

## **Professional Service Functions**

ICAR encourages researchers to participate in collaborative work and extend services to external agencies as per the established framework of professional service functions. Under this framework, ITMU process professional service requests such as contract service, contract research, consultancy and training, regularly. Every year, more than 200 professional service functions requests are processed at ITMU.

- Contract Research (Paid up trials) for new products developed for a specified season and crop: Evaluation of the bio efficacy and phytotoxicity of plant protection chemicals on diseases of different crops, Isolation and Standardization of SSR markers, Evaluation of nutrient based formulations on growth, yield and quality of crops and Residue and dissipation study of pesticides and insecticides in fruits and soil after application.
- Contract Service (Testing of samples) - Testing of seed samples for virus, pathogens and insects on specified crops, Issuing phyto-sanitary certificates for exporting consignments, Testing of plant tissue culture and soil samples for plant parasitic nematode, Testing of new molecules or concept testing inclusive of analyses of biological markers in the genome, DNA finger printing etc, Analysis of quality parameter of fruits and vegetables TSS, pH, Titrable acidity, Total carotenoids and Lycopene etc.
- Consultancy Service-(Field visits) Inspection of seed production area and issuing phytosanitary certificate to private clients, Field visits and providing consultancy on different aspects production and pest and disease management, Field visit and evaluation of hybrids, Lectures on horticulture crop production, pest and disease management.
- Training-Imparting specialized training to post graduate and doctoral students and to clients/companies based on specific requests.