

1. Project Title: Tea Area Development and Management using RS & GIS

2. Scope and Objectives: The broad objective of this work is to generate comprehensive geo-spatial database about natural resources of Tea gardens, analysis and development of an information system (*TeaGIS*) for Tea area management and development of the Tea industry. The major objectives of the project are,

- Mapping of Tea growing areas using high-resolution satellite data.
- Mapping of detailed Tea garden land use.
- Identification of degraded Tea areas for uprooting and re-plantation.
- Monitoring uprooting and re-plantation activities.
- Site suitability analysis for new area under Tea plantation in the gardens.
- Water resource available with the Tea gardens.
- Identification of the small Tea growers and generation of database for facilitating Tea Board to provide technical and marketing support.
- Generation of comprehensive database of natural resources and infrastructure of Tea gardens.

3. Centre : North Eastern Space applications Centre (NESAC), Umiam, Meghalaya and Regional Remote Sensing Centre (East), Kharagpur

4. Funding Agency : Tea Board of India.

5. Study Area : 11 districts of Assam (for NESAC)

6. Brief Methodology :

Mapping of Tea growing area in 11 districts of Assam involve digital image processing of high resolution satellite data (Resourcesat LISS IV and CARTOSAT – I) with the help of appropriate image processing software.

7. Data Used : IRS P6 LISS IV (MX)
IRS P5 PAN

8. Status of the Project: Ongoing

9. Utilization of the project output: Output of the project will be used by Tea Board of India for better management of their resources.

10. Duration : Three Years (2009 to 2012)