

Brief Bio-data

Name	Dr D B Shakyawar						
Address	Director, Uttar Pradesh Textile Technology Institute, P Bangla Road, Sutergang, Kanpur 208001 UP						
1. Qualification							
Level	Degree	Institute/ Board/ University	Year	Subject(s) with major field	Fellowship/ Scholarship	Class/ Division	
Graduation	B Text	GCTI, (Kanpur University)	1987	Textile Technology Spinning, Weaving, Textile Testing, fabric Structure		Ist Div.	
Masters	M Tech (Fibre Science & Technology)	Indian Institute of Technology, Delhi	1989	Fibre Physics, Chemistry of fibres, Man made fibre production etc.	GATE	Ist Div.	
*PhD	Ph D (Textile Technology)	Indian Institute of Technology, Delhi	2000	Title of Thesis: Studies on Hand value of Woven Fabrics Produced From Indian Wools and Their Blends	CSIR SRF	-	
2. (i) Employment Record & Experience (Starting from the present position)							
Designation	Pay scale/ Pay band	Nature of work	Organization	Institution & Place of posting	Period (From-to)		Duration (years, months)
Director	Rs 37100- 67000/ (RGP-10000) + Rs. 3000	Adminstration, teaching and research	Technical Education UP Govt. (On Deputation)	UP Textile Technology Institute, Kanpur	21.11.201 4	Cont.	4 months
Principal Scientist	Rs 37100- 67000/ (RGP-10000)	I/c Head, Division of TMTC Division	ICAR, New Delhi	CSWRI, Avikanagar (Raj)	13.08.200 8	20.11.2 014	6 Years 3 months
Sr. Scientist	Rs 12000- 18300/	Research & Extension	ICAR, New Delhi	CSWRI, Avikanagar (Raj)	14-2-2000	12.0820 08.	8 years 6 months
Scientist	Rs 8000- 13500/	Research & Extension	ICAR, New Delhi	CSWRI, Avikanagar	Nov., 1993	13-2- 2000	6 Years 3 months
Scientist	Rs 8000- 13500/	Research	ICAR, New Delhi	CIRCOT, Mumbai	8-4-93	Oct, 1993	6 months
Scientist	Rs 8000- 13500/	As Trainee	ICAR, New Delhi	NAARM Hyderabad	11- 11-92	May, 1993	6 months
Lecturer (Weaving)	Rs 2200- 4000/ (old)	Teaching	Technical Education, UP	Govt Polytechnic, Kanpur, UP	15-9-1989	7-11-92	3 Years 1 month
Sr Res Asst	Rs 1640- 2900/ (old)	Research & Extension	Central Silk Board	CSR&TI Beharampore (WB)	26-12-88	13-9-89	9 months
2 (ii) Trainings attended in the relevant field of specialization*							
Title				Duration		Institution	
International Training							
Quality Evaluation and processing of Cashmere fibre				Nov 24-Dec 8, 2010		Deakin University Geelong, Australia	
National training							
Research management				Nov. 11, 1992 -May 10, 1993		NAARM, Hyderabad	
Programming in Visual Basics				March 9-24, 2000		IASRI, New Delhi	
MDP workshop on policy and prioritization, monitoring and evaluation (PME) support to consortia based research in Agriculture				Oct. 5-9, 2009		NAARM, Hyderabad	

2 (iii) Experience in Research Management Position (RMP)/Equivalent post in regular capacity		
Post held	From	To
Director, UPTTI Kanpur	Head of the institution dealing with teaching, research and administration having more than 100 employee and 850 students including 20 faculty members from 21 Nov. 2014- continue	
Incharge Head, Division of Textile Manufacturing and Textile Chemistry	Full fledge duty of HOD, Co-ordination and monitoring of the activities of division, The division has present strength of more than 21 including 3 scientists, 2 technical officers, 4 technical staff, 3 operators and 7 contractual workers (Feb. 1, 2011 to Nov. 20, 2014.)	
Incharge, Wool Processing Plant	Incharge for functioning of wool processing plant (Spinning, weaving and chemical finishing) (2001-2005)	
Incharge Fibre Physics Section	Incharge of Fibre physic section functioning with full fledge laboratory for quality evaluation of fibres, yarn and fabrics, co-coordinating the acidity with different divisions and national agencies (2008-2013)	
Nodal Officer, Central Wool Development Board, Jodhpur	Co-ordination with Director, Co-principal Investigators for progress reports, monitoring the fund utilization, liaisoning with sponsoring agency for nine projects of worth of Rs. 220.00 lakhs (2008-2014)	
Secretary, ISSGPU	Acted as secretary of professional society having more than 850 members and conducted 35 national seminar, publishing Scientific journal (Indian Journal of Small Ruminant having NAAS Rating 4.89)	

3. Recognition & awards/ special attainments & achievements of practical importance

3(i) Recognition and awards		
Name of the Award/ Recognition/reviewer	Year	Awarding Organization
Awards		
Senior Research Fellow	1996	CSIR, New Delhi
Best Research Article published in The Indian J of Small Ruminants on “Production and performance of pure cashmere shawl fabric using machine spun yarn by nylon dissolution process”	2011-12	ISSGPU, Avikanagar
Second Best poster presentation award for research paper on “Development of handicraft woollen products” during National Seminar on Future Challenges and Opportunities to improve Health and Production of Small Ruminants	2012	ISSGPU, Avikanagar
Best poster presentation award for research paper on “Use of waste wool in Agriculture for yield improvement” during National Seminar on Prospects and Challenges in small ruminants production, TNAU Sandhyanalla (TN)	2014	ISSGPU, Avikanagar
Recognition		
Invited as key speaker for delivering lectures in the ISTE Winter School programme on “Development in Textiles”	24-12-01 to 5-1-02	Govt. Central Textile Institute, Kanpur
Invited as key speaker for delivering lectures in the AICTE short-term curse on “Global Industrial Concept in Textiles”	Jan 10-21, 2005.	Govt. Central Textile Institute, Kanpur
Invited as key speaker for delivering paper on “Development in blankets on Handloom”, in General awareness workshop on ‘Wool & Woollen Products – Indian Scenario	May 24-25 2005	SKICC Srinagar
Invited as key speaker for delivering special lecture on “Weaving of woollen yarns in handloom” in Managerial workshop for managers of Dindigul Handloom weavers co-operative societies	May 5, 2007	Gandigram Rural University, Gandhigram, (TN)
Invited as a member of standardization committee under “Wool & Wool Products” (TX-04)	Nov. 17, 2004	BIS, New Delhi
Invited as a member of standardization committee under “Wool & Wool Products” (TX-04)	Dec. 22, 2005	BIS, New Delhi
Invited as reviewer for Draft International Standards	2007	BIS, New Delhi
Invited as Examiner for M V Sc. Viva-voce	2010	SKUAST, Srinagar
Key speaker and Chairperson for International Workshop on “Innovations on Textiles” at Panipat w.e.f. 5-6 Nov. 2011	2010	P I Engg and Tech, Panipat
Invited as a member of standardization committee under “Wool & Wool Products” (TX-04)	Oct. 20, 2012	BIS, New Delhi
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Outstanding Grade in ACR	2011-12	CSWRI Avikanagar
Reviewer of International Journal	2012	Indian J of

		Traditional Knowledge, NISCAIR New Delhi
Reviewer of International Journal	2010-15	Indian J of Fibre & Textile Res, NISCAIR
Reviewer of National Journal	2012	Indian J of Small Ruminants, ISSGPU
Reviewer of National Journal	2014-15	J of Institution of Engineers
Member of Central Admission Committee, UPTU Lucknow	2015-16	UPTU Lucknow
Member of Governing Body, UPTU Lucknow	2015-16	UPTU Lucknow
Nominee of UP Govt. for Autonomus committee of HBTI Kanpur	2015-16	HBTI Kanpur
Invited as Chairman of Technical session in the conference on “Microscopy in material science and biomimetic technology”	Feb 26-28, 2015	DMSRDE, Kanpur
Category & Title	Year	Additional Details/Information
1. Patent Ref.No.3400/DEL/2012: Identification of Cashmere (Pashmina)	2012	Presently, no cost effective, convenient and easily available methodology exists to identify the adulteration of Pashmina from other similar looking animal fibre like wool. This invention is related to the extraction of high quality DNA from processed textile products and species specific identification of goat(Pashmina) and sheep(wool) origin fibres by qualitative PCR based method. This technique is useful to identify the Pashmina fibre from the processed wool/textile and also helpful to analyze the extent of the sheep wool adulteration in the Pashmina products. (As PI)
2. Patent Ref/Patent No. 3616/DEL/2011: Development of paddle charkha	2011	Table Top Paddle operated NAIP Charkha for Cashmere (Pashmina) fibre) was developed under NAIP project on “A Value Chain on enhanced Productivity and Profitability of Pashmina Fibre”. Reduction of physical drudgery to the artisans. Increased efficiency and remuneration by 73.50 % and 146.64 %, respectively, as against traditional one without deteriorating the quality of yarn. This invention will be highly beneficial for resource poor artisans engaged in pashmina shawl of the country in uplifting their socioeconomic status by enhancing productivity and more remuneration of artisans. (As PI)
3. Gene Bank Registration: Capra hircus breed Changthangi 12S ribosomal RNA gene, partial sequence; mitochondrial GenBank: JF514286.1	2011	The DNA is extracted from pashmina fibre by unique method and the gene sequence is registered in gene bank under the title “12S rRNA sequence from Pashmina fiber collected from Changthangi goat” vide No. GenBank: JF514286.1 (As as PI)
4. Technology-Commercialized: Development of Machine Spinning Process for Pashmina Fibre Using PVA and Nylon as Carrier Fibre	2011	Under this process, the method developing machine spun Pashmina yarn and fabric has been optimized. A new chemical finishing process has been developed to improve the handle and whiteness of Pashmina-PVA blended yarn made Pashmina fabric. The process is adopted by the pashmina processing industries of Himachal Pradesh and Srinagar (As a PI)
5. Technology-Commercialized: Development Of High Quality Blankets	2010	High quality check blankets using different colour patterns were developed by optimizing different wool mix. Indian wool of different fineness mixed in different proportion was spun into 4 Nm yarn on woollen spinning system. Fine cross bred wool: indigenous Chokla wool :Nylon in the proportion of 45:50:5 was found as an optimum blend for good quality blanket. The blanket of BIS specifications was woven on power loom. The chemical finishing treatments viz. Milling, decatizing and raising were given to enhance softness and dimensional stability of blanket. The blanket possesses soft feel and excellent thermal insulation properties (As A PI).
6. Technology-Commercialized Enzyme based Finishing process for Angora-BM shawls for Improved handle, whiteness and pilling resistance	2010	A process for improving whiteness and softness of Angora rabbit hair: wool blended shawl was developed. In this process, bleaching using H ₂ O ₂ followed by protease enzyme treatment and finishing with cationic softener was done in the same bath. The processed shawl shows 30% higher whiteness , 20% improved softness and reduced pilling tendency as compared to conventionally processed shawl (As A PI)

