Weekly Publication of

Cotton Association of India

COTTON STATISTICS & NEWS

Edited & Published by Amar Singh

2019-20 • No. 37 • 10th December, 2019 Published every Tuesday

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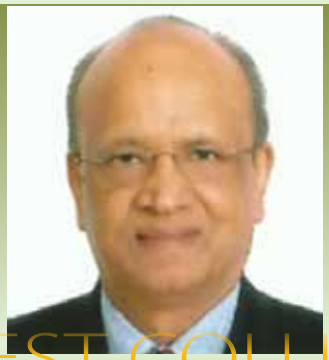
Multi-Dimensional Approach to the CITI- CDRA's Cotton Development Activities during 2018-19

With his rich and varied experience in cotton, cotton yarn and textiles for nearly five decades, Shri. P.D. Patodia has represented a number of textile bodies, councils and trade organisations. He has been dealing with cotton, textile mills and export organisations for the promotion of textiles.



GUEST COLUMN

Shri. P. D. Patodia

Convenor, CITI Sub-Committee on CDRA

Past Chairman CITI

Introduction:

The CITI-CDRA successfully completed a decade of its cotton development activities in Rajasthan in 2017-18. This was accomplished through implementation of cotton collaborative project in which CITI-CDRA partnered with the State agriculture department of Rajasthan, Bayer Crop Science and Rajasthan Textile Mills Association. The main thrust of these operations was to equip cotton farmers from project areas with the latest technical knowhow on cotton production, pest and nutrient management, through mass awareness approach to change their mind set and to encourage them to adopt new technologies.

This exercise of empowering cotton farmers yielded encouraging results in as much as it gave a boost to yield and production in Rajasthan in general and Lower Rajasthan in particular. Cotton yield and production in Lower Rajasthan at 214 kgs of lint per hectare and 1.75 lakh bales in 2007-08 respectively improved to 803 kgs of lint per hectare and about 12.70 lakh bales and Rajasthan's cotton yield at 415 kgs of lint per hectare and production at 9 Lakhs bales in 2007-08 reached 692 kgs of lint per hectare and over 22 lakh bales respectively during 2017-18.

This experiment was replicated in Maharashtra (Wardha district) for the past three years with equally encouraging results in yield improvement. While continuing the above approach to cotton development activities during 2018-19 in Rajasthan (Bhilwara, Rajsamand and Alwar districts), Maharashtra (Wardha district) and Madhya Pradesh (Ratlam, Dhar and Jhabua districts), the CITI-CDRA has laid stress on FLD programme for promoting cultivation of BT hybrids giving higher lint percentage,

demonstrating the package of good agricultural practices (GAP) in selected villages, encouraging cultivation of ELS cottons in Madhya Pradesh for enhancing production of such cottons to bridge the gap between demand and supply of ELS cottons in the country.

Further to deal with the Pink Ballworm menace in Maharashtra and to educate farmers / farm labour on safe use of pesticides, community approach to create mass awareness on these issues involving stake holders in cotton value change is resorted to, as would be evident from the CITI-CDRA's cotton development activities in the current season.

2. Rajasthan

This is the 11th year of the CITI CDRA's cotton development activities in Lower Rajasthan in partnership with the state government of Rajasthan, Bayer Crop Science and the Rajasthan Textile Mills Association. The activities shifted from Banswara and Jodhpur districts to Bhilwara, Rajsamand and Alwar districts, since the project was implemented in Jodhpur District for the past six years.

