LIGHT RAIL TRANSIT AUTHORITY

BAGONG PILIPINAS

NOTICE OF AWARD

Ms. EMELINDA A. TOLLO
Authorized Representative
EARTHNAV TRADING CORPORATION
G/F REC Building No. 12 Regaldo Ave.
North Fairview 5, Quezon City
Tel. No./Mobile No.: (02) 8880-93620 / 09190095443
Email: etc.management@earthnav.ph

Dear **Ms. Tollo:**

This is to formally notify your company that the **Contract for the One (1) Lot Supply of Real-Time Kinematic (RTK) Global Positioning System (GPS) Parcellary Survey Equipment under P.R. NO. CXP-2503-006 AND ITB NO. 2505-106-08** is hereby awarded to you as the bidder with the Lowest Calculated and Responsive offer at a price equivalent to **THREE MILLION EIGHT HUNDRED EIGHT THOUSAND (₱3,808,000.00) PESOS.**

You are therefore required within ten (10) calendar days from receipt of this Notice of Award to formally enter into contract with LRTA and to submit the Performance Security in the form and amount stipulated in the Instructions to Bidders. Failure to enter into said contract or post the required Performance Security shall constitute a sufficient ground for the cancellation of this award and forfeiture of your Bid Security.

Very truly yours,

Atty. HERNANDO T. CABRERA
Administrator

Conforme:

Ms. EMELINDA A. TOLLO
EARTHNAV TRADING CORPORATION

Date: 09-24-2025

Address:
Line 2 Depot, Marcos Highway, Santolan, Pasig City, Metro Manila, Philippines 1610
Trunkline: 86473479 / 86473481 / 86473484 / 86473485 / 86473487
website: www.lrta.gov.ph

CERTIFICATION INTERNATIONAL ISO 9001:2015

PURCHASE ORDER

LIGHT RAIL TRANSIT AUTHORITY
Line 2 Depot, Marcos Highway, Santolan Pasig City
Agency

Supplier:	**EARTHNAV TRADING CORPORATION**	P.O. No.:	**2025-09-0138**
Address :	G/F REC Building No. 12 Regalado Ave., North Fairview 5, Quezon City	Date:	30-Sep-25
TIN:		P.R. No.:	**CXP-2503-006**
Mode of Procurement:	"Public Bidding"	Date:	12-Mar-25

Gentlemen:

Please furnish this Office the following articles subject to the terms and conditions contained herein as well as those provided in the following : (a) The bid form and the Price Schedule Submitted by the Bidder : (b) The Schedule of Requirements : (c) The Technical Specifications; (d) The General Conditions of the Contract; (e) The Special Conditions of the Contract; and (f) The Entity's Notification of Award.

Place of Delivery:	LINE 2 DEPOT, SANTOLAN, PASIG CITY
Delivery Term :	45 Days URPO
Payment Terms :	Government Terms consistent with the pertinent provisions of RA 9184 and related issuances