7. Product: Wool-cotton union fabric suitable for shawl/blanket/furnishing fabric for tropical winter climate	2004-2006	Two types of wool-cotton union fabric were produced using two different counts of wool yarns spun from short fine wool as weft and coloured cotton yarns as warp. The woollen part of the fabrics was cross dyed using 1:2 metal complex dyes to uniform shade followed by finishing with a cationic softener. The performances of finished union fabrics were compared with the 100% wool control fabric to find their suitability as blankets for tropical winter season. This product was commercialized and 30 blankets and 200 shawls were sold to interested persons (As a Co-PI)
8. Process- commercialized : Comprehensive Natural Dyeing Process for Wool and Pashmina fibres	2010-11	The concern for the clean environment has created a deep interest in natural dyes. Several sources of natural dyes were screened for dyeing wool and specialty hair fibres. A comprehensive natural dyeing process is being standardized by which the wool and specialty hair fibres can be dyed into all range of colours with good light and wash fastness properties (As a PI).
9.Product commercialized: Functional Carpet from indigenous wool and its blends	2010-11	Indian wool is graded as best carpet type wool providing excellent resilience, lustre and performance. In order to improve the abrasion resistance, a process in which the wool is blended with 10% nylon fibre has been developed at CSWRI, Avikanagar (As a PI)
10. Process-commercialized : Softening treatment for Chokla wool made fabric for handle improvement and prickliness reduction	2012	The Chokla wool made fabric was given softening treatment using enzymes and silicones to improve the handle and prickliness. Subjective and assessments assessment showed that the treated fabric can be used as shawl without prickliness (As a PI).

4 (i) Teaching		
Item	Details	Year(s)
High Performance Fibres	M Tech at UPTTI Kanpur	2015
Weaving Technologies,	Diploma, Govt Polytechnic, Kanpur	1989-1992
Textile Fibres	Diploma, Govt. Poly. Kanpur	1989-1992
Research guidance for M Tech Ph D students		
PhD	Chagan Lal, Chemical Investigation of natural dyes and their application on Pashmina wool and its blends, PhD, University of Rajasthan, p191. Awarded	2015
PhD	Ashma Khan, IIS University, Jaipur	2012-13
PhD	Manjali Sharma, "Performance of cotton wool blended knitted khadi fabrics and consumer utility of the same", Bansthali Vidya peeth, Bansthali	2013-14
PhD	Haree Charan Meena, "Studies on Indian crossbred wool and its blends on Khadi system" Punjab Technical University	2012-13
M Sc	Priyanka Temani, 'Study on Dyeing Properties of a Natural Dye on Pashmina'. International College of Girls, Jaipur, p100. Awarded	2010
M Tech	Mathurya Sukhram, 2011. 'Studies on Pashmina and Blended Shawls Using Polyvinyl Alcohol (PVA) as carrier Fibre', UPTTI, Kanpur p67. Awarded	2011
M Tech	Nishant "A study to explore the possibilities of replacing australian merino wool by indian wool in khadi fabric" IIT Delhi Awarded	2011

4(ii) Research			
Projects handled (Mention the type of projects such as 'Institutional', 'Sponsored', 'Contractual' and 'Consultancy')			
Title of the Project	Whether PI/Co-PI/Associate	Duration	Major Accomplishments
1. Development of Diversified Animal Fibre Based Value-Added	PI	2012-14	<ul style="list-style-type: none"> Developed different type of handicrafts from wool felt Diversified application of coarse wool in agriculture

Products			
2. Development of Nano and Bio Technologies Based Functional Chemical Finishing Processes to Wool and Other Animal Fibres	Co-PI	2012- 14	<p>Three chemicals were synthesized for application on wool as antimoth agents.</p> <p>Viable Natural Dyes for Wool Seven new sources of natural dyes such as Shisham leaves (Dalbergia sissoo), Yellow Root (Berberis lyceum), Rohida leaves (Tecomella Undulata), Dhol Kanali Root (Gerardiana diversifolia), Saffron petals, Onion skin, Silver oak leaves, Cochineal were identified for dyeing of wool, angora and Pasmina and their dyeing procedure optimized for better colour yield and fastness. Shade cards were produced out of the identified natural dye.</p> <p>Natural Dyes with moth proofing and antimicrobial properties Screened different natural dyes for moth proof finishing on wool. The results showed that silver oak, wall nut, shisham leaves, henna dyed wool products were resistant to moth attack. The presence of high amount of tannin was attributed to their moth resistance properties.</p>
3. Development of Carpet pile, Technical textiles and Apparels utilizing indigenous wool blends	PI	2009-12	<p>Development of High Quality Blankets High quality check blankets using different colour patterns were developed by optimizing different wool mix. Fine cross bred wool: indigenous Chokla wool :Nylon in the proportion of 45:50:5 was found as an optimum blend for good quality blanket.</p> <p>Quality Carpet From Indian Wool-Nylon Blends The blending of nylon up to 10% level improved the spinnability as well as yarn quality in terms of tensile strength and lustre. Carpet made from wool -nylon (90:10) gives very good appearance as well as abrasion resistance without adversely affecting resiliency property.</p> <p>Development of Handloom Woven Carpet A mono-colour carpet of 1500 g/m² could be produced with pile height of 8-12 mm. The carpet costs cheaper and affordable for middle income group consumers.</p> <p>Enzyme based Finishing process for Angora-BM shawls for Improved handle and whiteness In order to improve the handle and whiteness, protease enzyme based process was developed. In this process, bleaching using H₂O₂ followed by treatment with protease enzyme and finishing with cationic softener was done in the same bath. The processed shawl shows 30% higher whiteness and 20% improved softness as compared to conventionally processed shawl.</p>
4. TOT project: Integrated approach for improvement in productivity of sheep under field condition through transferable technologies. Sub Project: Improvement of wool utilization through indigenous wool products developed by local artisans (Co.PI)	Co.PI	2009-12	<p>1. Product Development Using Local Artisans and Small Scale Industries A trial of Bharat merino: Angora rabbit hair blend was undertaken under mill condition at M/s Shikhar handloom co-operative society, Rampur Bushair (HP), M/S Mahadev Woollen Mills, Sunder Nagar. The blends were run smoothly and 2/40's Nm yarn was spun successfully</p> <p>2. Hand Knotted Carpet Development by Local artisans A hand knotted carpet of size 6' x 9' with intricate design was developed using yarn from Magra wool using local artisans. After chemical finishing, the carpet possesses excellent resiliency and good aesthetic properties.</p> <p>3. Consultancy to Small scale Industries Consultancy to the following industries was given a. M/S Felt and Technical Textiles, M/S Laxmi Woollen Mills, Bikaner, M/S Mahadev Woollen Mills, Sundernagar, M/S Sikkar Cooperative Society and Custom Department, Govt of India</p>
5. NAIP : A value chain on quality production and	CCPI	2009-2014	<p>1. PCR based technique for Pashmina (Cashmere) fibre for identification and differentiation from processed textile</p>

utilization of Pashmina fiber			<p>materials.(Patent filed provisionally Ref.No.3400/DEL/2012) This invention is related to the extraction of high quality DNA from processed textile products and species specific identification of goat(Pashmina) and sheep(wool) origin fibres by qualitative PCR based method. This technique will be useful to identify the Pashmina fibre from the processed wool/textile and also helpful to analyze the extent of the sheep wool adulteration in the Pashmina products.</p> <p>2. Development of paddle charkha: Paddle charkha was developed for improved quality yarn and enhanced productivity. Quality and productivity has improved by 15% and 114% respectively. (Patent No. 3616/DEL/2011 dated 13.12.2011)</p> <p>3.Adoption of PCR based Pashmina Identification technique The custom department, Govt.of India sends their fabric sample(for export) to test the Pashmina content using the DNA extraction technique.</p> <p>4. Development of Machine Spinning Process for Pashmina Fibre Using PVA and Nylon as Carrier Fibre Under this process, the method developing machine spun Pashmina yarn and fabric has been optimized. A new chemical finishing process has been developed to improve the handle and whiteness of Pashmina-PVA blended yarn made Pashmina fabric.</p> <p>5. Development of Comprehensive natural dyeing process for Pashmina Shawl . Twelve natural dyes have been identified for producing comprehensive shades on Pashmina shawl and their dyeing process has been optimized which include screen for antimicrobial and antimoth properties.</p>
6. Development of upgraded utilisation techniques for wool produced in southern peninsular region of the country - Sponsored by Central Wool Development Board	Co.PI	2010-2012	<p>1.A process for removal of Kemp fibre A technology has been devised to remove kempy fibres. Coarse wool has shown improvement in fibre fineness by 36% and overall reduction in medullation percentage.</p> <p>2. Development of Technical Felt from Coarse wool Coarse wool was mixed with medium fine wool in the ratio of 80:20, 60:40 and 40:60 and converted into 6-16mm thick felt. The 6 mm thick felt can be used as floor covering. The 10-16 mm thick felt can be utilized as thermal and sound insulation panels for buildings in place of particle boards.</p>
7. Short term training courses in woollen products manufacturing and designing	PI	2013-14	Four training programmes of 3-months duration were organized for rural women artisans on khadi yarn preparation, shawl/ blanket weaving, handicraft manufacturing
8.Development of portable intelligent wool fibre analyser	Co-PI	2013-14	<ul style="list-style-type: none"> • Data base creation using image processing system • Validation of data with conventional system • Development of software using fibre and thir classification
9. KVIC sponsored project: Alternate indigenous wool in place of imported fine wool	PI	2012- 2012	<ul style="list-style-type: none"> • Processing of HP, JK and BM wool on NMC Charkha was successfully carried out to develop yarn of 12 and 24 Nm • JK: AM wool blending was done and optimum blend ratio of 70:30 worked out on NMC Charkha for 32 Nm yarns • Wool-cotton blending was successfully carried out on khadi system
10. NATP: Processing of different hair for value added products (Co-PI)	Associate	2000-2005	Development of wool-camel hair blended products.
11. Adhoc (ICAR): Development of cotton-wool blended yarns employing short staple spinning systems for production of	Associate	2000-2002	Development of wool-cotton bi-component yarn. Dyeing behaviour of wool-cotton union fabrics

fabrics (Co-PI)			
12. Processing & Product development of wool & speciality hair (Co-PI)	Co-PI	1994 – 1996	Processing of Bharat merino wool- Polyester blends for suiting fabrics. Processing of Bharat merino wool- Acrylic blends for knitweaves
13. Processing & Product development of wool & speciality hair (Co-PI)	Co-PI	1996 - 2002	Development of wool –Equine hair blended products for furnishing /home textiles (Three research papers published)
13. Post harvest technologies for value added products utilising Indian wool & speciality hair fibres (Co-PI)	Co-PI	2003- 2007	Evolution of methodology for Subjective Hand Evaluation (CHV) of hand knotted carpets. Development of hand made felts for furnishing, medical textiles and apparels. (Four research papers published)
14. Demonstration unit of Bharat merino and Avikalin sheep (Co-PI)	Co-PI	2006-2007	Quality evaluation of Bharat merino wool. Utilization of southern Indian wool.

