

REVISED TECHNICAL SPECIFICATIONS FOR HIGH PRECISION DIGITAL LEVEL

LIST OF ITEMS

1. H.P Level	02
2. Processing Software (Full package)	01
3. Imported heavy duty branded wooden/Fibre glass Tripods	02
4. Invar Bar coded Staves with wooden box	05
5. Spare Batteries	02
6. Stave holder	04
7. Foot plates	04
8. H.P Level cover	02
9. All other standard accessories with article number of same brand (i.e batteries, chargers, measuring taps and carrying cases etc)	

HEIGHT MEASUREMENT:

Level Accuracy 0.3 mm

DISTANCE MEASUREMENT:

Distance Accuracy ($\geq 100\text{m}$ range) $\pm 0.2\%$ of the distance

MEASUREMENT RANGE:

Measurement range ≤ 1.8 meter to ≥ 100 meter

Measurement time ≤ 2.5 sec

FOCUS:

Focus Type Auto/Manual

SPECIAL REQUIREMENTS

Certificate of origin: From manufacturer with every equipment in box

Certificate from chamber of commerce: Certificate from Chamber of Commerce with serial Number of Digital High Precise Level shipped against this order from place of shipment

COMPENSATOR:

Working range $\pm 9'$

Compensator Accuracy 0.3''

Magnetic field sensitivity Magnetic Damping system

INTERFACES

RS232/USB/Mini USB

DATA STORAGE

Internal 10,000 (or greater) measurements and USB Storage

GENERAL

Display	Colour touch screen with LED backlight (Sunlight readability).
Telescope Magnification	32x
Minimum focus distance	≤1.5 m
Electronic level bubble	must be available
Internal battery / operating time	Exchangeable Lithium-Ion / 10 - 12 h
Working temperature range	-20 °C to +50 °C
Dust / Water (IEC 60529)	IP 54 or better
Humidity	95%, non-condensing

TRAINING

Training for operation and preventive maintenance of equipment (Hardware and software) for 02 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 Digital High Precise Level will be considered for technical evaluation.
2. OEM (Original Equipment Manufacturer) must have reasonable experience of manufacturing Digital High Precise Level instrument. Any sale contract / document to be provided as proof. Preference will be given on basis of more experience.
3. 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. Evaluation team may inspect workshop.
4. 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.
5. All bidders are advised to comply strictly with the tender specifications and no deviation shall be allowed.
6. The system must be based on latest design (Hardware & Software), model and technology.

7. 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 SOP as per tender specifications.
8. Evaluation criteria for Technical Evaluation of Digital High Precise Level is based on
 - 100% compliance of each sub-item of Tender Specifications as mentioned in Proforma-A-1 will be required.
 - If the firm qualifies 100% compliance on the basis of Proforma A-1, 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-1 the bidder obtaining 70 or more marks will be technically qualified.

Note:

Evaluation criteria is given in attached

- I. **Proforma A-1.**
- II. **Proforma B-1.**

