



# **Dr. SHYAMA PRASAD MUKHERJEE UNIVERSITY**

(Following Upgradation of Ranchi College, Ranchi, under RUSA Programme, Component-I)  
**Ranchi, Jharkhand.**

**OFFICE OF THE  
REGISTRAR**

**Memo No.: DSPMU/G/...../21**

**Date: 30/11/2021**

**Dr. Shyama Prasad Mukherjee University**

**Morabadi, Ranchi-834008**

**Website : [www.dspmuranchi.ac.in](http://www.dspmuranchi.ac.in)**

**Notice for Invitation of Tender**

The Vice-Chancellor, DSPMU, is pleased to invite tender in Sealed Envelopes from eligible Firms / Suppliers in prescribed format for supply of Modern Art Surveying Apparatus and Software for Amanat Survey and GIS Certificate Course to be submitted latest by 03.01.2022 till 04:00 P.M. The details of items to be supplied and terms and conditions are available on the Website of DSPMU, Ranchi ([www.dspmuranchi.ac.in](http://www.dspmuranchi.ac.in)) from 01.12.2021 04:00 P.M. onwards.

*Hamita Singh*  
30-11-21

**Registrar**  
DSPMU, Ranchi.



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**Morabadi, Ranchi – 834008**

**Website: www.dspmuranchi.ac.in**

**NOTICE FOR INVITATION OF TENDER**

The Vice-Chancellor, DSPMU, Ranchi, is pleased to invite fresh tenders in sealed envelope from eligible firms/suppliers in prescribed format for the supply and installation of following items in sealed envelope.

- Nature of Work :**
- 1. C3 Mechanical Total Station – Academic Version (01 piece)**
  - 2. Handheld GPS eTrex 30x – Academic Version (04 piece)**
  - 3. ESRI EIGAP 25 Users 5 Years Subscriptions**

**The above-mentioned items are being required for Amanat Survey and GIS Certificate Course of the University.**

<b>Eligibility Criterion (Technical Bid)</b>	:	1) Copy of Balance sheet of last three financial years. 2) IT Return of last three financial years. 3) Authorization Certificate from the Vendor Company. 4) Order Copy of Reputed Customers. 5) GST Registration Certificate. 6) GST Return File Copy. 7) Price Genuinity Declaration. 8) Product Genuinity Declaration. 9) PAN Card. 10) Service Experience (Minimum 3 Years)
<b>Earnest Money</b>	:	An earnest money of Rs. <b>15,000/-</b> has to be deposited in the form of <b>BANK DRAFT</b> of any nationalized bank drawn in favour of <b>“THE REGISTRAR, DSPMU, RANCHI”</b> . The above said Bank Draft shall be submitted to the Section Officer (G), DSPMU, Ranchi, alongwith the duly filled and completed tender document. The duly filled tender document must be supported with all relevant information and documents.

**Address: Morabadi, P.O.: Ranchi University, Ranchi-834008.**  
**Email: registrardspmuranchi@gmail.com, vcdspmu@gmail.com**  
**Website: www.dspmuranchi.ac.in**



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		The prescribed format, for application of Tender Form is available with the Section Officer (G), DSPMU, Ranchi, on payment of Rs. 3000/-.
Tender Form	:	The cost of tender form will be Rs. 3,000/-.
Date of Issue of Tender	:	01.12.2021
Date of obtaining Tender Documents	:	06.12.2021
Last Date and Time for Submission of Tender	:	03.01.2022 till 4:00PM
Date and Time for the Opening of Tender	:	06.01.2022 at 2:00PM

Technical and Financial Bids should be enclosed in separate envelopes labeled as – “Technical Bid”/“Financial Bid”.

*Namita Singh*  
30-11-21

Registrar

DSPMU, Ranchi

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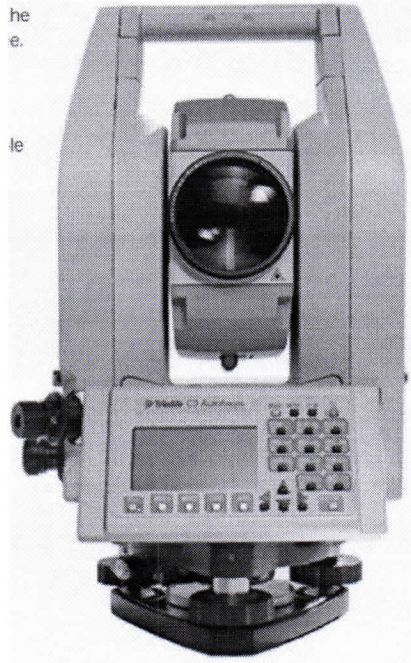
**Memo No.: DSPMU/G/546/21**

