INFORMATION BROCHURE

ICAR-SPONSORED TRAINING PROGRAMME

ON

Precision and Eco-Safe Weed Management for Climate Resilient Farming Systems

08 January - 28 January 2027

Course Director
Dr. Ramanjit Kaur, Principal Scientist

Course Coordinators
Dr. Teekam Singh, Principal Scientist
Dr. RS Bana, Principal Scientist
Dr. Rishi Raj, Senior Scientist



DIVISION OF AGRONOMY
ICAR-INDIAN AGRICULTURAL RESEARCH INSTITUTE
NEW DELHI 110 012

Application form for participation in training program

(***To be sent to the Course Director/Coordinator of the Training Program***)

1. Full name (in block letters):
2. Designation:
3. Present employer and address:
4. Address for correspondence (E-mail, Tel. / Mobile No.):
5. Permanent address:
6. Date of birth:
7. Sex: Male/Female
8. Marital status: Married/unmarried
9. (a)Teaching/research/professional experience
   (Mention posts held in last 5 years):
   (b) Present area of research and number of publications:
10. Registration fee of Rs. 50/- (DD/Postal Order No…… dated…… (in favour of Director, ICAR-IARI, New Delhi) (non-refundable)
11. Relevance of training to applicant's present academic and research activities:
12. Signature of applicant (indicate name of place and date):
13. Recommendation of the forwarding Institute (signature with date, designation / address):

CERTIFICATE

It is certified that the above information was furnished as per the office record and was found correct.

(Signature and designation of the sponsoring authority)

How to apply?

Application for participation in the Training Program may be made in the prescribed format as given herewith and forwarded by the competent authority of the SAU/ICAR Institute where the candidate is employed. The final selection will be made only if the application duly recommended by the competent authority is received, which must not be later than one week after the closing date. The closing date for receipt of applications is **10.12.2026.** The selected candidates will be intimated by **20.12.2026.**

About the Training Program

This training module focuses on precision and eco-safe weed management strategies to enhance crop productivity, resource use efficiency, and environmental sustainability under changing climatic conditions. Participants will learn site-specific weed management, integrated weed management (IWM), precision herbicide application, herbicide resistance management, conservation agriculture-based weed control, and the use of drones, sensors, and remote sensing for weed monitoring. The programme includes expert lectures, practical demonstrations, and field visits to provide hands-on experience with modern weed management technologies, enabling participants to develop sustainable, climate-resilient, and economically viable weed management practices for diverse farming systems.

Location and Climate

The ICAR–Indian Agricultural Research Institute (ICAR-IARI), New Delhi, popularly known as the Pusa Institute, is India's premier institution for agricultural research, education, and extension. The Institute is dedicated to advancing agricultural science through innovative research, human resource development, and the development of technologies and policies that promote sustainable agricultural growth. The **Division of Agronomy**, one of the oldest divisions of ICAR-IARI, has played a pioneering role in teaching, research, extension, and capacity building. It has made significant contributions to the development of improved crop production technologies, including those that supported the Green Revolution in India.

ICAR-IARI is located about **8 km from New Delhi Railway Station** and **10 km from the Maharana Pratap Inter-State Bus Terminus (ISBT)**. During the training period (8-28 January), Delhi experiences cool winter weather, with temperatures generally ranging between **5°C and 15°C**.

Course Contents

The course covers the principles and practices of precision and eco-safe weed management for climate-resilient farming systems. Topics include weed biology and ecology, crop–weed competition, weed identification, and the impact of climate change on weed dynamics. Participants will learn integrated weed management (IWM) approaches combining cultural, mechanical, biological, and chemical methods to achieve sustainable weed control. The programme also covers precision weed management technologies, including sensor- and drone-based weed detection, remote sensing, GIS, decision support systems, and site-specific herbicide application. Emphasis will be given to herbicide stewardship, resistance management, conservation agriculture-based weed management, crop residue management, and reducing environmental risks through judicious herbicide use. Practical sessions will provide hands-on experience in weed identification, herbicide calibration and application, precision tools, and field demonstrations. Expert lectures, interactive discussions, and exposure visits will enable participants to understand and adopt innovative, resource-efficient, and environmentally sustainable weed management strategies for improving productivity and resilience in diverse cropping systems.

Eligibility

The training programme is intended for scientists, teachers, and extension personnel working in ICAR institutes, State Agricultural Universities (SAUs), Agricultural Colleges, Krishi Vigyan Kendras (KVKs), and other organizations engaged in agricultural research, education, and extension. Professionals from Agronomy, Soil Science, Agricultural Physics, Plant Physiology, Entomology, Plant Pathology, Organic Agriculture, Agroforestry, Agricultural Engineering, and other related disciplines are eligible to apply. A maximum of **25 participants** will be selected by the Screening Committee in accordance with ICAR guidelines. The decision of the Selection Committee regarding the selection of participants shall be final, and no correspondence concerning the selection or non-selection of applicants will be entertained.

Travel, Boarding and Lodging

Boarding and lodging expenses of the selected participants will be met from the funds provided by ICAR, as per the prevailing norms and operational guidelines for organizing HRM training programmes. Travelling Allowance (TA) will be admissible for the shortest route between the participant's place of duty and the training venue, and the expenditure will be borne by the sponsoring (Parent Institute) organization. Participants will be provided shared accommodation in the Institute's Sindhu Guest House or other designated guest house, subject to availability.

Correspondence should be directed to:

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For more information, please contact

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