Stock Number	Unit	Description	Quantity	Unit Cost	Amount
	Lot	**Real-Time Kinematic (RTK) Global Positioning System (GPS) Parcellary Survey Equipment** **RTK GPS/GNSS (Base and Rover Receiver with Controller)** A. Base Station (Offer) **E-SURVEY E600** **Position update rate range** : 20 HZ **Channels :** 1408 channels. **GNSS Upgrades :** with GPS, GLONASS, Galileo, Beidou, L5 Upgrades, QZSS,SBAC **Mobile Satellite Service Option : a**. Horizontal = 2 cm / **b**. Vertical = 5 cm **Static : a**. Horizontal = 3 mm + 0.1 ppm / **b**. Vertical = 3.5 m + 0.4 ppm **RTK Positioning (UP TO 30 km) : a.** Horizontal = 8 mm + 1 ppm RMS / **b.** Vertical = 15 mm + 1 ppm RMS **Anti-Theft Feature :** With password protected UI, anti-theft technology **Temperature : a.** Operating Temperature: -30 °C to +65 °C **b.** Storage Temperature: -40 °C to +80 °C **Operation Time on Internal Battery :** 22 hours of working time **Water & Dust Proof :** IP67 **Shock :** Survive a 1.2m free drop **Communications : a.** Must support USB, Serial (Lemo or equivalent), Bluetooth, Wi-Fi, Cellular (with SIM slot), and NTRIP **b.**.Data Formats - Supports CMR, RTCM 2.x, and RTCM 3.x **c.** .Internal UHF Radio - Power: at least 1 Watt, Frequency: 410–470 MHz **d.** Internal Storage - Minimum 6 GB internal memory; expandable via USB **Receiver with Repeater Capability :** Receiver support repeater(TRU35 External Radio) **Accessories :** **a**. Heavy-duty tripod with tribrach **b**. External battery with charger **c**. High-gain UHF antenna **d**. Controller adapter **e**. All necessary connection and data cables **f.** User manual B. Rover Receiver (Offer) **E-SURVEY E600** **Position update rate range** : 20HZ **Channels :** 1408 channels. **Rover with correction back-up feature for RTK up to 5 minutes :** RTK Aid Function: Uninterrupted Work **GNSS Upgrades :** with GPS, GLONASS, Galileo, Beidou, L5 Upgrades, QZSS,SBAC **Mobile Satellite Service Option : a.** Horizontal = 2 cm **b.** Vertical = 5 cm **With Tilt Compensation :** max 60 degrees Tilt Survey, Quickly measure accurate points while standing or walking leveling the pole as per datasheet/brochure **Static : a.** Horizontal = (3.0 mm) + 0.1 ppm **b.** Vertical = (3.5 mm) + 0.4 ppm **RTK Positioning (UP TO 30 km) : a**. Horizontal = (8 mm) + 1 ppm RMS **b**. Vertical = (15 mm) + 1 ppm RMS **Temperature : a**. Operating Temperature: -30 °C to +65 °C **b**. Storage Temperature: -40 °C to +80 °C **Operation Time on Internal Battery :** up to 22 hours as rover **Water & Dust Proof :** IP67 **Shock :** Survive a 1.2m free drop **Communications :** **a.** USB -Serial / Lemo -Bluetooth / Wi-Fi -Internal cellular (3G/4G) -NTRIP client/caster -Internal/external UHF radio (≥1W)	1	₱ 3,808,000.00	₱ 3,808,000.00

COMMISSION ON AUDIT
Light Rail Transit Authority
RECEIVED
17 NOV 2025
BY: PATRICK [illegible] CASTILLO
[illegible] Professional A

PURCHASE ORDER

LIGHT RAIL TRANSIT AUTHORITY
Line 2 Depot, Marcos Highway, Santolan Pasig City
Agency

Supplier:	**EARTHNAV TRADING CORPORATION**	P.O. No.:	**2025-09-0138**
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Place of Delivery:	LINE 2 DEPOT, SANTOLAN, PASIG CITY
Delivery Term :	45 Days URPO
Payment Terms :	Government Terms consistent with the pertinent provisions of RA 9184 and related issuances

