






## Atal Center for Artificial Intelligence

1	<b>Name of the equipment</b>	Multi-rotor Drone/UAV (Quadcopter)
	<b>Description</b>	<p>It is an imaging drone equipped with HD camera.            Model name: IdeaForge Q4c            Type: Quad-copter            Weight: 3.5 Kg            Wind Resistance: 36 Km/h            Motor: Brushless DC Electric            Cruise speed: 7m/s (25.2 Km/Hr)            Communication range: 2 Kms LOS            Maximum altitude: 200 m AGL            Navigation: GPS waypoint            Camera: HD</p>
	<b>Usage</b>	The drone can be used to remotely capture the images as well video. The UAV captured images have wide application in agriculture, mapping, surveying, aerial photography, etc.
	<b>Photo</b>	
2	<b>Name of the equipment</b>	HP Proliant DL380 Gen 10 Server 1
	<b>Description</b>	<p>Processors: 2x Intel Xeon E5-2665 - 2.40GHz 8 Core CPUs            Memory Configuration: 128GB (16x8GB) PC3-10600R DDR3 Registered            RAID Card: Modular Dell H710 PERC RAID Controller            Power Supplies: 2x 1100W PSU; Remote Access: iDRAC 7 Express            Hard Drive: 12*Empty Drive Tray caddies for 3.5" series            Hard Disk Interface : Serial attached SCSI            Operating System: Windows Server versions 2000            Maximum no of Sockets available: 2            Interface for HDD: SAS            Capacity per SAS Drive: 1200GB            RAID Level : 1            Total Storage capacity offered: 4800GB            Redundant Power Supply</p>
	<b>Usage</b>	For high-end computing

	<b>Photo</b>	
	<b>Name of the equipment</b>	<b>Sprayer Drone</b>
	<b>Description</b>	Hexa-copter, Remote controlled, Capacity: 16L, Uniform Spraying
	<b>Usage</b>	Crop Spraying
	<b>Photo</b>	
	<b>Name of the equipment</b>	<b>Multispectral Camera</b>
	<b>Description</b>	MicaSense RedEdge MX Multispectral camera for drone, Pixel Size 3.5 μm, Resolution 1280x960, Aspect ratio 4:3, Sensor size 4.8mmx3.6mm, Focal length 5.4mm, Blue (475nm), Green (560nm), Red (668nm), Red Edge (717nm), Near Infrared (842nm).
	<b>Usage</b>	To capture UAV based multispectral images.
	<b>Photo</b>	
	<b>Name of the equipment</b>	<b>Thermal Camera</b>
	<b>Description</b>	FLIR TG165-X, 80x60 MSX Thermal Imager, Upto 300°C, Store in JPEG format
	<b>Usage</b>	For water stress measurement in plants, etc.

	<b>Photo</b>	
	<b>Name of the equipment</b>	<b>Workstation</b>
	<b>Description</b>	HP Z2G9 Workstation, i7 12 Gen 2.1 GHz, 32 GB DDR4, 475GB SSD, 1 TB HDD, NVIDIA GeForce RTX 3060, 12 GB GDDR6, Windows 10 Pro
	<b>Usage</b>	Programming
	<b>Photo</b>	