

Curriculum Vitae



Name Dr. Satendra Kumar Singh

Father's Name Late Sri Ram Swarth Singh

Permanent Address Vill. Bhulli, P.O. Bhadeora, Dist. Jaunpur. UP.

Designation Principal Scientist (AG&B), and Incharge ARIS Cell

Date of Birth Jan. 10, 1960

Address Central Institute for Research on Goats, P.O. Farah, Dist. Mathura 281122, UP. India

Education Ph.D. (Animal Breeding)

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Name	Dr. Satendra Kumar Singh	Date of Birth	10	01	1960	Designation	Principal Scientist (Animal Genetics and Breeding)
Address	Central Institute for Research on Goats, Makhdoom, Farah, Mathura, 281122, UP India	Age as on 1st July 2010	-	-	50	Present Pay Scale, Basic Pay, Gross Salary	Rs. 37,400-67,000 Rs. 45900.00 Rs. 73000.00

A. Academic Qualifications							
Level	Degree	Institute/ Board/ University	Year	Subject(s) with major field	Fellowship / Scholarship	Class/ Division/ Grade/ Marks	Rank/Medal/ Award
Graduation	B. Sc. (Ag)	Gorakhpur	1980	Agriculture	--	First	Not Applicable
Masters	M. Sc. (Ag)	GBPUA&T, Pantnagar Nainital	1983	Animal Breeding with minor in Statistics	Graduate Teaching / Research Assistantship of GBPUA&T, Pantnagar, Nainital (Full time)	1 st . (5.00 OGPA / 5.00) Equal to 90.00 %	First, Obtained highest marks ever secured by a student in the subject. Highest admissible marks given by GBPUA&T, Pantnagar, Nainital

*Ph. D.	Ph. D.	GBPUA&T, Pantnagar Nainital	1988	Animal Breeding with minor in Animal Physiology	ICAR Senior Fellowship (General category) through open advertisement	No division is awarded by the University for Ph. D. degree . OGPA 4.595/5.00 equal to 83.5 % Marks	Not Applicable
Post-Doc.	--	--	--	--	--	--	--
Other	--	--	--	--	--	--	--
Date of Registration of Ph. D.			Dec. 5, 1983 (As a student)				
Date of Viva-Voice/completion of Ph. D.			August 1988 (The course and research work was completed by March 1985 however thesis submission was delayed as I joined ARS on 22/03/1985) November. 1988				

Note: Please enclose self-addressed photocopies of 1. Proof of date of birth; 2. M.Sc./M.E /M.Tech. Degree and 3. Ph.D. Degree.

Employment Record & Experience (Starting from Present Position)

Note: Candidate applying for RMP posts should indicate specifically in their application form the duration and period of service rendered in HOD position (in regular capacity) and do not mix it with the service rendered as Principal Scientist.

Designation	Pay Scale (Rs)	Nature or Work	Organization	Institution & Place of Posting	Period (From – To)	*Duration (Years, Months)
Principal Scientist (AG&B)		Research and Extension	ICAR New Delhi	CIRG, Makhdoom	March 22, 2006 -- Continue	3 years and 8 months
Senior Scientist (AG&B)	12000-18300	Research and Extension	ICAR New Delhi	CIRG, Makhdoom	March 22 1998-- March 21, 2006	8 Years
Scientist Senior Scale (AGB)	3000-4500	Research and Extension	ICAR New Delhi	CIRG, Makhdoom	22 March 1990- 21 March 1998	8 years
Scientist (AG&B)	2200-4000	Research and Extension	ICAR New Delhi	CIRG, Makhdoom	1 st Jan. 1986 – 21 March 1990	4 years and 2 months
Scientist S-1 (AG&B)	700-1300	Research	ICAR, New Delhi	CIRG, Makhdoom	22 nd March 1985-31 Dec. 1985	8.5 months
Senior Research Fellow	600 Fixed	Research	GBPUAT Pantnagar	Pantnagar, Nainital	Dec. 1983 March 1985	16 months
Graduate Teaching Assistant	250 fixed	Teaching/ Research	GBPUAT Pantnagar	Pantnagar, Nainital	Oct. 1981- Oct 1983	Equivalent to 12 months of Regular service of the University

