



SURVEY OF PAKISTAN **INVITATION TO E-BID (FOR GOODS)**

Survey of Pakistan a National Surveying & Mapping Agency invites Electronics bids from the Original manufacturers/authorized distributors/suppliers/contractors Service providers etc., registered with Income Tax & Sales Tax Departments for supply of following Equipments/Furniture:

Sr. #	Description of Equipment	Qty	Closing Date
1	GNSS	04	03-02-2025
2	Total Station	01	
3	Tablet	12	
4	Scanner 44"	01	
5	Plotter 44"	01	
6	Printer Colour A3 Size	02	
7	Photocopier	02	
8	Computer Core i7	10	
9	Data Storage System 100 TB Extendable	02	
10	Firewall	01	
11	SSD Portable 4TB	20	
12	Blue ray Disk Dual Layer	100	
13	Blue ray Writer	02	
14	UPS 1KVA	10	
15	UPS 3KVA	04	
16	Generator 2KVA	02	
17	Heavy Duty Stabilizer	02	
18	Lawn Mover/Grass Cutting Machine	01	
19	Hydraulic Hand Trolley	02	

2). E-Bidding documents as per regulations, containing detailed terms and conditions, Specifications & requirement etc., method of procurement, procedure for submission of bids, bid security, bid validity, opening of bid, evaluation criteria of bids, performance guarantee etc., are available for the registered bidders on E-PADS at (www.eprocure.gov.pk).

3). The electronics bids, must be submitted on or before **03-02-2025 at 10:30 hrs.** Manual bids shall not be accepted. Bids will be opened the same day at **11:00 hrs.**


(NADEEM AHMAD CH.)
Chairman Purchase Committee
Deputy Surveyor General
Survey of Pakistan



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15	UPS 3KVA	04	
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TERMS & CONDITIONS

1. Applications by registered bidders on E-PADS at (www.eprocure.gov.pk.) prescribed form submitted by using E-PAD along with technical specifications (compliance sheet) and contract, which can be examined on published documents by Survey of Pakistan, Manual bids shall not be accepted however bidder should provide a hard copy of the bid to SoP for record. E-Bids will be opened on **03-02-2025**. These will be opened at **11:00 hrs** on the same day. The rep of the firms/bidders should reach at premises of Survey of Pakistan Faizabad Murree Road Rawalpindi along with original bid security/pay order etc. before opening of e-bids on **03-02-2025**.
2. Single stage two envelope procedure of open competitive shall be adopted by using e-pads. Initially, only Technical Proposal shall be opened and evaluated by the Technical Committees on the basis of evaluation criteria. After evaluation & recommendations by the Technical Evaluation Committee concerned, Financial Proposals of only technically accepted bids will be opened. The Financial Proposals of bids found technically non-responsive shall be rejected.
3. 3% earnest money in shape of pay order/bank draft in the name of Chairman Purchase Committee, Survey of Pakistan, Rawalpindi must be reached before opening of e-bids otherwise e-bid shall be rejected at the opening stage.
4. Successful bidder(s) will be required to execute agreement governing the terms & conditions of the contract.
5. All the bidders are requested to offer the latest model. Accepted/approved model shall not be replaced at any stage even with superior model. Supplier's earnest money will be forfeited and supply order will be cancelled.
6. Procuring agency may reject any or all e-bids subject to the relevant provisions of PPRA Rules.
7. Only registered suppliers who are on Active Tax Payers List (ATL) of FBR are eligible to supply goods to the Government departments.
8. The supplier should provide proof that he is on ATL of FBR Data Base. In other case his payment would be stopped till he files his mandatory return and appears on ATL of FBR.
9. **The prices should be inclusive of all leviable taxes.**
10. Bids will be valid for 120 days from the date of opening of e-bid.
11. The bidders shall have to give demo of their offered model during Technical Evaluation for analysis as per evaluation criteria.
12. The bidders should also provide the detail price analysis of the items/accessories in their Financial Proposal alongwith unit rate with GST.
13. The method of procurement is single stage – two envelopes as per PPRA's Rule-36(b).
14. The successful bidder shall be liable to give full/justifiable training of their approved model.
15. **Quantity of items can be increased or decreased subject to availability of funds.**
16. Compliance e-sheet (attached) must be furnished duly filled in, otherwise e-bid will not be entertained.
17. Copy of CNIC must be uploaded with the e-bid.
18. For more information, please contact with Mr. Muhammad Asghar, Deputy Director (Stores) at telephone No. 051-9290227.

EVALUATION CRITERIA

Technical Evaluation Reports of the Technical Proposals will be made as per e-pad tender specifications without the reference to the price as per PPRA Rule 36 (b)(v).

Only the Financial Proposals of those bidders who's Technical Proposals have technically been recommended by Technical Evaluation Committee of the department will be opened. The bid having the lowest price will be the lowest evaluated as per PPRA Rule 36(b)(ix).

PRESCRIBED APPLICATION FORM FOR TENDERING OF PROCUREMENT OF EQUIPMENT

(To be printed on firm/supplier's letter head duly signed by the authorized representative)

The Chairman Purchase Committee,
Survey of Pakistan,
Faizabad, Rawalpindi.

In response to press advertisement dated: -01-2025 appeared in the daily
we M/s. have downloaded Tender Documents consisting of Contract
Proforma for Tendering under Purchase of stores including the detail and specifications from PPRA's website.

We have gone through all the terms and conditions contained in above mentioned documents and those, which are the part of tender.

We fully agree to abide by the terms and conditions contained in the said documents and therefore hereby submit Technical as well as Financial Proposals for the following:

**AUTHORISED SIGNATURE
NAME & SEAL OF FIRM/SUPPLIER**

1. TECHNICAL SPECIFICATIONS FOR GNSS

TECHNICAL SPECIFICATIONS FOR GNSS-RTK EQUIPMENT

GNSS Set (01 BASE & 03 ROVERS COMBINATION)

LIST OF ITEMS

1. Base receiver	01
2. Rovers' receiver	03
3. Hard Container for GNSS receiver and accessories	04
4. Rugged Controllers	04
5. Post Processing Software (Full package)	01
6. 35W external Radio + High Gain 5 DB Antenna	01
7. Tribrach with removable optical plummet	04
8. Imported heavy duty branded wooden/Fiber glass Tripods	04
9. Heavy duty branded receiver poles (2.0 m) with canvas cover / bags	04
10. Extension rods	04
11. Bipod / pole catcher	04
12. External Dry Battery	01
13. All other standard accessories with article number of same brand (i.e., batteries, chargers, set of cables, measuring taps and carrying cases etc.)	

Note: Each Base and Rover Receiver must be compatible to be used both as base and rover

SPECIFICATIONS OF BASE & ROVER RECEIVER

Positioning Accuracies

▪ Static and Fast Static	2.5mm + 0.5 ppm Horizontal 5 mm + 0.5 ppm Vertical
▪ Long Observation Static	3 mm + 0.1 ppm Horizontal 3.5 mm + 0.4 ppm Vertical
▪ Real Time Kinematic	8 mm + 1 ppm Horizontal 15mm + 1 ppm Vertical
▪ DGPS	<0.4 m RMS
▪ Standalone	1.5m 3D RMS
▪ PPP	10cm Horizontal and 20cm Vertical

Signal Tracking

- Channels: > 1000
- GPS L1 C/A, L2C, L2P L5
- BeiDou: B1, B2, B3
- BeiDou Global Signal: B1C, B2a, B2b
- GLONASS: L1 C/A, L1P, L2 C/A, L2P
- Galileo: E1, E5a, E5b, E6, E5 AltBOC,

Communications

- 1 serial Port
- USB Type C
- UHF modem: Tx/Rx with full frequency range from 410-470 MHz
- Transmit Power: 2 W Internal / 35 Watt external
- RTK Range: > 08 Km with Internal Radio in Optimal Conditions
- External Radio for Extended range > 20 Km
- Position data output rates: > 10 Hz
- Bluetooth®: V5.0 protocol, compatible with Windows OS and Android OS
- Calibration-free IMU integrated for Tilt Survey up to 60° tilt with 2.5 cm accuracy
- LED for Indication of Satellite Tracking & RTK data Corrections
- PTA approved

Data Format

- Correction data I/O RTCM 2.x, 3.x formats
CMR, CMR + (GPS Only)
Trim Talk, Satel

Environmental

- Operating temperature -40 °C to + 65 °C (-40 °F to 149 °F)
- Storage temperature -40 °C to + 85 °C (-40 °F to 185 °F)
- Humidity: 100 % non-condensing
- Water and dust IP67 protected from temporary immersion to depth of 1m
- Shock: Designed to Survive a 2 m drop onto concrete

Electric & Memory

- Li-ion battery capacity: > 20 Hrs working & > 6000 mAh
- Memory > 6 GB
- Hot Swapable: Dual batteries must be capable to interchange during operation

