

**PROJECTS SPONSORED BY MINISTRY OF TEXTILES**  
**Year 1999-2010**

(Rs. in Lakhs)

Sr. No.	PROJECT TITLE	Project Leader	Date of Start/ completion	Project Cost	Benefit to the Industry
1.	Influence of fibre characteristics on processing performance and yarn quality for ring and rotor spun yarns made from polyester and polyester blends	Shri J.M. Grover/ Prof. A.K. Sengupta	Jan. 1999 To June 2001	23.92	Awareness programmes and consultancy on the findings to more than 30 rotor spinning and ring spinning mills
2.	Study and development of devices and equipments to reduce/solve the problem of black streaks	Shri S.P. Patel/ Shri G.A. Gandhi	Jan. 1999 To Dec. 2000	21.56	Findings implemented/ disseminated in more than 40 fine count spinning mills
3.	Reducing objectionable faults of rotor spun cotton yarns	Prof. A.K. Sengupta	Jan. 1999 To Dec. 2000	24.94	Identified parameters affecting faults and findings implemented to more than 15 rotor spun units.
4.	Development of fabric hairiness indicator	Shri V.S. Jadeja	Jan. 1999 To Dec. 2000	10.81	Prototype developed and demonstrated to mills.
5.	Production of Audio-visual aids and training material for modern high speed looms and shuttleless looms for the benefit of the decentralized powerloom sector	Shri P.D. Kimothi/ Shri M.D. Patel	Jan. 1999 To Dec. 1999	15.40	Produced audio-visual aids and training material which were used for imparting training to more than 900 powerloom units.
6.	Towards producing contamination free clean cotton bales to enable the Indian textile industry to compete in the international market	Shri J. M. Grover/ Shri P.H. Shah	Oct. 1999 To Sept. '01	27.22	Optimized gin practices to produce contamination free cotton and the same were implemented in more than 25 units. Rs. 30 Lakhs earned through know-how and royalty on the developed systems
7.	Design and development of appropriate in-situ heat recovery system for soapers/ washers in Decentralised sector process houses	Shri S.P. Patel / Shri N.J. Shah	Oct. 1999 To Sept. '01	15.27	A prototype was developed and demonstrated to more than 50 decentralized sector process houses.

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8.	Design modifications including retrofitting in the existing boilers and thermic fluid heaters of textile industries to impart additional capability for incineration of solid waste	Shri S.R. Bhatt	Oct. 1999 To Sept. `01	18.50	Designed prototype, fabricated and evaluated. Knowledge is being used in on going consultancy assignments.
9.	Towards development of the textile industry at the micro and macro level to face the market challenges in the 21 <sup>st</sup> century : Benchmarking Services to the Industry	Shri R.M. Sankar	Oct. 1999 To Sept. `01	31.675	Consultancy on benchmarking to 3 EOUs and awareness programme to 25 mills.
10.	Development and standardization of safe methods for analysis of eco-parameters in textile substrates with better sensitivity	Dr. S.K. Tiwari	Oct. 1999 To Sept. `01	24.20	The methods developed are being used for the analysis
11.	Ambient Temperature Peroxide Bleaching	Shri V. Vijaykumar/ Shri R. Maheshwari	1-12-00 To 31-11-02	19.50	Method developed for ambient temperature bleaching. Know-How used for implementation to industry. Amount earned Rs. 8 Lakhas
12.	Optimisation of microwave parameters for shade development in laboratory for quick-response and enhancing lab-to-bulk reliability and reproducibility in cold pad-batch dyeing of reactive.	Mrs. R. Nanda (Dr. J. J. Shroff)	1-9-2001 To 31-8-02	7.83 R 0.60 C 8.43	The process was demonstrated to 5 industries.
13.	Increasing Elongation of yarns spun from Indian Cottons	Shri J.M. Grover Ms. Deepali Plawat	1-10-01 To 31-3-03	25.44	The process parameters on spinning machinery were optimized and elongation improvement of 0.2 to 0.4 % in absolute terms. The findings were implemented as consultancy tool to more than 25 units.

