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ބަނޑު

މަސައްދަވާ ގަނޑު

ދިވެހިރާއްޖޭގެ ބަނޑު

ފަތުރުވެރިން

1. ފަތުރުވެރިން ފަތުރުވެރިން ފަތުރުވެރިން 11-03 ގަނޑު ބަނޑު ފަތުރުވެރިން ފަތުރުވެރިން

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3 ޖަދުވަލު

ސަރުކާރުގެ ސަރަޙައްދުގެ ޖަދުވަލު

1. ސަރުކާރުގެ ސަރަޙައްދުގެ ޖަދުވަލު	
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	ޖަދުވަލު 9 ގެ ނަންބަރު
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	ޖަދުވަލު 3 ގެ ނަންބަރު
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4 ބަންދުވާ 4

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10 ބަހުގެ ވަނަ ބައި

ބަހުގެ ވަނަ ބައި (އިތުރު ބައި، ބަހުގެ ވަނަ ބައި) ގެ
ބަހުގެ ވަނަ ބައި



10 حَ تَرَوَعُو

Specification: Rover Unit (RTK GNSS Receiver, Data Collector, Rover Pole)

Specification Category	Procurement Requirement / Feature Detail
1. System Architecture & Tracking	
Channels	Minimum 1,668 channels powered by an advanced multi-constellation platform.
GPS Tracking	L1C/A, L1C, L2P, L2C, L5
BDS (BeiDou) Tracking	B1I, B2I, B3I, B1C, B2a, B2b
GLONASS Tracking	L1, L2, L3
Galileo Tracking	E1, E5a, E5b, E6c, E5 AltBOC
QZSS Tracking	L1C/A, L2C, L5, L1C, L6
IRNSS & SBAS	IRNSS: L5 SBAS: L1C/A
PPP & Corrections Support	Integrated L-Band capability supporting Precise Point Positioning (PPP) services (HAS & B2b protocols).
2. Performance & Accuracy	
Signal Re-acquisition	≤ 1 second
Cold Start / Hot Start Time	Cold Start: ≤ 30 seconds Hot Start: ≤ 10 seconds
RTK Initialization Time	< 5 seconds (for baselines ≤ 10 km)



Initialization Reliability	≥ 99.99%
Single Baseline RTK	Horizontal 8mm + 1ppm RMS Vertical 15mm + 1ppm RMS
Data Update Rate	User-configurable up to 20 Hz (1Hz, 2Hz, 5Hz, 10Hz, 20Hz)
Laser Tilt Measurement	≤3.5cm (5m range, ≤60°Tilt in laser mode)
3. Integrated Sensor Workflows	
Laser Measuring Engine	Integrated precise green laser pointer for remote offset point collection (up to 50m) where pole placement is unsafe/impossible.
Dual Camera System	Integrated dual-camera array featuring a 13-Megapixel camera for immersive 3D AR (Augmented Reality) visual stakeout.
Tilt Compensation (IMU)	Calibration-free, initialization-free Auto-IMU supporting 120° tilt compensation across conventional, laser, and visual modes.
4. Communication & Datalinks	
Internal UHF Radio	Integrated Transmit & Receive (Tx/Rx) radio engine.
UHF Frequency & Power	410 – 470 MHz range with adjustable output power at 0.5W, 1W, and 2W .
Radio Protocols	Transparent/TT450S/South/Mac/SNLonglink.
Wireless & Cellular	Built-in 4G LTE cellular modem, Wi-Fi, Bluetooth, and NFC capabilities.



Data Format Support	<p>Input/Output: RTCM 2.X, RTCM 3.X, CMR (GPS only), CMR+ (GPS only).</p> <p>Output: Standard ASCII NMEA-0183 (GSV, RMC, HDT, GGA, GSA, ZDA, VTG, GST, PTNL) and binary data.</p>
5. Physical & Electrical	
Display Unit	Onboard 1.1-inch OLED color screen displaying tracked satellites, fix status, operating state, and battery status.
Housing Material	Aluminum-Magnesium alloy housing.
Weight	Lightweight design not exceeding 810 grams .
Environmental Protection	Certified minimum IP67 waterproof and dustproof rating.
Operating / Storage Temp.	Operating: -40°C to +65°C Storage: -40°C to +85°C
Humidity Tolerance	100% non-condensing.
Battery & Charging	Internal 9000mAh Li-ion battery architecture supporting QC and PD Fast Charging via USB Type-C interface.
6. Software Integration	
Field Software Compatibility	Native integration with <i>Survey Master</i> Android application (supporting wizard workflows, surface stakeout, CAD map import/direct use).
Office Baseline Software	Supplied with <i>SinoGNSS Compass</i> office solution for full GNSS post-processing (Static/Kinematic