Rugged Field Data Controller

- Android 12.0 Operating System (Sunlight readable)
- Must be able to store Static Data with Attributes
- Google GMS Certification
- Full QWERTY with 10 key number pads, directional buttons and 4 programmable buttons
- 5" captive Touch panel Capacitive screen, support glove/wet hand
- Qualcom 8 core processor or better
- Survive from a 1.6m drop

- Water and Dust resistant IP 67 or better
- -20 C to + 60 C working temperature
- Qualcomm 8953 2.2GHz Android CPU or Better
- > 8000 mAh, working time > 22 hours with Wifi and BT On.
- ROM 64 GB, RAM 4 GB
- Camera Rear > 12 Mega pixel with auto focus
- Blue Tooth Dual Mode 5.0
- Holder for pole

Field Software

- Compatible with most of Android devices
- Easier survey workflow via Wizard function
- Support > 60° tilt compensation
- Support all survey modes, including Static, PPK and RTK
- Able to Import & Export
- Shape Files
- CAD Files
- CSV Data

Post Processing Software

- Provides the complete GPS/GLONASS/ BeiDou / GALILEO Processing Solution
- Support GNSS observation data in RINEX and Raw Binary Data formats
- Support different post-processing in static and kinematic modes
- Outputs analysis reports in various formats (web format, DXF, TXT, KML)

Field Training 1 week

- Complete Field Training on use of GNSS equipment for use in GIS and Construction Surveying
- Static Data Processing, Network Adjustment
- Field Transformation
- Construction Layout, Volume Calculation
- GIS Data upload & Download

Warranty

- One year after commission on site, defective parts/assemblies will be replaced by the bidder free of charge within warranty period

Terms & Conditions

1. Authorization letter from the original manufacturer (OEM) of the GNSS RTK sets for this tender will be considered for technical evaluation.
2. Bidder must confirm for delivery of equipment in case of export approvals required, this will be responsibility of vendor to manage delivery within delivery period as per contract.
3. OEM (Original Equipment Manufacturer) must have more than 10 years for R & D and experience of manufacturing GNSS instrument. Any sale contract / document to be provided as proof.
4. Import documents of Equipment must to be provided

5. Country of Origin Certificate of Equipment from OEM
6. Supplier must have certified Service Engineer
7. Workshop and after sale service in Pakistan must be present to ensure in time availability of spares and after sale technical support to Survey of Pakistan. E-mail, telephone, fax No. and address of workshop to be provided with technical bid for confirmation during technical evaluation.
8. The bidder must provide OEM certificate of main equipment, technical specifications, brochures and drawings of each item in schedule of requirement of quoted model in English.
9. All bidders are advised to comply strictly with the tender specifications and no deviation shall be allowed.
10. The system must be based on latest design (Hardware & Software), model and technology.
11. Before opening of financial tender, responsive bidder will be responsible for on ground practical demonstration of the quoted instruments along with all accessories in Survey of Pakistan headquarters Rawalpindi, Pakistan. The performance and quality will be technically evaluated by technical committee of Survey of Pakistan as per tender specifications.

Note:

- i. 100% compliance of each sub item of Tender Specifications as mentioned in Proforma - GNSS A-1 will be required.
- ii. If the firm qualifies 100% compliance on the basis of Proforma-GNSS A-1, the firm has to demonstrate the performance to evaluate the user interface, quality, OEM/ Authorize Agent Experience of the firm, Availability of after sale services/workshop and performance of the equipment.
- iii. On the basis of Evaluation Criteria Proforma B-1, the bidder obtaining 70 or more marks will be technically qualified.

Evaluation criteria is given in attached

- iv. Proforma GNSS A-1.
- v. Proforma B-1.

TECHNICAL EVALUATION REPORT OF GNSS RTK SYSTEM

SI #		Bidder	Bidder	Bidder	Bidder	Compliance
1	SPECIFICATIONS OF BASE & ROVER RECEIVER	Compliance	Compliance	Compliance	Compliance	
Positioning Accuracies						
a. Static and Fast Static	2.5mm + 0.5 ppm Horizontal 5 mm + 0.5 ppm Vertical	a	a	a	a	
b. Long Observation Static	3 mm + 0.1 ppm Horizontal 3.5 mm + 0.4 ppm Vertical	b	b	b	b	
c. Real Time Kinematic	8 mm + 1 ppm Horizontal 15mm + 1 ppm Vertical	c	c	c	c	
d. DGPS	<0.4 m RMS	d	d	d	d	
e. Standalone	1.5m 3D RMS	e	e	e	e	
f. PPP	10cm Horizontal and 20cm Vertical	f	f	f	f	
Signal Tracking						
a. Channels	> 1000	a	a	a	a	
b. GPS	L1 C/A, L2C, L2P L5	b	b	b	b	
c. BeiDou:	B1, B2, B3	c	c	c	c	
d. BeiDou Global Signal:	B1C, B2a, B2b	d	d	d	d	
e. GLONASS:	L1 C/A, L1P, L2 C/A, L2P	e	e	e	e	
f. Galileo:	E1, E5a, E5b, E6, E5 AltBOC,	f	f	f	f	
Communications						
a. 1 serial Port		a	a	a	a	
b. USB Type C		b	b	b	b	
c. UHF modem:	Tx/Rx with full frequency range from 410-470 MHz	c	c	c	c	
d. Transmit Power:	2 W Internal / 35 Watt external	d	d	d	d	
e. RTK Range:	> 08 Km with Internal Radio in Optimal Conditions	e	e	e	e	
f. External Radio for Extended range	> 20 Km	f	f	f	f	
g. Position data	> 10 Hz	g	g	g	g	

output rates:						
h. Bluetooth®:	V5.0 protocol, compatible with Windows OS and Android OS	h	h	h	h	
i. Calibration-free IMU integrated for Tilt Survey up to 60° tilt with 2.5 cm accuracy		i	i	i	i	
j. LED for Indication of Satellite Tracking & RTK data Corrections		j	j	j	j	
k. PTA approved		k	k	k	k	
Data Format						
a. Correction data I/O	RTCM 2.x, 3.x formats CMR, CMR + (GPS Only) Trim Talk, Satel	a	a	a	a	
Environmental						
a. Operating temperature	-40 °C to + 65 °C (-40 °F to 149 °F)	a	a	a	a	
b. Storage temperature	-40 °C to + 85 °C (-40 °F to 185 °F)	b	b	b	b	
c. Humidity:	100 % non-condensing	c	c	c	c	
d. Water and dust IP67 protected from temporary immersion to depth of 1m		d	d	d	d	
e. Shock: Designed to Survive a 2 m drop onto concrete		e	e	e	e	
Electric & Memory						
a. Li-ion battery capacity:	> 20 Hrs working & > 3000 mAh	a	a	a	a	
b. Memory	> 6 GB	b	b	b	b	
c. Hot Swapable	Dual batteries must be capable to interchange during operation	c	c	c	c	
2. Rugged Field Data Controller						
a. Android 12.0 Operating System (Sunlight readable)		a	a	a	a	
b. Must be able to store Static Data with Attributes		b	b	b	b	

c. Google GMS Certification	c	c	c	c	
d. Full QWERTY with 10 key number pads, directional buttons and 4 programmable buttons	d	d	d	d	
e. 5" captive Touch panel Capacitive screen, support glove/wet hand	e	e	e	e	
f. Qualcomm 8 core processor or better	f	f	f	f	
g. Survive from a 1.6m drop	g	g	g	g	
h. Water and Dust resistant IP 67 or better	h	h	h	h	
i. -20 C to + 60 C working temperature	i	i	i	i	
j. Qualcomm 8953 2.2GHz Android CPU or Better	j	j	j	j	
k. 8000 mAh, working time > 22 hours with Wifi and BT On.	k	k	k	k	
l. ROM 64 GB, RAM 4 GB	l	l	l	l	
m. Camera Rear > 12 Mega pixel with auto focus	m	m	m	m	
n. Blue Tooth Dual Mode 5.0	n	n	n	n	
o. Holder for pole	o	o	o	o	
Field Software					
a. Compatible with most of Android devices	a	a	a	a	
b. Easier survey workflow via Wizard function	b	b	b	b	
c. Support > 60° tilt compensation	c	c	c	c	
d. Support all survey modes, including Static, PPK and RTK	d	d	d	d	
e. Able to Import & Export	e	e	e	e	
f. Shape Files	f	f	f	f	
g. CAD Files	g	g	g	g	
h. CSV Data	h	h	h	h	
Post Processing Software					
a. Provides the complete GPS/GLONASS/ BeiDou / GALILEO Processing Solution	a	a	a	a	
b. Support GNSS observation data in RINEX and Raw Binary Data formats	b	b	b	b	
c. Support different post-processing in static and kinematic modes	c	c	c	c	
d. Outputs analysis reports in various formats (web	d	d	d	d	

format, DXF, TXT, KML)					
Field Training 1 week					
a. Complete Field Training on use of GNSS equipment for use in GIS and Construction Surveying	a	a	a	a	
b. Static Data Processing, Network Adjustment	b	b	b	b	
c. Field Transformation	c	c	c	c	
d. Construction Layout, Volume Calculation	d	d	d	d	
e. GIS Data upload & Download	e	e	e	e	

