



# beejki baat

voice of the seed

**EDITION JULY 2024**



**Raghavan  
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Executive Director**

Greetings,

Welcome to this month's edition of BeejKiBaat. In July, we explored transformative steps in India's horticulture sector, highlighting new high-yield crop varieties. The future of gene-editing technology in Indian agriculture is promising, with efforts to replace crop chemicals and enhance sustainability. Punjab has seen a 15% rise in the area under direct-seeded rice, and innovative AI-based traps are being deployed to detect pink bollworm in cotton farms. Globally, advancements in gene editing are disaster-proofing crops, combating diseases like wheat "cancer," and developing seedless blackberries. Additionally, we discuss the seed industry's top expectations from the Union Budget 2024. FSII has also conducted a brainstorming session on public-private partnerships in agriculture: A Way Forward. Join us as we delve into these exciting agricultural developments and more.

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**INDIA**



### **Five steps to turnaround India's horticulture sector**

Simon Wiebusch from Bayer CropScience outlines the path for India to achieve its potential in horticulture sector.

[Read full article...](#)



**[PJ TSAU releases high-yielding crop varieties](#)**



**[Future of GE d tech in Indian Agriculture](#)**



**[Replacing crop chemicals by using gene-editing and other new breeding techniques](#)**



[Min: 15% rise in area under direct-seeded rice in Punjab](#)



[Govt may revive technology mission on cotton, allocate ₹500 cr to roll out 5-year scheme](#)



[ICAR to detect pink bollworm using AI-based traps on Punjab cotton farms](#)

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## GLOBAL



### How crops are being disaster-proofed

Gene editing, in comparison to GMOs, involves removal of small DNA sections, in an acceleration of processes that could have occurred naturally (over a much longer timeframe). Gene-edited crops are now legal in countries including England and Kenya.

[Read full article...](#)





[Chinese researchers use gene editing to combat wheat “cancer”](#)



[Boosted Breeding and beyond: 3 tech trends that could end world hunger](#)



[Seedless Blackberry developed using CRISPR](#)



[One-third of greenhouse gas emissions come from agriculture](#)



[Philippines Clears Gene-edited Bananas Developed to Reduce Food Waste](#)



[Innovation in Seed Production](#)

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**RESEARCH**



### **Italy Launches First Field Trial of Gene-Edited Risotto Rice**

Researchers from the University of Milan have initiated Italy's first field trial of gene-edited crops. Small fragments of DNA were removed from an elite variety of rice commonly used in risotto to enhance its resistance against the rice blast disease, a severe threat to cereal crops globally.

[Read full article...](#)



**[Genes from old wheat can help the new](#)**



**[Reduction of very long-chain fatty acids \(VLCFAs\) in peanut](#)**



**[TATSI Technology to Accelerate Gene Editing](#)**



**Camelina with Higher Oil Content**



**Gene editing used to alter photosynthesis for the first time**



**Researchers Improve Biotic Stress Tolerance of Cotton**

**FSII In News**



**SEED INDUSTRY'S TOP EXPECTATIONS FROM THE UNION BUDGET 2024**

**FSII ED, MR. RAGHAVAN SAMPATHKUMAR, LIVE ON @TV9BHARATVARSH**



**FSII MEMBERS IN NEWS SHARING THEIR EXPECTATIONS & INSIGHTS ON THE UNION BUDGET 2024**

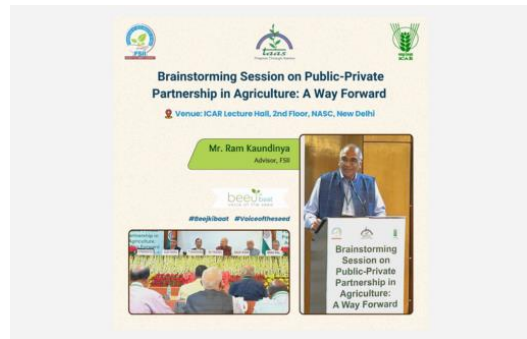


**STRONG PUBLIC-PRIVATE PARTNERSHIPS ARE INEVITABLE TO CREATE A RESILIENT AGRI-FOOD SYSTEMS IN INDIA**

**From The Secretariat**



**INTERACTION OF THE CROP SCIENCE DIVISION & INDUSTRIES**



**BRAINSTORMING SESSION ON PUBLIC-PRIVATE PARTNERSHIP IN AGRICULTURE: A WAY FORWARD**





**A ROADMAP FOR REVITALIZING INDIAN AGRICULTURE**



**FSII MEMBERS AT THE INDUSTRY CONSULTATION FOCUSED ON COTTON TECHNOLOGY MISSION**

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