



# BOOK OF ABSTRACTS

## THEME

**"Innovations for a Resilient and Sustainable Cotton Production and Viable Value Chain"**

**Venue:**

**ICAR-CIRCOT, Mumbai**

**December 06-08, 2023**

## Organizers



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# Ninth Asian Cotton Research and Development Network (ACRDN) Meeting

ICAR-CIRCOT, Mumbai, December 06-08, 2023

Theme

*"Innovations for a Resilient and Sustainable Cotton Production and Viable Value Chain"*

## Book of Abstracts

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## ***Ninth Asian Cotton Research and Development Network (ACRDN) Meeting***

*ICAR-CIRCOT, Mumbai, December 06-08, 2023*

### ***Theme***

***"Innovations for a Resilient and Sustainable Cotton Production and Viable Value Chain"***

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## Preface

The Asian Cotton Research and Development Network (ACRDN) was established by International Cotton Advisory Committee (ICAC), Washington, DC, USA in 1999 to foster the regional cooperation in the cotton research among the Asian nations. In the recent years the Asian region has emerged a vibrant hub of cotton production, processing, consumption and trade. China, India, Pakistan & Uzbekistan, four major cotton growing countries in the region, together account for 56% of the world's cotton acreage and 51.4% of the production. Seven Asian nations viz., China, India, Pakistan, Bangladesh, Vietnam, Uzbekistan and Indonesia together consume 80.6% of the total cotton produced in the world and convert them into value added products. China, Bangladesh, India & Vietnam, the largest Textile and Apparel exporting countries from Asia, along with Turkey account for 52% of the World textile and apparel exports.

The cotton producing countries of the region face several common challenges, the foremost being climate change, fluctuations in production, resurgence of pests and diseases, deterioration in soil health, challenges in mechanization and access to latest products and technologies, rising production costs and declining profits are some major production related challenges. On the processing front, issues of fibre quality, contamination, trash content, traceability, circularity and sustainability vis-a-vis synthetic fibres are major global concerns. The ACRDN provides a wonderful platform to meet and deliberate on these issues and evolve joint strategies to resolve for an improved cotton sector in the region. Till date, eight network meetings have been held in Pakistan (1999), Uzbekistan (2002), India (2005), China (2008), Pakistan (2011), Bangladesh (2014), India (2017), and Uzbekistan (2019).

The Indian Society for Cotton Improvement (ISCI) Mumbai, India in collaboration with International Cotton Advisory Committee (ICAC), Washington DC, ICAR-Central Institute for Cotton Research (CICR), Nagpur, ICAR-Central Institute for Research on Cotton Technology (CIRCOT), Mumbai and Indian Fibre Society, Mumbai is organizing the 9<sup>th</sup> Asian Cotton Research and Development Network (ACRDN) meeting and international conference at Mumbai, Maharashtra, India during Dec 06-08, 2023 with a pertinent theme “***Innovations for a Resilient and Sustainable Cotton Production and Viable Value Chain***”. This is a befitting event to heralds the inauguration of the centenary year celebrations of ICAR-CIRCOT, Mumbai and also commemorate the golden jubilee of ISCI.

The 9<sup>th</sup> ACRDN Meeting and the International conference has organised the discussions of about 184 abstracts in seven major sub-themes. Besides, the ACRDN meet also has plenary talks from eminent persons in the cotton fraternity on the latest developments on global front. The meet also hosts couple of Special lectures from eminent personalities.

The organizing committee is extremely grateful to all the speakers and authors for contributing their abstracts and participating in the ACRDN Conference. We thank the members of the editorial team and publication committee for their assistance in compiling and editing the abstracts. The contribution of all those whose were involved in bringing out this “*Book of Abstracts*” is gratefully acknowledged.

Organizing Committee

9<sup>th</sup> ACRDN Meeting & International Conference



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