***Note:** Post –Doctoral work experience may also be included.

Consolidated duration of different positions in the following pay scale or equivalent scale		
	From	To
Post -Doctorate	--	--
Rs. 8,000 – 13,500 (Pre-revised)	March 22, 1985	March 21, 1990 (5 years)
Rs. 12,000 – 18,300 (Pre-revised)	March 22, 1990	March 21, 1998 (8 years)
Rs. 16,400 – 20,000 (Pre-revised)	March 22, 1998	March 21, 2006 (8 years)
Rs. 16,400 – 22,400 (Pre-revised) & Rs. 37,400-67,000, Grade Pay Rs 10000/-	March 22, 2006	To date (4 years and 4 months)
Rs. 25,000 Fixed (Pre-revised)		

C. Service in relevant field
Research papers in the relevant field of specialization (Mention total number and serial numbers as mentioned in published list)
Research Papers = 30
Book = 3 (under process)
Edited Proceeding = 1
Manual = 3
Other Publications = 105

Training attended in the relevant field of specialization (Mention title, Duration, institution, location etc.			
Title	Duration	Institution	Year
1.Summer Institute on “<u>Intensive Mutton Production</u>”	June 4-28, (24 days)	CSWRI, Avikanagar (Rajasthan)	1985
2.XXII Foundation Course on “Agriculture Research Management”	June 17 to Nov. 7,	NAARM, Hyderabad.	1986
3.Workshop on “<u>Cloning, Sequencing and Chromosomal Localization of Animal Genes</u>”	March 6-20,	Bose Institute, Calcutta	1989.
4.Workshop on “<u>Cloning and Characterization of Animal Genes</u>”	Dec. 3-21, 1991	Bose Institute Calcutta.	1990.
5.Training programme in “<u>Use of Computer in Agriculture Research</u>”	18th to 30th Sept, 1991	IASRI, New Delhi.	1991
6.<u>Information System for Livestock Research and Development.</u>	1-3 March 1993.	CSWRI, Avikanagar (Rajasthan)	1993
7. <u>PC-Based Databases and Software Packages.</u>	July 26-29	NDRI, Karnal (Haryana)	1995.
8.<u>Management Information Systems.</u>	June 9-21,	NAARM Hyderabad.	1996.

9. <u>Applications of Linear Models in Animal Breeding'</u>	Aug. 27-September 12,	NDRI, Karnal.	1997
10.First ARIS Workshop at New Delhi	17-18, August.	ICAR, New Delhi	1998
11.<u>Networking using Sun Solaris</u>	from <u>21st</u> to <u>25th</u> September,	CAZRI, Jodhpur (Rajasthan)	1998.
12.<u>FTDMA VSAT Programme</u>	22 -23, October	NIC, CGO Complex, New Delhi.	1998.
13.Second ARIS workshop at New Delhi	March 5-8	ICAR, New Delhi	1999
14. JAVA Programming	Dec. 4-16, 2000.	IASRI, New Delhi.	2000
15.GIS Application in Agriculture,	Nov. 20-30, 2003	NAARM, Hyderabad.	2003
16.Introduction of LAN, WAN Technologies.	02/08/2004 to 06/08/2004 t	Electronic Niketan, ERNET India, MIT. New Delhi.	2004
17.Capacity Building for Sustainable use of Animal Genetic Resources in Developing countries.	Held 13th February to 03rd March, 2006	ILRI, Kenya and Swedish University of Agriculture at University of Peradeniya, Sri Lanka (Kandy)	2006
18.Application of MATLAB Techniques in Research. At held between	April. 29-30,	Hindustan College of Science and Technology, Farah , Mathura,	2006
19.Web Standards,Technologies and standardization"	Dec 3-12 2008.	NAIP on AGROWEB and NAAERM, Hyderabad	2008
20.Follow-up of Capacity Building for Sustainable use of Animal Genetic Resources in Developing countries. training course for university organised in collaboration with	Feb 16-18, 2009	ILRI, Kenya and SLU Sweden	2009

Documents Published in the relevant field of specialization (Thesis, Books, Synopsis, Reports, Compendium, Monographs etc.)