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14.	Development of synthetic thickener for printing textile and reactive dyes	Dr. S. Rahman	1-10-01 To 31-3-03	14.06	The know-how developed but yet to be commercialized.
15.	To develop electronic gadgetry for measuring important Dimensional Characteristics of spinning ring	Shri M.H. Dhingani, Shri A.K. Agrawal	1-10-01 To 31-3-03	12.10 R 0.90 C 13.00 T	Testing services used by 50 mills using the developed gadgetry. Later on commercialized. Units sold 5.
16.	Anti-bacterial wrinkle resistant fabrics	Dr. S. K. Tiwari	1-10-01 To 30-9-03	21.12	Results demonstrated to two industries.
17.	Optimisation of ginning process parameters of low micronaire (3 <sup>rd</sup> & subsequently picked) fine hybrid cotton	Shri J.M. Grover/ Shri P. H. Shah	1-7-2002 To 31-12-03	18.66	Optimized gin parameters to preserve the quality of low micronaire cotton first time in India and the same was implemented in more than 25 ginneries. Rs. 10 Lakhs earned through know-how and royalty on the developed systems
18.	Developing pneumatic cleaning of comber half-laps & collection of comber noil	Shri K.H. Panchal/ A.J. Sonagara	1-7-2002 To 30-6-04	36.65	Optimization of pneumatic cleaning parameters have been implemented in around 10 mills.
19.	Design & Development of a microcontroller based production management information system for knitting industry.	Shri V.H. Mehta	1-7-2002 To 31-12-03	13.88	Prototype developed and disseminated to knitting industry.
20.	Understanding the nature of appearance of Barre' in circular 72weft knitted single jersey cotton fabrics	Shri C.R. Prayag	1-7-2002 To 30-6-04	12.70	Identified a number of parameters affecting barre effect in fabric. Consultancy and training were provided to more than 15 mills.
21.	Development of Ceramic Based Yarn for Thermal Insulation Products.	Shri C. R. Prayag	1-4-2005 To 31-12-05	21.60 (MOT 3.05 Indus. 18.55)	20 to 25% improvement in ceramic based yarn was obtained. The findings were communicated to industry partner.

22.	Enhancement of Sized Yarn Performance and Size Saving Through Pre-Treatment during Sizing	Shri U.K. Gangopadhyay/ Shri C.R. Prayag	1-4-2005 To 31-3-06	12.23 (MOT 7.27 Indus 4.96)	Sized saving prototype through pre-treatment was developed
23.	Improving Quality of Yarn Spun from Lyocell/Viscose/ Modal Fibres	Shri C.R. Prayag/ Shri P.H. Shah	1-6-2006 to 31-5-07	11.89 (MOT 9.51 Indus 2.38)	Improved quality of Lyocell/Viscose yarn in 10 mills and the findings were communicated to manufacturers of viscose fibre.
24.	Development of High Production Roller Gin with Chute Feed Arrangement	Shri P.H. Shah/ Shri D.I. Patel	1-6-2006 to 30-11-06	13.73 (MOT 10.73 Indus. 3.00)	Improved gin productivity by 15% and the package of findings were adopted by more than 30 units. Rs. 7.5 Lakhs earned through know-how and royalty on the developed systems
25.	Design & Development of Microcontroller Based Portable Electronic Fibre Fineness & Maturity Tester.	Shri V.H. Mehta	1-6-2006 to 31-5-07	5.20 (MOT 4.00 Indus. 1.20)	Successfully developed for fast and accurate measurement. More than 20 units sold.

### ON GOING PROJECTS

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1.	Development of a Novel Rotating Ring System to Achieve Break Through in Existing Modern Ring Frame Productivity, Yarn Quality and Power Consumption	Shri A.K. Agarwal	1-9-2008 to 31-8-10	32.40	On going project
2.	Design and Development of Electronic Precision Alignment Aid for a Modern Card to Improve Yarn Quality	Shri A.K. Agrawal	1-9-2008 to 31-8-10	28.80	On going project
3.	Centre of Excellence in Geo-textiles	Dr. S. Rahman	2 Years	2 Crores	On going project
4.	Enhancement of Cotton Seed Oil Recovery by Adopting German PEF Technology	Shri B.S. Parikh	15-9-09 to 14-9-11	210.00 (MOT 156.00 INDS 43.00 ATIRA 11.00)	On going project
5.	Indigenous Development of Automatic Multilayer Garment Cutting Machine	Shri C.S. Vora	15-9-2009 to 14-9-2011	75.00 (MOT 60.00 INDUS 15.00)	On going project
6.	Spinning of Fire Retardent Fibre Blends on Cotton System	Shri N.R.V. Appaswamy	15-9-2009 to 14-9-2011	90.00 MOT 70.00 INDUS 20.00)	On going project
7.	To Evolve Construction Related Design as well as Environmental Design Parameters for Both Woven and Non-Woven Geo-Synthetics	Dr. A.K. Sharma	1-1-2010 to 31-12-12	92.40	On going project
8.	Development of Nano-Fibre Based Textiles	Dr. A.K. Sharma	1-1-2010 to 31-12-12	132.00 MOT 105.60 INDUS 26.40	On going project