

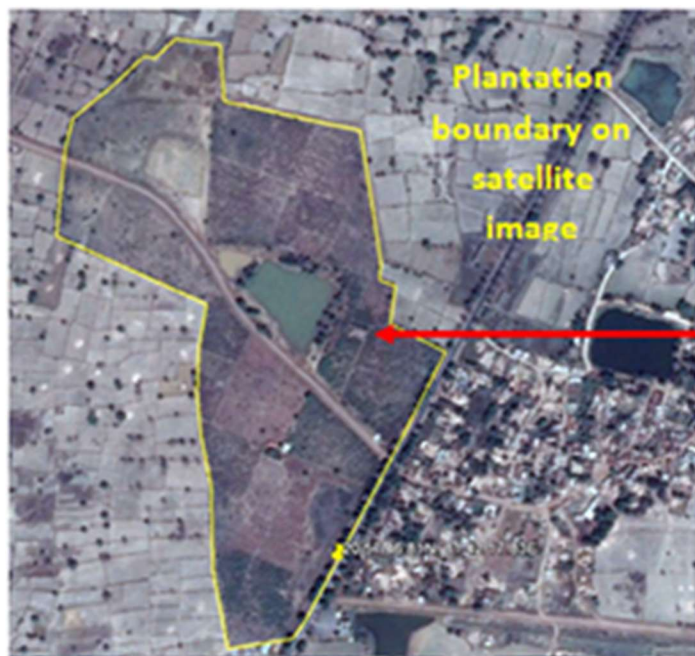
Title of Project:

Application of Geospatial Technology in Mapping of Existing Sericulture Plantation of Janjgir-Champa District of Chhattisgarh

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Scientific Team	Dr. Tisha Dey, Research Associate - 1 Mr. Makhanlal Dewangan, Research Associate - 1
Name of Funding Agency	Directorate of Rural Industries (Sericulture Sectors), Govt. of Chhattisgarh
Tenure of Project	2018-2020

Summary of Project:

Sericulture is an agro-based industry. It involves rearing of silkworms for the production of raw silk, which is the yarn obtained out of cocoons spun by certain species of insects. The Space Technology including Remote Sensing, Global Positioning System (GPS) and Geographical Information System (GIS) are the advanced tools that aid in gathering and updating information and develop scientific management plans. Geospatial techniques can play critical role in mapping the suitable areas for mulberry cultivation. To identify and calculate all sericulture plantation area using satellite data; to demarcate boundary of all existing sericulture plantation area species wise; to record GPS coordinates of all existing plantation area; to capture geo-tagged photographs of all existing and ongoing plantation; to create sericulture plantation geo-database in GIS platform. The system generates reports with satellite images for a particular plot, providing a fair idea of whether the plantation is on-going or not. Such reports are extremely useful for the plots, which are difficult to visit.



Geotagged field photo of plantation

Google Earth showing Geo-tagged image of Arjuna Plantation at Janjgir - Champa District.