

GLOBAL INSTITUTE OF SCIENCE & TECHNOLOGY

(An Institution of ICARE)

ICARE Complex, Hatiberia, Haldia, 721657

Department of Civil Engineering

Purchase of Instruments

| Sl. No. | Items | Specification | Qty. | Corresponding Lab | Sem |
|---------|--|--|------|--|-----------------------------------|
| 1. | Vicat Apparatus | Vicat needle apparatus with stop watch 1/10 div, Indian made | 02 | Civil Engineering Lab-I | 3 rd |
| 2. | Measuring Cylinder | Borosil Make, 250ml capacity | 02 | Civil Engineering Lab-I | 3 rd |
| 3. | Hacksaw | 12" Tubular hacksaw frame with sheet fabricated handle tubular hacksaw frame with sheet fabricated handle and blade adjustable & powerful nylon/rubber grip. | 01 | Civil Engineering Lab-I | 3 rd |
| 4. | Black Board / White Board Geometry Set | Made of seasoned wood with Set Square, Protractor and scale made of wood and compass & divider fitted with brass fittings. | 01 | Civil Engineering Planning and Drawing Practices | 3 rd |
| 5. | Chain | As per IS 1492 (1970): Metric surveying chains, made of GI & Brass (20 m) | 03 | Survey Lab | 4 th & 6 th |
| 6. | Chain | As per IS 1492 (1970): Metric surveying chains, made of GI & Brass (30 m) | 03 | Survey Lab | 4 th & 6 th |
| 7. | Measuring Tape | PVC measuring tape (30m) | 03 | Survey Lab | 4 th & 6 th |
| 8. | Optical Square | Product Specification Shape: Circular Material: Brass Product Description Consists of Brass hollow box, having open face about 6 x 3 cm, and closed face about 2 x 3 cm. and deep about 4cm to 5cm. provided with a brass handle about 8cm. in length. Two mirrors fixed at an angle of 45 degree to the inclined sides of the box. Circular type made up of brass & fitted with double reflecting mirror right & left to 90, in case. | 03 | Survey Lab | 4 th & 6 th |
| 9. | Cross Staff | Material: Aluminium, Brass Length: 1 - 2 Meter Accuracy: 99.9% | 03 | Survey Lab | 4 th & 6 th |
| 10. | Prismatic compass | Prismatic compass, made with Brass and Gun Metal, Superior quality (4" with plastic cover) | 02 | Survey Lab | 4 th & 6 th |
| 11. | Levelling Staff | Unique high precision 1mm reading telescopic 5 meter, 5 section staff with 10mm graduation plus 1mm laser graduation. Made of Aluminium. | 02 | Survey Lab | 4 th & 6 th |

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|-----|--------------------|--|----|------------|-----------------|
| 12. | Digital Planimeter | Make: Placom Measurement by 6 digit pulse count Maximum cumulative measurement value of 10m ² Easy conversion function of unit and scale Hold memory function Automatic shifting of unit to upper unit Auto-power-off function for energy saving | 01 | Survey Lab | 4 th |
| 13. | Total Station | Make: Sokkia/ Topcon Magnification: 30X Resolving Power: 2.5 inch Distance Measurement: 3 km Number of Prism: Single 5 second accuracy 500 meter non prism Minimum Readout 0.5 mm Minimum Focus 1m Battery Backup 10 hrs Pen drive downloading system | 01 | Survey Lab | 6 th |

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Calibration of Instruments

| Sl. No. | Description of Instruments | Qty |
|---------|--|-------|
| 1. | Compression Testing Machine | 1 No. |
| 2. | Cement Mortar Cube Mould | 4 No. |
| 3. | Concrete Cube Mould | 4 No. |
| 4. | Sieve For Fine Aggregates | 1 no |
| 5. | Sieve For Coarse Aggregates | 1 no |
| 6. | Vicat Needle Apparatus | 4 no |
| 7. | Electric Balance | 3 no |
| 8. | Ductility Testing Machine | 1 no |
| 9. | Marshall Stability Apparatus | 1 no |
| 10. | Slump Cone | 4 no |
| 11. | Compacting Factor Testing Machine | 1 no |
| 12. | Vee-Bee Consistometer | 1 no |
| 13. | Thickness Gauge | 4 no |
| 14. | Length Gauge | 4 no |
| 15. | Impact Testing Machine | 1 no |
| 16. | Los Angeles Abrasion Testing Machine With Steel Ball | 1 no |
| 17. | Rebound Hammer | 1 no |
| 18. | Direct Box Shear test Apparatus | 1 no |
| 19. | Consolidation test Apparatus | 1 no |
| 20. | California Bearing Ratio test Apparatus | 1 no |
| 21. | Thermostatically Controlled Oven | 1 no |
| 22. | Sand Replacement Apparatus | 2 no |
| 23. | Soil Core Cutter apparatus | 3 no |
| 24. | Liquid Limit Apparatus | 3 no |
| 25. | Plastic Limit Apparatus | 2 no |
| 26. | Proctor Apparatus | 4 no |
| 27. | Auto Level | 2 no |
| 28. | Transit Theodolite | 1 no |
| 29. | Digital Theodolite | 1 no |
| 30. | Prismatic Compass | 3 no |