Project Officer inspecting Project field

District implementation committee meeting in progress in Alwar district

2.1 During the current season, the activities undertaken in the following nine clusters in these districts:

Sr. No.	District	Name of Cluster	Area (Hectares)
1.	Bhilwara district	Potla	6200
		Kangani	5200
		Dhosar	5100
		Bagor	4800
Total			21300 hectares out of 35000 hectares of the estimated area under cotton in the district.
2.	Rajsamand district	Railmagra	3900 hectares out of estimated 4600 hectares of land under cotton cultivation in the district.
3.	Alwar district	Alwar	12587
		Rajgarh	2893
		Kishangarhwas	15470
		Behror	8354
Total			**39764**

2.2 Front Line Demonstration Programme:

Apart from 100 FLDs of Surpass 7172 and 7272 Bt hybrids the seeds of which were arranged by Bayer Crop Science (20 FLDs per cluster), 97FLDs to demonstrate all the package of practices covering production and plant protection as also nutrients management technologies are taken up

Project Coordinator Bhilwara in discussion with project farmers in Banswara district

Project Coordinator Ratlam in discussion with Project Farmers in Ratlam district

in 101 villages involving 4589 farmers from these clusters as under:

Sr. No.	Cluster	Selected Villages	Area (Hectares)
1	Potlan	16	1150
2.	Kangani	21	1040
3.	Dhosar	20	1000
4.	Bagor	16	1500
5.	Railmagara	28	1120
	Total	101	5784

3. Madhya Pradesh:

The CITI CDRA with a view to seek the approval of the state government for taking up cotton project in M.P. on the lines of its Rajasthan project,had been pursuing its project for promoting cultivation of Extra Long Staple cottons in Ratlam, Dhar and Jhabua districts of M.P with the state government of M.P for the past few years. In fact,in anticipation of the state government approval,it went ahead with implementing the project in Ratlam district last year. However, it vigorously pursued the matter with the State Director of Agriculture and the Principal Secretary to Govt., Department of Farmers Welfare and Agriculture Development Department. The team comprising of Shri. P.D. Patodia convenor of the CITI Sub Committee on CITI CDRA, Shri Sureshbhai Kotak, Advisor,Sub Committee on CITI CDRA, Shri. S.A. Ghorpade Advisor CITI CDRA and Dr. R.S. Tripathi, Project Coordinator participated in the meeting held on 30th May 2018 at Bhopal and made a detailed presentation on the cotton collaborative project in Rajasthan during the past decade and proposed programme for M.P. As the result of these efforts the state government of M.P. has issued orders regarding cotton collaborative project in Ratlam, Dhar and Jhabua districts of M.P.

3.1 Cotton Crop Condition:

Area under cotton (hectares) in Project districts of Ratlam, Dhar and Jhabua of M.P. and approximate area under cotton collaborative project (hectares) is as under:

District	Cotton area	Project area
Ratlam	29430	27500
Jhabua	31035	31000
Dhar	93559	4000
Total	154024	52500

3.1.1 All the districts have received satisfactory

rains during the season so far and cotton crop is progressing well in the following clusters:

1. **Ratlam District**
   a) Ratlam.
   b) Sailana
   c) Bajna

2. **Jhabua District**
   a) Jhabua
   b) Ranapur
   c) Thandla
   d) Petlawad

3. **Dhar District**
   a) Sardarpur
   b) Dattigaon

3.1.2. Front Line Demonstrations Programme:

In nine clusters of Ratlam and Jhabua districts,the CITI CDRA has taken up 62 FLDS of Surpass 904 Bt hybrid BG ll of ELS cotton and seeds for Front Line Demonstrations were provided by the Bayer Crop Science as under:

Ratlam district	....	20
Jhabua district	.....	42
Total		62

3.1.3. Trials of various cotton seeds made available by SIMA:

The SIMA has been supporting CITI CDRA's efforts to take trials of various cotton seeds (both Bt and non Bt) to assess their performance and to ascertain their suitability for agroclimatic conditions of project areas.

Accordingly, the following trials have been put up in Ratlam and Jhabua districts of M.P:

Shakthi (Bt variety) .....41 trials in Jhabua district.

Mahashakti...20 trials in Ratlam district and 34 trials in Jhabua district.

SHT-1.....25 trials in Jhabua district.

SHB-lll.....20 trials each in Ratlam and Jhabua districts.