4(iii) Training organised

Training Courses Programmes Organized (Title)	Year	Duration	No. of beneficiaries	Co-ordinator/ associated
Training for officers				
Sheep, Goat and Rabbit Management for Officers from Govt. of Uttaranchal	2002	Oct. 21-26 (7 days)	24	Co-ordinator
Training for Farmers				
Sheep & Goat Production and Management for farmers sponsored by CWDB, Jodhpur	2002	21-26 Oct 2002	20	Co-ordinator
Sheep & Goat Production and Management for farmers sponsored by CWDB, Jodhpur	2003	Nov. 1-7, 2003	20	Co-ordinator
Sheep & Goat Production and Management for farmers sponsored by CWDB, Jodhpur	2003	Nov. 18-24, 2003	20	Co-ordinator
Sheep & Goat Production and Management for farmers sponsored by B M Birla Sc & Technology Center, Jaipur	2003	Jan 24-30, 2003	20	Co-ordinator
Sheep & Goat Production and Management for farmers sponsored by DPIP, BAIF, Toda Rai Singh	2003	Dec. 10-16, 2003	20	Co-ordinator
Sheep & Goat Production and Management for farmers sponsored by DPIP Pachewar	2004	Dec. 1-7, 2004	30	Co-ordinator
Sheep & Goat Production and Management for farmers sponsored by DPIP-Tonk	2005	Jan 2-8, 2005	20	Co-ordinator
Sheep & Goat Production and Management for farmers sponsored by DPIP Pachewar Gramin Vikas Naya Youwak Mandal, Lapodia	2005	May 15-21, 2005	30	Co-ordinator
Sheep & Goat Production and Management for farmers sponsored by DPIP Niwai	2005	28 June – 4 April, 2005	54	Co-ordinator
Sheep & Goat Production and Management for farmers sponsored by Rajasthan Chamber of Commerce	2005	28 June – 4 April, 2005	37	Co-ordinator
Sheep & Goat Production and Management for farmers sponsored by Gramin Vikas Mandal Lapodia Dudu	2005	May 15-21, 2005	20	Co-ordinator
Sheep & Goat Production and Management for farmers sponsored by DPIP Chandsen	2006	15-21 Jan, 2006	20	Co-ordinator
A training programme on Quality Evaluation of Animal Fibres with special emphasis on Pashmina Fibre for Extension officer, stock assistant and entrepreneurs	2010	March 12-18, 2010.	18	Co-ordinator
A training programme on “Design development and Weaving of pashmina shawl” under NAIP project for Artisans of Srinagar	2010	Feb. 2010	10	Course Director
A Training on “Dyeing of Pashmina shawl using Natural Dyes” at Srinagar and Himachal Pradesh stakeholders of Pashmina fibre processors under NAIP project	2011	March 10-12 and 14-14, 2011	43	Course Director
Training programme on Cuticle removing and shrink proofing of human hair and wool from 13.9.12 to 15.09.12 Officers	2012	3 days	2	Course Director

Training on "Quality Evaluation and Technologies for Pashmina Processing & Product Development" for Extension Officer	2012	3.02.2012 to 18.02.2012	20	Course Director
Exhibition at Vastra-2012- International Trade fair at Jaipur on jointly organized by FICCI and RICCO	2012	November 22-25, 2012	150	Associated
Training programme on "Auh gLr f" kYiksa dkfuekZ.k	2014	March 24-June 21 and June 24-Sept. 21, 2014	20 artisans	Course Director

4(v) Service Function

Project Monitoring/Management/Coordination/Reporting/Evaluation, Policy Formulation/Coordination/Compilation etc. (Not exceeding 200 words in total)

Item	Category	Year	Details
Status paper on Wool technology	Compilation	2004	As per RAC recommendation Status paper on Wool technology was prepared, CSWRI, Avikanagar (Pages 25)
CSWRI - 50 Years of Research Contributions (1962-2012)	Compilation	2012	Contribution made by Textile Manufacturing and Textile Chemistry Division, 93-111
Revival of J& K Woollen Industries	Evaluation	2011	CSWRI-Avikanagar

5. Externally Funded Projects/Resource Generation

6 (i) Externally Funded Projects

PI or Co-PI/ Associated Scientist	Title of Project (s)	Period (From-To)	Budget (Rs. In Lakh)	Funding agency
PI	Short term training courses in woolen products manufacturing and designing	Jan. -Nov. 2014	12.00	CWDB Jodhpur
Co-PI	Development of portable intelligent wool fibre analyser	2013-14	26.00	CWDB Jodhpur
CCPI	NAIP : A value chain on quality production and utilization of Pashmina fiber	2009-2014	316.00	NAIP, New Delhi
PI	Development of upgraded utilisation techniques for wool produced in southern peninsular region of the country	2010-2012	25.00	Central Wool Development Board, Jodhpur
PI	Alternate Indigenous wool in place of imported Australian wool	2012- 2014	12.00	KVIC, Mumbai
Associate	NATP: Processing of different hair for value added products (Co-PI)	3 Years	77.00	NATP (ICAR)
Associate	Adhoc (ICAR): Development of cotton-wool blended yarns employing short staple spinning systems for production of fabrics (Co-PI)	3 Years	21.23	Adhoc ICAR

5(ii) Resource Generation

Item	Title	Year	Amount (Rs.Lakhs)
(a) Training	Training programmes organized as mentioned at 5(iv)	2002-2012	5.00
b) Consultancy	Consultancy to TANUVAS, Namakkal College to analyze 163 wool samples from for testing of Scouring yield, Lustre, Colour, Diameter and Staple length.	2005-06	0.1634
	Consultancy to M/S Felt and Technical Textiles, Jaipur for setting up of carbonization and scouring plant	2009-10	0.460
	Consultancy to M/s Transpek-Silox Industry Ltd, Vododra (Gujarat) Study on Wool Processing Agent - "Translit IN" against Sodium Hydrosulphite for bleaching	2010-11	0.150
	Consultancy to M/s Laxmi woolen mills for resilience, fibre composition, Scouring yield etc	2010-11	0.20
	Consultancy for Revival of JKSSPDB, Srinagar	2010-12	2.00

c) Farm Produce (As PI of research Project)	Sale of woollen products	2009-10	3.9
		2010-11	4.31
		2011-12	6.60
		2012-13	7.5
		2013-14	7.0
d) Others	Fee from PhD student and fibre testing	2011-14	3.00

7. Summer/Winter School/Refresher Course/Symposia/Conference etc.

Name of the programme organized	Function(s) performed	Title	Year	Duration	Funding agency
Winter school	Co-ordinator	Processing & Product Development of Wool & Speciality fibres and their Evaluation	2003	Sept. 9-29, 2004 (21 days)	ICAR
Winter School	Co-ordinator	Winter school : Innovation in wool production and technologies for value addition	2008	Dec. 4-24, 2008 (21 days)	ICAR
Seminar	Co-ordinator	Status & prospects of wool felt & Namada Industry	2004	Aug. 19, 2004	CWDB, Jodhpur RUDA, Jaipur AIWF&NA, Jaipur
Seminar	Joint Organising Secretary	Stress management in small ruminant production and product processing	2010	Jan 29-31,	ICAR, CWDB, S&T, NABARD
Interactive meet	Organising Secretary	One day Interactive meet on Sheep Production for meat & wool and its utilisation in the plains of Southern India at Salem	2007	29 th May 2007	CSWRI & ISSGPU
Interactive meet	Organising Secretary	One day meet under NAIP project on "A value chain on enhanced productivity and profitability of Pashmina fibre" at Jaipur	2010	Feb 1, 2010	NAIP
Stackholder Meet	Organising Secretary	One day Stackholder meet organized on "Sensitisation of "at Avikanagar	2014	Feb. 2014	CWDB
Interactive Meet	Jt Organising Secretary	One Day Meet on "Prospects in Improving Production, Marketing and Value addition of Carpet wool" at ARC Bikanaer	2013	Dec. 31, 2013	ISSGPU and CWDB
Sheep and Wool Fair	Organising secretary	One day " National Sheep and Wool fair" at CSWRI Avikanagar	2014	Nov. 11, 2014	CWDB and CSWRI
Refresher Course / Training programmes specially organised for teachers/ extension officers and veterinary officers etc.					
Training programmes	Co-ordinator	Skill improvement of Technical Personnel's in Woollen Industry	2002	Oct. 21-30, 2002	7 officers from Industries
Training programmes	Co-ordinator	Advances in Semi intensive sheep management	2004	March 15-24 (10 days)	28 Officers from Govt. Andhra Pradesh
Training programmes	Co-ordinator	Advances in Semi intensive sheep management	2004	Dec. 21-30 (10 days)	22 Officers from Andhra Pradesh
Training programmes	Co-ordinator	Advances in Semi intensive sheep management	2005	Jan. 11-20 (10 days)	24 Officers from Govt. Andhra Pradesh
Training programme	Co-ordinator	Production of Animal Fibre with special reference to Pashmina (NAIP)	2010	Jan 15 to Feb. 4,2010	20 Officers
Training program	Course Director	Training Programme to the Scientist of research Association	2012	3-8 Aug. 2012	2 Officers
Training programme	Course Director	PCR Based Technique for Identification of Pashmina Fibre	2014	March 24-28, 2014	5 officers

8. International Recognitions				
Country	Type of Recognition	Year	Duration	Funding agency
Australia	Training on "Quality Evaluation and processing of Pashmina fibre	2010	Nov 24-Dec8, 2010 (Two weeks)	NAIP

9. Publications including papers in refereed journals

9 (i) Publications (Indicate only 25 best for RMP position)

