REQUEST FOR QUOTATION (RFQ)
Goods and/or Services

NAME & ADDRESS SERVICE PROVIDER: __________________________
____________________________________________________________
_________________________ ___________________________

DATE: 15 July 2022
REFERENCE: 2021 POPULATION & HOUSING CENSUS – MAPPING PROJECT

PARTICULARS PROSPECTIVE SERVICE PROVIDER

Dear Sir / Madam:

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Generic Description: PROCUREMENT OF ONE (1) MAPPING DRONE for the NSA</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>RFQ SPECIFICATIONS AS BELOW:</td>
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<tr>
<td></td>
<td>1. Aircraft (DRONE)</td>
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<td></td>
<td>Max Flight Time: Approx. 30 minutes</td>
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<td></td>
<td>Operating Frequency: 2.400 GHz to 2.483 GHz;</td>
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<td></td>
<td>5.725 GHz to 5.850 GHz</td>
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<td></td>
<td>Transmission Power (EIRP): 2.4 GHz CECE</td>
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<tr>
<td></td>
<td>(Europe) / FCC United States / &lt; 26 dBm</td>
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<td></td>
<td>Hover Accuracy Range: RTK enabled and</td>
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<tr>
<td></td>
<td>functioning properly: Vertical ±0.1 m,</td>
<td></td>
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<tr>
<td></td>
<td>Horizontal ±0.1 m</td>
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<td></td>
<td>RTK disabled Vertical ±0.1 m with vision</td>
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<tr>
<td></td>
<td>positioning ±0.5 m with GNSS positioning;</td>
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<td>Horizontal ±0.3 m with vision positioning;</td>
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<td></td>
<td>±1.5 m with GNSS positioning</td>
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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

Rev Oct 2000 1
**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)**
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; Banking 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__