**Date: 30/11/2021**

**TECHNICAL SPECIFICATIONS: C3 MECHANICAL TOTAL STATION**

**Key Features:**

- ▶ Autofocus powered by Nikon
- ▶ Powerful long range EDM
- ▶ Compact, lightweight, and rugged system design
- ▶ Dual face displays
- ▶ Intuitive onboard software
- ▶ Winterized 2" and 5" models available



**Technical Specifications:**

**DISTANCE MEASUREMENT**

**Range with specified prisms**

Good conditions<sup>1</sup>

With reflector sheet 5 cm x 5 cm (2 in x 2 in): 1.5 m to 300 m

With single prism 6.25 cm (2.5 in): 1.5 m to 5000 m

Reflectorless mode:

	Good <sup>1</sup>	Normal <sup>2</sup>	Difficult <sup>3</sup>
KGC (18%)	400m (1312 ft)	300m (984 ft)	235m (771 ft)
KGC (90%)	800m (2625 ft)	500m (1640 ft)	250m (820 ft)

**Accuracy in precise measurement mode<sup>7,8</sup>**

Prism<sup>4</sup>:  $\pm (2 + 2 \text{ ppm} \times D) \text{ mm}$

Reflectorless:  $\pm (3 + 2 \text{ ppm} \times D) \text{ mm}$

Measuring interval<sup>5</sup>

*Approved*  
27/11/21

*Amish*  
27/11/21

*Ashu*  
27.11.2021

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	Precise Mode	Normal Mode	Fast Mode
<b>Prism Mode</b>	1.0s	0.5s	0.3s
<b>Non-Prism Mode</b>	1.0s	0.5s	0.3s
<b>Least Count</b>	0.1mm or 1mm (0.0002 ft or 0.002 ft)	10mm (0.02 ft)	10mm (0.02 ft)

**ANGLE MEASUREMENT**

Accuracy (Standard Deviation based on ISO 17123-3): 1" (0.3 mgon), 2" (0.6 mgon),  
3" (1.0 mgon), 5" (1.5 mgon)

Reading system: Absolute encoder

Circle diameter: 62 mm (2.4 in)

Horizontal/Vertical angle: Diametrical/Single Minimum increment (Degree, Gon)

1" model: 0.5" (0.1 mgon)

2", 3", 5" models: 1.0" (0.2 mgon)

**TELESCOPE**

Tube length: 125 mm (4.9 in)

Image: Erect

Magnification: 30× (19×/38× with optional eyepieces)

Effective diameter of objective: 45 mm (1.77 in)

EDM Diameter: 50 mm (1.97 in)

Field of view: 1° 25'

Resolving power: 3"

Minimum focusing distance: 1.5 m (4.9 ft)

Laser Pointer: Coaxial Red Light

Track light: No

**TILT SENSOR**

Type: Dual-axis

Method: Liquid-electric detection

Compensation range: ±3'

**COMMUNICATIONS**

Communication ports: 1 x serial (RS-232C), 1 x USB (host)

Wireless communications: Integrated Bluetooth®

**POWER**

**Internal Li-ion battery (x2)**

Output voltage: 3.6V

**Operating time<sup>6</sup>**

Continuous angle-only measurement: 22h

Distance/angle measurement/AF every 30s: 18h

Continuous distance/angle measurement: 10h

Charging time, full charge: 6h

*Morabadi*  
27/11/21

*Amish*  
27/11/21

*Aaysha*  
27.11.21

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**GENERAL SPECIFICATIONS**

Autofocus: Yes

Level vials

Sensitivity of Circular level vial on tribrach: 10' / 2 mm

Tangent Clamps: Yes

Display face 1: back-lit, graphic LCD (128 x 64 pixels)

Display face 2: back-lit, graphic LCD (128 x 64 pixels)

Point memory: 50.000 points

Internal Plummet: Optical or Class 2 Laser

Optical Plummet:

Magnification: 3x

Field of view: 5°

Minimum focusing distance: 0.5 m

Dimensions (W x D x H): 206mm x 169mm x 318mm (8.1in x 6.70in x 12.5in)

Weight (approx.)

1", 2", 3", 5" Main unit: 4.3 kg (9.5 lb)

Battery: 0.1 kg (0.2 lb)

Carrying case: 3.3 kg (7.3 lb)

**ENVIRONMENTAL**

Operating temperature range: -20°C to +50°C (-4°F to +122°F)

Winterized: -30°C to +50°C (-22°F to +122°F)

Storage temperature range: -25 °C to +60 °C (-13 °F to +140 °F)

Winterized: -30 °C to +60 °C (-22 °F to +140 °F)

**Atmospheric Correction**

Temperature range: -40 °C to +60 °C (-40 °F to +140 °F)

Barometric pressure: 400mmHg to 999mmHg/533hPa to 1,332hPa/15.8inHg to 39.3inHg

Dust and water protection: IP66

**CERTIFICATION**

Class B Part 15 FCC certification, CE Mark approval. RCM Mark.

