



SUPPLEMENTAL/BID BULLETIN (SBB) NO. 1

This SBB No. 1 dated August 15, 2017 for the project, “Supply and Delivery of Branded and Brand New Survey Instruments,” is issued to clarify, modify or amend items in the Bidding Documents. Accordingly, this shall form an integral part of said Documents.

Particulars	Amendment/Clarification
Section VII (Item 1)	<p>GPS/GNSS Survey Instrument (1 Base, 1 Rover, 1 Controller, Processing Software)</p> <p>*Base and Rover</p> <ul style="list-style-type: none"> - Supports signals from GNSS system (GPS, GLONASS, Galileo, BeiDou, SBAS and QZSS) - Battery should last at least 8 hours working time - Dustproof/Waterproof IP67 standard or higher - Able to survive 2 meter or higher natural fall - With electronic level automatically measures when level - Multi network connection that support Wifi, Bluetooth, GPRS/CDMA or more - Working Frequency 410-470 Mhz - Interchangeable unit (base to rover – rover to base) - With security or anti-theft protection feature - Minimum of 220 channel - Signal Tracking: <ul style="list-style-type: none"> ○ GPS Signals: L1C/A, L1P(Y), L2P(Y), L2C, L2P(Y), L5 or more ○ GLONASS Signals: L1 C/A,L1P, L2 C/A, L2P, L3 or more ○ BeiDou Signals: B1, B2 or more ○ Galileo Signals: E1, E5a, E5b or more ○ QZSS Signal: L1C/A, L1C, L2C, L5, L1-SAIF or more ○ SBAS (WAAS/EGNOS/MSAS/GAGAN): L1C/A, L5 (WAAS/EGNOS/MSAS/GAGAN/SDCM) or more - Real Time Kinematic: <ul style="list-style-type: none"> ○ Horizontal: min 8mm + 1ppm; ○ Vertical: min 15mm + 1 ppm - Static and Fast Static: <ul style="list-style-type: none"> ○ Horizontal: min 3mm + 0.5ppm; ○ Vertical: min 5mm + 0.5ppm - High Precision Static: <ul style="list-style-type: none"> ○ Horizontal: min 3mm + 0.1ppm ; ○ Vertical: min 3.5mm +0.4 ppm - Memory: 2GB internal memory; Memory Card Slot: up to 32 Gb SD/SDHC SD Card for Static and PPK Data storage <p>*GNSS Controller (same brand with Base/Rover) Processor: At least 1 Ghz Operating System: Windows Embedded Handheld 6.5 RAM: At least 512 MB RAM Flash Storage: At least 8GB non-volatile or better</p>

	<p>Expansion: MicroSD card slot; Sim Card slot Display: 3.5" to 4.5" touchscreen display sunlight readable Communications: Integrated camera with a minimum of 5 megapixel with Geo-tagging, Bluetooth, GPS receiver, Wifi</p> <ul style="list-style-type: none"> - Dustproof/waterproof IP67 standard or higher - Drop: 1.2 meter or higher - Operating Temp. -30 to 60 degree Celsius or better - Storage Temp. -40 to 70 degree Celsius or better - With On-board Licensed GNSS Field Software: - With built-in PRS 92 and GEOID Model for MSL elevation and with SP Central Cloud including Web Portal, Smart phone application <p>*Post- Processing Software with License (Latest Version)</p> <p>*With 1 unit of Laser Rangefinder-per set and accessories:</p> <ul style="list-style-type: none"> - 9 units lightweight aluminum tripod (at least 4.5 kg with wing knot screw or quick release clamp) - 9 units tribrach (three jaw adapter with optical plummet) and rotating adapter - 9 meter measuring tape - 3 heavy duty range pole with built-in bubble level (quick looking system made by metal with carrying bag) - Hard case, Connectors, cables, battery pack, chargers, installers, Manuals of Software and Equipment (Electronic file and hard copy) <p>Additional Requirements:</p> <ul style="list-style-type: none"> - Equipment/Instruments must be of GLOBAL BRAND and BRAND NEW. Instrument's Technology is owned and developed by the brand itself. - With two years FREE upgrade on FIRMWARE of GNSS receiver and one year FREE upgrade on GNSS Field and Office Software - Manufacturer should have an ISO Certification - With authorized distributorship certificate issued by head office of equipment manufacturer in case of sub-dealership - Warranty of TWO years against factory inherent defects and service and free lifetime after sales support on services - Free on-site training on the actual operation and processing of data for five days to be conducted by a trained technician with training certificate from the manufacturer <p>*Winning supplier to take charge of registration with NAMRIA</p>
Section VII (Item 3)	xxx Minimum Range: 5 kilometers with prism xxx

For guidance and information of all concerned.


ATTY. HARRIET N. ABYADANG
BAC Chairperson