Evaluation Criteria Proforma GNSS B/1

PROFORMA FOR TECHNICAL EVALUATION OF GNSS ON PHYSICAL INSPECTION AND FIELD DEMONSTRATION

Bidder/Equipment/Brand	General (25 Marks)		OEM Experience (Max 10 Marks)	After sale services/ Workshop (20 Marks)			Performance (45 Marks)					Total (100 Marks)	Compliance/ Bidder Response				
	User Interface (5 Marks)	Connectivity with Receiver (5 Marks)		Build Quality & Specs of receiver/controller (Rugged/Non-Rugged) (10 Marks)	Quality Standards of Accessories (5 Marks)	More than 10 Years Experience (10 Marks)	Within Pakistan (10 Marks) Outside Pakistan (5 Marks)	Qualified staff (5 Marks)	Repairing Lab (5 Marks)	H&V Accuracy Static DGNSS, IMU tilt Test (10 Marks)	RTK DGNSS (10 Marks)			Layout (5 Marks)	Radio Connectivity/Range/Coverage (5 Marks)	Processing Software (15 Marks)	
Bidder/Equipment/Brand (1)																	
Bidder/Equipment/Brand (2)																	

Note:

The document enlists all requirements in left columns. The bidder shall provide his consent in the rightmost column. The response should be explicit in well-defined specification offered for the components against each row. Any ambiguous and implicit words or quotations (such as **yes, ok, offered, available and provided etc.**) shall be treated as “non-responsive”.

2. TECHNICAL SPECIFICATIONS FOR TOTAL STATION 5”

TENDER SPECIFICATIONS

On Board Operating System

Operating system	Linux/ Windows
Display	Graphic LCD,
Keyboard	Alphanumeric keyboard / 28 keys with backlight
Memory	> 40,000 points USB flash memory (max. 32GB)
Interfaces’	Serial RS-232C, USB2.0 (Type A for USB flash memory)
EGL Light	For easy stake out

Telescope

Magnification	30x
Resolving power	2.5" Erect Image, Field of view: 1°30' (26m/1,000m), Minimum focus: 1.3m (4.3ft.) Reticle illumination

Angle Measurement

Minimum Display (selectable)	1"/5"
Accuracy	5 second
Dual-axis compensator	Dual-axis liquid tilt sensor, working range: ±6'

Distance Measurement

Laser Type	Reflectorless Class 3R. Prism/sheet class 1
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Measuring Standard

RL Range	0.3 to 1000m (Optimal Condition)
RL Accuracy	(2 + 2ppm x D) mm

Sheet Accuracy	(2 + 2ppm x D) mm
Prism Accuracy	(1.5 + 2ppm x D) mm
Trigger Key	Right Side for easy operation

Standard

Laser-pointer	Coaxial red laser using EDM beam
Levels Graphical	6' (Inner Circle)
Circular level (on tribrach)	10' / 2mm
Plummet	Laser

Environmental & Power

Dust and water protection	IP66 (IEC 60529:2001)
Operating Temperature	-20 to +60°C (-4 to +140°F)
Battery Li-ion rechargeable battery	Li-ion rechargeable battery > 7 V, 5000 mAH or better
Operation Time	Approx. 14hours

Application for Survey

Standard	<ul style="list-style-type: none"> • REM Measurement • 3D Coordinate Measurement • Resection • Stake Out • Topography Observation • Offset Measurement • Missing Line Measurement • Intersection • Surface Area Calculation • Route Surveying • Point to Line
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Accessories

a. Original/ Branded Accessories with strong carrying case	
b. Rechargeable Batteries	02
c. Dual Battery charger	01
d. CD containing instruction manual	01
e. Prism with target plate	02
f. Prism Pole	2.6 meter with covering bag
g. Display	02
h. Detachable tribrach	01

i. lens cover set	01
j. cleaning brush	01
k. cover of durable plastic	
l. Shock absorbing carrying case with shoulder strap etc in complete	
m. Heavy duty wooden tripod/Fibre glass	01
n. Bipod/Catcher for prism pole Aluminium	02
o. Compass detachable tool	01
p. Canvas Covers / Bags Bipod	For Total Station Box, Tripod, Prism, Prism pole,

TRAINING

Training for operation and preventive maintenance of equipment (Hardware and software) for 01 weeks free of charge.

WARRANTY

One year after commission on site, defective parts/assemblies will be replaced by the bidder free of charge within warranty period. After sales & services guaranty of 02 years.

Terms & Conditions

1. Bid from the original manufacturer (OEM) or his Authorize Agent of the Total Station will be considered for technical evaluation.
2. OEM (Original Equipment Manufacturer) must have more than 20 years for R & D and experience of manufacturing Total Station instrument. Any sale contract / document to be provided as proof.
3. Authorisation Letter from OEM is required.
4. Import documents of Equipment are must to be provided.
5. Country of Origin Certificate of Equipment from OEM.
6. Supplier must have certified Service Engineer.
7. Workshop and after sale service in Pakistan must be present to ensure in time availability of spares and after sale technical support to Survey of Pakistan. E-mail, telephone, fax No. and address of workshop to be provided with technical bid for confirmation during technical evaluation.
8. The bidder must provide OEM certificate of main equipment, technical specifications, brochures and drawings of each item in schedule of requirement of quoted model in English.

9. All bidders are advised to comply strictly with the tender specifications and no deviation shall be allowed.
10. The system must be based on latest design (Hardware & Software), model and technology.
11. Before opening of financial tender, responsive bidder will be responsible for on ground practical demonstration of the quoted instruments along with all accessories in Survey of Pakistan headquarter Rawalpindi, Pakistan. The performance and quality will be technically evaluated by technical committee of SOP as per tender specifications.
12. Evaluation criteria for Technical Evaluation of Total Station Level is based on
 - 100% compliance of each sub-item of Tender Specifications as mentioned in Proforma-A-2 will be required.
 - If the firm qualifies 100% compliance on the basis of Proforma A-2, the firm has to demonstrate the performance to evaluate the user interface, quality, OEM/ authorized Agent Experience of the firm. Availability of after sale services /workshop and performance of the equipment.
 - On the basis of Proforma B-2 the bidder obtaining 70 or more marks will be technically qualified.

Note:

Evaluation criteria is given in attached

- I. **Proforma A-2.**
- II. **Proforma B-2.**

Proforma Total Station A-2

TECHNICAL EVALUATION REPORT OF TOTAL STATION

SI #		Bidder	Bidder	Bidder	Bidder	Compliance
1	SPECIFICATIONS OF BASE & ROVER RECEIVER	Compliance	Compliance	Compliance	Compliance	
On Board Operating System						
a.	Operating system	Linux/ Windows/ Android	a	a	a	a
b.	Display	Graphic LCD,	b	b	b	b
c.	Keyboard	Alphanumeric keyboard / 28 keys with backlight	c	c	c	c
d.	Memory	> 40,000 points i. USB flash memory (max. 32GB)	d	d	d	d
e.	Interfaces'	Serial RS-232C, USB2.0 (Type A for USB flash memory)	e	e	e	e

f. EGL Light	For easy stake out	f	f	f	f	
Telescope						
a. Magnification	30x	a	a	a	a	
b. Resolving power	2.5" Erect Image, Field of view: 1°30' (26m/1,000m), Minimum focus: 1.3m (4.3ft.) Reticle illumination	b	b	b	b	
Angle Measurement						
a. Minimum Display (selectable)	1"/5"	a	a	a	a	
b. Accuracy	5 second	b	b	b	b	
c. Dual-axis compensator	Dual-axis liquid tilt sensor, working range: ±6'	c	c	c	c	
2. Distance Measurement						
a. Laser Type	Reflectorless Class 3R. Prism/sheet class 1	a	a	a	a	
b. RL Range	0.3 to 1000m (Optimal Condition)	b	b	b	b	
c. RL Accuracy	(2 + 2ppm x D) mm	c	c	c	c	
d. Sheet Accuracy	(2 + 2ppm x D) mm	d	d	d	d	
e. Prism Accuracy	(1.5 + 2ppm x D) mm	e	e	e	e	
f. Trigger Key	Right Side for easy operation	f	f	f	f	
Standard						
a. Laser-pointer	Coaxial red laser using EDM beam	a	a	a	a	
b. Levels Graphical	6' (Inner Circle)	b	b	b	b	
c. Circular level (on tribrach)	10' / 2mm	c	c	c	c	
d. Plummet	Laser	d	d	d	d	
Environmental & Power						
a. Dust and water protection	IP66 (IEC 60529:2001)	a	a	a	a	
b. Operating Temperature	-20 to +60°C (-4 to +140°F)	b	b	b	b	
c. Battery Li-ion rechargeable battery	Li-ion rechargeable battery > 7 V, 5000 mAH or better	c	c	c	c	
d. Operation Time	Approx. 14hours	d	d	d	d	
Application of Survey						
a. Standard	• REM Measurement • 3D Coordinate Measurement • Resection • Stake Out •	a	a	a	a	

