

Prof. Murtaza Hasan

- **Designation:** Principal Scientist, Centre for Protected Cultivation Technology (CPCT), IARI, New Delhi.
 - **Division / Specialisation:** Soil and Water Conservation Engineering (within CPCT)
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Educational Background & Experience

- Ph.D. in Agricultural Engineering, from IARI, New Delhi.
 - Over **21 years of combined experience** in research, teaching and training — including about **6 years working on international projects**.
 - International training / fellowship: Received fellowship from MASHAV (Israel) and funding from the World Bank for post-doctoral/assignments in Israel & Spain.
 - Earned a diploma from ETIFA Novadades Agricolas, Spain.
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Research Areas & Expertise

Dr. Hasan specialises in:

- Protected-cultivation technologies (greenhouses, net-houses, hydroponics, etc.)
 - Water-resource management in horticulture / protected cultivation — including drip irrigation, fertigation, soil & water conservation engineering
 - Vertical farming / smart farming / precision agriculture methods for horticultural crops.
 - Hydroponics cultivation of vegetables and horticultural crops under protected environments.
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Selected Contributions & Publications / Technical Output

- Lead / contributed to technical bulletin “**Hydroponics Technology for Horticultural Crops**” — published by CPCT-IARI (Tech. Bull. TB-ICN: 188/2018)
- Co-authored peer-reviewed research such as “**Effects of mulching and irrigation levels on greenhouse capsicum (*Capsicum annuum*)**”, demonstrating water saving and yield improvement under greenhouse cultivation with plastic-mulch + drip/fertigation.

- Has published **100+ research papers, technical articles, extension reports, bulletins, seminar proceedings** in the domains of protected cultivation, soil/water management, and related technologies.
 - Has guided many students — reportedly supervised Master’s and PhD research works under his supervision at IARI.
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Projects, Extension, and Professional Service

- Coordinated around **15 national & international projects** (as PI or Co-PI) funded by agencies including DST, World Bank, ICAR — focusing on protected cultivation and water resource / irrigation management.
 - Active extension & outreach: delivered **50 + live/recorded programmes** on television (e.g. national Doordarshan, DD Kisan) for greenhouse farming, drip fertigation, water management, protected / peri-urban cultivation.
 - Technical expert / member of national bodies & committees: e.g. under DST-TIFAC (GOI), National Water Mission (Ministry of Water Resources), Bureau of Indian Standards (BIS), National Horticultural Board (NHB), contributing to policy / standard-setting in protected cultivation & water management.
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Awards & Recognitions

- Recipient of the **Dr. Rajendra Prasad Purasakar, 2022** (ICAR) for his technical book “Greenhouse Farming” in Hindi.
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Contact / Institutional Address (via IARI)

- Centre for Protected Cultivation Technology (CPCT), ICAR-IARI, Pusa, New Delhi – 110012, India.
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