Stock Number	Unit	Description	Quantity	Unit Cost	Amount
		b. Data Format: Support standard correction formats: - RTCM 2.x / 3.x, CMR/CMRx - support RINEX export or direct post-processing compatibility **c.** 6 GB internal memory expandable via USB or SD card preferred **Accessories :** **a.** carbon fiber Range Pole with Bipod **b.** Two (2) external internal batteries **c.** User's manual, data download cables, connection cables, high-gain antenna, controller adapter **C. GPS Controller with Field Software** (Offer) **E- SURVEY UT32** **Temperature :** "**a.** Operating =from -20°C to +60 °C or higher **b.** Storage = could operate from -40 °C to +70 °C" **Humidity :** 0-95% RH temp, non-condensing **Sand and dust IP6X :** **Water Ip8 :** IP67 **Processor :** Qualcomm MSM8953 Pro, Octane-Core 2.2GHz **Memory :** 4 GB RAM **Storage :** 64GB RAM **Battery :** 15 hours working time **Display :** 8-inch capacitive touch pane / **Resolution:** at least 1280 x 800 **Keyboard :** On-screen QWERTY or ABCD layout **Aduio :** Bluetooth headset support, support for microphone and speaker **Wireless :** Bluetooth 4.2, Wi-Fi, and WWAN (3G/4G/LTE) capable **Expansion :** via microSDXC card up to 2 TB **GNSS :** Integrated GNSS **Sensors :** Support accelerometer, magnetic sensor, proximity sensor, ambient light **Camera :** Rear Camera 13 mp autofocus with flash, front cam 5 MP focus **Processing Software** (Offer) **AUTODESK AUTOCAD 2025 WITH GE SURVEY** **License of Computer Aided Drafting Design :** autocad 2025 • Must support 2D drafting and basic 3D modeling • Compatible with industry-standard file formats (e.g., .DWG, .DXF, .PDF) • Can be installed on Windows 10 or higher • Version: Released 2018 or higher • License: Perpetual or Subscription, valid for at least 3 years • User interface and documentation in English • Should support: - Layering, annotation, object snapping - Printing and plotting - Customization via macros or scripts (optional)			

PURCHASE ORDER

LIGHT RAIL TRANSIT AUTHORITY

Line 2 Depot, Marcos Highway, Santolan Pasig City

Agency

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TIN:		P.R. No.:	**CXP-2503-006**
Mode of Procurement: "Public Bidding"		Date:	12-Mar-25

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Place of Delivery: LINE 2 DEPOT, SANTOLAN, PASIG CITY	**Payment Terms :** Government Terms consistent with the pertinent provisions of RA 9184 and related issuances
Delivery Term : 45 Days URPO	

Stock Number	Unit	Description	Quantity	Unit Cost	Amount
		GE Survey : With GE Survey **Processing Hardware** (Offer) **MSI VECTOR 16 HX A2XW** **Processor :** • Intel Core ULTRA 9 PROCESSOR e.g., i7-13700H / i7- 14650HX) or • 24 cores / 24 threads **Operating System :** • Pre-installed Windows 11 Pro business • Must include genuine license and recovery tools **Display Type :** Screen Size: 16.0 inches • Resolution: WHD+• Display Type: IPS• Brightness: 448.9 nits• Refresh Rate: 240Hz **Memory :** • Installed RAM: 32 GB DDR5-5600 (16 GB *2) • Must support dual-channel architecture • Expandable to 96 GB or more preferred **Storage :** • Solid State Drive (SSD): 1 TB PCIe Gen4 NVMe • Read/Write Speed: At least 3,000 MB/s • Expandable storage via M.2 Gen4 NVMe and Gen5 NVMe **Warranty :** • 2 years on-site or premium care warranty • Includes parts and labor, technical support, and service coverage in the Philippines **Graphics :** • Dedicated GPU • NVIDIA GeForce RTX 5080 with at 16GB GDDR7 • Gen4 NVMesupport CUDA and hardware acceleration for CAD/rendering **Input/Output :** • USB 3.2 Gen 1/2 ports (2 x Type-A and 2 Type-C) • HDMI 2.1 or DisplayPort • Audio jack (3.5 mm combo jack) • with SD or microSD card reader **Keyboard and Input :** • Full-size backlit keyboard-0 24-Zone RGB Gaming Keyboard with Co-pilot Key • Precision touchpad - Silky smooth touchpad • Optional Firmware Trusted platform (fTPM) 2.0 , Webcam shutter, Kensington Lock **Wireless and Connectivit :** • Wi-Fi 6E AxII • Bluetooth v5.3 or • with 2.5 Gigabit Ethernet port **Battery Life :** • 90 working hours typical usage on productivity tasks • Fast-charging capable (50% in 30–45 minutes)			

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Payment Terms :	Government Terms consistent with the pertinent provisions of RA 9184 and related issuances