	Topography Observation • Offset Measurement • Missing Line Measurement • Intersection • Surface Area Calculation • Route Surveying • Point to Line					
Accessories						
a. Original/ Branded Accessories with strong carrying case		a	a	a	a	
b. Rechargeable Batteries	2	b	b	b	b	
c. Dual Battery charger	1	c	c	c	c	
d. CD containing instruction manual	1	d	d	d	d	
e. Prism with target plate	2	e	e	e	e	
f. Prism Pole	2.6 meter with the covering bag	f	f	f	f	
g. Display	2	g	g	g	g	
h. Detachable tribrach	1	h	h	h	h	
i. lens cover set	1					
j. cleaning brush	1					
k. cover of durable plastic						
l. Shock absorbing carrying case with shoulder strap etc in complete						
m. Heavy duty wooden tripod/Fibre glass	1					
n. Bipod/Catcher for prism pole Aluminium	2					
o. Compass detachable tool	1					
p. Canvas Covers / Bags	For Total Station Box, Tripod, Prism, Prism pole, Bipod					
TRAINING						
a. Training for operation and preventive maintenance of equipment (Hardware and software) for 0 weeks free of charge.		a	a	a	a	
WARRANTY						
a. One year after commission on site, defective parts/assemblies will be replaced by the bidder free of charge within warranty period. After sales & services guaranty of 02 years.		a	a	a	a	

Evaluation Criteria Proforma Total Station B/2

PERFORMA FOR TECHNICAL EVALUATION OF TOTAL STATION ON PHYSICAL INSPECTION AND FIELD DEMONSTRATION

Bidder/Equipment/Brand	General (20 Marks)			OEM Experience (10 Marks)	After sale services/ Workshop (20 Marks)			Performance (50 Marks)					Total (100 Marks)	Compliance / Bidder Response	
	User Interface (5 Marks)	Build Quality (Rugged/Non-Rugged) (5 Marks)	Quality Standards of Accessories (10 Marks)	More than 20 years Experience (10 Marks)	Within Pakistan (10 Marks) Outside Pakistan (5 Marks)	Qualified staff (5 Marks)	Repairing Lab (5 Marks)	Range with Prism (5 Marks)	Range With Laser (5 Marks)	Stakeout (5 Marks)	H & V Accuracy (10 Marks)	Observation Time (10 Marks)	Processing Software (15 Marks)		Score
													User Interface (5 Marks)	Downloading & Processing (10 Marks)	
Bidder/Equipment/Brand (1)															
Bidder/ Equipment/ Brand (2)															

Note:

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3. TECHNICAL SPECIFICATIONS FOR TABLET (GIS Data Collection Android Tablet with High Precision GNSS)

SI #	Functions / Peripherals	Specifications	Compliance/ Bidder Response
1.	Brand	Tablets DELL/HP/ or equivalent	
2.	CPU	Qualcomm SDM4350 2.0GHz	
3.	OS	Android 12	
4.	ROM	128 GB	
5.	RAM	6 GB	
6.	Battery Duration	14 Hours +	
7.	Battery	8000mAH	
8.	Camera R/F	13 MP/ 5 MP	
9.	Memory Card	Trans Flash	
10.	LCD	8" HD 1280*800 500Ntis Sunlight Readable	
11.	Touch Panel	Captive Screen, support glove/wet hand	
12.	Weight	700 g	
13.	Keypad	Power Volume, F1, F2, Home, Menu, Return	
14.	Bluetooth	BT 4.2	
15.	USB	Type C	
16.	Environmental	Operating: -20°C to +60°C (-4°F to +140°F) Storage: -40°C to +70°C (-40°F to +158°F	
17.	Water & Dust	IP67 (according to IEC 60529) for water and dust resistance, protected against temporary immersion at a depth of up to 1 m.	
18.	Humidity	95% no condensation	
19.	Drop Test	1.2 m fall onto concrete	
20.	Support for GIS Data Collection Software	Supports GIS Data Collection software.	
21.	High Precise GNSS Antenna Constellations	BDS: B1I, B2I, B3I, B1C, B2a, B2b GPS: L1C/A, L1C, L2P (Y), L2C, L5 GLONASS: L1, L2 Galileo: E1, E5a, E5b, E6* QZSS: L1, L2, L5, L6*	
22.	Standalone Accuracy	< 2 m	
23.	Internal sensors	NFC; G-Sensor; Light Sensor; E-Compass; Gyroscope	
Software Specification			
1.	Data Collection	Offline and online geospatial data collection. Real-time GPS integration for accurate positioning. Support for custom forms and attributes for streamlined data entry.	

2.	Data Editing	Capability to edit vector layers (points, lines, polygons). Attribute editing with support for dropdowns, checkboxes, and custom input fields. Geometry snapping and advanced digitizing tools.	
3.	Data Visualization	Dynamic rendering of maps with support for symbology from QGIS projects. Layer filtering and classification for better focus. Base map support (e.g., OpenStreetMap, satellite imagery).	
4.	Integration with Office Software:	Direct compatibility with office software project files (.qgz and .qgs). Easy data synchronization between Field and Office Software. Export and import of collected data in standard GIS formats (e.g., GeoPackage,	
5.	Customization	Configurable user interfaces tailored to specific workflows.	
6.	Offline Functionality	Support for offline maps and data storage. Sync capabilities for uploading collected data once back online.	
7.	Collaboration	Multi-user support for collaborative fieldwork. Cloud synchronization options with third-party services (e.g., Nextcloud, Dropbox)	
8.	Supported File Formats	Vector: GeoPackage, shapefiles, GeoJSON, KML. Raster: GeoTIFF, JPEG, PNG. Others: CSV, SQLite.	
9.	Coordinate Systems	Support for multiple coordinate reference systems (CRS), including on-the-fly reprojection.	
10.	Database Integration	Direct integration with PostGIS, SpatiaLite, and other spatial databases. Synchronization of data to remote databases.	
11.	GPS Integration	Supports NMEA protocol and high-accuracy GNSS devices. Configurable GPS settings (accuracy thresholds, logging intervals).	
12.	User Interface	Intuitive touch-optimized interface. Multilingual support	

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4. TECHNICAL SPECIFICATIONS FOR SCANNER 44"

Sr.	Peripherals/Functions	Specifications	Compliance/ Bidder Response
1.	Brand	HP/Contex/Vidar or equivalent	
2.	Enhanced resolution	9600 dpi to 1200 dpi	
3.	Optical resolution	1200 x 1200 dpi	
4.	Document Thickness	max. 2.5 mm (0.1 inch) or more	
5.	Imaging technology	CIS (Contact image sensor) scanning technology	
6.	Accuracy	± 0.1% ± 1 pixel	
7.	Scan Speed Color	200 dpi - 7.5 inch/s or better	
8.	Scan Speed BW	200 dpi - 15 inch/s or better	
9.	Data capture(color/mono)	48-bit/16-bit grayscale	
10.	Maximum scan width	44 in	
11.	Paper Path	Face up, Front Entry, Front or rear exit	
12.	Scan direction	± 0.08% across 48-inch scanning width	
13.	Supported file formats	PDF, TIFF, JPEG, JPEG2000, DWF, multi-page PDF generation	
14.	Scan to	File, email, USB, HDD, network folder, FTP, print	
15.	Settings	Type of original-preset, color mode, resolution (dpi), batch, single/multi-page, file format, customizable file naming, customizable default settings, image crop and align preview, enlarge/reduce, blueprint, lightness, saturation and RGB controls, white point and black point adjust, sharpen/blur, background removal, invert, mirror, accounting	
16.	Copier specific settings	Print mode, for the printer output destination	
17.	Maximum scan size ⁷	0.91 x 26 m (36 x 1204 in); 0.6 x 37.9 m (24 x 1491 in); 0.3 x 75.8 m (12 x 2991 in)	
18.	Batch	Available with scan and copy	
19.	Preview	Scan, copy, and print after previewing the original in the advanced touch screen controller	
20.	Size detection	Automatic length and width detection.	
21.	Applications Media	GIS maps, Line drawings, other Maps, Office Graphics, Posters, Presentations	
22.	Handling	Straight-through scan paper path for sheet and cardboard originals. Face-up, front entry, rear exit, rewind to front, use document return guide for front-return	

