributes values.
(k) It should also be possible to manually create features from map or by entering coordinates (Registration of points should be possible)
(l) It should have the facility to send and receive e-mail attachments. It should be able to send & receive at least the following information via e-mail attachment, if required:
- Data Files, Data Dictionaries, Configuration Files & Complete projects

SPECIFICATION FOR POST PROCESSING SOFTWARE

Included software should be able to Post Process the GPS Data. In addition, it should be able to:

- Import background maps such as satellite imagery, remote sensing images, Aerial photographs, and vector maps
- Support GIS both export and import.
- Support different datum transformations.
- RINEX import and export facility.
- Should have online help.
- Should have the ability to create data dictionary with different point, line and area features with different attributes.

SPECIFICATION FOR LASER RANGE FINDER

- Range : Up to 200mtr
- Range Accuracy : 10cm
- Range Resolution : 1cm
- Inclinometer Range : -90 to +90 degree
- Inclinometer Acuracy : o.3 degree at 0 degree
- Weight: Less than 0.7 kg
- Warranty : 12 months from the date of supply against any manufacturing defects.

General Terms & Conditions:

- Provide one week training at Shimla
- Should be an authorized agent of the manufacturer.
- Provide information about the number of GPS sets sold in India
- GPS & Laser Range Finder should be of known makes and should be compatible with the ERDAS/ARCGIS softwares.
- Product will be finalized after the demonstration of the product at Shimla without any cost.
- The firms shall supply the goods through distributor if located in Himachal Pradesh.

Member Secretary[EC]
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