



## TENDER FOR PROCUREMENT OF SURVEY EQUIPMENT

**National Engineering Services Pakistan (Pvt.) Limited (NESPAK)** invites sealed quotations from active GST registered firms for the procurement of Survey Equipment (Lot-1, Lot-2, Lot-3, Lot-04).

Sealed quotations can be submitted on or before **June 14, 2024**, up to **11:00 A.M.** at the office given below. Quotations will be opened at **11:30 A.M.** on the same day in the presence of the bidders, who choose to be present. NESPAK reserves the right to accept or reject any/all bids according to provision of PPRA rules 2004. This advertisement is also available on **NESPAK** ([www.nespak.com.pk](http://www.nespak.com.pk)) website.

**Secretary PC, NESPAK House, 1C, Block-N, Model Town Ext., Lahore. Tel: +92-42-99090514, +92-42-99090607, Email: [purchase@nespak.com.pk](mailto:purchase@nespak.com.pk)**

## TENDER FOR PROCUREMENT OF SURVEY EQUIPMENT

### LOT – 2

### TOTAL STATION

Sealed Quotations are invited from active GST registered firms for the procurement of the following item. The bidders can supply all or any item as per availability, required specifications and quality.

Sr. #	Items	Qty	Rate	Tax	Amount	Delivery Time*
1	<p>Leica Total Station model TS-07 with 1000m range, Angle Measurement Accuracy 1" Least Count 0.5" (0.5 mgon), Compensation Quadruple axis compensation (Setting On, Off), Compensator Setting accuracy 0.5", 1", 1.5", Range (90% effective), Flex Point, Pin Point – Power, Pin Point – Ultra - 30 m &gt; 400 m3) &gt; 1000 m3), Accuracy / Measurement time, 2 mm+2 ppm2 / typ. 3 s, Laser dot size , At 30 m: approx. 7 mm x 10 mm, At 50 m: approx. 8 mm x 20 mm Extended Internal memory, Max.: 100'000 fix points, Max.: 60'000 measurements, USB memory stick, 128 Gigabyte, Transfer time 1'000 points/second optional, Interfaces Serial (Baudrate 1'200 to 115'200), USB Type A and mini B, Bluetooth® Wireless, Data formats GSI / DXF / Land XML / CSV / user definable ASCII formats, Magnification 30 x, Keyboard Alpha-numerical keyboard, Type Lithium-Ion, Operating time approx. 20 hours1, Black and White Display Doable Side Display with container and standard accessories.</p> <ul style="list-style-type: none"><li>□ Leica battery GEB 222</li><li>➤ Leica Charger GKL 311</li><li>➤ USB 128 GB</li><li>➤ Leica GPR-1 Two Prism Holder Prism with Plate soft bag</li><li>➤ Two prism poles Graduated 2.6m meter built in bubble with soft case Complete set</li><li>➤ Two Sets of Mini Prism (including Mini Prism, Holder, Rod and mini catcher)</li></ul> <p>Leica GST20 Wooden Heavy-Duty Tripod for Total Station</p> <p>Or Equivalent brand that meets the technical specs for tunnel projects.</p>	01				

The details of the required equipment are stated below, the bidders can quote for equivalent models:

*\*After issuance of purchase order.*

### **TERM & CONDITIONS:**

1. Sealed quotations can be submitted on or before June 15, 2024 till 11:00 a.m. along with Rs. 75,000 of bid earnest money in form of

pay order/CDR/Bank Draft in the name of National Engineering Services Pakistan (Pvt) Limited. Quotations will be opened on the same date at 11:30 a.m. Pay order of supplier approved by the committee will be retained till completion of supply order. In case of non-compliance of the purchase order, earnest money will be forfeited and purchase order will be treated as cancelled.

2. The bids shall be evaluated as single stage two envelope. The financial bid should be submitted in separate envelope.
3. **Item wise cost will be evaluated, and the procuring agency can accept or reject any item at evaluation stage. The qualified supplier will be declared against each item.**
4. All quoted items should have minimum 2-years comprehensive warranty.
5. The procuring agency reserve the right to disqualify conditional bids.
6. Quotations received without earnest money and after due date and time shall not be entertained
7. The competent authority reserves the right to reject any or all the bids in accordance with Rule 33 of Public Procurement Rule 2004.
8. Supply of said items shall be made within three weeks of issuance of purchase order by NESPAK.
9. No advance payment will be made by NESPAK. Payment will be released within four weeks of supply of approved stock as per purchase order.
10. Sales Tax, income Tax and other Taxes shall be deducted as per Government rules.
11. This tender is available at NESPAK [www.nespak.com.pk](http://www.nespak.com.pk) and PPRA [www.ppra.org.pk](http://www.ppra.org.pk) websites.
12. Interested suppliers must attach GST & NTN certificates (Copies) along with quotation; otherwise quotation will not be entertained.
13. The vender can supply equivalent items subject to its compatibility with existing in hand equipment.