23.	Types	Non-abrasive paper, sepia, blueprints, plastic, plastic laminate, foam board, cardboard, newspaper	
24.	Integrated /attached computer system	Computer system integrated or attached	
25.	Processor	Intel Core i7 or latest	
26.	Memory	4 GB memory, 512SSD hard disk or more	
27.	Connectivity	Dual Gigabit Ethernet(1000 Base-T), Hi-Speed USB 3.0 certified	
28.	Windows and Drivers	Windows 10 version or compatible with drivers	
29.	Integrated User Interface	15.6-inch (396-mm) large touch screen to preview and enhance images	
30.	Scanning Software	Scanning software compatible with Windows 10 or as above	
31.	Calibration Sheet & Software	Calibration Sheet along with calibration software	
32.	Stand	Standard brand-specific Stand	
33.	Power Requirements	Input voltage: 220-240 Pakistan Compatible	
34.	Product Roadmap	At least 5-8 years for repair, replacement, and maintenance	
35.	Operational Training	Complete onsite training	
36.	Warranty	01 Year on-site comprehensive	
37.	Dealership	Authorized Dealership Gold / Higher with a manufactural authorization letter	

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5. TECHNICAL SPECIFICATIONS FOR PLOTTER 44"

SI #	Functions / Peripherals	Specifications	Compliance/ Bidder Response
1.	Brand	HP or equivalent	
2.	Model size	1118mm	
3.	Print speed	180 A1/hr, 19.3 sec/A11	
4.	Print resolution	Up to 2400 x 1200 optimized dpi	
5.	Printhead/Nozzles	2112 each color	
6.	Technology	Thermal Inkjet	
7.	Ink types	Dye-based (C, M, Y, pK, G); Pigment-based (mK)	
8.	Ink Droplet Size	6pl or less	
9.	Print heads	3 universal printheads, 2 colors each	
10.	Line accuracy	±0.1% or less	
11.	Minimum line width	0.02 mm (PDF addressable at 1200 dpi);	
12.	Handling	Single-roll: Sheet feed, roll feed, automatic horizontal cutter dual-roll: manual sheet feed, two automatic roll feeds, automatic roll-switching, media bin, automatic horizontal cutter	
13.	Standard sheets	A4, A3, A2, A1, A0	
14.	E-print Capability	Yes	
15.	Media Roll Outer	170 mm	
16.	Grammage	60 to 328 g/m ²	
17.	Thickness	Up to 0.8 mm	
18.	memory	128GB or more	
19.	Hard disk	512 GB self-encrypting	
20.	Media Type	Bond And coated paper (bond, coated, heavy weight coated, super heavy weight plus matte) Technical Paper(natural tracing, translucent bond) film(clear comma matte), photographic paper(satin, gloss, semi-gloss, matte, high gloss), backlit, self-adhesive(polypropylene, vinyl), blueprint	
21.	Interfaces	Gigabit Ethernet (10/100/1000Base-T), supporting the following standards: TCP/IP, Boot IP/DHCP (IPv4 only), DHCPv6, TFTP (IPv4 only), SNMP (v1, v2c, v3), Apple Bonjour Compatible, WS Discovery, line printing daemon, Inter printing protocol, NTLM v2, SMBv3, authentication (LEAP, PEAP, EAP-TLS), andwifi.	
22.	Print languages	PostScript Printer: Adobe PostScript 3,	

	(standard)	Adobe PDF 1.7, TIFF, JPEG, DWG, CALS G4; Non-PostScript Printer, TIFF, JPEG, CALS G4	
23.	Print languages (optional)	Non-PostScript Printer: Adobe PostScript 3, Adobe PDF 1.7	
24.	Printing paths	Direct printing from USB flash drive, print from network shared folder, email printing, driver for latest Windows,	
25.	A0 size drawing print	37 sec or better	
26.	Non-Printable Area(cut-Sheet)	3x17x3x3mm or lesser	
27.	Drivers	PostScript Printer: Raster, PostScript and PDF drivers for Windows 10 or latest, Non-PostScript Printer: Raster drivers for Windows 10 or later,	
28.	Environmental	ENERGY STAR, ErP, WEEE, RoHS (EU), REACH, EPEAT	
29.	Power Consumption	<100W(printing), <24W(Ready), <0.3W(Sleep) Power cable Round Pin Pakistan compatible	
30.	Warranty	One-year hardware warranty.	
31.	Dealership	Authorized Dealership Gold / Higher with a manufactural authorization letter	
32.	Cartridges	One set of extra cartridges	

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6. TECHNICAL SPECIFICATIONS FOR PRINTER COLOUR A3 SIZE

Sr.	Peripherals/Functions	Specifications	Compliance/ Bidder Response
1.	Brand	HP or equivalent	
2.	Size	A-3	
3.	Print speed - Color (normal)	40 ppm or better	
4.	First page out (ready) color	As fast as 6.1 sec	
5.	Resolution (color)	Up to 1200 x 1200 dpi	
6.	Resolution technology	ImageRet 4800, Enhanced (600x600 dpi), Fine Lines (1200x1200 dpi), Quickview (300x300 dpi)	
7.	Print Technology	Laser	
8.	Display	2.7-in (6.86 cm) QVGA LCD (color graphics) rotating (adjustable angle) display with 24-key pad or better	
9.	Processor speed	1.2 GHz or higher	
10.	Paper Sensor	Automatic	
11.	Paper trays, standard	2	
12.	Connectivity	1 Hi-Speed Device USB 2.0; 2 Hi-Speed USB 2.0 rear host ports; 1 walkup USB 2.0 host port; 1 Gigabit/Fast Ethernet 10/100/1000 Base-TX network port; 1 Hardware Integration Pocket 2nd generation or better. Jetdirect 3100w BLE/NFC/Wireless Accessory 3JN69A, (Dual band Wireless Station and Wi-Fi Direct functionality); Jetdirect 2900nw Print Server J8031A (Dual band Wireless Station)	
13.	Compatible operating systems	Windows 11; Windows 10; Windows 8; Windows 8.1; Windows 7; Windows Client OS; Android; iOS; Mobile OS;	
14.	Memory	1.5 or Higher	
15.	Hard disk	512 GB HDD: Secure High Performance Hard Disk drive 500 GB B5L29A; FIPS-140-2 Secure Hard Disk Drive 5EL03A	
16.	Paper handling input	100-sheet multipurpose tray, 550-sheet input tray	
17.	Paper handling output	250-sheet output bin	
18.	Duplex printing	Automatic (standard)	

19.	Finished output handling	Sheetfed	
20.	Media sizes supported	100-sheet multipurpose Tray 1: Statement, 3 x 5 index card, 4 x 6 index card, 5 x 7 index card, 5 x 8 index card, Letter, Letter-R, Legal, Executive, 11 x 17 in; 8.5 x 13, 12 x 18, Envelopes: #9, #10, Monarch; 550-sheet input Tray 2: Letter, Letter-R, Legal, Executive, 8.5 x 13, 11 x 17 in; Optional 1x550 and 2x550 tray and stand: Letter, Letter-R, Legal, Executive, 8.5 x 13, 11 x 17 in, 12 x 18; Optional 2700-sheet HCI paper tray and stand: Letter	
21.	Media sizes, custom	100 -sheet multipurpose Tray 1: 2.5 x 5 to 12.6 x 18 in; 550-sheet input Tray 2: 5.8 x 5.8 to 11.7 x 17 in; Optional 1x550 and 2x550 tray and stand: 5.8 x 5.8 to 12.6 x 18 in; Optional 2700-sheet HCI paper tray and stand: 11 x 8.27 to 11.7 x 8.5 in	
22.	Media types	Paper (plain, heavy, extra heavy, glossy, light, recycle, tough), envelopes, labels, glossy film, cardstock, transparencies	
23.	Power	Input voltage: 220-240 V nominal (+/-10%), 50 - 60 Hz nominal (+/- 3 Hz), 6 A	
24.	Power consumption	870 watts (max. printing), 850 watts (typical printing) 48 watts (Ready), 0.6 watts (Sleep), 0.6 watts (Auto-Off/Auto On), 0.08 watts (Auto-Off), 0.08 watts (Off)	
25.	Energy efficiency	CECP; Blue Angel; EPEAT® Silver registered; ENERGY STAR® certified	
26.	Operating temperature range	50 to 90.5°F	
27.	Support Services	1-year Pro Support with Next Business Day on-site service	
28.	Dealership	Authorized dealership certificate	

