PROPOSED TOPICS FOR ‘TECHNICAL SEMINAR 2024’

1. Cotton Farming in the Digital Era: A Paradigm Shift
2. Unveiling the Potential: Gene Editing in Cotton Farming
3. Advancing Sustainability with Nano-fertilizers and Nano-pesticides
4. Blueprint for Carbon-Neutral Cotton Cultivation
Cotton Farming in the Digital Era: A Paradigm Shift

- Digital transformation with AI and data-driven precision.
- Technologies optimize planting, irrigation, pest control, and disease prediction.
- Enhancing efficiency, sustainability, and yields while reducing resource usage.
- Speakers present cutting-edge AI and digital advancements for cotton farming breakthroughs.
Unveiling the Potential: Gene Editing in Cotton Farming

• Gene editing transforms cotton farming via precise genetic modification.

• Benefits include pest resistance, fiber quality, disease resistance, and sustainability.

• Ethical, regulatory, and social considerations crucial for responsible use.

• Speakers explore gene editing's potential for enhanced cotton traits and address ethical and regulatory concerns.
Advancing Sustainability with Nano-fertilizers and Nano-pesticides

- Nano-technologies, including nano-fertilizers and nano-pesticides, revolutionize cotton farming.
- Nanomaterials improve nutrient delivery and pest control, enhancing crop yield and reducing environmental impact.
- Nano-fertilizers promote efficient nutrient absorption, reducing waste and boosting productivity.
- Nano-pesticides offer precise, controlled release, minimizing environmental harm and chemical use.
Blueprint for Carbon-Neutral Cotton Cultivation

- Carbon-neutral farming balances emissions with carbon absorption.
- Achieved through sustainable practices, resource optimization, and offsets.
- Crucial for climate mitigation and environmental stewardship in cotton farming.
- Experts present strategies for reducing emissions and achieving carbon neutrality.