	modes) with direct data exporting for photogrammetry and 3D modeling.
Pole	
Mounting Thread	Industry-standard 5/8" x 11 thread
Pole Type	Carbon fiber (highly recommended to save weight and improve signal stability)
Built-in Pole Features	Look for poles that include built-in compasses, bubble levels, and scale rulers
Tilt Compensation	Supports up to 60° tilt in laser mode and 120° in IMU mode, requiring little to no manual pole calibration
Supporting Kit Accessories	
Carrying Case	A rugged, waterproof hard transport case
Manual & Utilities	USB drive containing operation manuals, calibration files, and software.
Bipod	3 Legs Bipod





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Specification: Total Station

Specification Category	Procurement Requirement / Feature Detail
1. System Overview & Physical	
Model / Series	SinoGNSS TS-C200 Total Station (TS-C Series)
Dimensions	20cm × 19cm × 35cm
Weight	6.0 kg
Ingress Protection Rating	Certified minimum IP65 waterproof and dustproof design
Housing Enclosure	Built with an integrated CCD and a double-bead shaft for the horizontal and vertical axes
2. Distance Measurement (EDM)	
Prism Range	Up to 5,000 m
Non-Prism Range	Up to 1,500 m
Prism Accuracy	2mm + 2ppm
Non-Prism Accuracy	3mm + 2ppm
Measuring Time	Precise mode: < 0.3 seconds Tracking mode: < 0.1 seconds
EDM Laser Class	Class 3R Laser
Ranging System Technology	Independent intellectual property ultra-low noise broadband amplifier paired with an advanced noise phase analysis algorithm for strong resistance against bad weather and weak signal interference



Correction Systems	Fully isolated optical path system; Automatic or manual input for temperature, atmospheric, and prism constant corrections
3. Angular Measurement	
Reading System	Absolute Encoding
Circle Diameter	79 mm
Minimum Increment	0.1" / 1" / 5" / 10" (User-selectable / Optional)
Angular Accuracy	2"
Detection Method	Dual Horizontal detection system Dual Vertical detection system
4. Optical & Telescope Specifications	
Image / Tube Length	Erect image 154 mm tube length
Effective Aperture	45 mm
Magnification / Resolving Power	30X magnification 3° resolving power
Field of View	1°30'
Minimum Focus Distance	1.2 m
5. Compensation & Level Vials	
Tilt Sensor Type	Dual Axis Liquid-Electric compensator
Compensator Working Range	4' / 6' (User-selectable / Optional) with 1" accuracy



Plate Vial Sensitivity	30" / 2mm
Circular Vial Sensitivity	8' / 2mm
Laser Plummet	Integrated laser plummet with 3 adjustable brightness levels
6. Power System	
Battery Type / Voltage	Removable Lithium-ion battery (Model: LB-01), 7.4V DC
Battery Capacity	3,100 mAh
Operating Battery Life	Continuous operation up to 8 hours
7. Display, Interface & Data Communications	
Display Unit	Onboard 2.7-inch, 320*240 dot matrix true color, high-definition, high-brightness screen (Sunlight-readable)
Keyboard	Alphanumeric physical keyboard layout
Digital Display Limits	Maximum: 99999999.9999 Minimum: 0.1mm (Supports up to 4 optional decimal places)
Onboard Data Formats	Supports seamless EXCEL and DAT file import/export; Displays 19-bit code for intuitive road stakeout point management
Memory & Storage Interfaces	Standard U-Disk interface for direct data transfer; Standard SD Card slot for expandable measurement storage
I/O Connectivity	Built-in USB port and wireless Bluetooth for bidirectional communication with PCs or field controllers
8. Software Functionality	