## TENDER FOR PROCUREMENT OF SURVEY EQUIPMENT

### LOT – 1

#### Drones and Accessories

Sealed Quotations are invited from active GST registered firms for the procurement of the following item. The bidders can supply all or any item as per availability, required specifications and quality.

Sr. #	Items	Qty	Rate	Tax	Amount	Delivery Time*
1	DJI Mavic 3E Enterprise standard package with RTK module for aircraft and 3 x Battery Kit.	01				
2	DJI Matrice 300 RTK Drone Batteries (TB 65)	20				
3	M300 CSM Radar (DJI Matrice 300 RTK Drone safety)	2				
4	35mm Lens for Zenmuse X7	2				
5	Remote Controller (RC) for Matric 300 RTK and 210 RTK	1				

The details of the required equipment are stated below, the bidders can quote for equivalent models:

*\*After issuance of purchase order.*

#### **TERM & CONDITIONS:**

14. Sealed quotations can be submitted on or before June 15, 2024 till 11:00 a.m. along with Rs. 50,000 of bid earnest money in form of pay order/CDR/Bank Draft in the name of National Engineering Services Pakistan (Pvt) Limited. Quotations will be opened on the same date at 11:30 a.m. Pay order of supplier approved by the committee will be retained till completion of supply order. In case of non-compliance of the purchase order, earnest money will be forfeited and purchase order will be treated as cancelled.
15. The bids shall be evaluated as single stage two envelope. The financial bid should be submitted in separate envelope.
16. **Item wise cost will be evaluated, and the procuring agency can accept or reject any item at evaluation stage. The qualified supplier will be declared against each item.**
17. All quoted items should have minimum 2-years comprehensive warranty.
18. The procuring agency reserve the right to disqualify conditional bids.
19. Quotations received without earnest money and after due date and time shall not be entertained
20. The competent authority reserves the right to reject any or all the

- bids in accordance with Rule 33 of Public Procurement Rule 2004.
21. Supply of said items shall be made within three weeks of issuance of purchase order by NESPAK.
  22. No advance payment will be made by NESPAK. Payment will be released within four weeks of supply of approved stock as per purchase order.
  23. Sales Tax, income Tax and other Taxes shall be deducted as per Government rules.
  24. This tender is available at NESPAK [www.nespak.com.pk](http://www.nespak.com.pk) and PPRA [www.ppra.org.pk](http://www.ppra.org.pk) websites.
  25. Interested suppliers must attach GST & NTN certificates (Copies) along with quotation; otherwise quotation will not be entertained.
  26. The vender can supply equivalent items subject to its compatibility with existing in hand equipment.

## TENDER FOR PROCUREMENT OF SURVEY EQUIPMENT

### LOT – 3

#### Fix Wing Drone

Sealed Quotations are invited from active GST registered firms for the procurement of the following item. The bidders can supply all or any item as per availability, required specifications and quality.

Sr. #	Items	Qty	Rate	Tax	Amount	Delivery Time*
1	Fix Wing Drone vertical take-off and landing (VTOL), Battery type Li-ion, smart battery technology, Onboard GPS Redundant, using GPS (L1, L2), GLONASS (L1, L2), Galileo (L1) and BeiDou (L1), Flight planning & mission control software pre-installed in tablet. Payload 61 MP RGB Camera lens Optional 24mm / 35mm.	01				
2	Additional Batteries for above mentioned Drone.	03 Sets				

The details of the required equipment are stated below, the bidders can quote for equivalent models:

*\*After issuance of purchase order.*

#### **TERM & CONDITIONS:**

1. Sealed quotations can be submitted on or before June 15, 2024 till 11:00 a.m. along with Rs. 100,000 of bid earnest money in form of pay order/CDR/Bank Draft in the name of National Engineering Services Pakistan (Pvt) Limited. Quotations will be opened on the same date at 11:30 a.m. Pay order of supplier approved by the committee will be retained till completion of supply order. In case of non-compliance of the purchase order, earnest money will be forfeited and purchase order will be treated as cancelled.
2. The bids shall be evaluated as single stage two envelope. The financial bid should be submitted in separate envelope.
3. **Item wise cost will be evaluated, and the procuring agency can accept or reject any item at evaluation stage. The qualified supplier will be declared against each item.**
4. All quoted items should have minimum 2-years comprehensive warranty.
5. The procuring agency reserve the right to disqualify conditional bids.
6. Quotations received without earnest money and after due date and time shall not be entertained
7. The competent authority reserves the right to reject any or all the bids in accordance with Rule 33 of Public Procurement Rule 2004.

