

Apex Labs Logo

EARTH SCIENCES & GEODESY PORTFOLIO

GEOGRAPHY & FIELD SURVEYING

Optical Auto Levels, Plane Table Outfits, Land Mapping Chains & Meteorological Instruments

Apex Labs Varanasi

Complete System Hardware for Civil Engineering Departments, Poly-technics, and Geography Research Centers

Varanasi, Uttar Pradesh, India

Official Geodesy Reference Catalogue | Ref: AL-GEOG-NC-2026

SURVEYING SYSTEMS & CARTOGRAPHIC EQUIPMENT

Apex Labs Varanasi presents its premium, unpriced institutional catalog for **Geography & Civil Surveying Instruments**. This catalog is built around field-tested engineering gear including dampened optical Auto Levels, robust metal Dumpy Levels, complete seasoned teak drawing boards for plane table mapping, precise land tracking links, orientation Brunton pocket transits, and large-format cartographic reference maps. Every technical layout item is manufactured to withstand rigorous outdoor environments while providing precise topographical and geodesic tracking lines. *Please quote the specific alphanumeric item codes when communicating with our commercial estimation desk.*

EQUIPMENT CLASSIFICATION	TECHNICAL PARAMETERS & BUILT SPECIFICATIONS
AL-SE-025 Automatic Leveling Instrument (Auto Level)	Heavy-duty optical alignment level featuring high-precision magnetic dampers, 24x magnification telescope, and an integrated rapid-stabilization compensator.
AL-SE-050 Dumpy Level Survey Apparatus (9-Inch)	Classic internal focusing telescope setup complete with highly sensitive spirit levels, leveling foot screws, and a durable wooden carrying container.
AL-SE-055 Dumpy Level Survey Apparatus (12-Inch)	Extended 12-inch telescope layout offering superior optical focus over long-range baseline geographic alignments.
AL-SE-080 Telescopic Leveling Staff (4-Meter)	Heavy-gauge aluminum folding leveling staff with clear, weather-resistant markings in meters and centimeters, complete with a circular bubble level vial.
AL-GY-090 Theodolite Reference Demonstration Model	Fully functional dimensional replica modeling both horizontal and vertical angle-tracking vernier circles for engineering training labs.
AL-SE-105 Plane Table Mapping Outfit (60x75cm)	Premium seasoned teak wood drawing board complete with a heavy adjustable wooden tripod stand, plumbing fork, canvas cover, and metal trough compass box.
AL-SE-060 Land Measuring Chain (Engineer's Chain)	100-foot standard land surveying chain made from heavy galvanized iron wire with solid brass handles and brass tags at every 10-foot interval.
AL-SE-075 Gunter's Surveyor Chain (66-Foot)	Standard historical 66-foot surveying chain divided accurately into 100 links, optimized for classic acreage cross-mapping configurations.

EQUIPMENT CLASSIFICATION		TECHNICAL PARAMETERS & BUILT SPECIFICATIONS
AL-SE-035	Comprehensive Chain and Tape Field Set	Includes one 30-meter steel land chain, 10 marking arrows, a 15-meter reinforced metallic wire tape, a trough compass, and 3 high-visibility steel-tipped ranging rods.
AL-SE-030	Brunton Pocket Transit Compass	Professional solid brass pocket transit compass combining a precise target sighting mirror, fluid-dampened needle, and vertical clinometer scale index.
AL-SE-040	Clinometer Sight Compass (75mm)	Handheld magnetic compass coupled with a gravity-driven vertical pendulum scale for structural pitch, slope tracking, and heights verification.
AL-SE-001	Abney Topographic Hand Level	Compact pocket level combining a sighting tube, indexing arm, and micro spirit level vial to compute vertical slope angles and gradients.
AL-SE-078	Hand Level (Simple Sight Tube)	Fixed optical sight tube with an integrated split-mirror bubble display, built for quick point-to-point elevation alignment loops.
AL-SE-015/3	Digital Handheld Anemometer	Micro-impeller wind speed diagnostic system with real-time digital readouts. Ranges up to 30m/s with temperature and beaufort scale tracking.
AL-GY-050	Orrery Solar System Kinetic Model	Mechanical rotating assembly mapping the orbital trajectories of planets around the central sun, optimized for astrophysical demonstrations.
AL-SE-085	Map Measure Map Rotameter	Mechanical tracing wheel tracker built to measure winding roads and contour pathways directly from topographical scale charts.
AL-GY-200/1	India Wall Map (Political & Physical)	70x100 cm multi-color detailed map, heavy-duty lamination with top/bottom plastic rollers for hanging displays.
AL-GY-200/2	Asia Wall Map (Political & Physical)	Large-format regional structural reference map detailing topographical boundaries and geographical markers.
AL-GY-200/3	World Wall Map (Political & Physical)	Dual-aspect cartographic chart highlighting global borders, mountain ranges, tectonic plates, and ocean currents.