



**Road Development Corporation Limited
Republic of Maldives**

**Terms of Reference for
SUPPLY AND DELIVERY OF QUALITY CONTROL EQUIPMENT FOR ROAD
DEVELOPMENT CORPORATION LIMITED**

1. BACKGROUND

Road Development Corporation Limited, an incorporated limited liability company operating under the registration number C10482019 and having its registered office at MSL Buildings, First Floor, Malé, Republic of Maldives (herein after called and referred to as “the Employer”), invites sealed tender from eligible bidders for Supply and Delivery of Quality Control Equipment for road development corporation limited (hereinafter called the “Works” or “Project”).

2. SCOPE OF WORK

The Employer will finance the Supply and Delivery of Quality Control Equipment for road development corporation limited. The scope of Works shall be as follows.

- Supply and delivery of accurate quantity of lab equipment with industry standard quality complying with the relevant standards detailed for the individual equipment (refer to Appendix A).
- Detailed specification sheet attached. (Brand name given in the attachment is for reference purposes only)
- Please quote for the best option(s) available for the same or equivalent to the specifications provided.
- We require a brand that is commonly used/available in Maldives.
- Suppliers must provide the following documents for technical evaluation.
 - Technical specifications of the equipment
 - Manufacturer’s certificates
 - Compliance standard certificates

The lab equipment to be supplied are listed are listed below.

| # | Lab Equipment | Quantity |
|---|-----------------------|----------|
| 1 | Robotic Total Station | 1 set |

APPENDIX A: SPECIFICATIONS FOR LAB EQUIPMENT

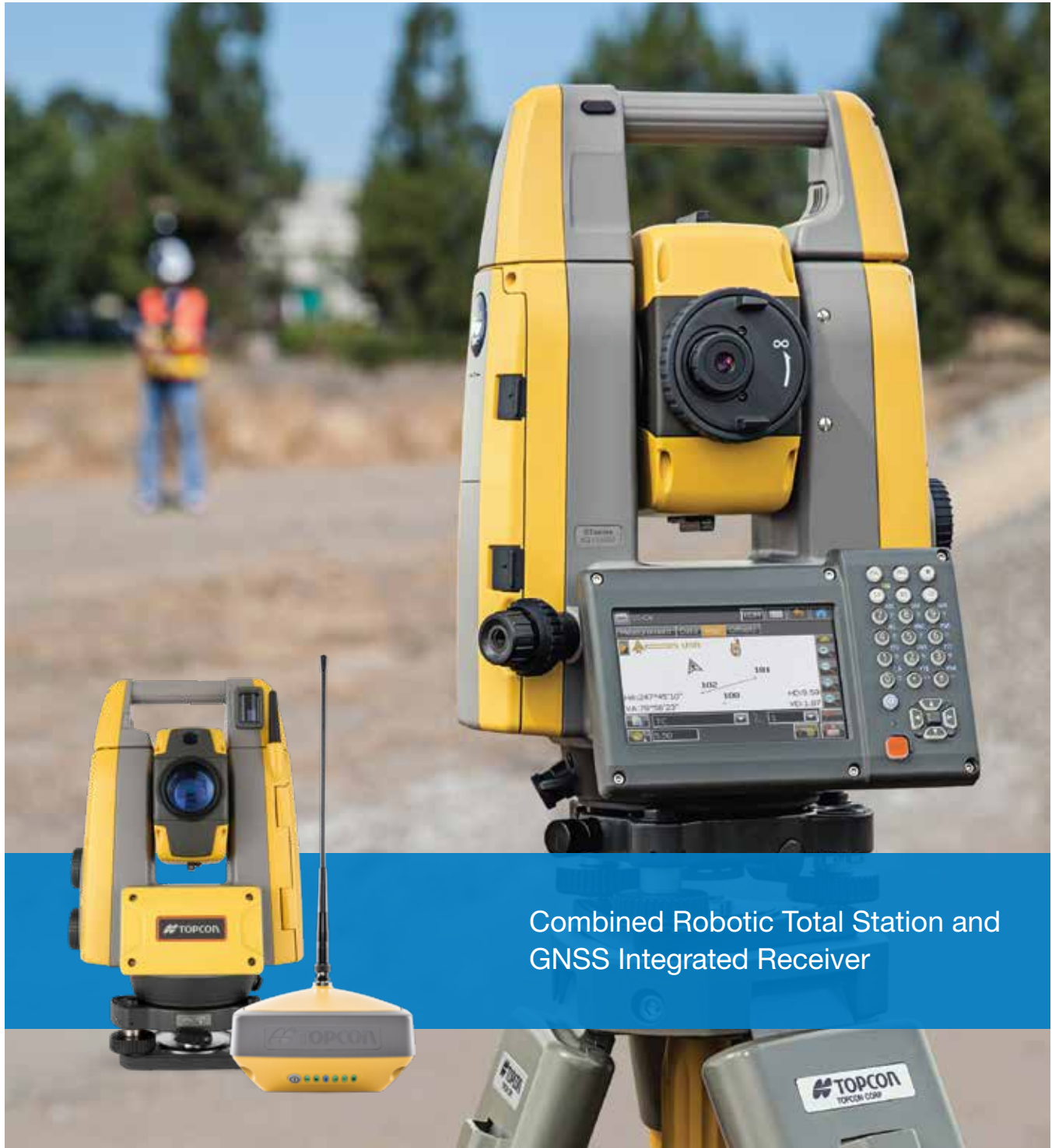
(Detailed Specification Attached)