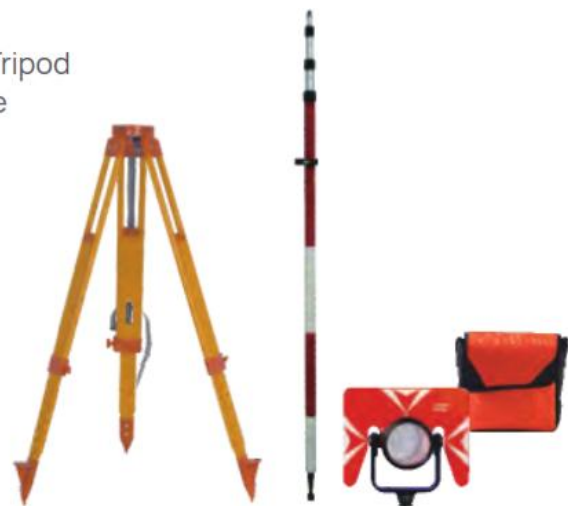
Field Software Support	Natively controllable via advanced field survey software such as MicroSurvey FieldGenius
Onboard Programs	Equipped with multiple engineering routines including a comprehensive Road Measurement Program (supports vertical/horizontal curve calculations of any line type and discontinuous changes in horizontal radius) and a coordinate file invocation library

The package must include the following mandatory items:

- 1x TS-C200 Main Unit & Heavy-Duty Carry Case
- 2x LB-01 Lithium-ion Batteries & 1x Battery Charger
- 1x SD Card
- 1x Level Vials Pouch containing adjustment tools (2x Wrenches, 1x Screwdriver, 2x Adjusting Pins)
- Essential Maintenance & Protection Kit (1x Desiccant Bag, 1x Lens Cover, 1x Cleaning Brush, 1x Reflective Sheet)
- 1x Factory Quality Control (QC) Certificate & 1x Warranty Card
- Matching Heavy-Duty Wooden Tripod and Prism Pole



Wooden Tripod
Prism Pole



Form of Tender Security (Bank Guarantee)

The Issuing Bank shall fill in this Bank Guarantee Form in accordance with the instructions indicated.

..... {Bank's Name, and Address of Issuing Branch or Office}

Beneficiary: {Name and Address of Employer}

Date:

TENDER GUARANTEE No.: _____

We have been informed that _____ {name of the Tenderer} (hereinafter called "the Tenderer") has submitted to you its Tender dated _____ (hereinafter called "the Tender") for the execution of _____ {name of contract} under Invitation for Tenders No. _____ ("the IFB").

Furthermore, we understand that, according to your conditions, Tenders must be supported by a Tender guarantee.

At the request of the Tenderer, we _____ {name of Bank} hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of _____ [amount in figures] (_____)

[amount in words] upon receipt by us of your first demand in writing accompanied by a written statement stating that the Tenderer is in breach of its obligation(s) under the Tender conditions, because the Tenderer:

(a) has withdrawn its Tender during the period of Tender validity specified by the Tenderer in the Form of Tender; or

(b) having been notified of the acceptance of its Tender by the Employer during the period of Tender validity, (i) fails or refuses to execute the Contract Form, if required, or (ii) fails or refuses to furnish the performance security, in accordance with the ITB.

This guarantee will expire: (a) if the Tenderer is the successful Tenderer, upon our receipt of copies of the contract signed by the Tenderer and the performance security issued to you upon the instruction of the Tenderer; and (b) if the Tenderer is not the successful Tenderer, upon the earlier of (i) our receipt of a copy your notification to the Tenderer of the name of the successful Tenderer; or (ii) {insert date} twenty-eight days after the expiration of the Tenderer's Tender.

Consequently, any demand for payment under this guarantee must be received by us at the office on or before that date.

This guarantee is subject to the Uniform Rules for Demand Guarantees, ICC Publication No. 458

[Signature(s)]



Performance Security

[The issuing bank, as requested by the successful Contractor, shall fill in this form in accordance with the instructions indicated]

Date: [insert date (as day, month, and year)]

Title of the procurement: [Insert general title of the procurement]

Procurement Reference No: [insert reference]

Bank's Branch or Office: [insert complete name of Guarantor]

Beneficiary: [insert complete name of Employer/Procuring Entity]

Performance Guarantee No:

We have been informed that [name of the Contractor], (hereinafter called "the Contractor") has entered into Contract No. [procurement reference number of the Contract]. dated [insert day and month], [insert year], with you, for the execution of [name of contract and brief description of Works] (hereinafter called "the Contract").