8. Supply of said items shall be made within three weeks of issuance of purchase order by NESPAK.
9. No advance payment will be made by NESPAK. Payment will be released within four weeks of supply of approved stock as per purchase order.
10. Sales Tax, income Tax and other Taxes shall be deducted as per Government rules.
11. This tender is available at NESPAK [www.nespak.com.pk](http://www.nespak.com.pk) and PPRA [www.ppra.org.pk](http://www.ppra.org.pk) websites.
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**TENDER FOR PROCUREMENT OF SURVEY EQUIPMENT**

**LOT – 4**

**Echosounder and Differential GPS**

Sr. #	Items	Qty	Rate	Tax	Amount	Delivery Time*
1	<p><b>GNSS Rover</b>  <b>GNSS Performance (Static and Fast Static)</b>  Horizontal .....3 mm + 0.5 ppm RMS  Vertical .....5 mm + 0.5 ppm RMS  <b>Real Time Extended (precise positioning)</b>  Horizontal accuracy .....2 cm RMS  Vertical accuracy .....5 cm RMS  <b>Network RTK</b>  Horizontal .....8 mm + 0.5 ppm RMS  Vertical .....15 mm + 0.5 ppm RMS  Positioning rate .....1 Hz, 10 Hz, 20 Hz  <b>Signal Tracking</b>  • GPS: L1C/A, L2C, L5  • GLONASS: L1C/A, L2C/A  • SBAS: L1C/A, L2C, L5  • Galileo: E1, E5A  • BeiDou: B1, B2A  • QZSS: L1C/A, L2C, L5  • NavIC (IRNSS): L5  <b>Mechanical</b>  Ingress protection level .....IP67 (dust proof, rain proof)  Drop, shock, &amp; vibration .....Survives 2 m  <b>Communications/Connectivity</b>  Bluetooth .....4.2  Ports .....USB  Data protocols .....NTRIP, VRS, RTCM 3.2  MSM, CMRx, DCOL  Position output .....NMEA (LLH), DCO  <b>Battery and Power</b>  External power input ..... Power bank, ECT  Power Consumption ..... 2.0-2.5 W  Android Supported ..... yes  <b>Environmental</b>  Operating ambient temperature .....-20 °C to + 60 °C  Storage temperature .....-40 °C to + 70 °C  Humidity .....95% non-condensing</p> <p><b>Data Collector for GNSS</b>  Data Controller with Operating field Software  At least 2.2 GHZ Qualcomm Snapdragon 626 processor  OS: Android 8.0</p>	02				



	<p>Screen size: At least 6"</p> <p>Storage: At least 4 GB memory and 64 GB internal storage</p> <p>Camera 13MP with autofocus</p> <p>Connectivity: Wi-Fi, Bluetooth, 4.1 and 4G LTE</p> <p>Data output format: CSV, ESRI, Shape file, Jobxml , DXF, Raw data files, KMZ</p> <p>Background google map</p> <p><b>Accessories</b></p> <p>All required Slandered accessories including Power bank, Pole, Hand Strap for controller</p>					
2	<p><b>Echo Logger ECT D052S echo sounder for Drone</b></p> <p>Echo Logger ECT D052S dual-frequency echo sounder with tilt and temperature sensor.</p> <p>Includes:</p> <ul style="list-style-type: none"> <li>- harness for the drone</li> <li>- stainless steel protective housing</li> <li>- data cable with RS232 interface and connector for SkyHub onboard computer</li> </ul> <p><b>SPH Engineering hardware</b></p> <ul style="list-style-type: none"> <li>• SkyHub onboard computer hardware</li> <li>• SkyHub smart cable assembly</li> <li>• Radar altimeter for True Terrain Following</li> <li>• Protective box for SkyHub and True Terrain Following kit</li> </ul> <p><b>SPH Engineering software</b></p> <ul style="list-style-type: none"> <li>• SkyHub software package for Echo Sounder</li> <li>• UgCS EXPERT perpetual license</li> </ul> <p>With Complete operating solution.</p> <p>Or Equivalent brand that meets the technical specs</p>	01				

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