REQUEST FOR QUOTATION (RFQ)
Goods and/or Services

NAME & ADDRESS SERVICE PROVIDER: _____ _____ _____ **PARTICULARS PROSPECTIVE SERVICE PROVIDER**	DATE: **15 July 2022** REFERENCE: **2021 POPULATION & HOUSING CENSUS – MAPPING PROJECT**

Dear Sir / Madam:

You are kindly requested to submit your **Quotation** for the following ***items before 13:00PM Afternoon*** on: _ ___**Friday, 22 July 2022**

Item	**Generic Description:** **PROCUREMENT OF ONE (1) MAPPING DRONE for the NSA**	Quantity
1.	**RFQ SPECIFICATIONS AS BELOW:** **1. Aircraft (DRONE)** Max Flight Time: Approx. 30 minutes Operating Frequency: 2.400 GHz to 2.483 GHz; 5.725 GHz to 5.850 GHz Transmission Power (EIRP): 2.4 GHz CECE (Europe) / FCC United States / < 26 dBm Hover Accuracy Range: RTK enabled and functioning properly: Vertical ±0.1 m, Horizontal ±0.1 m RTK disabled Vertical ±0.1 m with vision positioning ±0.5 m with GNSS positioning; Horizontal ±0.3 m with vision positioning; ±1.5 m with GNSS positioning **Camera** Sensor: 1”” CMOS; Effective pixels: 20M Lens: FOV 84° 8.8 mm / 24 mm (35 mm format equivalent:24 mm) f/2.8 – f/11, auto focus at 1 m – ISO Range: Video:100-3200 (Auto), 100-6400 (Manual) Photo:100-3200 (Auto), 100-12800 (Manual) Mechanical Shutter Speed: 8 – 1/2000 s Electronic Shutter Speed: 8 – 1/8000 s Max Image Size: 4864×3648 (4:3) 5472×3648 (3:2) Video Recording Modes: H.264-4K 3840×2160 30p Photo Format: JPEG Video Format: MOV Supported File Systems: FAT32 32 GB & exFAT> 32 GB Supported SD Cards: MicroSD, Max Capacity: 128 GB. Class 10 or UHS-1 rating required Write speed over 15 MB/s	

GNSS
Single-Frequency, High-Sensitivity GNSS Module: GPS+BeiDou+Galileo

Frequency Used GPS L1/L2 GLONASS L1/L2 BeiDou B1/B2 Galileo*E1/E5a

First-Fixed Time< 50 s

Positioning Accuracy: Vertical 1.5 cm + 1 ppm RMS
Horizontal 1 cm + 1 ppm RMS
1 ppm means the error has a 1mm increase for every 1 km of movement from the aircraft.
*Available soon

Gimbal
Stabilization: 3-axis (tilt, roll, yaw)
Pitch: -90° to +30°
Max Controllable Angular Speed: 90°/s
Angular Vibration Range: ±0.02°

Infrared
Obstacle Sensing Range: 0.6-23 ft(0.2 – 7 m)
FOV: 70°(Horizontal), ±10°(Vertical)
Measuring Frequency: 10 Hz
Operating Environment: Surface with diffuse reflection material, and reflectivity under 8% such as walls, trees, humans, etc.)

Remote Controller
Operating Frequency: 2.400 GHz-2.483 GHz; 5.725 GHz-5.850 GHz
Transmission Power (EIRP): 2.4 GHz CE / MIC / KCC< 20 dBm; 5.8 GHz SRRC / FCC< 26 dBm
Max Transmission Distance: FCC 4.3 mi(7 km) SRRC / CE / MIC / KCC 3.1 mi(5 km) (Unobstructed, free of interference)
Power Consumption: 16 W (typical value)
Display: 5.5 inch screen, 1920×1080, 1000 cd/m², Android System
Memory: 4G RAM+16G ROM

Vision System
Velocity Range: 50 kph at 2 m above ground with adequate lighting
Altitude Range: 0 – 10 m
Operating Range: 0 – 10 m
Obstacle Sensing Range: 0.7-30 m
FOV: Forward/Rear: 60° (horizontal), ±27° (vertical), Downward: 70° (front and rear), 50° (left and right)
Measuring Frequency: Forward/Rear 10 Hz; Downward 20 Hz

Intelligent Flight Battery Charging Hub
Voltage: 17.5 V
Operating Temperature Range: 5 to 40 °C
Capacity: 4920 mAh
Voltage: 7.6V
Battery Type: LiPo 2S
Energy: 37.39Wh

Intelligent Battery Charging Hub (WCH2)

2.	Input Voltage: 17.3 – 26.2 V Output Voltage and Current: 8.7 V – 6 A, 5 V2 A Operating Temperature: 5 to 40°C **AC Power Adapter** Voltage: 17.4 V Rated Power: 160 W **Other Accessories to be included:** • 1 x car charger for flight battery • 1 x Remote Control with Display • 2 x Intelligent Flight Battery • 1 x Intelligent Battery for Remote Control • 1 x Charging Hub for Flight Battery • 1 x Charging Hub for Remote Control Battery) • 1 x Power Adapter • 1 x Power Cable • 8 x Propeller Pairs **1. The bidding company will be required to provide: (If possible, kindly give a clear separate costing of the listed items below in One Quote or Separate Quotation.** • Provision of flight planning software • 1-year guarantee • Manuals and offer training to the NSA on how to fly drone and plan flights. **Interested Companies are requested to provide a comprehensive Financial Proposal (Quotation) with Company Profile and other company Legal Docs; Registration; Good Standing; Tax Registration; Banging Confirmation documents etc.**	

NAME, FUNCTIONAL TITLE: _**Procurement Associate – Hendrik Jossop**
Signature: _____ DATE: **15 July 2022**
CONTACT ADDRESS: __**38 – 44 Stein Street, UN HOUSE** FAX NO: _**264-61-2046203**

Submit to: E-MAIL ADDRESS: __procurement.na@undp.org___