



सीएसआईआर-हिमालय जैवसंपदा प्रौद्योगिकी संस्थान  
पालमपुर – 176 061 (हि.प्र.)  
**CSIR-Institute of Himalayan Bioresource Technology**  
**Palampur – 176 061 (H.P.)**



CSIR-IHBT invites Expression of Interest (EOI)  
for

**“Development of a Portable Chlorophyll Estimation Device”**

CSIR-IHBT invites expressions of interest from companies, research institutions, and technology developers for the development of a portable chlorophyll estimation instrument based on our spectral reflectance-based chlorophyll prediction model.

**About Our Technology**

Our spectral model accurately predicts leaf chlorophyll content using reflectance values recorded from plant leaves at two specific wavelengths. This model has been successfully validated using spectroradiometer-acquired spectral data and laboratory-estimated chlorophyll values, achieving an impressive 92% predictive accuracy. We aim to develop a compact, field-deployable device that Measures leaf reflectance at the identified two key wavelengths, applies our established mathematical model for real-time chlorophyll estimation, and displays the chlorophyll content directly on the device’s screen.

**We welcome interest from:**

- Instrument manufacturers and hardware developers
- Sensor and optical device developers.
- Research labs and startups working in plant physiology, precision agriculture, or remote sensing

**Innovation Partnership**

Interested parties will have access to our validated spectral model and dataset to develop the instrument. This collaboration could lead to commercial production of a novel, user-friendly tool for precision agriculture, forestry, and ecological monitoring.

Application should include details of company profile and marketing strategies. The selected parties shall be called for discussions. Interested parties may send their Expression of Interest, in a sealed cover superscripting “Expression of Interest” addressed to

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**OR**

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