

# Seed Testing Laboratory

PLANTICA- Indian Academy of Rural Development (IARD)

(Recognized by Sri Dev Suman Uttarakhand University and Kumaun University, Govt. of Uttarakhand)

ISO 9001:2015 Certified Organization

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**PLANTICA- Seed Testing Laboratory** is a specialized facility located in Banjarawala, Dehradun, Uttarakhand, offering a comprehensive range of tests to assess the health and quality of seed. This laboratory plays a crucial role in supporting agricultural practices, environmental monitoring, and research initiatives by providing accurate and detailed analyses.

**Dr. Vinay Chamoli, Scientist and In-Charge: Seed Testing Laboratory,**  
**Contact: +91 82184 54644 / +91 95480 55290**

The laboratory offers a variety of tests tailored to the needs of farmers, researchers, and environmentalists. Here are the key testing services available at PLANTICA:

## Seed Testing

**1. Purity Testing:** To determine the percentage of pure seed in a sample, excluding inert matter and other crop seeds.

**2. Germination Testing:** To assess the ability of seeds to sprout and develop into healthy plants.

**3. Viability / Tetrazolium Test:** This biochemical test assesses seed viability by staining living tissues of seeds with a colorless compound that turns red in the presence of dehydrogenase enzyme activity.

**4. Vigor Testing:** To evaluate the potential for rapid and uniform emergence of seedlings under a wide range of field conditions.

**5. Health Testing:** To detect the presence of seed-borne pathogens, pests, or diseases.

**6. Moisture Content Testing:** To measure the moisture content of seeds, which is crucial for storage and longevity.

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Date: 01 April, 2024

## **Seed Testing Charges w.e.f. 01 April, 2024**

S.N.	Material Type	Charges Per Sample (Rs.)	
		Individual Test	Complete (All) Tests
1.	Purity Testing	300/-	2000/-
2.	Germination Testing	500/-	
3.	Viability / Tetrazolium Test	500/-	
4.	Vigor Testing	300/-	
5.	Health Testing	500/-	
6.	Moisture Content Testing	300/-	

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**(Dr. Vinay Chamoli)**  
Scientist  
In-Charge Seed Testing Laboratory

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**(Dr. Anoop Badoni)**  
Director  
PLANTICA- IARD