

Urban Resilience and Adaptation for India and Mongolia

curricula, capacity, ICT and stakeholder collaboration to
support green & blue infrastructure and nature-based solutions



Equipment Usage Report



Pondicherry University (P13)


Equipment procured
Department of Ecology & Environmental Sciences
Pondicherry University (P13)
Puducherry, India


In the beginning, we conducted a survey to identify the infrastructure gaps that needed to be filled with funding from the Erasmus Plus program. We identified and prioritized the necessary equipment for the benefit of students and scholars in the M.Sc. Ecology, M.Sc. Environmental Sciences, and Ph.D. Ecology & Environmental Sciences programs.


Procurement Process:


Pondicherry University is a Central University, and we follow the Government of India rules and regulations for procuring equipment. The equipment procurement was carried out with the assistance of the Purchase Department of Pondicherry University.

1	Computers (10 Numbers)	 <p>Specifications: HP Core i3-10300, 10th Gen, Integrated Graphic 8GB DDR RAM, 1TB hard disk, 21.5" LED Monitor, Windows 10 Pro 64 bit Operating system.</p> <p>Total Number of Students used: 128</p> <p>Usage: Students from MSc and PhD programs are using the systems for Remote Sensing and GIS courses, Environmental Informatics and modeling courses and Geographical Information System courses.</p>
2	Workstation (1 Number)	 <p>Specifications: HP Z2 G5 Workstation, i7-10 Generation 3290C0PA, 4GB Graphic card, 32 GB DDR RAM, 1TB Hard disk, 23.8" FHD Monitor, Windows 10 Professional 64 bit Operating system.</p> <p>Total Number of Students used: 35</p> <p>Usage: Students from PhD programs are using this workstation for advanced image processing connected to their research work. It is in regular use for Remote Sensing data processing and GIS spatial analysis.</p>

3	UPS (Uninterrupted power supply)	
		<p>Specifications: Numeric 3KVA Online UPS On-finiti with 12V 65 AH Exide Power safe SMF Batter (8 numbers)</p> <p>Total Number of Students used: --</p> <p>Usage: It is installed in the computer lab where the 10 systems and workstation are available. It is in regular use.</p>

4	Podium (Audio facility for the classroom) (1 Number)	
		<p>Specifications: Ahuja Electronic Lectern with three microphone and speakers</p> <p>Total Number of Students used: --</p> <p>Usage: It is installed in the seminar hall – 1. It is regularly used by the faculty members while taking classes. It is in regular used in all seminars, guest lectures and invited talks which are taking place in this seminar hall.</p>

5	A0 Plotter (1 Number)	
		<p>Specifications: Epson SureColor SC- T5430M Plotter – Multifunction Wide Format Plotter Printers</p> <p>Total Number of Students used: 32</p> <p>Usage: It is installed in the computer lab and is being used by students and scholars for taking large size prints of map connected to their research. The maps are more useful for field work and discussion with government officials.</p>

6	Drone (1 Number)	
		<p>Specifications: DOPO- Quadcopter, Dimensions: 800x800x300 mm Propeller Diameter: 18” Maximum Take-Off Weight (MTOW): 4.5 kg (including payload) Compatible Payload: RGB / Multi spectral* / IR Camera* Airframe Material: Carbon Fibre composite + 2024 Grade Aluminium alloy Performance Service ceiling: max 4500m AMSL, restricted to 120 AGL Maximum Endurance: Up to 55 minutes* Maximum Envelope Range: 25 km Speed: Nominal 9 -10 m/s, max 24 m/s Operating envelope: VLOS (BVLOS</p>

	<p>Ready*) Limitations and Meteorological Conditions Head-wind: 12 m/s, Cross-wind: 12 m/s, Gusts: 14 m/s Rain Resistance: Slight drizzle Operating Temperature: -5°C to +50°C. Propulsion System Type: Electric- powered propulsion, BLDC Out-runner pancake motors No. of Motors: 4 (Quad Configuration) Battery Pack Type: ustomized LIPO Capacity: 32,000 mAh, Nominal Voltage: 22.2 v, Discharge Rate: 15C</p> <p>Total Number of Students used: 24</p> <p>Usage: The drone is used to demonstrate the technique of aerial survey, high-resolution image capture in the Remote sensing and GIS course. PhD scholars are well trained to use the drone.</p>
--	---

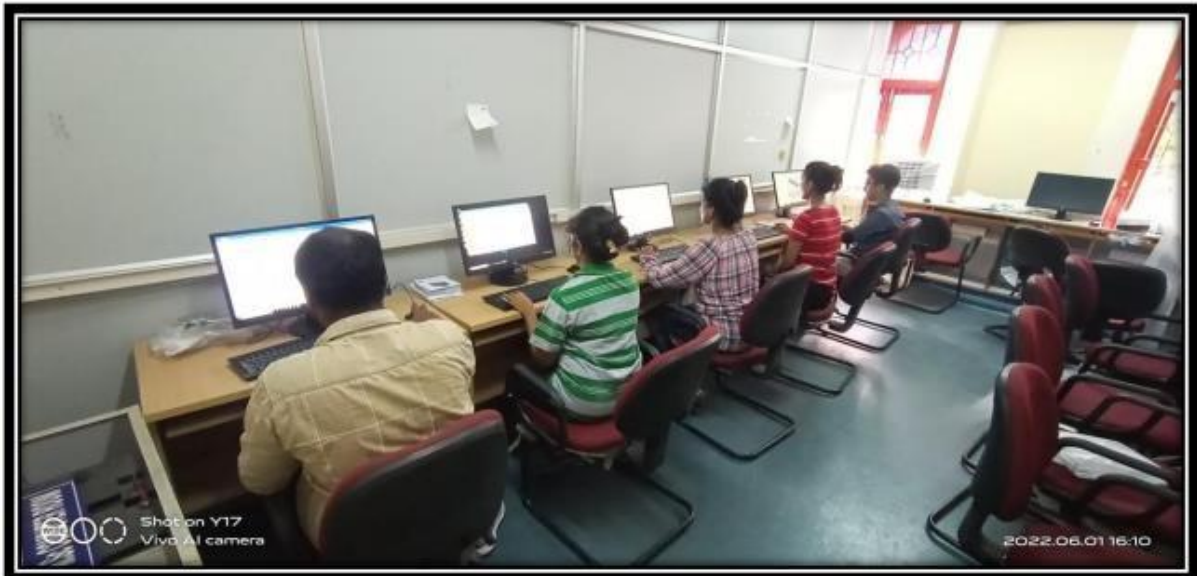
Equipment Usages

All the equipment are in full use by students and scholars of Pondicherry University. The Done is being used by Students.





The computers are in use for the practical of remote sensing and GIS class



The Podium is being used for presentation



The A0 printer is used by the student



Large size maps printed from A0 Plotter

