

Marathwada Shikshan Prasarak Mandal's

DEOGIRI INSTITUTE OF ENGINEERING AND MANAGEMENT STUDIES

(Approved by AICTE, DTE and Govt. of Maharashtra)

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TENDER NOTICE FOR PROCURMENT OF TOTAL STATION **SPECIFICATIONS REQUIRED FOR TOTAL STATION**

ANGULAR MEASUREMENT-

Accuracy Hz and V Absolute, continuous-5"

- Display resolution: 1" (0.1 mgon)
- Dual axis compensation with Hz collimation and V index correction
- Compensator range: +/- 8'
- Longitudinal level sensitivity: 2'/2 mm

DISTANCE MEASUREMENT

- Range-Prism (GPR1): 3,000 m, non-prism: up to 500 m2
- Accuracy-Single prism: 2 mm + 2 ppm, non-prism: 3 mm + 2 ppm³

Measurement time-

- Prism mode- Standard: 1.5s, Quick: 1.1 s, Tracking: 0.15 s,
- Non-prism mode- Standard: 1.4s, Quick: 1.1 s

Telescope-

- Magnification: 28x
- Focusing range: 1.5 m / 4.92 ft to infinity
- Field of view: 1°30' / 1.66 gon
- Field width at 100 m: 2.8 m
- Adjustable reticule illumination

Display and keyboard-

- 240x128 px, grayscale, 28 keys display background light, face 1 or 2

Operation

- Coarse and fine drive for HZ & V
- operating system: Free RT/OS
- Shortcut keys

Power management-

- Exchangeable Lithium-Ion battery
- Operating time up to 24 h

Data storage

- Internal memory: 50,000 points
- USB memory device for data transfer

Interfaces

- USB

Laser plummetAccuracy

- Plumb line deviation: 1.5 mm at 1.5 m instrument height
- Diameter of laser point: 2.5 mm at 1.5 m instrument height




Director