



Cotton Development Activities of CITI – CDRA

“Contributing more than 50 Years of Service to the Industry & Nation”



Discussion Points

- 1. Introduction to CDRA**
- 2. Agencies Involved**
- 3. 52 Years Journey of CITI-CDRA**
- 4. CITI CDRA Projects**
 - (A) Collaborative Project
 - (B) Special Project on Cotton
 - a) Project Implementation area
 - b) IT Portal development
- 5. Steps towards Sustainability and Regenerative Farming**

Formation and Objectives

- CITI-CDRA (Cotton Development and Research Association), is registered under the Bombay Public Trust Act, 1950 with the Charity Commissioner of Maharashtra (Registration no. F 1955 (MUMBAI)).
- **The main objective of CITI-CDRA is to:**
 - Undertake cotton research & development
 - Carry on scientific research on enhancing cotton production and productivity
 - Promote extension activities with latest technologies & good agricultural practices to enhance quality and yield of cotton.
 - Stakeholders engagement program in cotton value chain

Activities

- Since its inception, the CDRA is engaged in imparting training to cotton growers through awareness camps, Field Trainings and Kisan melas on:
 - *Latest technical knowhow and improved agronomic practices*
 - *Sustaining increase in production and mass awareness campaigns*
- Cotton collaborative project to enhance yield in Lower Rajasthan, Maharashtra & M.P.
- Front Line Demonstration programs on production technologies and integrated pest management.
- Promotion of Extra-long staple cotton to bridge the gap between its demand & supply in the country

2. CITI-CDRA – Agencies



- Ministry of Agriculture and Farmers Welfare, Govt. of India.
- Ministry of Textiles, Govt. of India.
- ICAR – Central Institute for Cotton Research, Nagpur.
- State Agriculture Department of Rajasthan, Maharashtra & Madhya Pradesh
- Krishi Vigyan Kendra.
- Agriculture Technology Management Agency (ATMA).
- Agriculture Research Stations of the State Agriculture Universities.
- Zilla Parishad of the concerned district
- Rajasthan Textile Mills Association.
- Mill Owners Association, Mumbai.
- Madhya Pradesh Textile Mills Association.
- South Asia Biotechnology Centre.

3. 52 Years Journey of CITI-CDRA



- Established in the year 1970, the Cotton Development and Research Association (CDRA) is aimed at strengthening the cotton value chain by involving various stakeholders.
- Initially, the emphasis of CDRA was on the Research of varieties/hybrids which would meet the requirements of the industry for finer counts and increase the production and productivity of the cotton.
- However, after the implementation of the Technology Mission on Cotton (TMC) by the Government of India in 2000, the CDRA withdrew from the research work and concentrated on extension work in various cotton-growing states of the country.
- At present, CDRA is carrying out its activities in the states of Rajasthan, Maharashtra, and Madhya Pradesh in association with various Regional Textile Mills Associations.

CITI CDRA is implementing two major projects namely:

A. Collaborative Project

- Since 2006.
- In Maharashtra, Rajasthan and Madhya Pradesh
- Through CSR funds.

B. Special Cotton Project

- Since March 2023.
- In Maharashtra, Rajasthan and Madhya Pradesh.
- Sponsored by MoA&FW and MoT under NFSM.

A. Collaborative Project



- The year 2023-24 of CITI-CDRA extension activities is the 17th year in Rajasthan, 9th year in Maharashtra and 7th year in Madhya Pradesh.

State	Number of Districts	Number of Clusters	No. of Villages	Area (ha)	Number of farmers
Maharashtra	5	15	238	32171	20166
Rajasthan	2	6	135	5000	7880
Madhya Pradesh	4	18	203	72800	64530
TOTAL	11	39	576	109971	92576

OBJECTIVES:

- Adopting the latest technologies to improve productivity and reduce the cost of cultivation.
- Encouraging for adoption of integrated plant protection (IPP) and integrated nutrient management (INM) measures by the large no. of farmers
- Promoting Good Agricultural Practices (GAPS) for enhancing yield, reducing costs of production, and increasing cotton farmer's income.