Title	Pages	Publisher	Year
M. Sc. Thesis Inheritance Pattern of Plasma Cortisol and its Relationship with Certain Growth Characteristics in Dairy Calves	83	GBPUA&T, Pant Nagar, Nanital	1983
Ph.D. Thesis Genetic Differences in Profitability and Development of Prediction Equations in Sahiwal and its F₁ Crosses with Jersey and Holstein-Friesian.	233	GBPUA&T, Pant Nagar, Nainital	1988
A manual on Regional training on Linux	65	IPGRI, NAAS, New Delhi	2001

Singh, S.K. Networking with Linux	61	CIRG, Mathura	
Book Goat Production in India Singh, S.K. Kumar, S. Kumar, Ashok., Rai, B.	120	Under Revision	2009
Technical Bulletin No.5, Agrawal, K.P., Singh, S.K. Pashudhan Vikas Main Bhrun Pratiropan. Swet Kranti Ki Disa Main Naya Kadam.	20	CIRG, Makhdoom	1986.
National Livestock Breeding Policy, Compendium & Proceeding of the VIII National Conference on Animal genetics and Breeding	288	Indian Society of Animal genetics and Breeding	2005
Singh, S.K. 1993. Status of breeding Research in Goats at CIRG (1982-1993) 39 p.	39	Published by. Genetics & Breeding Division, Central Institute for Research on Goats, Makhdoom, Farah, Mathura.	1993
Singh, S.K. All India Co-ordinated Research Project on Goat Improvement-Barbari Unit. Annual Report.	38	Pub. Central Institute for Research on Goats, Makhdoom, Farah, Mathura	1994.
Singh, S.K. 1997. All India Co-Ordinated Research Project on Goat Improvement-Barbari Unit. Annual Report	20	Pub. Central Institute for Research on Goats, Makhdoom, Farah, Mathura.	1997
Singh, S.K. Sinha, N.K. and Prasad, H. Network project on Sheep Improvement- Muzaffarnagri Unit. Annual Report Pub. Central Institute for Research on Goats, Makhdoom, Farah, Mathura. 38 p.		Pub. Central Institute for Research on Goats, Makhdoom, Farah, Mathura.	1996
Terminal Report All India Coordinated Research Project on Goat Improvement (Barbari Unit 1993-97)	27		
Singh, S.K. , Gupta, V.K. and Prasad, H. 1997. Network project on Sheep Improvement- Muzaffarnagri Unit. Annual Report Pub. Central Institute for Research on Goats, Makhdoom, Farah, Mathura. 24 p.	24	-do-	1997
Singh, S.K. 2001-02. All India Co-Ordinated Research Project on Goat Improvement-Barbari Unit. Annual Report	23	Pub. Central Institute for Research on Goats, Makhdoom, Farah, Mathura.	1997
Singh, S.K. 2002-03. All India Co-Ordinated Research Project on Goat Improvement-Barbari Unit. Annual Report	30	-do-	2002-03
Singh, S.K. 2003-04. All India Co-Ordinated Research Project on Goat Improvement-Barbari Unit. Annual Report	26	-do-	2003-04

Singh, S.K. 2004-05. All India Co-Ordinated Research Project on Goat Improvement-Barbari Unit. Annual Report	30	-do-	2004-05
Singh, S.K. 2005-06 , 2006-07. All India Co-Ordinated Research Project on Goat Improvement-Barbari Unit. Annual Report	34	-do-	

Significant contribution related to the relevant field of specialization of the post advertised (Patents, Technology, Varieties etc.)