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Integrated GNSS and Total Station

Hybrid Robotic



Combined Robotic Total Station and
GNSS Integrated Receiver

Integrated GNSS and Total Station

Hybrid Robotic System

Software – Hardware – Technology

The Hybrid Robotic system solution is the combination of GNSS positioning, an optical total station, and automated data workflow. By utilizing both GNSS and optical measurements, any job site project can be completed faster, and with the precision needed. In addition, by adding new efficient data workflows from the entire MAGNET® system, productivity increases at each phase.

The precision and tracking ability of our robotic instrument provides precise measurements anywhere the prism can be seen. The GNSS positioning of the RTK rover pole can be used for measurements that are not in the line of site.

More than just an integrated surveying solution, the Hybrid Robotic System includes the data flow connection to the office. Exchange data files in real-time with MAGNET Enterprise.

There are many hardware configurations from Topcon that can benefit from the use of hybrid positioning. This technology is compatible with all modern robotic systems as well as GNSS integrated receivers from Topcon.

GNSS and optical rover

Auto-tracking of prism

Network or local RTK

LongLink™ communication

Rugged, waterproof design

Improved data workflows



HYBRID ROBOTIC SYSTEM



GT-1200



HiPer VR



MAGNET®



MAGNET Enterprise



FC-6000

Hybrid Positioning Performance

Using the Hybrid Positioning System, job site measurements can be completed faster. Productivity will be increased with fewer robotic tripod setups. Collect measurements with GNSS or the robotic total station anywhere on the job site.

Network RTK, MAGNET Relay, or Local RTK

Use any type of GNSS positioning in your hybrid system to enhance your robotic re-acquisition and jobsite localization routines. TopNET//ive, Network RTK, MAGNET Relay, or a local base station RTK message will provide the best hybrid positioning solution.



Learn more at www.topnetlive.com



GT-1200/GT-600 Robotic Total Station

- 10 Hz update rates to the FC-6000 field computer for more efficient staking
- Ultrasonic Direct Drive motors with 180° turning speed for exceptional productivity
- 30% smaller and lighter than any other Topcon series robotic instrument
- Optimize productivity by combining the GT-1200/GT-600, FC-6000, and MAGNET software with a HiPer series receiver

FC-6000 Field Computer

- Increased processing speed for data sets large and small with improved graphics
- LongLink™ Bluetooth provides two times longer range than class 1 Bluetooth
- Long lasting, hot swappable battery and an internal battery for additional runtime
- Optional external keyboard and docking station further enhance productivity

HiPer VR Receiver

- Automatically tracks every satellite constellation signal now and into the future
- Withstand the harshest environments with rugged IP67 design
- Compact form factor ideal for Millimeter GPS and Hybrid Positioning
- Capture mis-leveled field measurements out of plumb by as much as 15°

MAGNET Software Suite

- Streamline your most-used routines and ensure a fast and easy data connection from field to office
- Faster, customizable applications for processing, field-to-finish and 3D construction
- Integrate robotic total station and GNSS with increased speed and productivity
- Graphical intuitive software with low learning curve
- Microsoft Bing Maps® for satellite image background



Specifications subject to change without notice.
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www.topconpositioning.com/hybrid