Authors	Month & Year	Title	Journal	NAASJournalID /Rating	Marks obtained
1. Kumar Rajeev, Shakyawar D B, Pareek P K, Raja A S M, Prince LLL, Kumar Satish and Naqvi S M K	2015	Development of PCR based technique for detection of purity of Pashmina fibre from textile material	Applied Biochemistry and Biotechnology DOI 10.1007/s12010-015-1552-z	A179/7.69	5.77
2. Kumar A, Raja A S M, Shakyawar D B, Pareek P K and Krofa D	2014	Efficacy of natural dye from <i>Gerardiana diversifolia</i> on Pashmina (Cashmere) shawls	<i>Indian Journal of Fibre and Textile Research</i> (accepted)	I049 / 6.78	5.09
3. Shakyawar D B, Raja A S M, Kumar Ajay, Pareek P K,	2014	Anti-moth Finishing Treatment for woollens using Tannin containing Natural Dyes	<i>Indian Journal of Fibre and Textile Research (Accepted)</i>	I049 / 6.78	6.78
4. Shakyawar D B, Raja A S M. Wani S A, Kadam V V and Pareek P K.	2014	Low stress mechanical properties of pashmina shawls prepared from pure hand spun, machine spun and pashmina-wool blend yarn	The Journal of Textile Institute published online : http://dx.doi.org/10.1080/00405000.2014.921363	T039 /6.77	6.77
5. Kadam V V, Meena L R, Singh S., Shakyawar D Band Naqvi S M K	2014	Utilization of coarse wool in agriculture for soil moisture conservation	The Indian J of small Ruminants, 20(1)	T027/ 4.89	3.67
6. Shakyawar D B, Raja A S M, Kumar Ajay and Pareek P K	2014	Antimoth Finishing Treatment for Woolens using Tannin Containing Natural Dyes	Indian J of Fibre and Text Res (Accepted).	I049 / 6.78	6.78
7. A.S.M. Raja, D.B. Shakyawar, Ajay Kumar, P. Temani and P.K. Pareek	2014	Improvement in Quality and Moth Resistance of Traditional Namdha,	The Indian Journal of Small Ruminants, 20(1): 87-90	T027 / 4.89	3.67
8. Kadam V V, Shakyawar D B and Goud V	2013	Ultrasound scouring of wool and its effects on fibre quality	Indian J of Fibre & Textile Research, 38 (4) 410-414	I049 / 6.78	5.085
9. Raja A S M, Shakyawar D B, Kumar A, Temani P and Pareek P K	2013	Feltability of coarse wool and its application as Technical felt	Indian J of Fibre & Textile Research, 38 (4) 395-399	I049 / 6.78	5.085
10. Sarfaraz A Wani; Asif H Sofi; D B Shakyawar Ishrat Yaqoob, F A Mattu and A H Malik	2013	Fabrication of Innovative Charkha for Pashmina Spinning and its Impact Assessment	The Journal of Textile Institute, 104 (7) (Published on line)	T039 /6.77	5.08
11. A. S. M. Raja , D. B. Shakyawar , P. K. Pareek, P. Temani & A. H. Sofi	2013	A Novel Chemical Finishing Process for Cashmere/PVA-Blended Yarn-Made Cashmere Fabric,	Journal of Natural Fibers, 10:4, 381-389	J31/ 6.51	4.88

12. Shakyawar D B, Raja A S M, Kumar A, Wani S A and Parikh P K	2013	Pashmina (Cashmere) Fibre: Production, Characteristics and utilization	Indian J of Fibre & Textile Research, 38(2) 207-214	I049 / 6.78	6.78
13. Shakyawar D B, Kadam V V, Surya A S, Ahmed A, Pareek P K and Temani P	2013	Precise wool fibre diameter measurement using computerized projection microscope	The Indian Journal of small Ruminants, 19(2) 2013	T022 / 4.89	4.89
14. Nazir A Bumla, Sarfaraz A Wani S A, Sofi A S, Shakyawar D B, Yaqoob Ishrat and Seikh F D	2012	Comparative study on quality of pashmina shawls spun on traditional and innovative loom using hand and machine spun yarn	Indian J of Fibre and Textile Research, 37 (3) 2012, 224-230.	I049 / 6.78	5.085
15. Ammayappan L., Shakyawar D.B and Gupta NP.	2011	Optimization of dyeing condition for wool/cotton union fabric with direct dye using box-behken design	Fibres & Polymers, 2011, Vol.12, No.7, 957-962	F009/ 7.11	5.33
16. Shakyawar D B, Raja A S M, Gupta N P and Ammayappan L	2011	Development Magra-Nylon blended hand knotted Carpets,	The Indian Journal of small Ruminants, 17(2) Oct., 2011, 207-209.	T022 / 4.89	4.89
17. Shakyawar D B & Behera B K	2009	Influence of Softening Treatments on Hand Value of Woven Fabrics Produced from Indian Wool and their blends	Indian J of Fibre & Textile Research, 34 (1): 76-81.	I049 / 6.78	6.78
18. Shakyawar D B, Gupta N P, Patni P C & Arora R K	2008	Computer aided statistical tool for hand knotted carpets	Indian J of Fibre & Textile Research, .33 (4): 405-410	I049 / 6.78	6.78
19. Raja A S M, Shakyawar D B & Parthasarthy S	2008	Manufacturing of blanket (Kambali) by traditional methods using Coimbatore sheep wool at Kalanagal Village	Indian Journal of Traditional Knowledge, Vol. 7(1) 2008, pp 79-82.	I079/ 6.44	4.83
20. Shakyawar D B, Patni P C, & Gupta N P	2007	Studies on animal fibre blended hand made felts Part II Frictional, compressional & thermal properties	Indian J of Fibre & Textile Research Vol. 32 (3) 2007pp 301-305	I049 / 6.78	6.78
21. Shakyawar D B, Gupta N Pand Patni P C	2006	Subjective Evaluation of Hand Knotted Carpets	Indian J of Fibre & Textile Research, Vol. 31 Sept. 2006 PP 426-431	I049 / 6.78	6.78
22. Patni P C, Shakyawar D B & Gupta N P	2006	Studies on animal fibre blended hand made felts Part I Physical & mechanical properties	Indian J of Fibre & Textile Research Vol. 31 (4) 2006 pp 553	I049 / 6.78	5.085
23. Behera B K & Shakyawar D B	2000	Structure-property relationship of fibre, yarn and fabric with special reference to low stress-mechanical properties and hand value of the fabric,	Indian J of Fibre & Text Res Vol. 25 Sept 2000 pp 232-237	I049 / 6.78	5.085
24. Shakyawar D B Gupta N P and Dagur R S	1999	Some Studies on Milk weed fibres	Indian J of Fibre & Textile Research Vol. 24, Dec 1999 pp 264-268	I049 / 6.78	6.78
25. Gupta N P, Shakyawar D B & Sinha R D	1998	Influence of fibre diameter and medullation percentage on woollen spun yarns and their products	Indian J of Fibre & Textile Research Vol. 23, March 1998 Pp 32-37	I049 / 6.78	5.085
Total Marks obtained			Marks- 7		139.62

9 (ii) Other Publications

Research Papers published in Referred / Non-referred Journals

Author (s)	Year	Title	Journal	NAAS Rating
26. Ammayappan L, Shakyawar D B, Chhagan Lal, Sharma M, and Wani SA	2014	Extraction of Natural Colourants from Agricultural residues and their application on woollen fabric –Part 2	Man Made Textile in India, 57 (6) 212-215	M005/3.32
27. Ammayappan L, Shakyawar D B, Chhagan Lal, Sharma M, and Wani SA	2014	Extraction of Natural Colourants from Agricultural residues and their application on woollen fabric –Part 1	Man Made Textile in India, 57 (5) 182-185	M005/3.32
28. Kuldeep K Sharma, Pawan K Pareek, A S M Raja, Priyanka Temani, Ajay Kumar, D B Shakyawar and Mahesh C Sharma	2013	Extraction of Natural Dye from Kigelia pinnata and its application on pashmina (cashmere) fabric	Research Journal of Textile and Apparel, 17 (2) 28-32	
29. Ajay Kumar, Shakyawar D B, Raja A S M and Narula H K	2013	Performance of carpets made of Magra and Bikaneri-chokla wool	Indian J of Small Ruminants, 19(2) 193-197	T027 / 4.89
30. Ajay Kumar, D.B. Shakyawar, A.S. M. Raja and H. K. Narula,	2013	Assessment of Magra and Bikaneri-Chokla wool for carpet manufacturing,	The Indian Journal of Small Ruminant, 19 (2) 193-197	T027 / 4.89
31. Nazir A Bumla, Sarfaraz A Wani, Asif H Sofi, D B Shakyawar, Ishrat Yaqoob and F D Seikh	2012	Effect of machine dehairing on quality of Pashmina fibre	The Indian Journal of small Ruminants, 2012, 18(1): 118 -120	T027 / 4.89
32. A S M Raja, P K Pareekh, D B Shakyawar, Sarfraz A Wani, F A Nehvi and Asif H Sofi	2012	Extraction of natural dye from saffron waste and its application on Pashmina fabric	Pelagia Research Library, Advances in Applied Science Research, 2012, 3(1):156-161	
33. A. S. M. Raja, D. B. Shakyawar, A Kumar, P. K. Pareek	2011	Effect of canary colouration on the dyeing of wool	Man Made Textile in India, 39 (11) 391-393.	M005/3.32
34. A.S.M.Raja, D.B.Shakyawar, P K Pareek and S A Wani	2011	Production and performance of pure cashmere shawl fabric using machine spun yarn by nylon dissolution process	The Indian Journal of small Ruminants, 17(2) Oct., 2011, 203-206.	T027 / 4.89
35. Raja A S M, L Ammayapan, D B Shakyawar and N P Gupta	2011	Production and performance of Angora rabbit hair Bharat merino wool blended shawl	The Indian J of Small Ruminants, 17(1) 2011, 79-82	T027 / 4.89
36. Chagan Lal, A S M Raja, P K Pareek, D B Shakyawar, Kuldeep K Sharma and M C Sharama	2011	Juglans nigra: Chemical constitution and its application on Pashmina (Casmere) Fabric as a dye	Scholars Research Library, J Nat. Produ. Plant Resource, 2011, 1(4):13-19	
37. Nazir A Bumla, Sarfaraz A Wani, Asif H Sofi, D B Shakyawar, Ishrat Yaqoob and F D Seikh	2011	Physico-mechanical quality of Changthangi Pashmina Fibre	Vet scan, 2011, 6(2) Article 92	
38. P.Temani, D.B.Shakyawar, L.Ammayappan, and V.Goyal, and S.A.Wani	2011	Standardization of dyeing condition of cochineal extract on Pashmina yarn	J of Textile Association, July-Aug. 2011, 96-98	J453/1.89
39. L. Ammayappan, D.B. Shakyawar, D. Krofa, P.K. Pareek and G. Basu	2011	Value Addition of Pashmina Products : Present Status And Future Perspectives – A Review	Agri. Review, 32 (2) : 91 – 101	A060/3.31
40. Chagan Lal, M C Sharama, D B Shakyawar, A S M Raja, Kuldeep K Sharma and P K Pareek	2011	Natural Dyes constituents from rind of punica granatum (Pomegranate) and its application on Pashmina fibres	Archives of Applied Science Research, 3(3), 350-357	

