

- "Profitable Residue Free Organic Cotton Production"
- new technology platform by Zydex Industries...

Dr Ajay Ranka CMD, Zydex Group





Environment & Sustainability - Farm to Fashion

Environment & Sustainability for Textile production Sustainable resources for production Higher yields of fibres per acre **Reduction in Energy & Environmental impact Higher quality Durability extension** Circularity goal



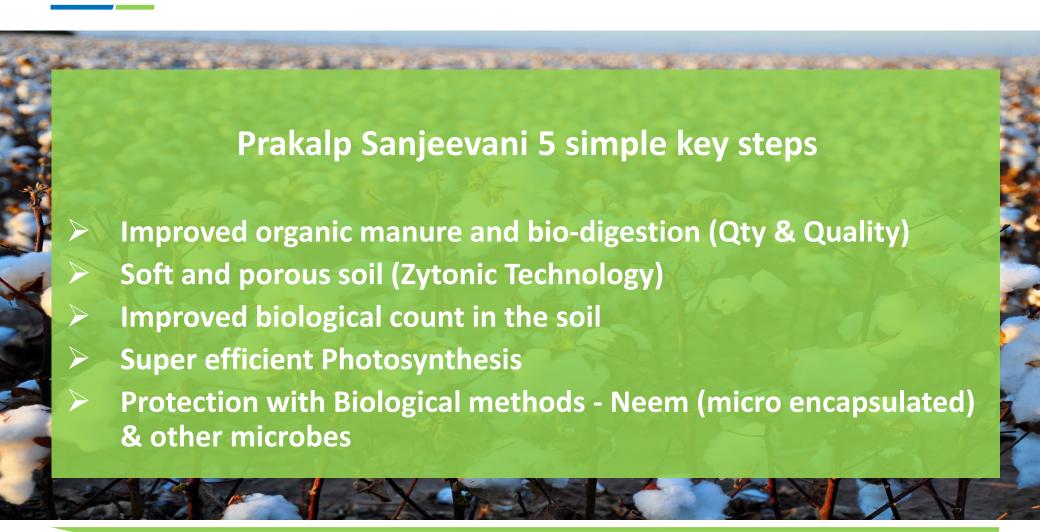
Innovations for sustainability – Farm













A SHE SHE SHE A SHE WAS A **Chemical Cotton Farming to Biological Cotton Farming** 1 Crop cycle profitable switch.....Prakalp Sanjeevni **Ensures FYM improvement & adequacy Higher yields & better quality** 40-50% less water requirement 90-100% of rain water absorption in the farm field itself to improve water table Zero pesticide residue



Water savings in Chemical-free Cotton farming





100% Bio-farming Zytonic 'Prakalp Sanjeevni' protocol Group of farmers in Beed district MH are using Zytonic technology in 1500 acres Group of farmers in Saurashtra GJ in 1200 acres cotton and successfully transitioned to profitable organic farming Ongoing collaboration projects with CITI CRDA and Welspun in MH



CSR- Project with NGO in Gujarat

Location of the project: Chhota Udaipur & Panchmahal districts in Gujarat Total 600 farmers have adopted Zytonic Prakalp Sanjeevani in various crops; and 300 are in Cotton Cotton quality is as per Kasturi specifications No chemical residue – Organic cotton **Full traceability**



Project with CITI CRDA





Happy cotton farmers – Zytonic® Technology





Prashant Bhau Lakde – Wardha district, MH
Plant green for longer period
Improved Pest control



Zytonic Technology Vs Farmer Practice Results

Zytonic Technology plot



Farmer Practice plot



Name of Farmer: Dinesh Thonge Village- Sagara TQ- Bhadravati Dist. Chandrapur

Zytonic Technology plot



Farmer Practice plot



Name of Farmer: Mahesh Sarode Village- Sagara TQ- Bhadravati Dist. Chandrapur)



Zytonic Technology Vs Farmer Practice Results

Welspun project







Commercial adoption by farmers in Gujarat

Location : Saurashtra - Gujarat Farmer experienced benefits in last year with Prakalp Sanjeevani are moving towards chemical free cotton 10 farmers have gone fully organic in this year Experienced improved crop growth, higher flowering, improved boll size and yield Improved immunity to pest & disease



Happy cotton farmers – Zytonic® Technology



Nandlalbhai Ghevriya, vil. Dedakadi, Bhavnagar No of Boll and boll size increase.. Plant green for longer period - Continue flowering ...picking Improved Pest control NO CHEMICAL INPUT



Ashvinbhai Gelani, Village Lunki, Bhavnagar Good Growth, continue flowering, multiple picking Increased yield NO CHEMICAL INPUT



Chemical Free Cotton...

Zydex ~ Kasturi

☐ Cooperation with Texprocil to enable Ginners source Chemical Free Cotton using Zytonic Technology

Quality standards of Fibre to qualify as Kasturi Cotton

Parameter	Criteria				
Staple length/UHML	30 mm+	29 mm+			
Micronaire value	3.7 to 4.5	3.7 to 4.5			
RD value	76+	76+			
Fibre strength	30.5 (±1.5) g/tex	29.5 (±1.5) g/tex			
Uniformity index	84% or more	83% or more			
Trash	2% or below	2% or below			
Moisture content	8% or below	8% or below			



COTTON ASSOCIATION OF INDIA COTTON TESTING & RESEARCH LABORATORY

Cotton Exchange Bldg., Cottongreen, Mumbai - 400 033. Tel.No.8657442948



TEST REPORT

Fibre Test Report No : 13736/13738 Mechanical Testing : Textile Date : 28/11/2024

Sample Received on : 25/11/2024

Samples of cotton submitted by: M/s. ZYDEX INDUSTRIES PVT LTD Sample Tested On: 28/11/2024

Lab. Ref No	Sample Details Furnished By the Customer					HVI - HVI MODE TEST RESULTS (ASTM : D - 5867-2012 RA 2020)								
	Station		Lot	P.R.No	2000	UHML	3.0	Strength at 3.2mm (g/t)	Elong.	MIC μg/inch	COLOUR			SFI
			No			(In mm)					Rd	+b	CG	
2413736	Dahod	-	1	-	-	32.7	87.9	34.1	6.7	4.7	82.2	5.5	31-2	6.9
2413737	Ghogara	-	2	-		32.1	86.8	33.6	6.6	4.0	80.2	6.0	31-2	6.7
2413738	Narwadi		2			32.0	88.1	33.7	6.6	4.0	85.1	5.9	21-2	7.0

Tested :- RH 65 ± 2% and Temp 21 ± 2°c

NOTES:
1. Samples are not drawn by the laboratory.

2. The test results relate only to the item tested.

3. This report shall not be used for litigation or publicity

4. This report shall not be reproduced in part / full without the written permission of the Laboratory

5.CAI absolves itself of any legal or financial liability pertaining to this test report



Kiran Borole/QM



India... Golden land Golden opportunity Organic India