

Specification Of
Total Station and Digital Level (Japan, USA, Germany, EU Or equivalent Origin)

Reflector Less Total Station (with general accessories)

Quantity

Reflector less total station _____ 3 Three

Telescope (equal or above)

Resolving power/angle _____ 2.5" to 3.0"

Magnification _____ 28x to 30X

Objective aperture for EDM _____ 40 mm to 45mm

Minimum focus _____ 1.0m to 1.5

Vision _____ wide

Accuracy _____ 1" TO 5"

Distance Measurement (equal or above)

Independent Angle Calibration System should be in instrument _____ (±3") to (±5")

Laser guide light system with different colour for lay out or other system

Laser specification _____ Reflector less mode: Class 1-3

Reflective on sheet _____ 500m to 1000m

Reflector less _____ 450m to 1000m

Distance with one prism _____ 4000 to 5000m

Distance measurement Time (Standard) _____ 0.5sec to 1.3sec.

Operating Temperature _____ -20 to +50°C (-4 to +122°F)

Interface and Data management (equal or above)

Interface _____ Serial RS-232C/ USB2.0 (Type A, for USB flash memory)/ Bluetooth

Data storage Internal memory _____ 10000 to 50000 points

Control panel location _____ On both faces

Keyboard maximum key operative

Setting Of Instrument

Dual-axis compensator Dual-axis liquid tilt sensor / Collimation compensation

Power supply

Battery detachable Li-ion rechargeable battery

Operating time with single battery 36 to 40 hours

General features

- Tracking system for security of instrument or any relevant feature.
- Minimum focusing range or auto focus.
- Guide light for telescope orientation to rover or any relevant feature optional.
- High brightness level for led display in sunlight.
- Good night vision led display
- Usb data output
- Built in laser plummet for setting of instrument/optical
- Waterproof

Other Accessories(branded) For Each Total Station

1. Tripod 1
2. Adjustable Branded Prism 3
3. Catcher stand 3
4. Adjustable Rod for prism with bubble 3
5. Usb data download cable 1
6. Batteries 2

Digital Level (0.2mm to 0.3mm)

Quantity _____ **1 (one)**

All specification should be equitant or above.

<u>Accuracy using standard Invar staff</u>	<u>0.2mm to 0.3mm</u>
<u>Telescope magnification</u>	<u>32x 36x</u>
<u>working range maximum</u>	<u>80m to 150m</u>
<u>working range minimum</u>	<u>1m to 1.8m</u>
<u>Distance accuracy</u>	<u>20mm at 20m to 35m</u>
<u>Data transfer</u>	<u>usb/Bluetooth/mini usb</u>
<u>Display</u>	<u>color optional</u>
<u>Camera and compass</u>	<u>digital optional</u>
<u>Data storage</u>	<u>10000-30000 measurements</u>
<u>Internal battery/operating time</u>	<u>exchangeable lithium lon/12-24 h or batter</u>
<u>Invar staff (2m single length)</u>	<u>with proper solid casing 2 TWO</u>
<u>Ground plates (branded)</u>	<u>2 TWO</u>
<u>Invar staff struts stand</u>	<u>2 TWO</u>

General features of digital level

- User friendly data downloading software
- Reading or observation time should be minimum
- With all branded accessories, tripod, invar staff, change palates, staff casing and others.

Training

Supplier should provide complete training (field & office) and data processing procedure of the subject.

Note:

- It is single stage two enveloped bid technical and financial separately.
- Submit your bid separately for total station and digital level
- Complete Warranty of product more than one year will be preferable
- This is necessary for bidder to prove coated specification in the field before opening the financial bid.
- Bidder should be authorized dealer of coated material.
- The coated instruments by the bidders which show better results in jointly observed filed test will go in next phase of bidding process remaining will be disqualified.
- Bid security @ 2% of the total bid price in the form of bank draft in favor of NESPAK on the address mentioned in the advertisement may please be deposited.