41. N P Gupta, D B Shakyawar & R K Arora	2007	Equine hair: Properties, Processing & product Development	J Textile Association Vol. 7-8, pp83-91	J453/ 1.89
42. B K Behera, D B Shakyawar, R Mishra	2006	Fabric values as influenced by spinning parameters	Textile Asia, Hong Kong, pp May 2006 17-23	
43. B K Behera & D B Shakyawar	2004	Studies on Hand Value of Woven Fabrics Produced from Indian Wools and Their Blends Part II:	Textile Asia, Hong Kong, Jan. 2004pp 44-54	
44. B K Behera & D B Shakyawar	2003	Hand Value of Woven Fabrics from Indian Wools and Blends Part I:	Textile Asia, Hong Kong, Dec. 2003 pp 40-48	
45. D B Shakyawar, N P Gupta, A K Pokharna and R S Dagur	2001	Influence of wool fibre characteristics on its price	Journal of Textile Association, 62(4), (135-137)	J453 /1.89
46. N P Gupta, D B Shakyawar and R S Dagur	1998	Colour & Luster of wool	The Indian Textile Journal, March, pp28-31	
47. D B Shakyawar, A K Pokharna & N P Gupta	1997	Processing of animal fibre on DREF spinning system	Textile Industry & Trade Journal, Vol. 35 May-June, 1997 pp 27-30	
48. D B Shakyawar, M Ahmed, R D Sinha	1996	Ring spun Vs OE spun yarn and knitted fabrics	The Indian Text Journal, Sept 1996 pp 42-44	
49. D B Shakyawar & N P Gupta	1996	Influence of spinning roller speed and fibre feed rate on properties of fibre and yarn of camel hair Dref spun yarns,	Asian Textile Journal Dec 1996 pp 66-69	
50. N P Gupta and D B Shakyawar	1995	Present status of Indian woollen knitting industry,	Textile Industry & Trade J Vol 33 (11- 12) 1995,47-53	
51. M Ahmed, D B Shakyawar, K S Bhyrappa and M S Parthasarathy	1994	Importance of Tightness Factor in Assessing cotton knitted fabrics	The Indian Text Journal Nov 1994 pp82-88	
52. Miss C Raje, M Ahmed, S Saxena & D B Shakyawar	1994	Influence of fibre and yarn properties on dimensional properties of cotton knitted fabrics	Asian Text Journal, Aug1994 pp 45-48	

B) Books Published				
Edited				
1. Karim, S. A., Joshi Anil, Sankhyan S K, Sinde A K, Shakyawar, D.B. Naqvi SMK and Tripathi B N	2010	Sheep and Goat Production	Satish Serial Publishing House, Delhi	825
2. Karim, S. A., Shakyawar, D.B. and Anil Joshi	2009	Wool Technology	Agrotech Publishing Academy, Udaipur	600
3. V K Singh, N P Gupta & D B Shakyawar, R K Arora	2004	Advances in Sheep, Goat and Rabbit Production & their utilisation (Edited)	CSWRI, Avikanagar	190
Book Chapters				
4. N P Gupta and D B Shakyawar	2014	A Chapter on "Wool Fibre: Production and Properties", Handbook of Agricultural Engineering	ICAR-DIPA, New Delhi	
5. S A Karim and D B Shakyawar	2014	A chapter on "Machinery For Wool Processing And Product Development", Handbook of Agricultural Engineering	ICAR-DIPA, New Delhi	

6. Vinod Kadam, D B Shakyawar and A Sahoo	2013	Role of sheep in water conservation, Climate Resilient Small Ruminant Production, Eds Sahoo A, Kumar Davendra and Naqvi S M K	NICRA, CSWRI, Avikanagar	pp 101-106
7. D B Shakyawar and A S M Raja	2011	A chapter on “Non-conventional utilization of wool and other animal fibres” contributed to book entitled “Trends in Small Ruminant Production: Perspectives’ and Prospects” Edited by A Sahoo, S K Sankhyan, C P Swarnkar, A K Shinde and S A Karim	Satish Serial Publishing House, Delhi	Pp 507-514
8. Sarfaraz A Wani, D B Shakyawar	2011	A Chapter on “Developments in Processing and Product Development of speciality hair fibres” contributed to book entitled “Trends in Small Ruminant Production: Perspectives’ and Prospects” Edited by A Sahoo, S K Sankhyan, C P Swarnkar, A K Shinde and S A Karim	Satish Serial Publishing House, Delhi	Pp 515-532
9. R Chattopadhyay, D B Shakyawar and Nishant Kumar	2011	A Chapter on “Processing of wool on khadi spinning system” contributed to book entitled “Trends in Small Ruminant Production: Perspectives’ and Prospects” Edited by A Sahoo, S K Sankhyan, C P Swarnkar, A K Shinde and S A Karim	Satish Serial Publishing House, Delhi	pp547-559
10. D B Shakyawar and N P Gupta	2010	A chapter on “Industrial application of wool blended non-woven felt” in book on “Sheep and Goat Production” edited by Karim, S. A., Joshi Anil, Sankhyan S K, Shinde A K, Shakyawar, D.B. Naqvi SMK and Tripathi B N	Satish Serial Publishing House, Delhi	2010, pp 805-814
11. S A Wani, Asif H Sofi and D B Shakyawar	2010	A chapter on “Advances in pashmina wool processing and value addition” in book on “Sheep and Goat Production” edited by Karim, S. A., Joshi Anil, Sankhyan S K, Shinde A K, Shakyawar, D.B. Naqvi SMK and Tripathi B N	Satish Serial Publishing House, Delhi	2010, pp 815-825
12. D.B. Shakyawar	2009	‘Utilization of wool for apparel manufacturing’ to a book on Wool Technology edited by Karim, S. A., Shakyawar, D.B. and Anil Joshi	Agrotech Publishing Academy, Udaipur.	2009, pp 229-239.
13. D.B. Shakyawar	2009	Value addition of wool through blanket manufacturing, to a book on Wool Technology edited by Karim, S. A., Shakyawar, D.B. and Anil Joshi	Agrotech Publishing Academy, Udaipur	2009, pp 245-256.
14. D.B. Shakyawar	2009	Computer aided design in carpet manufacturing” to a book on Wool Technology edited by Karim, S. A., Shakyawar, D.B. and Anil Joshi	Agrotech Publishing Academy, Udaipur	2009, pp 301-308

15. D.B. Shakyawar, N.P. Gupta, S.A. Karim,	2009	A Chapter on “Value Addition in Farm Produce” contributed to book entitled Trends in Arid Zone Research in India (Eds. Amal Kar, B.K. Garg, M.P. Singh and S. Kathju),	Central Arid Zone Research Institute, Jodhpur,	383-410 pp.
16. D.B. Shakyawar and N.P Gupta	2009	Value addition of wool through felt manufacturing’ to a book on Wool Technology edited by Karim, S. A., Shakyawar, D.B. and Anil Joshi	Agrotech Publishing Academy, Udaipur	2009, pp 309-318.
17. N P Gupta, D B Shakyawar and P C Patni	2000	A chapter on ‘Wool - a Unique Fibre’ Contributed to the book entitled” Progress in Textile: Science & Technology Vol 2 Textile Fibres: Development & Innovations, Edited by Dr V K Kothari, IIT Delhi	IAFL publication, New Delhi	pp 767-791
Manuals				
18. Kadam V V, Shakyawar DB, Ajay Kumar, Pareek P K, S M K Naqvi	2014	प्रशिक्षण व्याख्यान पुस्तिका ऊनी हस्त शिल्पो कानिर्माण	CSWRI Avikanagar	55
19. Rajiv Kumar, Satish Kumar, D B Shakyawar and S MK Naqvi	2014	PCR Based Technique for Identification of Pashmina Fibre	CSWRI Avikanagar	40
20. Shakyawar DB, Ajay Kumar, Raja A S M, Kadam Vinod V, Pareek P K, Temani P and S A Wani	2012	A training manual on “ Quality Evaluation and Technologies for Pashmina Processing and Product Development	CSWRI Avikanagar	35
21. Shakyawar D.B., Ajay Kumar and Raja A.S.M.	2011	A training manual on “Dyeing of Pashmina shawl using Natural Dyes” for the stake holders of Pashmina under NAIP project	CSWRI Avikanagar	95
22. Shakyawar D.B., Raja A.S.M and Ammayappan L	2010	“A training manual on Quality evaluation of animal fibres with special emphasis on Pashmina fibre”	CSWRI Avikanagar	88
23. V K Singh, N P Gupta, D B Shakyawar and R K Arora	2005	Advances in Semi-intensive management (Revised Training Manual)	CSWRI, Avikanagar	206
24. Dr V K Singh, N P Gupta and D B Shakyawar	2005	Advances in Sheep & wool Production, processing & Marketing	CSWRI, Avikanagar	145
25. V K Singh, N P Gupta and D B Shakyawar	2004	Advances in Semi-intensive management (Training Manual)	CSWRI, Avikanagar	143
26. V K Singh, N P Gupta and D B Shakyawar	2002	Sheep, Goat and Rabbit production Management	CSWRI, Avikanagar	132
27. N P Gupta, D B Shakyawar and P C Patni	2002	Skill Improvement of Technical Personnel engaged in Woollen Industry (Training Manual)	CSWRI, Avikanagar	49
28. N P Gupta and D B Shakyawar	2001	Sheep & wool Production Technologies	CSWRI, Avikanagar	216
29. N P Gupta and D B Shakyawar	1996	Wool & Woollen Products Development and Evaluation	CSWRI, Avikanagar	271