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7. TECHNICAL SPECIFICATIONS FOR PHOTOCOPIER

Sr.	Functions / Peripherals	Specifications	Compliance/ Bidder Response
1.	Brand	Toshiba/Cannon/Panasonic/Konica or equivalent	
2.	Type	Digital Copier	
3.	Function	Copy, Scan, Network print/Scan	
4.	Control Panel	6-7 inch TFT LCD WVGA Colour Touch panel	
5.	Power Supply	230 V +/- 10%, 50 Hz	
6.	Memory	4GB or above	
7.	Hard Disk Drive	320GB or above Self-Encrypting Drive FIPS 140-2 Validated or above	
8.	Warm Up-Time	Within 10 sec. Low Power Recovery	
9.	First page out	Less than 4 Seconds or below	
10.	Print Speed	25-30 ppm or above	
11.	Copying Speed	40-45 ppm	
12.	Direct Print	PDF, EPS, TIFF/JPEG, etc.	
13.	Paper size	A3, A4, A5, letter, legal, executive, letter-R	
14.	Maximum paper capacity	> 4000	
15.	Multiple Copies	Up to 999	
16.	Exposure Control	Both manual and automatic	
17.	Double exposure	Built-in	
18.	Duplex Capacity/Size	Unlimited	
19.	Duplexing	Standard automatic trayless duplexing	
20.	Resolution	Approx. 3600 x 1200 dpi or above	
21.	Magnification (reduction & Enlargement)	25 % to 400%	
22.	Document Handler/ Double Side Printing	Duplex Automatic, Document Feeder	
23.	Document Feeding method	100-sheet Duplexing Automatic	
24.	Scan Resolution	Minimum 600dpi Colour Scanning Built-in	
25.	Copy Resolution	1200x600dpi (interpolated) or above	
26.	Print Resolution	1200x1200dpi or above	
27.	Scan Speed	Minimum 0.7 seconds per page	
28.	Transmission Speed	Approx. 3 seconds per page	

29.	Interface	RJ-45 Ethernet (10/100/1000 Base-T), USB 3.0 (High-Speed),	
30.	Operation Method	Touch Screen Control Panel(Colour)	
31.	Accessibility Features	Tilt Front Panel, Job Programs, Universal Grip for Paper Trays, Disable Screen Timeout and Audible Beep Message Alerts	
32.	Input Capacity:	1140 sheets 2 x 520 and 50 sheets bypass (equivalent or better)	
33.	Output capacity	520 sheets center tray and 100 bypass trays (equivalent or better)	
34.	Repeat image	yes	
35.	Technology	Customer Replacement Unit (CRU), drum, Toner, Fuzer etc.	
36.	Trolley	brand Specific	
37.	Warranty	01 Year Comprehensive with Parts & service on-site	
38.	Accessories	Suitable Stand if the height of the machine is not enough to operate the machine	
39.	Delivery, Installation & training	Bidder to deliver and install at destination on its own arrangements and will give operational troubleshooting training	
40.	Spare parts availability	Availability of spare parts and after-sales services for at least 10 years after the delivery of the machine.	
41.	Dealership	Authorized dealership certificate	

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8. TECHNICAL SPECIFICATIONS FOR COMPUTER CORE i7

Sr.	Peripherals/Functions	Specifications	Compliance/ Bidder Response
1.	Brand	DELL/HP/Acer/equivalent	
2.	Processor	12th Generation Intel® Core™ i7 or Higher	
3.	Hard Drive	M.2 2230, 256 GB, PCIeNVMe Gen3 x4, SSD, Class 35 & 2 TB, 7200 RPM, SATA, HDD	
4.	Memory	16 GB, 2 x 8 GB, DDR4, 3200 MT/s, dual-channel	
5.	Ports	Front: USB 3.2 Gen 2x2 Type-C® port universal audio jack Rear: USB 3.2 Gen DisplayPorts 1.4 ports re-tasking line-out/line-in audio port RJ45 Ethernet port video port (HDMI 2.0b/DisplayPort 1.4/VGA/USB 3.2 Gen 2 Type-C® port with DisplayPort Alt Mode)	
6.	Optical Drive	8x DVD±R, Slim line 9.5 mm	
7.	Slots	Gen 4 PCIe x16 slot Gen 3 PCIe x4 slot M.2 2230 slot for WiFi and Bluetooth card M.2 2230/2280 slots for SSD SATA 3.0 slots for 3.5/2.5-inch HDD, and slim	
8.	Power	Internal power supply unit (PSU), 92% Efficient, 80 Plus Platinum	
9.	Mouse & Keyboard	Standard USB port Keyboard & Mouse	
10.	LED	Ultra Sharp 24-Inch LED Backlit, Anti-Glare, Display Port, VGA, HDMI and USB, 2048x1080 or above	
11.	OS	Windows 11 Pro licensed	
12.	Support Services	1-year Support with Next Business Day on-site service	
13.	Dealership	Authorized Dealership with OEM certification	

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**9. TECHNICAL SPECIFICATIONS FOR DATA STORAGE SYSTEM 100 TB
EXTENDABLE**

**Technical Specification of DATA Storage-1
Expansion of Dell EMC Unity 400 / Up gradation**

Sr.	Peripherals/Functions	Specifications	Compliance/ Bidder Response
1.	Brand	DELL or equivalent	
2.	Dell EMC Unity 400 (SN: CKM00182400967)	100 TB usable storage expansion (NL-SAS) along with DAE with a 3-year official warranty & KYHD for enterprise service	
3.	Responsibilities	The bidder will be responsible for installing and configuring the new drives to expand the existing Dell Unity 400 Storage and performing all necessary integrations with the SOP existing equipment as per SOP requirements.	
4.	Delivery Time	4 to 6 Weeks or earlier	

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DATA Storage-2 (100 TB Useable) Storage Box

Sr.	Peripherals/Functions	Specifications	Compliance/ Bidder Response
1.	Brand	DELL/HP/Huawei/IBM/equivalent	
2.	Capacity	100 TB or above (Useable)	
3.	Connector	Thunderbolt 3, USB-C	
4.	Sequential Read Performance	(In default RAID 5) - Up to 700MB/s	
5.	Sequential Write Performance	(In default RAID 5) - Up to 850MB/s	
6.	Interface	USB 3.2 Thunderbolt 3	
7.	Disk Speed (RPM)	7200 RPM	
8.	Product Features	Optimized multi-stream workflows Daisy-chaining for up to 5 additional devices Built-in hardware RAID	
9.	Compatibility	Windows 10 or above	
10.	Warranty	5-Year Limited Warranty	
Note: During technical evaluation bidder will have to give demo of equipment			

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10. TECHNICAL SPECIFICATIONS FOR FIREWALL

Sr.	Peripherals/Functions	Specifications	Compliance/ Bidder Response
1.	Brand	Fortinet/Huawei/Cisco/Equivalent	
2.	Basic Firewall	The appliance based security platform should be a stateful NGFW, Next-Generation IPS, malware protection, URL protection, providing firewall, application visibility, and IPS functionality in a single appliance.	
3.	Hardware architecture	8xGE COMBO + 4xGE RJ45 + 4xGE SFP + 6x10GE SFP+	
		Single AC power supply; optional dual AC power supplies	
		Optional, SATA (1x2.5 inch) supported, 240 GB/ 1TB	
4.	Performance requirements	Layer 3 throughput ≥ 25Gbps;	
		concurrent connections per second ≥ 10,000,000; new connections per second ≥ 250,000;	
		IPSec VPN throughput (AES-256, 1420 byte) ≥ 25 Gbps	
		Application controlling and IPS throughput ≥ 10 Gbps;	
5.	Routing	Supports static routes, policy-based routing, and routing protocols such as RIP, OSPF, BGP, and IS-IS;	
		Policy-based routing supports the following matching conditions: source IP address, destination IP address, service type, application type, user/user group/security group, inbound interface, and DSCP priority.	
6.	Intelligent uplink selection	Supports service-specific PBR and intelligent uplink selection based on multiple load balancing algorithms (for example, based on bandwidth ratio and link health status) in multi-egress scenarios.	
7.	NAT	Supports full NAT functions and NAT ALG for multiple application-layer protocols, including ILS, DNS, PPTP, SIP, FTP, ICQ, RTSP, MSN, and MMS.	

		Supports Source NAT automatic detection and exclusion of invalid addresses in NAT address pools.	
		Firewall should support NAT444, NAT66 (IPv6-to-IPv6) , Nat46 (IPv4-to-IPv6) and DS-Lite NAT	
8.	Traffic control	Supports application-layer protocol-based traffic control policies, including setting the maximum bandwidth, guaranteed bandwidth, and protocol traffic priority.	
		Supports bandwidth guarantee based on users and IP addresses. Supports maximum number of connections per IP address.	
9.	Intrusion prevention and antivirus	Supports attack detection and prevention based on over 7000 local signatures.	
		Supports the customization of intrusion prevention policy templates based on scenarios.	
		Supports brute-force cracking prevention for common application services (HTTP, FTP, SSH, SMTP, and IMAP) and database software (MySQL, Oracle, and MSSQL).	
		Supports malicious domain name-based filtering to block C&C.	
		Supports antivirus for protocols such as HTTP, FTP, SMTP, POP3, IMAP, and NFS.	
10.	URL filtering	Provides a URL category database with over 120 million URLs and accelerates access to specific categories of websites, improving access experience of high-priority websites. Supports DNS filtering, in which accessed web pages are filtered based on domain names. Supports the SafeSearch function to filter resources of search engines, such as Google, to guarantee access to only healthy network resources.	
11.	DDoS defense	Supports application-layer flood attacks such as HTTP, HTTPS, DNS, and SIP, supports traffic auto-learning, the setting of the auto-learning time, and automatic generation of anti-DDoS policies.	
12.	Policy & Management	Allows users to configure security policies based on time, application-layer protocol, geographical location, IP address, port, domain name group, URL category, access type, vlanID and content security.	
13.	Network access user authentication	Supports multiple user authentication methods, including local, RADIUS, HWTACACS, AD, and LDAP.	

