



SNo	Title *purchased with the SUNRAISE financial support	Description	Photo
1.	Computing facility - Workstations	A laboratory with computing facility is developed for the satellite data processing and geospatial analysis. The laboratory has access to all kind of spatial datasets via web-link.	
2.	Handheld GPS	Multiple units of handheld GPS are maintained for the frequent field work wherein geo-tagging is required.	CANALIS CANALI







3.	Military Compass as per MHA	Modern geological compass Rectangular ±1/2° Slop Indicator (3 different scales of angular measurement above and below horizontal: Left: Slope in Degrees, 0-90° Middle) Up to 10x magnification with an adjustable lens.	TO THE STATE OF TH
4.	Brunton Clinometer Compass	Clinometer with 2° resolution for measuring slope angle or gauging heights of passes, peaks or trees Sighting mirror and sighting line integrated with 1° resolution azimuth ring precise readings	PERLINTON PRICEINS INSTRUMENTS INCOLOR BERNATON INCOLOR B







5.	Fisheye Lens (8-15mm F/42)	A DSLR (digital single-lens reflex camera) mountable fish eve lens are available for forest inventory related activities. It is now being also used for the urban fabric composition.	St. 91 ZI OL B
6.	Willey Mills (3SS Sieves)	The Willey mills sieve is available with hard tool steel knives bolted to a removable rotor for preparation of samples for soil and plant (leaves and wood) analysis.	







7.	ý	Multiple digester is available for the Kjeldahl – it breaks downs the bonds that hold the polypeptides together.	-







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8.

Kjeldahl Analytical setup

A complete set-up of Kjeldahl method, is available which is widely used for estimating the nitrogen content of foodstuffs, fertilizers, and other substances, including soil and plant parts.









9.	ORLAB Pusa Kit for Soil Test and Fertilizer	Portable Digital operated with battery/electricity. Multi-Parameter Soil Field Test Kit (pH; Conductivity; OC; N; P and K) and (Zn; S; B; Fe; Mn; Cu; Lime (acidic soils); Gypsum Portable Mini Shaker Programmed STFR Meter and Thermal Printer	
10.	Electronic weighing machine	The weighing scale/machine is widely used for the preparation of solutions for chemical analysis and related experiment.	DOGOO O







11.	Hot Air Oven	Hot air oven is used to sterilize the equipment and other materials that are used in a laboratory. These also being used to use dry heat to sterilize for the soil and plant part analysis.	





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12.

Titration - analytical set-up

Multiple units of Titration analytical set-up with pre-requisite chemicals is available for wide range of experimentation wherein the quantity of a reactant in a sample is to be determined.









Magnetic Stirrer	A stationary electromagnet creating rotating magnetic field is available for the stir bar which is immensely used in liquid, quickly spin, or stirring or mixing a solution.	
	stiffing of infamig a solution.	FAMILIE SARREN
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14.

Distilled Water Plant

Semi-Automatic Water Distillation Unit with capacity of around 5 liters per hour is available working throughout the day and having storage capacity as per requirement.









15.	Soxhlet extraction unit	Soxhlet extraction is used for extracting valuable bioactive compounds (nonvolatile and semivolatile organic compounds from solids such as soils, sludges, and wastes) from various natural sources.	
16.	Color LCD Thermal imager 100000 Pixel	Infrared spectral band from 7.5 μ m to 14 μ m (long wave), Resolution 384 x 288 (110,592 pixels), IFOV with standard lens/spatial resolution 1.91 mRad, Field of View 42° x 30° Temperature ranges from -20 °C to 550 °C with accuracy of \pm 2 °C or 2%, Image format (bmp and/or jpeg with provision to export file formats GIF, PNG, TIFF)	







	17.	Color LCD Touch Display Thermal imager 300000 Pixel	1	
-	18.	Laser Rangefinder/ Hypsometer	Magnification 6x, Linear Field of View 341 feet @ 1000 yds, Angular Field of View 6.5 degrees, Eye Relief 15 mm, Operating ±90° Incline / Decline Range	Forestry Pro II Forestry Pro II Nikon Nikon Forestry Pro II Forestry Pro II





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19.

Digital Handheld **Infrared Thermometer**

Dual laser Class II Large, easy-to-read backlit LCD display for easy viewing; 8:1 Distance to Spot ratio, 59 MAX; Operating Altitude: 2000 m Above mean sea level; Drop Test: 1 m; Protection Class: IP 40; Laser Safety: FDA and EN 60825-1 Class II; Electromagnetic Compatibility



Terms of use: Under the cooperation agreements all equipment and facilities for study and research are provided at no charge; payment for consumables is a subject to additional agreement on a case-by-case basis. Contact information: P K Joshi (Email: pkjoshi27@hotmail.com)





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