

UNIVERSITY DEPARTMENT OF GEOGRAPHY
RANCHI UNIVERSITY
RE-TENDER NOTICE

Quotations in sealed envelopes are invited from reputed suppliers/vendors for the supply of the following equipment adhering to the specifications mentioned on the basis of per unit/pair/set price for each item. The quotations may be submitted personally to the office or by registered post to The Head, University Department of Geography, Ranchi University, Ranchi-834008, Jharkhand on or before 19th May, 2017 till 3.00 PM. and the same will be opened at 3.30 P.M. The interested tenderers may be present at the time of opening.

Sl.No.	ITEMS	Price Per Unit
01	PLANE TABLE WITH WOODEN STAND AND ACCESSORIES : 600 X 750 X 22 MM : (WITH JHONSON HEAD) Made of pine wood with hard wooden battens at back having thorough slots for screws and washers nut for clamping. With all the accessories such as Brass Plum-bob, Brass Plumbing-fork, Brass Spirit Level Size 6", Brass Alidade Size 24", Al. Trough Compass Size 6", and canvas cover.	
02	PRISMATIC COMPASS WITH TRIPOD : SIZE 4 ½" : Made of brass with aluminium ring, engine divided to read 30 minutes with fine agate centre, well magnetized needle, automatic lifter and prism reading, hinged coloured shades and reflector packed in fiber case with tripod stand having ball and socket head made of aluminium. With aluminium stand in Canvas Cover.	
03	NAUTICAL SEXTANT (BRASS MAKE)	
04	LEVELLING STAFF Telescopic 6M in 5 Folds in Canvas Cover	
05	LEVEL QUICK SETTING DUMPY SOUTH AUTO LEVEL MODEL NL-C32x STYLE : with standard Accessories in PVC Box with Aluminium Telescopic Tripod Stand	
06	GARMIN (USA) HAND HELD GPS SATELLITE RECEIVERS (With Cable & Booklet.) MODEL ETREX 30 : Waypoint/Icons – 500 Battery Life – 16 Hrs Tracks – 10 saved tracks Waterproof IPx7 submersible Route – 50 waypoints Temp. Range – 15 deg. C to 70 deg. C Display – 4 Level gray FSTN Area Calculation Accuracy = 3 to 5 Mtr	
07	DIGITAL THEODOLITE Having 1" least count and 2" accuracy, 30X Magnification, 45mm Objective Aperture, Field of View 1°30',	

	Dual Display, Optical Plummet 3x, Working Range of Compensator +3', Stadia Ratio 100, Shortest Focus 0.9m, AA Battery Backup, Stadia Constant 0, Image Erect Along with all standard accessories:- Battery, Battery Charger, Operation Manual, Tool Kit, Carrying Case. South Brand ET-20	
08	TOTAL STATION (Specification as below)	
09	CLINOMETER (INDIAN)	
10	ABNEY'S LEVEL	
11	ROTAMETER	
12	PLANIMETER (DIGITAL) KP-90N	
13	TAPE FIBER 30M STEEL BOTH 30M	
14	BINOCULAR (IMPORTED) (Best Quality, High Range)	
15	SET SQUARE (Made of Acrylic Sheets) Oblong (10"x12")	
16	PROTECTOR (Made of Acrylic Sheets)	
17	DIVIDER	
18	PENCIL COMPASS (Engg. Set)	
19	PROPORTIONATE COMPASS	
20	FRENCH CURVE	
21	SCALE OBLONG (METER/FEET) (Made by Milky Sheet)	
22	TOPOSHEET (73E/1 to 16) (73J/1 to 16)	
23	SURVEY GARDEN UMBRELLA (2 Mtr. Grey & Blue)	

Terms and Conditions :

1. **Only manufacturers or the authorized dealers/agents who are authorized by the manufacturer for this tender may quote their offers.**
2. **Only such quotations will be considered which fully comply to the specifications of the equipment(s)**
3. The price should be quoted in Indian Rupees. The undersigned will not be liable to pay any extra cost except as quoted in the quotation.
4. Evidence of Sales Tax Registration, Income Tax clearance and other relevant papers must be enclosed with the quotation.
5. Warranty of the items for at least one year or more after installation is desirable.

6. The successful bidder has to make arrangement of training/demonstration of equipment at the premises of the department free of cost.
7. Payment to successful bidder will be made after the installation and satisfactory functioning of the equipment(s) through a/c payee cheque only.
8. The undersigned reserves the right to terminate/cancel the purchase fully or partially without assigning any reason thereof.

Head

University Department of Geography

Specifications for TOTAL STATION

Make : Sokkia/ Leica/ Trimble

Telescope

Aperture	: 45mm
EDM	: 48mm
Magnification	: 30X
Resolving power	: 2.5"
Field of view	: 1deg 30min.
Minimum focus	: 1.3m
Reticle illumination	: 5 brightness levels

Angle measurement

Horizontal and Vertical circles type	: Rotary absolute encoder
Detecting	: 2 Sides
Minimum display	: 1"
Accuracy	: 5"

Tilt Angle compensation

Type	: Liquid 2-axis tilt sensor
Range of compensation	: $\pm 6'$

Distance measurement

Measuring method	: Coaxial phase-contrast measuring system
Signal source	: Red laser diode 690nm, Class 3R
Measuring range	
Reflector less mode	: 0.3 to 350m
With one prism	: 4000m

Display resolution

Fine measurement	: 0.001m
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Accuracy

Fine measurement (using prism)	: $(2 + 2 \text{ ppm} \times D) \text{ mm}$
Fine measurement (Reflectorless)	: $(3 + 2 \text{ ppm} \times D) \text{ mm}$

Measuring Time

Fine measurement	: Approx less than 1 seconds
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Interface and Data management

Display/Keyboard : Graphic LCD, 192x 80 dots/25 keys with backlight
Control Panel : on one face
Trigger key : Yes required

Data Storage

Internal memory : Approx. 10,000 points
Plug- in memory : USB flash memory (max. 8GB)
Interface : Serial RS-232C

General

Laser – pointer : Coaxial red laser using EDM beam
Dust and water protection : IP66
Operating temperature : -20 to +60deg.C

Optical Plummet

Magnification : 3X
Minimum focus : 0.3m from the tribrach bottom

Power Supply

Battery : Detachable/Li-ion Rechargeable battery
Operating time : Approx. 15 hours one single battery

Standard Accessories:-

Rechargeable Battery, Battery Charger, Power Cable, Lens Cap, Tool Pouch, Screwdriver, Lens Brush, Lens Hood, Adjusting Pin X 2, Cleaning Cloth, Operation Manual, Caution sign board, carrying strap X2, carrying case, Plumb Bob, Rain cover, Measuring Tape 3 meter, Pen drive 8 GB.

Additional accessories:-

Prism Pole 2.6 meter extendible height with twist locking system-1 no,
Circular Silver coated prism with Target Plate (Metal) and metallic holder-1 no,
Dual lock heavy duty fibre tripod in case with shoulder strap-1 no.