30. N P Gupta and D B Shakyawar	1996	Advances in Sheep Production	CSWRI, Avikanagar	262
Conference proceedings papers, popular articles, bulletins, short communications				
Compilation Seminar/ Winter School Proceedings				
31. D.B.Shakyawar and Raja A.S.M.	2012	50 years of Research at Textile Manufacture and Textile Chemistry Division, CSWRI Research Contributions 1962-2012	CSWRI, Avikanagar	93-112
32. D.B.Shakyawar and Raja A.S.M.	2012	Status Paper on Application of Nanotechnology in Wool Processing, CSWRI Research Contributions 1962-2012	CSWRI, Avikanagar	215-220
33. P C Patni and D B Shakyawar	2004	Status & prospects of wool felt & Namada Industry	CSWRI, Avikanagar	36
34. D B Shakyawar, N P Gupta, P C Patni, R K Arora and A K Pokharna	2003	Processing & Product Development of Wool & Speciality fibres and their Evaluation	CSWRI, Avikanagar	104
Technical / Popular articles				
35. D B Shakyawar & S Parthasarathy	2007	Handloom carpet Weaving in India, Annual Magazine (2007)	IIHT, Salem pp	47-49
36. D B Shakyawar	1997	Rabbit hair: Production, Processing and Utilization	Wool Ways Jan-March,	35-39
37. D B Shakyawar and N P Gupta	1996	Present status and future prospects of wool in rural development	Wool Ways, April-June, 1996;	8-10
38. D B Shakyawar & M Ahmed	1994	Bhavishya mai Kapas ki Ass	Kheti March No 12, p	21-22
39. Mh ch "kkD;okj, bZ ih lh ikVuh ,oa fujkin xqIrk	2004	ns"kh Åu ls uenk ,oa QsYV dk fuekZ.k	vfoiqat, f}rh; vda, 2004	45&47
40. ih lh ikVuh, _f'k dqekj vjksM+k, Mh ch "kkD;okj ,oa fujkin xqIrk	2006	gFk dj k }kjk xyhpk mRiknu ,d ykHkdkjh fodYi	vfoiqat, prqFkZ vda, 2006	12&15
41. Mh ch "kkD;okj, _f'k dqekj vjksM+k, ih lh ikVuh ,oa fujkin xqIrk	2006	Xkyhpk fuekZ.k o blds xq.kork lq/kkj es dEI;qVj dk ;ksxnku	vfoiqat, prqFkZ vda, 2006	22&25
42. Mh ch "kkD;okj, ,u ,u LokbZ] ,oa ,l ikFkZlkjFkh	2007	nf{k.kh {ks=h; vuqla/kku dsanz }kjk HksM+ ikydksa gsrq lefiZr dk;Zdze	vfoiqat, iape~~ vda, 2007	66&69
43. fujkin xqIrk, Mh ch "kkD;okj, ,y vEeI;u ,oa Nxu yky	2009	izkd``frd jaxks ls Ik"ehuk Åu ls fufeZr mRiknksa dh jaxkbZ	vfoiqat, 'k'Be~~ vda, 2009	65&67
44. , ,l ,e jkTk, Mh ch "kkD;okj, iou dqekj ikjhd ,oa ljQjkt vgen okuh	2010	dslj iq'Ik vif"k'V Ik"ehuk ds fy, ,d lHkkfor ikfjflFkfrdh vuqdwj jatd	vfoiqat, liire~~ vda, 2010	5&8
45. vt; dqekj, Mh ch "kkD;okj, , ,l ,e jkTk, vkj ,l f<Yyk,s iou dqekj ikjhd ,oa fiz;adk Vsekuh	2011	jru tksr ,d izeq[k ikfjflFkfrdh vuqdwj jatd lzksr	vfoiqat, v'Ve~~ vda, 2011	36&39
46. , ,l ,e jkTk, vt; dqekj, Mh ch "kkD;okj, iou dqekj ikjhd ,oa fiz;adk Vsekuh	2011	izkd``frd jatdks ij iqujkoyksdu	vfoiqat, v'Ve~~ vd,a 2011	44&50

Research Bulletin					
47.	P Gupta, R K Arora, D B Shakyawar, P C Patni and A K Pokharna	2002	Angora-rabbit Wool – a promising fibre	CSWRI, Avikanagar	48
48.	D B Shakyawar, Sarfaraz A Wani, ASM Raja, Asif H Sofi, Ajay Kumar, P K Pareek and S A Karim	2012	Technologies for Pashmina Fibre: Processing and product Development	CSWRI Avikanagar	46
Leaflets					
49.	, -, l-, e- jktk] Mh-ch- 'kkD;okj] vt; dqekj ,oa fouksn fo".kq dne , -, l-, e- jktk] Mh-ch- 'kkD;okj	2014	izkd`frd jatdksa }kjk Åuh mRiknksa dh jaxkbZ o dhV izfrjks/kh la;qDr izØe izkd`frd jatdksa }kjk Åuh mRiknksa dh jaxkbZ o dhV izfrjks/kh la;qDr izØe	CSWRI Avikanagar	6
50.	D B Shakyawar, S A Wani, Ajay Kumar, VV Kadam, P K Pareek and S M K Naqvi	2014	Development of standard norms for different qualities of pashmina shawls	CSWRI Avikanagar	4
51.	Kumar Rajiv, Shakyawar DB, Pareek PK, Prince LLL, Meena S Amar, Kumar Satish, Raja ASM, Wani Sarfaraz A and Karim SA	2013	PCR Based Identifictaion of Pashmina Fibre in Sheep Wool Blends	CSWRI, Avikanagar and SK UAST-K.	6
52.	Wani Sarfaraz A, Sofi H Asif, Shakyawar DB, Mattoo FA, Yaqoob Ishrat and Malik AH	2013	Fabrication of Table Top Paddle Operated Charkha.	SKUAST-K and CSWRI, Avikanagar.	6
53.	D B Shakyawar, Ajay Kumar, A S M Raja, VV Kadam, P K pareek	2012	Oon va vishist Roshong Ka Prasanghskarna Evam Unke Uthpathan Ka Vikas, 2012, (In Hindi)	CSWRI Avikanagar	6
54.	Shakyawar DB, Raja A S M, Kumar Ajay, Pareek P K, Wani SA and Karim SA	2012	Development of Machine spinning process for pashmina fibre using PVA and Nylon carrier fibre	CSWRI Avikanagar	6
55.	Shakyawar DB, Wani Sarfaraz A, Raja ASM, Kumar Ajay, Sofi H Asif, Pareek PK and Karim SA	2012	Application of Natural Colours on Pashmina Shawls	CSWRI, Avikanagar and SKUAST-K	6
Success Stories					
56.	D.B.Shakyawar, Raja A.S.M., Ajay Kumar and V.V.Kadam	Jan-2012	Good quality yarn from South Indian Coarse wool	ISSGPU News Letter	3
57.	V.V.Kadam, Ajay Kumar, Raja A.S.M and D.B Shakyawar	July-2012	Wool based Geotextiles for Agricultural Application	ISSGPU News Letter	3

Papers presented in Conference/Seminar/Symposian /Workshop published as Lead/invited papers

SNo.	Author (s)	Title	Name of seminar/conference and venue	Period
1.	D B Shakyawar and S G Prasad	Identifying opportunities & stretgies of Nano technology	National Conference on Frontiers at the Chemistry-Allied Science Interface Jaipur	Mach 13-14, 2015
2.	D B Shakyawar, VV Kadam and Ajay Kumar	Prospects of Value addition of coarse wool produced in India	National Seminar on Prospects and Challenges in small ruminants production, TNAU Sandhyanalla (TN)	Dec. 11-12, 2014
3.	D B Shakyawar, Ajay	Present status and future	Shatabdi Celebration and National	Nov. 1-2, 2014

	Kumar and V V Kadam	prospects of Natural Fibres	Seminar	
4.	Wani Sarfaraz A, Sofi H Asif and Shakwayar DB.	“Status and Prospectus of Pashmina Production and Utilization. (in) held	Proceedings of National seminar on sheep and goat biodiversity and breeding policies-issues and prospective at Shirwal Maharashtra, India, pp. 71-77.	21-22 Feb 2014
5.	D B Shakyawar & A S M Raja	Value chain on enhancing profitability of wool and speciality hairs	National Seminar on “Future Challenges and opportunities to improve health and production of small ruminants” at Makhdoom, pp-38-48	Dec. 22-23, 2012.
6.	D B Shakyawar, A S M Raja and Ajay Kumar,	Recent Developments in the Processing of Angora rabbit hair in handloom Sector,	Seminar on Angora Wool production and its Utilisation in Handloom sector” at Kullu (HP) Souvenir cum Compendium pp29-38.	June 22, 2012
7.	Mh ch “kkD;okj	QsYV dh xq.kork es lq/kkj dh lHkkoukWaaaaa,	nLrd&fMtkbu }kjk uenk vksj QsYV m/kksx ds lokZxh.k fodkl dh igy] #Mk] t;iqj	28 tqykbZ] 2012
8.	S. A. Karim and D. B. Shakyawar	Present status and future strategies of wool production, processing and product manufacture	National Seminar cum workshop on “Recent R&D initiatives and Development Schemes of Wool and Woollens”, Wool Research Association, Mumbai	May 28, 2011
9.	Shakyawar D.B., Ammayappan L., Mahesh Sharma, and Chhagan Lal	Value addition of Pashmina woollen products using natural dyes	Stress Management in small Ruminant Production and Product processing, Jaipur	Jan 29-31, 2010
10.	S A Wani, Asif H Sofi and D B Shakyawar	Advances in Pashmina wool processing and value addition	Stress Management in small Ruminant Production and Product processing, Jaipur	Jan 29-31, 2010
11.	Karim, S.A. and Shakyawar, D.B.	Present status and future prospectus of animal fiber products processing and product manufacturing	Proceedings of International conference on Emerging trends in Production, Processing and utilization of Natural Fibres Vol, I 88-99. (Organized by Indian Society for Cotton Improvement (ISCI) Mumbai,	16-18, April 2009
12.	Shakyawar D B, Gupta N P, and Wani S A	Value added quality Pashmina products development, its marketing and future perspectives	Proceedings of one day interactive meet on Challenges in speciality fibres (Pashmina and Angora) production and prospectus of their utilization at Kullu pp 70-78.	13 th July 2009
13.	D B Shakyawar	Wool & Woollen Industry of India- Its present status & future prospects	National Seminar on Indian Textile: Vision 2020 organized by OBA GCTI, at Kanpur	Sept 30-Oct. 1, 2007
14.	Patni P C, Arora R K & Shakyawar D B	Processing of wool and speciality fibers”, Workshop on Angora wool development programme in hill areas of Uttaranchal:	Scope & opportunity organized by HIFEED, Ranichauri	5-6 September 2006
15.	P C Patni, D B Shakyawar & N P Gupta	Studies on Animal fibre Blended hand made felts,	Seminar on Status & Prospects of Wool Felt & Namdha industry organized by CSWRI, CWDB, RUDA, AIWFNA & ISSGPU	Aug. 19, 2004