In all the number of these trials is 162.

Barring a few trials of Shakthi variety,all other trials are doing very well.

4. MAHARASHTRA (WARDHA DISTRICT):

While continuing the cotton collaborative project in eight clusters, two clusters each from Wardha, Hinganghat, Selu and Devali tehsils of Wardha district, Kalamb tehsil of Yawatmal district is added to the project area during the year. The State Government has since issued permission for the Cotton Collaborative project in Wardha district for the next three years (2018-19 to 2020-21).

Considering the havoc created by Pink Bollworm and the resultant huge financial losses to the farmers as also the deaths of farm labourers engaged in spraying of pesticides in the state during the previous year, the CITI CDRA and Bayer Crop Science decided to take up a programme jointly in the project area to demonstrate as to how these two issues could be effectively dealt with through community approach involving stakeholders in cotton value chain.

Six FLDs to demonstrate as to how by using various technologies like production, plant protection and nutrients management production could be improved and yield could be sustained are also put up in the district.

4.1 The project is implemented in 10 clusters as under:

Wardha District

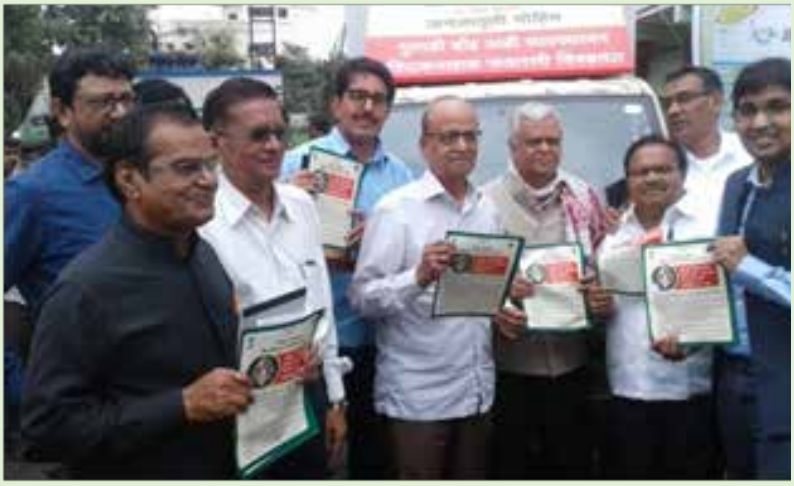
Wardha Tehsil	:	1.	Wardha	2.	Anji
Hinganghat Tehsil	:	1.	Hinganghat	2.	Burkoni
Selu Tehsil	:	1.	Shindhi	2.	Selu
Deoli Tehsil	:	1.	Bhindi	2.	Deoli

Yawatmal District

Kalamb Tehsil	:	1.	Phard	2.	Parsodi

4.2. The project area covers 80 villages of Wardha district and 16 villages from Kalamb tehsil of Yawatmal district. It involves about 11000 farmers with more than 61000 acres of land under cultivation.

4.3.The project areas of Wardha have received rainfall marginally lower than the average rainfall, but the spread of the rainfall has been



Chief Guest Dr.Mayee, Chairman of the function Shri. P. D. Patodia, Co-Convenor CITI Sub-Committee on CDRA Shri Prashant Mohota, Co-convenor CITI Sub Committee On CDRA and other Senior Officers Of BCS flag off vehicle for mass awareness in Wardha District.

Farmers participating in the meeting on PBW at Wardha on 21st August 2018

very good and the overall cotton crop position is satisfactory. Jassid and white fly outbreak was reported in the project area of the districts but infestation is below ETL and remedial measures are being taken to control the menace. In so far as PBW is concerned, the district administration and District Superintending Agriculture Officer Wardha have made preparations on war footing to deal with PBW problem and also creating mass awareness among cotton farmers in respect of the precautions to be taken while undertaking pesticides sprays by farmers/ farm labourers.