A. Collaborative Project



- Creating mass awareness regarding Pink Boll Worm attack on cotton Crop, its control, and also safe use of pesticides.
- Method demonstration on Biopesticides.
- Women empowerment and improving income generation.
- Encouraging Kitchen gardening, intercropping and Border planting for improving the farmers nutrition uptake.

A. Collaborative Project - Glimpses



Farmers Field Trainings



Micronutrient supply and application



Introduction of Mycorrhiza



PB Knot Technology – Bandhan Project



Demonstration with Organic Products(ZYDEX)



Kisan mela

A. Collaborative Project



Achievements:

- As a result of CITI-CDRA project activities, the average yield of seed cotton in project areas is found to be higher by about 16.7 to 20 % as compared to the yield of non-project areas.
- Increase in the yield from 212 kg/ha in 2008-09 to about 940 kg/ha in 2021-22 in the project areas of Rajasthan.
- National awards to CITI CDRA Project farmers for highest Cotton production(yield) in India.



Introduction:

- a) Ministry of Textiles and Ministry of Agriculture sponsored, an Extension project in a cluster based and value chain approach to boost cotton productivity in Public Private Partnership (PPP) mode with the participation of ICAR-CICR, Nagpur; CITI & SIMA; Seed Industry Associations (NSAI and FSII); **Extension partners (Cotton Development and Research Associations of CITI and SIMA)**; Agricultural Technology Application Research Institutes & their Krishi Vigyan Kendra; State Departments of Agriculture-ATMA, Textile partners and Cotton Corporation of India (CCI).

- b) In order to have a better monitoring and implementation of the project activities, Ministry of Agriculture has also mandated **CITI** to develop a web-based portal/mobile application for the Pilot Project on Cotton.

B. Special Cotton Project

a) CITI CDRA Project Implementation Area:

State	Number of Districts	Number of Clusters	No. of Villages	Area (ha)	Number of farmers
Maharashtra	2	14	80	400	577
Rajasthan	4	11	141	440	912
Madhya Pradesh	4	20	289	2317	3419
TOTAL	10	45	537	3158	4908

a) Objectives

Enhancement in productivity of rainfed cotton on marginal soils from 350 kg lint/ha to 750 kg lint/ha through improved package of practices.

1. Under HDPS in drought prone area to 600 kg lint/ha;
2. Under Closer spacing from 600 to 1000 kg lint/ha,
3. Extra-long staple cotton to 750 kg lint/ha.

B. Special Cotton Project - Glimpses



Seed distribution to project farmers on credit



PGR distribution on credit



Kisan Goshti



Workshops



Farmers Field Trainings



Field inspections

B. Special Cotton Project



In order to have a better monitoring and implementation of the activities of Special Project on Cotton. CITI is also developing a web-based portal/mobile application.

Objectives of the Portal/Mobile Application are:

- Management and monitoring of the pilot project on cotton development in identified clusters.
- Given the project will be rolled out in DBT mode, monitoring the deliverables for approvals and transfer of funds through the first of its kind “**e-Rupee Voucher Model.**”
- Capturing good/ best practices for benefit the farmers and project efficacy and disseminate the same to farmers across all cotton growing states.

B. Special Cotton Project

CITI-CDRA

b) Dashboard of the Portal



Special Project on Cotton

(A project under NFSM)



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Kisan aur Udyog ki Saajhedaari - Badhte Kadam Unnati ki Taraf

5. Steps towards Sustainability & Regenerative farming

- Method Demonstration on use of a farm made pesticides from Neem leaves, Cow urine and Sour Buttermilk.
- Introduction of waste decomposer as a spray preparation of compost using cotton crop residue. Compost increase the fertility of soil, it saves the fertilizer expenses, it increase the income of the farmers and controls pests. It is one of the important component of organic farming.
- FLDs on Mycorrhiza in 60 acres. It improves the soil structure & fertility and also controls pest and diseases in crop.
- Promoting manual technics for canopy management like de-topping to enhance lateral branches and ultimately yield.
- To introduce fruits in the meal plate of rural mass CITI CDRA have started the Border fruit planting and Kitchen gardening. Our aim is not only to increase cotton production but to induce healthy food habits.

Thank You