16.	D B Shakyawar, N P gupta & R K Arora,	Present status & Future prospects of woollen felt industry	Seminar on Status & Prospects of Wool Felt & Namdha industry organised by CSWRI, CWDB, RUDA, AIWFNA & ISSGPU.	Aug. 19, 2004
17.	N P Gupta, D B Shakyawar & V K Singh	Wool Based Technical Textiles & their application in Civil Engineering	National Seminar on Geo Textiles in Civil Engineering, NIRJAFT, Kolkotta	Nov. 26-27, 2004
Papers presented in International Conference/Seminar/Symposian /Workshop published				
18.	D B Shakyawar and VV Kadam	Comparative Performance of Pure Angora and Wool Angora Blended fabrics	International Conference on Natural Fibres NIRJAFT Kolkotta pp-145	Aug. 1-3, 2014
19.	V V Kadam, D B Shakyawar, Ajay Kumar and S M K naqvi	Woollen Namda Handicrafts: Value addition and women empowerment	International Conference on Natural Fibres NIRJAFT Kolkotta, pp-174	Aug. 1-3, 2014
20.	Shakyawar D B, Raja A S M, Wani S A, Kadam V V and Pareek P K.	Low stress mechanical properties of Pashmina shawls with reference to Comparison of hand spun and machine spun fabric.	<i>Proceedings of International conference on Advances in fibres, finishes, technical textiles and nonwovens</i> , held during at Mumbai, India.	1-2 October 2013.
21.	A S M Raja, D B Shakyawar, Ajay Kumar, P.K. Pareek and Priyanka Temani,	“Utilization of Saffron Flower Extract for the Development of Medicinal Textiles”	4 th International Saffron Symposium: Advance in Saffron Biology & Technology & Trade,	Oct-22-25, 2012
22.	D B Shaktayawr, A S M Raja, Ajay Kumar and P Temani	Technical Felt from South Indian Wool	International Conference on Industiral Textiles, Coimbatore	Aug. 3-4, 2012
23.	Chhagan Lal, D B Shakyawar, A. S. M. Raja, Pawan K. Pareek, Kuldeep K. Sharma and Mahesh C. Sharma,	<i>Natural dye constituents from husk of Juglans Nigra and its application on Pashmina (Cashmere) fabrics,</i>	International Seminar on “Heterocyclic Chemistry” at Jaipur	Dec. 10-13, 2011
24.	D.B.Shakyawar, N.P.Gupta and A.S.M.Raja,	Studies on Low Stress Mechanical Properties of shawls produced from Wool and Specialty Hair Fibres,	39 th Textile Research Symposium, organized by IIT Delhi	2010
25.	A.S.M.Raja, D.B.Shakyawar, P.K.Pareek and S.A.Wani	Dyeing of pashmina shawls using extracts of saffron flower and onion peel off waste	39 th Textile Research Symposium, organized by IIT Delhi	2010
26.	Nazir Ahmed, D B Shakyawar and S A Wani	Comparative Study on hand value of Pashmina Shawl developed using hand and machine spun yarns	39 th Textile Research Symposium organized by IIT Delhi	2010
27.	D B Shakyawar, P C Patni & N P Gupta	Application of computer aided statistical tools for decision making in construction of hand knotted carpets	International Conference on Textiles and Clothing Management, Coimbatore	Dec. 13-15, 2004

28.	N P Gupta & D B Shakyawar	Role of Biotechnology in fibre production and its processing	Xth International Congress of AAAP New Delhi (India)	Sept 23-27, 2002
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Papers presented in Conference/Seminar/Symposian /Workshop published as contributory /Abstract

SNo.	Author (s)	Title	Name of seminar/conference and venue	Period
1.	V V Kadam, Kumar Ajay, Raj Kumar, D B Shakyawar and S M K Naqvi	Innovative household handicrafts from coarse wool – A source of sustainable livelihood	National Seminar on Prospects and Challenges in small ruminants production, TNAU Sandhyanalla (TN)	Dec. 11-12, 2014
2.	Rajiv Kumar, Satish Kumar, P K Pareek, D B Shakyawar and S M K Naqvi	Development of PCR based techniques for detection of rabbit hair in textile blends	National Seminar on Prospects and Challenges in small ruminants production, TNAU Sandhyanalla (TN)	Dec. 11-12, 2014
3.	V V Kadam, S Singh, J P Bairwa, D B Shakyawar and S M K Naqvi	Use of waste wool in Agriculture for yield improvement	National Seminar on Prospects and Challenges in small ruminants production, TNAU Sandhyanalla (TN)	Dec. 11-12, 2014
4.	Ajay Kumar, A S M raja, VV Kadam, D b Shakyawar and P K Pareek	Technical felt South Indian wool for oil absorption	National Seminar on Prospects and Challenges in small ruminants production, TNAU Sandhyanalla (TN)	Dec. 11-12, 2014
5.	Lal C, Shakyawar D B, Pareek P K, Sharma K K and Sharma M C.	Natural dye and its bonding with Pashmina fabric	<i>Proceedings of National conference on chemistry for Economic Growth and Human Comforts</i> , held during at Jaipur, India	31 August, 2013
6.	A S M Raja, D B Shakyawar, Ajay Kumar, P K Pareek,.	Antimoth finishing for woollens using natural dyes.	<i>Proceedings of National seminar on Prospects in improving production, marketing and value addition of carpet wool</i> held at Bikaner, India	Dec. 31 2013
7.	D B Shakyawar, L Ammayappan, P K Pareek and Chhagan Lal.	Extraction of natural colorants from agricultural residues and their application on woolen fabric.	<i>Proceedings of National seminar on sheep and goat biodiversity and breeding policies-issues and prospective</i> held at Shirwal Maharashtra, India	21-22 Feb 2014
8.	A.S.M. Raja, D.B. Shakyawar, Ajay Kumar, P Temani, P K Pareek	Improvement in functional property of angora wool blended shawls	National Seminar on “Future Challenges and opportunities to improve health and production of small ruminants” at Makhdoom, p-122	Dec. 22-23, 2012.
9.	Vinod V Kadam, L R Meena, D B Shakyawar, Ajay Kumar & Shyam Singh	Wool based geotextiles for agriculture use	National Seminar on “Future Challenges and opportunities to improve health and production of small ruminants” at Makhdoom, p-118	Dec. 22-23, 2012.
10.	Ajay Kumar, A.S.M. Raja, D.B. Shakyawar and P K Pareek	Efficay of Natural colour from Babbol bark	National Seminar on “Future Challenges and opportunities to improve health and production of small ruminants” at Makhdoom, p-126	Dec. 22-23, 2012.

11	Ajay Kumar, D.B. Shakyawar A.S.M. Raja, Vinod V Kadam and N L Meena	Performance of handloom carpet from native and crossbred sheep developed for carpet wool	National Seminar on “Future Challenges and opportunities to improve health and production of small ruminants” at Makhdoom, p-127	Dec. 22-23, 2012.
12	D B Shakyawar, Ajay Kumar, P K Pareek, A S M Raja and Priyanka Temani	Phytochemical analysis of natural dye from Berberis lycium and application on Pashmina shawl	National seminar on “Chemistry of Primates: Green Chemistry” at Ajmer	Nov. 29-30, 2012.
13	A.S.M. Raja, D.B. Shakyawar, Vinod V Kadam	Development of handicraft woollen products	National Seminar on “Future Challenges and opportunities to improve health and production of small ruminants” at Makhdoom, p-117	Dec. 22-23, 2012.
14	A.S.M. Raja, D.B. Shakyawar, Ajay Kumar, P Temani, P K Pareek	Improvement in functional property of angora wool blended shawls	National Seminar on “Future Challenges and opportunities to improve health and production of small ruminants” at Makhdoom,	Dec. 22-23, 2012.
15	Sofi H Asif, Wani Sarfaraz Shakyawar DB, Yaqoob Ishrat, Pareek pawan and Jalal Heena.	Quality of hand spun hand woven kashmiri pashmina shawls	<i>Proceedings of National seminar on sheep and goat biodiversity and breeding policies-issues and prospective held at Shirwal Maharashtra, India.</i>	21-22 Feb 2014
16	fnus "k ckcw "kkD;okjj ljQjkt vgen okuh] ,-,l- ,e- jktk ,oa iou dqekj ikjhd	Ik "ehuk "kkWy dh mRikndrk c<+kus ,oa ewY; lao/kZu gsrq vuqla/kku o fodkl dk;Z	jk'Vh; lEesy uSlfxZd js "kksa esa vk/kqfud mUufr;kWa "kks/k i=iqfLrdk dsUnzh; dikl izkS/kksfxdh vuqla/kku laLFkku] egacbZ	25 vizsy 2011
17	Raja A S M, Shakyawar D B, Ajay Kumar, Parikh P K and Wani S A	Development of eco-friendly dyeing and antimoth finishing process for pashmina fabrics,	National Seminar on Prospects and Retrospect of Small Ruminat and Rabbit Production: Contribution to Socio- economic Security,pp 160.	Dec. 7-9, 2011, Jaipur
18	Kumar Ajay, Shakyawar D B, Raja A S M, and Narula H K	Performance characteristics of carpets from Magra and Bikaneri Chokla carpet grade wools”	National Seminar on Prospects and Retrospect of Small Ruminat and Rabbit Production: Contribution to Socio- economic Security,pp 161.	Dec. 7-9, 2011, Jaipur
19	Shakyawar D B, Raja A S M, Temani P, Wani S A, Kumar Pramod, Mathuria Sukhram and Prasant,	Low stress Mechanical Properties of pashmina blended shawls using SIROFAST”	National Seminar on Prospects and Retrospect of Small Ruminat and Rabbit Production: Contribution to Socio- economic Security, 163.	Dec. 7-9, 2011 Jaipur
20	Kumar Rajiv, Parikh P K, Prince L Leslie Leo, Raja A S M, Shakyawar D B,	Development of simple duplex PCR for identification of sheep wool in pure pashmina shawl,	National Seminar on Prospects and Retrospect of Small Ruminat and Rabbit Production: Contribution to Socio- economic Security, pp 161	Dec. 7-9, 2011, Jaipur
21	Shakyawar D B, Raja A S M and Ajay Kumar	Characterization of wool and other animal fibres using scanning electron microscopy	National Seminar on Prospects and Retrospect of Small Ruminat and Rabbit Production: Contribution to Socio- economic Security, Jaipur pp 165	Dec. 7-9, 2011
22	Kumar Ajay, Shakyawar D B, Raja A S M and Meena N L;	Comfort properties of pure cross bred wool and Angora blended shawls	National Seminar on Prospects and Retrospect of Small Ruminat and Rabbit Production: Contribution to Socio- economic Security, Jaipur, pp 166	Dec. 7-9, 2011
23	Raja A S M, Shakyawar D B, Ajay Kumar and Temani P	A study on feltability of south Indian coarse wool	National Seminar on Prospects and Retrospect of Small Ruminat and Rabbit Production: Contribution to Socio- economic Security, Jaipur, pp 165	Dec. 7-9, 2011

