

Photogrammetry & UAV Applications

NESAC has been providing end-to-end UAV services for various user communities in NER region and in the country. NESAC has conducted more than 13 UAV based survey/ project works in the year 2019-20 for different users departments in NER and for various in-house research & development activities. The list of works carried out is listed in the table given below and the deliverables were high-quality products like 3D Mesh, Point Clouds, Digital Surface Models, RGB/MX/Thermal Orthomosaics, etc.

List of survey/ project works:

Sl. No	Survey Area/ Location	User Department
01.	Nongkhra village survey, Nonghpoh, Meghalaya	District statistical office, Nonghpoh & NESAC
02.	Landslide mapping near NEPA, Barapani, Meghalaya	In-house
03.	Inter State Bus Terminal construction of Shillong, Meghalaya under project monitoring system	North Eastern Council (NEC)
04.	Sericulture farm mapping, Tura, Meghalaya	Central Silk Board (CSB) & NESAC
05.	Mapping Nongsder football ground and nearby area, Umiam, Ri-Bhoi, Meghalaya	Village Headman, Nongsder
06.	Water pipeline leakage detection and damage assessment due to the disaster at Kopili	North Eastern Electric Power Corporation (NEEPCO)
07.	Ukhrul(Manipur) to Pftusero(Nagaland) road mapping	Border Roads Organization (BRO) and NEC
08.	Wetland mapping at Umiam lake, Ri-Bhoi, Meghalaya	Department of Forest, Govt. of Meghalaya
09.	UAV survey of diseased tree at Umiam lake using Multispectral camera, Ri-Bhoi	Department of Forest, Govt. of Meghalaya & NESAC
10.	Mapping of Girar ridge, Lalitpur, Uttar Pradesh	State Remote Sensing Application Centre, UP
11.	Community forest and Wetland mapping, West Jaintia Hills, Meghalaya	Wildlife Division, Department of Forest, Govt. of Meghalaya
12.	Agricultural Crop mapping, Ahmedabad(Gujarat) and Vidisha(M.P.)	SAC Ahmedabad & NESAC
13.	Large scale mapping of Nongstoin town for urban planning, Meghalaya	In-house