14.	License	Provides the related Full threats protection License of 03 Years	
15.	Reliability	Supports BFD link detection and association of BFD and VRRP/OSPF to implement rapid active/standby switchover.	
		It supports the smooth upgrade of HA(Active/Active or Active/Standby) Mode. Different versions of software can be used for hot standby.	
16.	Product certification	Has been listed as Leader or Challenger in Gartner Magic Quadrant;	
17.	Warranty Service	3 years of licenses and hardware support should be a part of the proposal	
18.	Installation, configuration and training of staff	The firm will be responsible for the installation, configuration, troubleshooting, and comprehensive training of staff on site	

Note:

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11. TECHNICAL SPECIFICATIONS FOR SSD PORTABLE 4TB

Sr.	Peripherals/Functions	Specifications	Compliance/ Bidder Response
1.	Brand	Transcend/SanDisk/WD/Samsung or equivalent	
2.	Features	1. Fast NVMe solid state performance in a portable, high-capacity drive 2. Drop protection, IP65 water and dust resistance, X-ray and shock proofing	
3.	Capacity	4 TB	
4.	Connector	USB, Type-C	
5.	Compatibility	Compatible laptop or desktop	
6.	Sequential Read Performance	1050MB/s	
7.	Sequential Write Performance	1000MB/s	
8.	Interface	USB 3.2 Gen 2 or above	
9.	Warranty	05 years replacement warranty but faulty HD will be returned	
10.	Dealership	Authorized Dealership with OEM certification	

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12. TECHNICAL SPECIFICATIONS FOR BLUE RAY DISK DUAL LAYER

Sr.	Peripherals/Functions	Specifications	Compliance/ Bidder Response
1.	Brand	WD/Verbatim/Sony/ equivalent	
2.	Capacity	Dual-layer : 50 GB or better	
3.	Speed	12x	
4.	Data transfer rate	54.0 Mbps or better	
5.	Protection layer	0.1 mm thick or better	

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13. TECHNICAL SPECIFICATIONS FOR BLUE RAY WRITER

Sr.	Peripherals/Functions	Specifications	Compliance/ Bidder Response
1.	Brand	WD/Verbatim/Sony or equivalent	
2.	Disc Compatibility	CD-R CD-RW DVD-R / DVD+R DVD-R / DVD+R Double Layer DVD-RW / DVD+RW DVD-RAM BD-R BD-R Dual Layer BD-R Triple Layer (BDXL) BD-R Quad Layer (BDXL) BD-R LTH BD-RE BD-RE Dual Layer BD-RE Triple Layer (BDXL) M DISC BD-R M DISC DVD-R M DISC BD-R Dual Layer M DISC BDXL	
3.	Write Speed	6X Blu-ray Write Speed, 8X DVD Write Speed, 24X CD Write Speed	
4.	Connectivity	USB 3.2 Gen 1 performance with USB 2.0 compatibility	
5.	Power	USB powered – AC adapter included in case additional power is needed	
6.	Compatible	Compatible with all common CD, DVD, and Blu-ray formats Compatible with BDXL – discs capacities of 100GB and higher	
7.	Software	Features Nero Burn & Archive software	
8.	Warranty	01 year comprehensive onsite warranty	
9.	Dealership	Authorized Dealership with OEM certification	

Note:

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14. TECHNICAL SPECIFICATIONS FOR UPS 1KVA

Sr. #	Nomenclature	Details	Compliance/ Bidder Response
1.	Power	1 KVA with built-in line conditioning AVR, Microprocessor Controller to Protect PC against all Power disturbances power blackout surge	
2.	Model	Latest (2024 - Till date)	
3.	Input	220 Volt AC+/- 25% Auto-sensing	
4.	Output	220 VAC+/-5% 50/60 Hz +/-0.5% Auto-adjustment	
5.	Transfer Time:	4ms (Typical)	
6.	Panel	Smart panel for reading, identification and rectification of faults	
7.	Battery	Maintenance Free 12 VDC 100AH	
8.	Protection	Automatic shutdown in case of overload and short circuit.	
9.	Interface	True	
10.	Backup Time	60 minutes with complete load.	
11.	Warranty	On site, One year after sales service	
12.	Onsite installation	Free	

Note:

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15. TECHNICAL SPECIFICATIONS FOR UPS 3KVA

Sr. #	Nomenclature	Details	Compliance/ Bidder Response
1.	Power	3 KVA with built-in line conditioning AVR, Microprocessor Controller to Protect PC against all Power disturbances power blackout surge	
2.	Model:	Latest	
3.	Input:	220 Volt AC+/- 25% Auto-sensing	
4.	Output:	220 VAC+/-5% 50/60 Hz +/-0.5% Auto-adjustment	
5.	Transfer Time:	4ms (Typical)	
6.	Panel	Smart panel for reading, identification and rectification of faults	
7.	Battery:	4-6 Maintenance Free 12 VDC	
8.	Protection:	Automatic shutdown in case of overload and short circuit.	
9.	Interface:	True	
10.	Backup Time:	60 minutes with max allowed load	
11.	Warranty:	On site, one year after sales service	
12.	Onsite Installation.	Free	

Note:

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16. TECHNICAL SPECIFICATIONS FOR GENERATOR 2 KVA

Sr. #	Nomenclature	Details	Compliance/ Bidder Response
01.	Rated Output	2 KVA \pm 1	
02.	Rated Frequency	50 HZ	
03.	Rated Voltage	220 V	
04.	Fuel Consumption	Maximum Fuel Efficient	
05.	Starting System	Recoil starter, Starter Motor	
06.	Cooling System	Forced air	
07.	Warranty	Minimum 1 year & 1 years Manufacturer's warranty & 2 free services	
08.	Preferred Brands	Hyundai, Yamaha, Honda, JASCO	

Note:

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17. TECHNICAL SPECIFICATIONS FOR HEAVY DUTY STABLIZER

Sr. #	Nomenclature	Details	Compliance/ Bidder Response
01.	Rated Output	2 KVA \pm 1	
02.	Rated Frequency	50 HZ	
03.	Rated Voltage	220 V	
04.	Fuel Consumption	Maximum Fuel Efficient	
05.	Starting System	Recoil starter, Starter Motor	
06.	Cooling System	Forced air	
07.	Warranty	Minimum 1 year & 1 years Manufacturer's warranty & 2 free services	
08.	Preferred Brands	Hyundai, Yamaha, Honda, JASCO	

Note:

The document enlists all requirements in left columns. The bidder shall provide his consent in the rightmost column. The response should be explicit in well-defined specification offered for the components against each row. Any ambiguous and implicit words or quotations (such as **yes, ok, offered, available and provided etc.**) shall be treated as “non-responsive”.

18. TECHNICAL SPECIFICATIONS FOR LAWN MOVER/GRASS CUTTING MACHINE

Sr. #	Nomenclature	Details	Compliance/ Bidder Response
01.	Drive System	Self-propelled	
02.	Cutting Width	Min 20" /Stripe (Ideally 24" /Stripe)	
03.	Cutting Cylinder	Minimum 5 Hard-Blade with Hand-Sharp edge	
04.	Grass Collector	Metal	
05.	Power Source	Electric Motor (2HP \pm 1)	
06.	Applicable	Commercial	
07.	Warranty	1 Year Parts & Maintenance	
08.	Accessories	Handle & Grass Collector	

Note:

The document enlists all requirements in left columns. The bidder shall provide his consent in the rightmost column. The response should be explicit in well-defined specification offered for the components against each row. Any ambiguous and implicit words or quotations (such as **yes, ok, offered, available and provided etc.**) shall be treated as "non-responsive".

19. TECHNICAL SPECIFICATIONS FOR HYDRAULIC HAND TROLLEY

Sr. #	Nomenclature	Details	Compliance/ Bidder Response
1.	Operation/ Function	Hydraulic/ Electric	
2.	Loading Capacity	Minimum 1 Ton	
3.	Lifting Height	Upto 300-500 mm	
4.	Loading Handless	Lever Handle with High Quality Hydraulic System and Good grip for holding	
5.	Wheel Material	Rubber or Nylon	
6.	Material	Solid steel	
7.	Warranty	10 Year panel warranty, 2 Year battery warranty	
8.	All participating vendors/bidders must be registered with Pakistan Engineering Council with field of Specialization, EE02 under relevant class for the year 2023/24. All Bidders must visit office for pre-bid meeting/ consultation for correct bidding.		

Note:

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CONTRACT

GOVERNMENT OF PAKISTAN
(MINISTRY OF DEFENCE)
SURVEY OF PAKISTAN
SURVEYOR GENERAL'S OFFICE
RAWALPINDI

Contract No. /15-G-4/()/CBA/St, dated: - 01-2025
Refers Supplier's Tender No.

