

Quotation Notice No. IRTC/P/ 05 /2025 – 26 Dated 07 – 10 – 2025

Quotations are invited from the manufactures/authorised distributors for the supply of the following items for the implementing the project under PLAN GRANT 2025 – 26.

Quotation should be sent to the following address :

Registrar, IRTC, Mundur, Palakkad, Kerala – 678592, Phone 2832663, 2832324, 9188183296.

Last Date of Receipt : 18 – 10 – 2025. 5 pm

Integrated Static and RTK GNSS Receiver (DGPS)		
Sl.No	Name of Item	Specification
1 (a)	CONTROLLER Type	Minimum 5", Full Alpha numeric, QWERTY & touch keyboard, WVGA 800 x 480 resolution, Sunlight-Readable colour TFT . Processor 1GHz or better and Internal flash memory should be 4GB or better. RAM 2GB or better with Windows mobile latest version, WindowsEC7
(b)	Graphical Display	Controller software capable of multitasking so that multiple operations can be opened at a time e.g. COGO, Stakeout, Point etc Can accept background maps in Vector and Raster formats. Controller should be with a laser based distance meter with an accuracy of millie meter level , Range of 100, and suitable option to capture spherical cordinates of inaccessible locations . Laser based measurement part of controller should be integral part of Controller without saperate power source . Distance measurement mechanisam should be from controllerwith a range of 100m with 1mm distance accuracy
d	Target position	Once laser based system activated for remote point data collection , target point should be visible in the dispay screen
Rover Station RECIEVER CHARACTERSTICS		
2	Receiver	Multi frequency, geodetic, real-time Kinmatic receiver - should be capable of tracking GPS Glonass Baidu and Galellio . Should be with 4G capability . System should have Tilt sensor of 30 degrees with limiting Function
	Base	Multi frequency, geodetic, real-time Kinmatic receiver - should be capable of tracking GPS Glonass Baidu and Galellio . Should be with WLAN capability and C port to connect an external powerbank to charge the antenna as well operate

ACCURACIES RTK, Static and Rapid Static Phase		
a	Long Static (post processing)	i) Horizontal: $\pm 3 \text{ mm} + 0.5 \text{ PPM RMS}$ ii) Vertical: $\pm 6 \text{ mm} + 0.5 \text{ PPM RMS}$
b	Real Time Kinematic (with Network RTK)	i) Horizontal: $\pm (10 \text{ mm} + 0.5 \text{ PPM}) \text{ RMS}$ ii) Vertical : $\pm (20 \text{ mm} + 0.5 \text{ PPM}) \text{ RMS}$
3 POSITION UPDATE AND LATENCY		
(a)	Position Update Rate and recording rate	10Hz. Rover / Controller should be with an integrated laser based distance meter minimum range of 100m and need to collect inaccessible points.
3 Communication Modems		
(a)	GSM modem in Rover	Integrated WLAN in sensor and GSM / WLAN in controller. Must have UHF in
(b)	RTK support	RTK support for GSM / GPRS / UMTS / CDMA / LTE
4(a)	Internal Battery	Plug in rechargeable lithium-ion batteries for 7 - 8 hours in GNSS Operation for controller. Built in Li Ion Battery for 8 hours operation for Sensor with C port connectivity. System need to get charged / operated from Power Banks on emergency
5	ENVIRONMENTAL SPEC. FOR ANTENNA	IP66/68 with MIL STD 810G CHG-1 510.61 / MIL STD 810G CHG-1 506.6 II
	Humidity	95%
(d)	Protection against water and dust	Protection against blowing rain Waterproof Dust-tight, protection against blowing dust. IP68
(e)	Drops	Withstands 2m drop onto hard surfaces
Note	Bidder should provide all Accessories from OEM GPS and also should provide Simulator software for 20 computers for the quoted for training purpose. Bidder / OEM should have a registered office and Service Center in Kerala and should have supplied same OEM models in Govt of Kerala. Quoted model should be compatible with existing models in the dept. and should be able to exchange the data by interchanging the controller in the field.	



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Registrar

Registrar
Integrated Rural Technology Centre
Mundur, Palakkad - 678 592
Kerala