



चायबोर्डभारत **TEA BOARD INDIA**

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Under Ministry of Commerce & Industry, Department of Commerce, Government of India

www.teaboard.gov.in

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On this significant day, the Tea Board of India entered into a landmark tripartite Memorandum of Understanding (MoU) with the National Remote Sensing Centre (NRSC), Indian Space Research Organization (ISRO), Department of Space (DOS), Government of India, and the National Institute of Technology (NIT), Rourkela. The collaboration marks the launch of an ambitious Research & Development project titled “*चायंकन (CHAAYANKAN): Comprehensive AI-based Geospatial Data Analytics for Tea Plantation Monitoring.*”

The project, scheduled to run from April 2026 to March 2029, will be implemented across major tea-growing regions of the country. Leveraging hyperspectral and optical remote sensing data from satellites and UAVs, combined with ground-based observations, weather inputs, and entomological datasets, the initiative aims to revolutionize tea plantation monitoring through advanced AI/ML methodologies.

The objectives of *CHAAYANKAN* include:

- 1) Development of AI/ML algorithms for automatic mapping of tea-growing areas.
- 2) Detection and automation of biotic and abiotic stress monitoring using hyperspectral data.
- 3) Forecasting of major pests and diseases affecting tea gardens.
- 4) Estimation of green leaf yield through UAV and satellite-based hyperspectral indices.

Tea Board will extend technical and ground-level support through its existing administrative framework, ensuring smooth implementation and integration of field data.

This pioneering initiative is expected to address some of the most pressing challenges faced by the tea industry, including crop stress, pest management, and yield estimation. The technological interventions will not only enhance productivity and sustainability but also create a robust data repository to guide future policy decisions. By embracing cutting-edge geospatial analytics and AI-driven solutions, the Tea Board reaffirms its

commitment to modernizing the sector and strengthening India's position in the global tea economy.



Exchange of Memorandum of Understanding (MoU) with Tea Board India, the National Remote Sensing Centre (NRSC)-Indian Space Research Organization (ISRO), Department of Space (DOS), Government of India, and the National Institute of Technology (NIT), Rourkela on 27.08.2026