Stock Number	Unit	Description	Quantity	Unit Cost	Amount
		Post - Processing Software (Offer) **E-SURVEY GEOSOLUTION Software processor for RTK data :** • The software support post- processing of GNSS observation data for positioning and accuracy refinement (e.g., static, kinematic). • built-in Rinex Data Converter capable of importing and processing standard RINEX files. • allow export of processed results into commonly used formats, including: - Spreadsheet formats such as CSV or Excel - Computer-Aided Design (CAD) compatible formats such as DXF - Other optional formats: KML, SHP, or TXT • runs on Windows 10 or later. • May be bundled with GNSS hardware or provided as a standalone utility. • The software interface must be in English and include user documentation thru Rich Preset Coordinate System • Graphical output, baseline viewer, or data quality indicators are desirable but not mandatory			
		EARTHNAVCORS STATION Free (5) years subscription on the Earthnav Trading Corp. Continues Operation System (CORS) station.			
		5 days training on RTK-GPS hardware and software			
		One year (1) warranty on parts and services			
		Note: **1.)** Refer to Section 39.1 Performance Security Requirement of IRR-A of R.A. 9184. Failure to post the necessary Performance Bond w/in the prescribed period will result to the automatic cancellation of this P.O.			
		2.) Warranty Security shall likewise be posted for the duration of the above mentioned warranty period to be made effective after final acceptance thereof.			
		The obligation for the warranty shall be covered by either retention money in an amount equivalent to at least one percent (1%) of every progress payment, or a special bank guarantee to at least one percent (1%) of the total contract price.			

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Place of Delivery:	LINE 2 DEPOT, SANTOLAN, PASIG CITY	**Payment Terms :** Government Terms consistent with the pertinent provisions of RA 9184 and related issuances	
Delivery Term :	45 Days URPO		

Stock Number	Unit	Description	Quantity	Unit Cost	Amount
		3.) Submit Certificate of Country of Origin upon Delivery (if Applicable)			
		4.) Notify the Procurement Division in writing at least two (2) working days before the intended date of delivery.			

CERTIFICATE OF [illegible]

AMOUNT: ₱ 3,808,00/

ACCOUNT: OT-99 (Other Transportation Activities Payroll and Supplies)

B. C. NO.: P.O.-LICM-2025-10-03-0011

DOMINICK D. CORNELIO
Manager, Budget Division

Page 5 of 5

Total Amount in Words: **Three Million Eight Hundred Eight Thousand Pesos Only** — ₱ **3,808,000.00**

In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Very truly yours,

ATTY. HERNANDO T. CABRERA
Administrator
Authorized Official

Conforme:

EMELINDA A. TOLLO
Signature over Printed Name of Supplier

10-15-25
Date

Funds Available:

Mr. DOMINICK D. CORNELIO
Manager, Budgeting and Financial Planning Division
Chief Budget Officer

LIGHT RAIL TRANSIT AUTHORITY

BAGONG PILIPINAS

September 30, 2025

To : **MS. EMELINDA A. TOLLO**
Authorized Representative
EARTHNAV TRADING CORPORATION
G/F REC Building No. 12, Regalado Ave.,
North Fairview 5, Quezon City

NOTICE TO PROCEED

In connection with the Procurement of the **CONTRACT FOR THE ONE (1) LOT SUPPLY OF REAL-TIME KINEMATIC (RTK) GLOBAL POSITIONING SYSTEM (GPS) PARCELLARY SURVEY EQUIPMENT** under **PR # CXP-2503-006 / ITB # 2505-106-08** you are hereby directed to immediately comply with your obligations as stipulated in the Contract / Purchase Order (P.O.) on or before (45) Days from receipt thereof.

Very truly yours,

ATTY. HERNANDO T. CABRERA
Administrator

Received By : EMELINDA A. TOLLO
Signature over printed name

Date : 10-15-2025

Address:
Line 2 Depot, Marcos Highway, Santolan, Pasig City, Metro Manila, Philippines 1610
Trunkline: 86473479 / 86473481 / 86473484 / 86473485 / 86473487
website: www.lrta.gov.ph

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