Title	Details of Patent /Registration / Commercialization	Year
Genetically Superior, Performance evaluated with BLUP values, Barbari Goats, Sold to government and other agencies for breed Improvement Purpose (This is addition to goats retained for breeding purpose at the Farm)	Since animals can not be patented it could not be done. All Goats were sold at premium to various agencies for Breed improvement purpose.	
37 Barbari Goats	The FAO of United Nations adopted GLOBAL PLAN OF ACTION FOR ANIMAL GENETIC RESOURCES <i>and the</i> INTERLAKEN DECLARATION on genetic improvement and conservation. Production of breeding animals with predicted breeding values contributes to Global Plan of Action. This is as good as patenting a technology.	2000
133 Goats Barbari		2001
246 Barbari Goats		2002
324 Barbari Goats		2003
252 Goats Barbari		2004
291 Barbari Goats		2005
258 Barbari Goats		2006
174 Barbari Goats		2007
197 Barbari Goats		2008
Approx 200 Barbari goats available for sale		
SKSTAT a software on general Purpose Statistical data analysis	This software follows GNU-General Purpose License. As per this license the source code are to be kept open for public evaluations, Hence the patent was not sought. The software is available on the Institute web site http://www.cirg.res.in	1992 to 2004 (various up grades were released)
Small Ruminant Production & Research Information System (SRPRIS)	An Information system software for small Ruminants, This software aims to create national data base on small ruminants.	2004-2008 (First version released)
BRENDEX, A Computer programme for construction of Selection Indices (General and Restricted) for genetics gains	The Full length paper was published in Ind. J. of Animal Sciences.76(7):546-548	2001-2006

SELIND A another Computer Programme for Construction of selection Indices (Aggregate Breeding value)	Available on Institute web site http://www.cirg.res.in	2000-2003
Brought genetic Improvement at the rate of approx. 1 percent /per year in body weight of Barbari goats under AICRP Goat Improvement Project	The Barbari Flock maintained at CIRG presently passing under 15-18 generations are genetically selected and superior. This flock is used for conservation and improvement of Barbari goats.	1985-2007
Improvement by about 100 percent in Fecundity of Barbari Goats in 20 years.	- do -	- do -
Made genetic Evaluations using three different Multi trait evaluations for variance and Co-variance estimations.(software viz. ASREML, DFREML/Wombat and Pest-VCE-5.)	Animal evaluation for breeding values using multi-trade animal model are tough and demanding task. This was done by me to estimate the breeding values (BLUP). Which indicates genetic merit and potential of each goat.	2000-2007
Email Conferencing System on ARIS. And Library 1. During August 1998, on the recommendation of first ARIS workshop, we developed the first list server *(email conferencing system) using 'majordomo' which was unique in NARS systems of the world. The LISTSERV named aris-net@goat.up.nic.in 2. On the request of CABI, International one email conferencing system lib-net@cirg.res.in was created in CIRG Web server	The email conferencing system developed by me were one of the first email conferencing system of the world on Agriculture aspects. This was major breakthrough on use IT in Agriculture..	August 1998
Email Conferencing System on Animal Production Two email Conferencing system 1. goat-net@cirg.nic.in and 2. livestock-net@cirg.nic.in was created on the recommendation of ICAR.		1999
Email Conferencing System on Crop Production. Following email conferencing system were created on the recommendation of ICAR 1. agri-net@cirg.nic.in 2. crop-net@cirg.nic.in 3. horti-net@cirg.nic.in		1999

Leadership initiatives for Research Management Positions (To be filled up only by candidates for RMP posts)		
Experience related to the post advertised (Designation)	Duration	Institution/ Organization
As a “Member Secretary of task force Committee of ICAR on “ Training and Implementation of Open Source Software in NARS of India ” nominated by ICAR, New Delhi	1998 to 2002	ICAR, New Delhi
I was assigned duty of Unit Incharge of Barbari Farm Unit of AICRP on Goat Improvement during 1993 when I was in Scientist (Senior Scale) while the unit Incharge belong to Senior Scientist Cadre. Maintaining Livestock specially goats a large number is the demanding task which I have been doing till date..	1993 - continuing	Central Institute for Research on Goats Makhdoonm, Farah-281122, Mathura (U.P)

Linkages established	Number	States/National/ International
As Incharge ARIS Cell of CIRG, Mathura I was entrusted with responsibility of creating e-mail conferencing system to provide a common electronic platform for linking up ARIS Cell (more than 250). The job was done within six months.	Seven e-mail conferencing system on various aspect of agricultural were created to provide e-mail conferencing platform for Scientists, Development Workers and Farmers.	National / International The responsibility to create e-mail conferencing system was given to NIC, New Delhi and IASRI, New Delhi by the ICAR. This job could not be completed by both in five years which was done by me in six month only that to without any cost.
As Incharge, PC of AICRP on Goat Improvement.	Prepared the SDFC Document of AICRP on Goat Improvement and made efforts to include 4-5 additional centres. Few centres were approved in XI Five Year Plan	National
R&D initiatives related to WTO / IPR etc.	Number	Projects / Technologies
I am follower of open technology distribution for the benefit of mankind with minimum cost. Although, I have developed about 15 computer programmes and information system which could be patented but I kept them as Open Source Software following GNU-GPL licence is does not allow technology to be patented.		