Furthermore, we understand that, according to the conditions of the Contract, a performance guarantee is required.

At the request of the Contractor, we [name of the Bank] hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of [name of the currency and amount in figures] 1.... (. [amount in words]) such sum being payable in the types and proportions of currencies in which the Contract Price is payable, upon receipt by us of your first demand in writing accompanied by a written statement stating that the Contractor is in breach of its obligation(s) under the Contract, without your needing to prove or to show grounds for your demand or the sum specified therein. This guarantee shall expire, no later than the day of, 2, and any demand for payment under it must be received by us at this office on or before that date. The Guarantor agrees to a one-time extension of this guarantee for a period not to exceed [six months] [one year], in response to the Employer's written request for such extension, such request to be presented to the Guarantor before the expiry of the guarantee.

This guarantee is subject to the Uniform Rules for Demand Guarantees, ICC Publication No. 458, except that subparagraph (ii) of Sub-article 20(a) is hereby excluded.

..... [Seal of Bank and Signature(s)]

Note: -

All italicized text is for guidance on how to prepare this demand guarantee and shall be deleted from the final document.

1 The Guarantor shall insert an amount representing the percentage of the Contract Price specified in the Contract and denominated either in the currency (ies) of the Contract or a freely convertible currency acceptable to the Employer.

2 Insert the date twenty-eight days after the expected completion date. The Employer should note that in the event of an extension of the time for completion of the Contract, the Employer would need to request an extension of this guarantee from the Guarantor. Such request must be in writing and must be made prior to the expiration date established in the guarantee.



Advance Payment Security

[The bank, as requested by the successful Contractor, shall fill in this form in accordance with the instructions indicated.]

Date: [insert date (as day, month, and year)]

Title of the Procurement: [Insert general title of the procurement]

Procurement Reference No: [insert reference]

[Issuing bank's letterhead]

Beneficiary: [insert legal name and address of Procuring Entity]

ADVANCE PAYMENT GUARANTEE No.: [insert Advance Payment Guarantee no.]

Advance Payment Guarantee No:

We have been informed that [name of the Contractor] (hereinafter called "the Contractor") has entered into Contract No..... [procurement reference number of the Contract], dated [insert day and month], [insert year] with you, for the execution of [name of contract and brief description of Works] (hereinafter called "the Contract").

Furthermore, we understand that, according to the Conditions of the Contract, an advance payment in the sum [name of the currency and amount in figures] 1 (..... [amount in words]) is to be made against an advance payment guarantee.

At the request of the Contractor, we [name of the Bank], hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of [name of the currency and amount in figures] * (..... [amount in words]) upon receipt by us of your first demand in writing accompanied by a written statement stating that the Contractor is in breach of its obligation under the Contract because the Contractor used the advance payment for purposes other than the costs of mobilization in respect of the Works.

It is a condition for any claim and payment under this guarantee to be made that the advance payment referred to above must have been received by the Contractor on its account number [Contractor's account number], at [name and address of the Contractor's Bank].

The maximum amount of this guarantee shall be progressively reduced by the amount of the advance payment repaid by the Contractor as indicated in copies of interim statements or payment certificates which shall be presented to us. This guarantee shall expire, at the latest, upon our receipt of a copy of the interim payment certificate indicating that eighty (80) percent of the Contract Price has been certified for payment, or on the day of 2, whichever is earlier. Consequently, any demand for payment under this guarantee must be received by us at this office on or before that date. The Guarantor agrees to a one-time extension of this guarantee for a period not to exceed [six months] [one year], in response to the Employer's written request for such extension, such request to be presented to the Guarantor before the expiry of the guarantee.

This guarantee is subject to the Uniform Rules for Demand Guarantees, ICC Publication No. 458.

..... [Seal of Bank and Signature(s)]

Note:

All italicized text is for guidance in preparing this demand guarantee and shall be deleted from the final document.

1 The Guarantor shall insert an amount representing the amount of the advance payment denominated either in the currency(ies) of the advance payment as specified in the Contract, or in a freely convertible currency acceptable to the Employer.

2 Insert the expected expiration date of the Time for Completion. The Employer should note that in the event of an extension of the time for completion of the Contract, the Employer would need to request an extension of this guarantee from the Guarantor. Such request must be in writing and must be made prior to the expiration date established in the guarantee.

