

Krishi Machinery Mahotsava 2024 Technology and Machinery Demonstration

कृषि मशीनरी महोत्सव 2024
प्रौद्योगिकी और मशीनरी प्रदर्शन

(A Program under Unnat Bharat Abhiyan of Govt. of India)



16 - 18 February 2024

Organized by

Agricultural and Food Engineering Department
Indian Institute of Technology Kharagpur
Kharagpur, West Bengal – 721 302

About IIT Kharagpur

Indian Institute of Technology Kharagpur (IIT KGP) is a premier institute of the country established in 1951 to train engineers and researchers. It is the first IIT which was created by the Government of India and has recognized as an institute of national importance. It offers bachelors, masters and doctoral degrees in various areas under different departments, centres, and schools.

During the Eighties, a significant change in UG and PG academic programme was made. The 5-years UG course was changed to 4 years. In 1982, the Sponsored Research and Industrial Consultancy (SRIC) cell of the institute was established to act as the conduit for industrial interaction and faculty participation in sponsored research. The main aim of the cell is to prepare and enable the technology roadmap of the institute by interfacing with the industry, various ministries, peer academic institutions and R&D laboratories, and monitor the execution of the numerous sponsored R&D and consulting activities of the institute. Regional Remote Sensing Center was established at IIT KGP in 1984 to build infrastructure for servicing and training remote sensing in the country. In 1986, the Science and Technology Entrepreneurs' Park (STEP)/Technology Business Incubation (TBI) was set up with a vision to provide incubation support to entrepreneurs to initiate their venture and to market industrial products using newer science and technology. Center of Education Technology was set up in 1987 to initiate and coordinate projects of IITs in the emerging areas of (a) Education technology, (b) Telematics, and (c) Informatics.

Several cutting-edge interdisciplinary research are being carried out in multiple domains including Precision Agriculture, Digital Convergence, Advanced Manufacturing, Medical Technology and affordable healthcare, Transportation technologies, Smart infrastructural design, monitoring, and sustenance, Geoscience for future of earth, Food Technology, Energy Science, Rural Technological Innovations, Climate Change, Bioscience, and Data Science.





IIT Kharagpur



Specializations

Mission:

Sustainable food production through precision agriculture and mechanized food processing and capacity building of rural people through technology transfer, training, skill development and extension education

AgFE

Farm
Machinery
and Power

Land and
Water
Resources
Engineering

Agricultural
Systems and
Management

Aquacultural
Engineering

Food Process
Engineering

Agricultural
Biotechnology

About "Krishi Machinery Mahotsava"

As a part of **Unnat Bharat Abhiyan** of Govt. of India, the Agricultural and Food Engineering Department of Indian Institute of Technology Kharagpur is organizing '**Krishi Machinery Mahotsava**' on Technologies for Skill Development & Entrepreneurship during 16-18 February 2024. It has been organized annually since 1991 with the name of "Krishi Mela".

IIT Kharagpur is surrounded by villages and it has a commitment to improve the lives of the people around. By keeping this point in mind, progressive farmers & rural youths of West Bengal, Odissa, and Jharkhand will be invited to attend the workshop. Activities would include Interactive sessions/Group discussions, Training programs on Operation & Maintenance of Farm machinery (production & post-harvest), Food processing technologies, Fish feed making, Green house technology, Vermicomposting & organic farming, Soil testing etc..

6

Specializations

37

Faculty Members

~700

Students

कृषि मशीनरी महोत्सव 2024 प्रौद्योगिकी और मशीनरी प्रदर्शन

Krishi Machinery Mahotsava 2024 Technology & Machinery Demonstration

16 - 18 February 2024

This event has been organized annually since **January 1991**

Farmers Participation: **About 300 Farmers per year in the event**

Training Programs: **24 Training Programs in Three Days**

Industry Participation: **5 Major Tractor and 12 Agri-Machine Industries**



Smart Sprayer for
Orchards



Combination Tillage



Variable Fertilizer Drill



Agricultural Drone

List of Important Technologies for Demonstration

- Laser Land Leveler
- Combination Tillage Implements
- AI based Farmer Advisory System for Land Preparation
- Sugarcane Bud Cutter cum Planter
- Ultrasonic Sprayer for Orchard Crops
- Agricultural Drone for Spraying
- Inter and Intra Row Weeder
- Self-Propelled Chilli Harvester
- Autonomous Ground Vehicle for Crop Health Monitoring
- Agricultural Robot for Spraying
- Hydroponics and Vertical Farming
- Smart Micro-Irrigation Systems
- Honey Bee Keeping
- Mushroom Cultivation

List of Agricultural Machines for Demonstration

- Reversible Mould Board Plough
- Self-propelled Paddy Transplanter
- Drum Seeder
- Power Weeder
- Vertical Conveyor Reaper
- Manual Paddy Thresher
- Multi-crop Thresher
- Potato Planter (Tractor operated)
- Potato Digger
- Raised Bed Planter
- Groundnut Digger



Skill development; Safe and sustainable agriculture; Agricultural entrepreneurship; AI in Agriculture; Increased farmers' income

**कृषि मशीनरी महोत्सव 2024
प्रौद्योगिकी और मशीनरी प्रदर्शन**

**Krishi Machinery Mahotsava 2024
Technology & Machinery Demonstration**

16 - 18 February 2024



Chief Guest

Shri Arjun Munda

Hon'ble Minister
Ministry of Agriculture and
Farmers' Welfare, and
Ministry of Tribal Affairs
Government of India

Organizing Committee:

**Chief Patron: Prof. Virendra Kumar Tewari, Director, IIT
Kharagpur**

Patrons: Prof. A. Patra, Deputy Director, IIT Kharagpur

Prof. Rintu Banerjee, Dean R&D, IIT Kharagpur

**Chairman: Prof. M. K. Jha, Head, AgFE Department, IIT
Kharagpur**

**Convenor: Prof. H. N. Mishra, Professor, AgFE Department, IIT
Kharagpur**

**Co-Conveners: Prof. Peeyush Soni and Prof. Rajendra
Machavaram**

Treasurers: Prof. Somsubhra Chakraborty and Mr. Rohit