4.4. Meeting held at Wardha on 21st August 2018:

With a view to create mass awareness on the ways and means to deal with PBW problem and also creating mass awareness among cotton farmers involving other stakeholders in cotton value chain like ginners, input suppliers, textile mills,district administration and District Superintending Agriculture Officer Wardha, central government institutions like CICR/ CIRCOT, the CITI CDRA in association with Bayer Crop Science, District Agriculture Department and CIRCOT jointly organised a mega farmers meet at Wardha on 21st August 2018. Over 600 project farmers participated in the meeting which was addressed by District Collector of Wardha district Superintending Agriculture Officer Wardha, Dr. C. D. Mayee, formerly Commissioner for Agriculture, Govt of India, Convenor and Co-Convenor of CITI's Sub-Committee on CDRA, Senior Scientists from CIRCOT and South East Asia Biotechnology centre, New Delhi, besides senior officers from Bayer Crop Science. At the end of the meeting a vehicle to visit various villages for creating awareness about PBW management and ensure visibility to the project efforts through mass awareness regarding precautions to be taken while undertaking pesticides sprays by farmers, was launched by the Chief Guests-District Collector of Wardha district and Dr. Mayee.

4.5 The vehicle has since covered all the project villages and created awareness on PBW. Management and safe use pesticides so far. The CITI CDRA and CIRCOT have jointly been holding awareness meetings in the project areas periodically, involving scientist from CIRCOT, Bayer Crop Science and Agriculture Officers from the above five tehsils on the above issues.

4. Outlook for 2018-19 crop.

The reports from the project areas point out that overall cotton crop position is satisfactory and the season holds a promise for good cotton crop. The CITI CDRA is also looking out for very good results in its project areas.

Courtesy: Cotton India 2018 (Aurangabad)

(The views expressed in this column are of the author and not that of Cotton Association of India)

UPCOUNTRY SPOT RATES

(Rs./Qtl)