IEC60825-1 am 2007, IEC60825-1 am 2014, FDA notice 50

Prism/Reflectorless mode: Class 1 laser

Laser Plummet/Laser Pointer: Class 2 laser

<sup>1</sup> Good conditions (good visibility, overcast, twilight, low ambient light).

<sup>2</sup> Normal conditions (normal visibility, object in the shadow, moderate ambient light).

<sup>3</sup> Difficult conditions (haze, object in direct sunlight, high ambient light).

<sup>4</sup> Standard Deviation based on ISO 17123-4

<sup>5</sup> Measuring time may vary depending on measuring distance and conditions. Specification based on average of repeated measurements.

<sup>6</sup> Battery life specification at 25°C (77 °F). Operation times may vary depending on the condition and deterioration of the battery.

<sup>7</sup> For both prism and non-prism modes, EDM accuracy in normal mode is  $\pm (10 + 5 \text{ ppm} \times D)$  mm and fast mode is  $\pm (20 + 5 \text{ ppm} \times D)$  mm.

<sup>8</sup>  $\pm (2 + 2 \text{ ppm} \times D)$  mm -20°C to -10°C (-4°F to +14°F), +40°C to +50°C (+104°F to +122°F).

- Bluetooth type approvals are country specific.
- Specifications subject to change without notice.

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*Tomal*  
27/11/21

*Anita*  
27/11/21

*Anita*  
27.11.21



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**TECHNICAL SPECIFICATIONS: Handheld GPS eTrex 30x**

**Key Features:**

- ▶ Greater resolution with 240 x 320 display pixels for improved readability
- ▶ Internal memory expanded to hold more maps
- ▶ Worldwide base-map with shaded relief
- ▶ 2.2-inch, 65K colour, sunlight-readable display
- ▶ 3-axis compass and barometric altimeter



**Physical and Performance:**

Physical dimensions	2.1" x 4.0" x 1.3" (5.4 x 10.3 x 3.3 cm)
Display size, W x H	1.4" x 1.7" (3.5 x 4.4 cm); 2.2" diag (5.6 cm)
Display resolution, W x H	240 x 320 pixels
Display type	2.2" transfective, 65K colour TFT
Weight	5 oz (141.7 g) with batteries
Battery	2 AA batteries (not included); NiMH or Lithium recommended
Battery life	25 hours
Water rating	IPX7
High-sensitivity receiver	YES
Interface	USB
Barometric altimeter	YES
Electronic compass	YES
Unit-to-unit transfer (shares data wirelessly with similar units)	YES

**Maps and Memory:**

Base-map	YES
Ability to add maps	YES
Built-in memory	3.7GB
Accepts data cards	microSD™ card (not included)
Custom POIs (ability to add additional points of interest)	YES
Waypoints/favourites/locations	2000
Routes	200
Track log	10,000 points, 200 saved tracks

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**Outdoor Features:**

Automatic routing (turn by turn routing on roads)	(with optional mapping for detailed roads)
Geocaching-friendly	(Paperless)
Custom maps compatible	YES
Sun and moon information	YES
Tide tables	(with optional Blue-Chart)
Area calculation	YES
Picture viewer	YES

*Tomaradi*  
27/11/21

*Angis*  
27/11/21

*Aditya*  
27.11.21



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**Technical Specifications: ESRI EIGAP 25 Users 5 Years Subscriptions**

S. No.	Description	Quantity EIGAP
1.	ArcGIS Desktop Advanced (ArcGIS Pro and ArcMap) and extensions • 3D Analyst • Data Interoperability • Data Reviewer • Geostatistical Analyst • Network Analyst • Publisher • Schematics • Spatial Analyst • Tracking Analyst • Workflow Manager	25
2.	ArcGIS Enterprise Advanced and extensions • 3D Analyst • Data Interoperability • Data Reviewer • Geostatistical Analyst • Network Analyst • Schematics • Spatial Analyst • Workflow Manager	1 (4 Core)
3.	ESRI City Engine Advanced	25
4.	ArcGIS Online Level 2 Named Users (1 Organization Account only)	25
5.	ArcGIS Online Service Credits	2,500
6.	Apps • ArcGIS Earth • Explorer for ArcGIS • Web Mapping Apps Collector for ArcGIS • Survey123 for ArcGIS • Operations Dashboard for ArcGIS • Workforce for ArcGIS • ArcGIS Maps for Adobe Creative Cloud • ArcGIS Maps for Office • Esri Maps for SharePoint • Web App Builder for ArcGIS • Story Maps and Web App Templates • App Studio for ArcGIS Basic	25
7.	Premium Apps • Business Analyst web and mobile apps • Community Analyst • Geo-Planner for ArcGIS • Insights for ArcGIS	25
8.	3 Day Faculty Development Workshop By GIS Practitioners (Service Pack required)	Max 5 Participants

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