An agreement made the _____ day of ----- Two Thousand-Twenty-Five between the President of Pakistan (herein after called the "PURCHASER" on the one part and M/s. ----, "SUPPLIER" on the other part.

Whereby it is agreed that the Purchaser shall purchase and the Supplier shall sell the stores as described in the schedule given hereunder at the price mentioned therein already transmitted through letter of intent subject to the special conditions as follow:

SUPPLY SCHEDULE

Description of Stores	Qty/ (Units)	Bill in name of	Rate per unit (Rs.)	Total Cost (Rs.)	Delivery Date
		Drawing & Disbursing Officer, Surveyor General's Office, Survey of Pakistan, Rawalpindi			On or before
Total:					

WARNING: Any information about the sale/purchase of the stores under this contract shall not be communicated to any person, other than the manufacturer of the stores or to any press or agency not authorized by the Surveyor General of Pakistan/Ministry of Defence to receive it. The breach of the undertaking shall be punishable under the Official Secrets Act, 1923

CONTRACT CONDITIONS/CLAUSES:

- 1). **Name of consignee:** The Surveyor General of Pakistan, Survey of Pakistan, Faizabad, Rawalpindi.
- 2). **Cost Dubitable to Head:** Capacity Building Account
- 3). **Supplier's Name an Address:**
- 4). **Supplier's NTN No.** M/s.
- 5). **Supplier's Sales Tax Reg. No:**
- 6). **Date of Delivery:** -
- 7). **Maker's Name & Brand:** -
- 8). **Dispatch Instructions:** The stores will be dispatched to the consignee under firm's own arrangements. No part supply will be allowed in any case. Each item will be packed/marked as per relevant paper's particulars governing the supply of store/standard/trade marking worthy of transportation by Rail/Road/Air within Pakistan so as to ensure their safe arrival at ultimate destination without any loss or damaging.
- 9). **Packing & Marking Instructions:**

- 10). **Inspection:**
- a) Inspection Authority: **Technical Evaluation Committee (TEC)**
 - b) Inspection Officer: **Chairman Technical Evaluation Committee**
 - c) Place of Inspection: **Consignee's Premises**
 - d) The Inspecting Officer will be informed 02 working days in advance about the time for inspection
- 11). **Checking of Stores of Consignee's End:** All stores will be checked at consignee's premises in the presence of supplier's representatives. If, for the reasons of economy or other the supplier decides not to nominate his representative for such checking, then advance written notice to this effect will be given by the supplier to the **Senior Stores Officer, Surveyor General's Office**, Survey of Pakistan, Rawalpindi under intimation to **CPC** prior to or immediately on delivering stores. In such an event, the supplier will clearly under take the decision of consignee with regard to quantities and description of a consignment, which will be taken as final and if any discrepancy found will according be made up by the supplier.
- 12). **Terms of Payment:**
- a) 100% payment of value of the stores supplied will be paid to M/s. _____, through Cheque by submission of bills duly supported by the **NOC** from **TEC**
 - b) Bill will be furnished to the SSO, SGO, Rawalpindi, which will subsequently be submitted to AGPR, Islamabad by the consignee.
- 13). **Taxes & Duties:**
- a) **Duties & Taxes Applicable:** The prices quoted are inclusive of all kinds of duties and taxes. The purchaser shall not be liable for reimbursement of duties and taxes on the contracted goods other than those given in the quoted rates. The payment of element of taxes and duties, which are included in quoted rates, will be made to the supplier only after production of duly authenticated documentary proof of its payment to the respective department. In case fresh taxes and duties are levied by the government after opening of the tender will signing of the contract and during the currency of the contract i.e., within the original delivery period) or if the existing rates of taxes are increased after opening of the tender and during the currency of the contract, liability shall be of the purchaser and the same shall be reimbursed by the AGPR, Islamabad to the supplier at actual, on production of documentary proof of his payment duly authenticated. In case of any subsequent decrease in existing or future duty or taxes by the Govt. after opening of tender and during the currency of the contract the liability shall be of the supplier and the supplier shall reimburse the same to AGPR, Islamabad under intimation to purchaser.
 - b) For release of payment, the supplier would be required to furnish the following documents to **SSO, SGO**.
 - i Proof of registration with Sales Tax Department (Copy of Registration Certificate).
 - ii Sales Tax Invoice in original showing description/quantity/value of good and current amount of Sales Tax leviable thereon.
- 14). **Bank Guarantee Clause:**
- a) To ensure timely and correct supply of stores and smooth execution of warrantee conditions the firm will furnish a bank guarantee/draft from a schedule bank for an amount of 5% of the total value of the contracted stores amounting to **Rs. _____** to **CPC**. After completion of warrantee period i.e. 03 years from the date of signing of NOC by **PC** the supplier will request the **CPC** through **SSO** for the withdrawal of bank guarantee/draft. The bank draft will be encased/deposited in SoP's bank account. The bank draft shall be produced by the supplier within 07 days from the date of issue of letter of intent/signing of contract deed and shall remain in force till completion of the warrantee period beyond the date of inspection.
 - b) If the supplier fails to produce the bank guarantee/draft within the specified period, the Surveyor General of Pakistan reserves the right of concealing the contract at the risk and

expense of the supplier. In the event of un-satisfactory performance or of any breach of terms of the contract, the bank guarantee/draft shall be forfeited to the government at the discretion of the purchaser. On satisfactory performance of the contract the bank guarantee/draft will be returned to the supplier by CPC, on receipt of clearance from the Consignee.

Bank guarantee/draft furnished against this contract is un-conditional and encashable at the

- c) will of purchaser. Supplier undertakes not to hinder/restrain its encashment through court, extra judicial or any other way (including administrative process).

15). **Supplier Warranty/Guarantee:**

- a) The supplier shall furnish warranty for the stores under supply against defects in material workmanship, and satisfactory performance for one year with parts and one-year free service. The stores will be of the high-test grade and consistent with general expectable standard for the stores of type ordered in full conformity with governing specifications and performance of stores with the liability of replacing defective/unacceptable part free of cost within **07 days** by the supplier on receiving the discrepancy report, failing which the purchaser shall have the right to purchase the stores (against the stores declared defective) at the supplier's risk and expense. The supplier also undertakes to make good the deficiency in supply, if any.

- b) Supplier's warranty shall be provided to the consignee along with the store.

16). **Inspection after Expiry of Delivery Period:** Unless informed and directed to the contrary during the currency of the contract, the Inspection Officer will continue the inspection of the stores at firm's risk even after expiry of delivery period. Such acceptance will not prejudice the purchaser's right to cancel the contract or to extend the delivery period with or without liquidated damages.

17). **Failure and Termination:** Should the supplier fail to deliver the stores within stipulated period of supply, on the expiry; the purchaser shall be entitled at his option to take either of the following actions:

- a) To cancel the contract or purchase from elsewhere the stores not delivered, at risk and expense of the supplier and without notice to him. The supplier shall also be liable to any loss which purchaser sustains on this account but shall not be entitled to any gain of repurchase.

- b) To make the supplier pay liquidation damages for the period of delays in supply up to the rate of 2% of the contract value un-supplied stores per month or part of a month for the period exceeding the original delivery period subject to the provision that total liquidation damages thus levied will not exceed 10%of the total contract value.

- c) If contract of the firm is cancelled at 'Risk and Expense' then the latest equivalent of their cancelled stores will be purchased at 'Risk and Expense' of the concerned firm if the cancelled type/category is not available in the market. Similarly an item of contract on FOR (indigenous) basis may be produced at risk and expenses of the firm on FOR (Imported) basis and vice-versa in the interest of the state.

18). **Force Majeure:** Force Majeure shall mean any event, act or other circumstances, not being an event, act or circumstance, under the control of the purchaser or of the supplier. Non-availability of raw material from the manufacturer of stores, or of export permit for the export of the contracted stores from the country of its origin, shall not constitute Force Majeure.

19). **Special Instructions:
Warranty/Guarantee:**

- a) The supplier has to provide warranty/guarantee of the stores supplied for a period of 01-year standard warrantee including repair, servicing and replacement of parts from the date of issuance of NOC by the **CPC** The supplier shall replace the defective stores free of cost. Warranty/Guarantee Certificate with regards to all items being supplied would be provided to the consignee along-with the stores.

- b) Trade mark of all items should be quoted clearly. On receipt, if any stores are found to be otherwise it will be changed/ replaced free of cost.

- c) The Supplier will be strictly bound to supply the contracted stores as per tendered

specifications, and fulfill all responsibilities in this regard.

- 20). **Litigation:** In case of any dispute, only court of jurisdiction at Rawalpindi shall have the jurisdiction to decide the matter.

SIGNATURES

PURCHASER

Designation	Chairman Purchase Committee
Name	(NADEEM AHMAD CH.,)
Signature	
For and on behalf of the President of Islamic Republic of Pakistan.	

SUPPLIER

Name	
Designation	
Signature	