Sr. No.	Growth	Standard Descriptions with Basic Grade & Staple in Millimetres based on Upper Half Mean Length [By law 66 (A) (a) (4)] Grade Standard	Grade	Staple	Micronaire	Gravimetric Trash	Strength /GPT	Spot Rate (Upcountry) 2018-19 Crop December 2019 2nd	3rd	4th	5th	6th	7th
1	P/H/R	ICS-101	Fine	Below 22mm	5.0 – 7.0	4%	15	- -	- -	- -	- -	- -	- -
2	P/H/R (SG)	ICS-201	Fine	Below 22mm	5.0 – 7.0	4.5%	15	- -	- -	- -	- -	- -	- -
3	GUJ	ICS-102	Fine	22mm	4.0 – 6.0	13%	20	8942 (31800)	8942 (31800)	8942 (31800)	8942 (31800)	8942 (31800)	8998 (32000)
4	KAR	ICS-103	Fine	23mm	4.0 – 5.5	4.5%	21	10011 (35600)	10011 (35600)	10011 (35600)	10011 (35600)	10011 (35600)	10067 (35800)
5	M/M (P)	ICS-104	Fine	24mm	4.0 – 5.5	4%	23	- -	- -	- -	- -	- -	- -
6	P/H/R(U)(SG)	ICS-202	Fine	27mm	3.5 – 4.9	4.5%	26	- -	- -	- -	- -	- -	- -
7	M/M(P)/ SA/TL	ICS-105	Fine	26mm	3.0 – 3.4	4%	25	- -	- -	- -	- -	- -	- -
8	P/H/R(U)	ICS-105	Fine	27mm	3.5 – 4.9	4%	26	- -	- -	- -	- -	- -	- -
9	M/M(P)/ SA/TL/G	ICS-105	Fine	27mm	3.0 – 3.4	4%	25	- -	- -	- -	- -	- -	- -
10	M/M(P)/ SA/TL	ICS-105	Fine	27mm	3.5 – 4.9	3.5%	26	- -	- -	- -	- -	- -	- -
11	P/H/R(U)	ICS-105	Fine	28mm	3.5 – 4.9	4%	27	- -	- -	- -	- -	- -	- -
12	M/M(P)	ICS-105	Fine	28mm	3.7 – 4.5	3.5%	27	- -	- -	- -	- -	- -	- -
13	SA/TL	ICS-105	Fine	28mm	3.7 – 4.5	3.5%	27	- -	- -	- -	- -	- -	- -
14	GUJ	ICS-105	Fine	28mm	3.7 – 4.5	3%	27	- -	- -	- -	- -	- -	- -
15	R(L)	ICS-105	Fine	29mm	3.7 – 4.9	3.5%	28	- -	- -	- -	- -	- -	- -
16	M/M(P)	ICS-105	Fine	29mm	3.7 – 4.5	3.5%	28	- -	- -	- -	- -	- -	- -
17	SA/TL/K	ICS-105	Fine	29mm	3.7 – 4.5	3%	28	- -	- -	- -	- -	- -	- -
18	GUJ	ICS-105	Fine	29mm	3.7 – 4.5	3%	28	- -	- -	- -	- -	- -	- -
19	M/M(P)	ICS-105	Fine	30mm	3.7 – 4.5	3.5%	29	- -	- -	- -	- -	- -	- -
20	SA/TL/K/O	ICS-105	Fine	30mm	3.7 – 4.5	3%	29	- -	- -	- -	- -	- -	- -
21	M/M(P)	ICS-105	Fine	31mm	3.7 – 4.5	3%	30	- -	- -	- -	- -	- -	- -
22	SA/TL/ K/TN /O	ICS-105	Fine	31mm	3.7 – 4.5	3%	30	- -	- -	- -	- -	- -	- -
23	SA/TL/K/ TN/O	ICS-106	Fine	32mm	3.5 – 4.2	3%	31	- -	- -	- -	- -	- -	- -
24	M/M(P)	ICS-107	Fine	34mm	3.0 - 3.8	4%	33	- -	- -	- -	- -	- -	- -
25	K/TN	ICS-107	Fine	34mm	3.0 - 3.8	3.5%	33	- -	- -	- -	- -	- -	- -

(Note: Figures in bracket indicate prices in Rs./Candy)

UPCOUNTRY SPOT RATES

(Rs./Qtl)