24.	Krofa Dinesh, Mandial R K, Thakur YP, Shakyawar D B and Pareekh P K;	Effect of spinning techniques on handle of pashmina fabric	National Seminar on Prospects and Retrospect of Small Ruminant and Rabbit Production: Contribution to Socio- economic Security Jaipur, pp 167	Dec. 7-9, 2011,
25.	Shakyawar D B, Pareekh P K, Sofi Asif H, Kumar Pramod, Mathuria Sukhram and Prasant,	Subjective assessment of Pashmina blended shawls,	National Seminar on Prospects and Retrospect of Small Ruminant and Rabbit Production: Contribution to Socio- economic Security, Jaipur, 168	Dec. 7-9, 2011
26.	Nazir A Bumla, Sarfaraz A Wani, Asif H Sofi, D B Shakyawar, Ishrat Yaqoob and F D Seikh	Physico-mechanical quality of Changthangi Pashmina fibre,	Proceedings of Ist Jammu & Kashmir Agricultural Science Congress, SKUAST, Srinagar, pp-324	Sept. 8-10, 2011
27.	Nazir A Bumla, Sarfaraz A Wani, D B Shakyawar, Asif H Sofi, Ishrat Yaqoob and F D Seikh	Effect of machine dehairing of Pashmina fibre	Proceedings of Ist Jammu & Kashmir Agricultural Science Congress SKUAST, Srinagar pp324	Sept. 8-10, 2011
28.	Nazir A Bumla, Sarfaraz A Wani, D B Shakyawar, Asif H Sofi, Ishrat Yaqoob and F D Seikh	Comparative study on quality of shawls made from Hand and Machine spun pashmina yarn	Proceedings,of Ist Jammu & Kashmir Agricultural Science Congress SKUAST, Srinagar. Pp-325	Sept. 8-10, 2011
29.	Nazir A Bumla, Sarfaraz A Wani, D B Shakyawar, Asif H Sofi, Ishrat Yaqoob and F D Seikh	Comparative study on the physic-mechanical quality of hand spun and machine spun pashmina yarn	Proceedings of Ist Jammu & Kashmir Agricultural Science Congress, , SKUAST, Srinagar. Pp-326.	Sept. 8-10, 2011
30.	Sarfaraz A Wani, Asif H Sofi, Ishrat Yaqoob and D B Shakyawar,	Comparative study on quality of pashmina yarn spun on Traditional and innovative charkha	Proceedings of Ist Jammu & Kashmir Agricultural Science Congress SKUAST Srinagar. Pp-327	Sept. 8-10, 2011,
31.	D B Shakyawar and N P Gupta	Value addition of wool through felt manufacturing	Stress Management in small Ruminant Production and Product processing, Jaipur,	Jan 29-31, 2010
32.	Ammayappan L., Jeyakodi Moses J., Raja A.S.M., and Shakyawar D.B	Study on physical and mechanical properties of wool/cotton union fabric treated with enzymes and finishing chemicals	Stress Management in small Ruminant Production and Product processing, Jaipur	Jan 29-31, 2010
33.	Ammayappan L., Shakyawar D.B., and Gupta N.P	Optimization of dyeing condition for wool//cotton union fabric with direct dyes using Box-Behnken design,	Stress Management in small Ruminant Production and Product processing, Jaipur	Jan 29-31, 2010
34.	Shakyawar D.B., Ammayappan L., Mahesh Sharma, and Chhagan Lal	Value addition of Pashmina woollen products using natural dyes	Stress Management in small Ruminant Production and Product processing, Jaipur	Jan 29-31, 2010
35.	Shakyawar D.B., Raja A.S.M., Ammayappan L., and Gupta N.P.	Studies on Bharat Merino wool-rabbit hair blended shawls	Stress Management in small Ruminant Production and Product processing, Jaipur,	Jan 29-31, 2010
36.	Shakyawar D.B., Gupta N.P., Ammayappan L., and Raja A.S.M.	Studies on Magra wool-nylon blended hand knotted carpet,	Stress Management in small Ruminant Production and Product processing, Jaipur	Jan 29-31, 2010

37.	Raja A.S.M., Thilagavathi G., Shakyawar D.B. and Ammayappan L.	A single bath dyeing and antimicrobial finishing of wool using natural dye obtained from Tanner's Senna	Stress Management in small Ruminant Production and Product processing, Jaipur	Jan 29-31, 2010
38.	Gupta N.P., Shakyawar, D.B. and Ammayappan, L	Studies on wool blended pressed felts	National conference on Advances in Chemicals for Textile Polymers and Quality Assurance, PSG College of Technology, Coimbatore,	February 12-13, 2009
39.	D.B.Shakyawar	Wool and Woollen Industry of India	64 th All India Textile Conference at Bhilwara	Dec. 20-21, 2008.
40.	D B Shakyawar, A S M Raja and S Parthsarathy	Spinnability of short fine crossbred wool produced in southern India	Second National Conference IYQM, Satyamanagalam TN	Oct. 11-12, 2007
41.	D B Shakyawar, S Parthsarthy and B K Behera	Influence of softening treatments on hand value of woven fabrics produced from Indian wool and their blends	National Conference on ACTPAQ 2007, Department of Chemistry, PSG College of Technology, Coimbatore	Aug. 10-11, 2007
42.	D B Shakyawar	Wool & Woollen Industry of India- Its present status & future prospects	National Seminar on Indian Textile: Vision 2020 organized by OBA GCTI, at Kanpur	Sept 30-Oct. 1, 2007
43.	Patni P C, Arora R K & Shakyawar D B	Processing of wool and speciality fibers", Workshop on Angora wool development programme in hill areas of Uttaranchal:	Scope & opportunity organized by HIFEED, Ranichauri	5-6 September 2006
44.	D B Shakyawar	Development in blankets on Handloom	General awareness workshop on 'Wool & Woollen Products – Indian Scenario at SKICC Srinagar	May 24-25 2005
45.	Gupta NP, Shakyawar DB, Mathur JP and Dagur RS	New source of Natural colour & their application on wool	National Conference on "Traditional knowledge system at IIT, Kharagpur	9-11, January 2004
46.	Gupta NP, Shakyawar DB, Mathur JP and Dagur RS	Use of natural mordants in dyeing of wool	National Conference on "Traditional knowledge system" at IIT, Kharagpur	9-11, January 2004
47.	D B Shakyawar, N P Gupta & R K Arora	Wool Based Dref spun Bi-component yarns for home textiles, International conference on	High performance Textiles & Apparels organized by Kumarguru College of Technology, Coimbatore.	July 7-9, 2004
48.	P C Patni, D B Shakyawar & N P Gupta	Studies on Animal fibre Blended hand made felts,	Seminar on Status & Prospects of Wool Felt & Namdha industry organized by CSWRI, CWDB, RUDA, AIWFNA & ISSGPU	Aug. 19, 2004
49.	N P Gupta, D B Shakyawar & V K Singh	Wool Based Technical Textiles & their application in Civil Engineering	National Seminar on Geo Textiles in Civil Engineering, NIRJAFT, Kolkotta	Nov. 26-27, 2004

50.	D.B. Shakyawar & N.P. Gupta	Pollution Minimization Appearances in Woollen Textile Industry	Presented in Conference on Environment Management in Textile Industry at IIT, Delhi	April 11-12, 2003
51.	D B Shakyawar, N P Gupta, R S Dagur, Chetan Kumar, S K Chattopadhyay	Dyeing of wool –cotton blend with reactive dye	National seminar on Recent advances in Natural Fibre Research, organised by IFS, Mumbai CRIJAF & CIRCOT (ICAR)	Dec. 15-16, 2001
52.	D B Shakyawar, N P Gupta, S Srinivasan	Low-stress mechanical properties of Remie-Polyester Blended fabric	National seminar on Recent advances in Natural Fibre Research, organised by IFS, Mumbai CRIJAF & CIRCOT (ICAR)	Dec. 15-16, 2001
53.	D B Shakyawar, N P Gupta, P C Patni and R K Arora,	Biodiversity in Animal Fibres Properties and utilization,	National Symposium on Biodiversity vis –a-vis Resource Exploitation : An introspection, Port Blair	April 23-24, 2001
54.	D B Shakyawar JP Mathur & NP Gupta	Dyeing of Rabbit hair and cotton blended fabric with vegetable colourant	National Seminar on cotton held at CIRCOT, Mumbai	23 rd Dec., 2000
55.	N P Gupta, A K Pokharna, D B Shakyawar, R N Singh	Status of Angora wool Production & Utilization in India	7 th World Rabbit Congress held at Valencia, Spain	4-7 th July, 2000
56.	N P Gupta, D B Shakyawar, A K Pokharana, R K Arora, P C Patni	Blending of Cotton with wool and speciality Hair Fibres and their Dyeing	National Seminar on Cotton and Blended Textiles” held at CIRCOT, Mumbai	23 rd Dec., 2000
57.	D B Shakyawar	Studies on Union Dyeing of Wool-Cotton Blended Yarns with Natural Dyes	National Seminar on on Cotton and Blended Textiles” held at CIRCOT, Mumbai	23 rd Dec. 2000
58.	N P Gupta, D B Shakyawar & R N Singh	Angora Wool Blending with other Fibres.	National Seminar held at SITRA, Coimbatore	19 th Nov., 2000
59.	N.P.Gupta and D.B. Shakyawar ;	Oon avam oon adharit udyog ki samasyain and samadhan	Seminar organised by Indian Agricultural research commettee Karnal	3-5 June 1996.
60.	N.P.Gupta, D.B. Shakyawar J.P. Mathur S.S. Kalsy and A.K. Pokharana	Spinning of wool and speciality hair fibres on Dref- 2	National Seminar on Non-conventional spinning system. at MLVTI Bhilwara	April 925-26, 1996
61.	N.P.Gupta and D.B.Shakyawar	Present status and future prospects of wool in rural development	Workshop organised by Wool Development Board at Jodhpur	Jan 9, 1995.
62.	D.B.Shakyawar , N.P. Gupta & Nikhil verma	Some Studies on Rabbit Hair - Acrylic blends,	3rd National seminar on Seep and goat production & utilisation at CSWRI, Avikanagar	April 8-10, 1995
63.	N.P.Gupta, D.B.Shakyawar , Nikhil Verma & R.D. Sinha	Some studies on Bharat Merino Wool - Polyester blended products	National seminar on recent advances in Textiles Organised by Institution of Engineers (India) at Bhopal,	11-12 Nov. 1994

64	M.Ahmed, <i>D.B.</i> <i>Shakyawar,</i> Bhyrappa M.S.Parthsarthy	K.S. &	Effect of Tightness Factor on Physical Properties of cotton Knitted fabrics	35th Technological conference jointly sponsored by ATIRA,BTRA, SITRA & NITRA at New Delhi.	1993
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