Sr. No.	Growth	Grade Standard	Grade	Staple	Micronaire	Gravimetric Trash	Strength /GPT	Spot Rate (Upcountry) 2019-20 Crop December 2019 2nd	3rd	4th	5th	6th	7th
1	P/H/R	ICS-101	Fine	Below 22mm	5.0 – 7.0	4%	15	10714 (38100)	10714 (38100)	10714 (38100)	10714 (38100)	10714 (38100)	10770 (38300)
2	P/H/R (SG)	ICS-201	Fine	Below 22mm	5.0 – 7.0	4.5%	15	10854 (38600)	10854 (38600)	10854 (38600)	10854 (38600)	10854 (38600)	10911 (38800)
3	GUJ	ICS-102	Fine	22mm	4.0 – 6.0	13%	20	- -	- -	- -	- -	- -	- -
4	KAR	ICS-103	Fine	23mm	4.0 – 5.5	4.5%	21	- -	- -	- -	- -	- -	- -
5	M/M (P)	ICS-104	Fine	24mm	4.0 – 5.5	4%	23	9842 (35000)	9842 (35000)	9842 (35000)	9842 (35000)	9842 (35000)	9898 (35200)
6	P/H/R(U)(SG)	ICS-202	Fine	27mm	3.5 – 4.9	4.5%	26	10489 (37300)	10489 (37300)	10461 (37200)	10489 (37300)	10545 (37500)	10601 (37700)
7	M/M(P)/ SA/TL	ICS-105	Fine	26mm	3.0 – 3.4	4%	25	- -	- -	- -	- -	- -	- -
8	P/H/R(U)	ICS-105	Fine	27mm	3.5 – 4.9	4%	26	10629 (37800)	10629 (37800)	10601 (37700)	10629 (37800)	10686 (38000)	10742 (38200)
9	M/M(P)/ SA/TL/G	ICS-105	Fine	27mm	3.0 – 3.4	4%	25	- -	- -	- -	- -	- -	- -
10	M/M(P)/ SA/TL	ICS-105	Fine	27mm	3.5 – 4.9	3.5%	26	- -	- -	- -	- -	- -	- -
11	P/H/R(U)	ICS-105	Fine	28mm	3.5 – 4.9	4%	27	10686 (38000)	10686 (38000)	10657 (37900)	10686 (38000)	10742 (38200)	10798 (38400)
12	M/M(P)	ICS-105	Fine	28mm	3.7 – 4.5	3.5%	27	10967 (39000)	10967 (39000)	10967 (39000)	10967 (39000)	10967 (39000)	11023 (39200)
13	SA/TL	ICS-105	Fine	28mm	3.7 – 4.5	3.5%	27	10967 (39000)	10967 (39000)	10967 (39000)	10967 (39000)	10995 (39100)	11051 (39300)
14	GUJ	ICS-105	Fine	28mm	3.7 – 4.5	3%	27	10939 (38900)	10939 (38900)	10911 (38800)	10939 (38900)	10939 (38900)	10995 (39100)
15	R(L)	ICS-105	Fine	29mm	3.7 – 4.9	3.5%	28	10882 (38700)	10882 (38700)	10882 (38700)	10882 (38700)	10882 (38700)	10939 (38900)
16	M/M(P)	ICS-105	Fine	29mm	3.7 – 4.5	3.5%	28	11220 (39900)	11220 (39900)	11220 (39900)	11220 (39900)	11220 (39900)	11276 (40100)
17	SA/TL/K	ICS-105	Fine	29mm	3.7 – 4.5	3%	28	11248 (40000)	11248 (40000)	11248 (40000)	11248 (40000)	11276 (40100)	11332 (40300)
18	GUJ	ICS-105	Fine	29mm	3.7 – 4.5	3%	28	11135 (39600)	11135 (39600)	11107 (39500)	11135 (39600)	11135 (39600)	11192 (39800)
19	M/M(P)	ICS-105	Fine	30mm	3.7 – 4.5	3.5%	29	11304 (40200)	11304 (40200)	11304 (40200)	11304 (40200)	11360 (40400)	11417 (40600)
20	SA/TL/K/O	ICS-105	Fine	30mm	3.7 – 4.5	3%	29	11360 (40400)	11360 (40400)	11360 (40400)	11360 (40400)	11417 (40600)	11473 (40800)
21	M/M(P)	ICS-105	Fine	31mm	3.7 – 4.5	3%	30	11585 (41200)	11585 (41200)	11585 (41200)	11585 (41200)	11585 (41200)	11642 (41400)
22	SA/TL/ K/TN /O	ICS-105	Fine	31mm	3.7 – 4.5	3%	30	11642 (41400)	11642 (41400)	11642 (41400)	11642 (41400)	11642 (41400)	11698 (41600)
23	SA/TL/K/ TN/O	ICS-106	Fine	32mm	3.5 – 4.2	3%	31	12035 (42800)	12035 (42800)	12035 (42800)	12035 (42800)	12035 (42800)	12092 (43000)
24	M/M(P)	ICS-107	Fine	34mm	3.0 - 3.8	4%	33	14988 (53300)	14988 (53300)	14988 (53300)	14988 (53300)	14988 (53300)	15044 (53500)
25	K/TN	ICS-107	Fine	34mm	3.0 - 3.8	3.5%	33	15269 (54300)	15269 (54300)	15269 (54300)	15269 (54300)	15269 (54300)	15325 (54500)

(Note: Figures in bracket indicate prices in Rs./Candy)