Initiation of Multi-disciplinary / networking programmes	Number	Outcome
I am working in AICRP on Goat Improvement since 1993 as Incharge Barbari Unit which is multidisciplinary and co-ordinated project.		The project has produced goats of high genetic merit and good health. This was possible because of coordinative effort of Scientist of various disciplines.
Project Co-ordinator (Incharge) of AICRP on Goat Improvement 2006-07.	15	SFC documents for XI Plan period pertaining to AICRP goat was prepared and submitted.
Energising ARIS Network of ICAR as Member Secretary of National task force Committee, through Implementation of OSS/FS group of software as Incharge, ARIS Cell of CIRG, Makhdoom. Mathura	100	I am involved in Project ARIS of ICAR since its inception. We brought about 100 Institutes/ Universities functional by implementing OSS/FSS (Free Software available on Internet) under NARS of India.
Funds attracted (Mention details)	Lakh Rs.	Contribution to growth in allocation
As I/C Project Cordinator, XI Plan Proposal for approximately 15 cores was sent to the authorities for approval.	1500 Lakh (approx.).	Proposal for inclusion 5-6 units were made at early stage.
Services in SAUs, Central Institutes etc. (Mention programme details)	Funds	SAUs & Organizations
AICRP on Goat Improvement, Barbari Unit Year 1993 - 2007	100 lakhs (approx.).	Central Institute for Research on Goats Makhdoonm, Farah-281122, Mathura (U.P)
GGB 1.05 Performance studies and improvement in productivity and reproductivity in Indian goat breeds through selection Sub project (ii) Barbari Year 1985 - 1993	20 Lakhs (approx.)	Central Institute for Research on Goats Makhdoonm, Farah-281122, Mathura (U.P)
Bringing Institutional and Personal recognition	No. of Awards	Details
Produced and sold approximately 1800 genetically superior Barbari goats (with known breeding value) to National and International Agencies.	--	Barbari Goats to Vietnam and State Governments were speared for breed improvement purpose
I was one amongst the first	-----	Considering my contribution in use of

persons to started use of Open Source Software , Free Software(OSS/FS) technology in the National Agriculture Research System of the countries Using the software I made the first functional LAN of NARS of India at CIRG in 1997.		OSS/FS in NARS of India the ICAR nominated me as the first Member Secretary of the task force committee for capacity building on use of LINUX in NARS leaving experts having basis degree in Electronics and Computer Science. (ICAR office order No. 7-37/98-IA.II (AE). Dated 6th Nov. 1998.)
Hosted the first website of NARS of India at Institute Severer using LINUX Operating System with out any cost which begin the role model for NARS of India.	--	Considering my work and achievement the field the International Plant Genetic Resource Institute of CGIAR, invited me to deliver lecture on use of Open Source in Gateway Development. The lecture was delivered at Suwon city in South Korea .
Capacity Building in implementation of Information and Communication Technologies using OSS/FS.		One International Training Programme for ICT Staff of IPGRI and Four National Programme for ARIS Incharge of NARS of India was conducted.

D. Service in remote area - Not Applicable			
Designation	Name of Remote Area	Period (From – To)	Duration (Years, Months)

E. In-service Award/Recognition				
Name of the Award/Prize/ Recognition/ Reviewer	Awarding Organization (Place/Country)	Year	National/ International, Institutional/ Professional Society	Individual/ Collaborative
In recognition of my work, I was invited by International Plant Genetic Resource Institute, Bangkok to deliver theme lecture on “ Linux and Zope software for Gateway Development ” at Suwon South Korea	IPGRI, Bangkok, in its regional meeting of Asia Pacific group of countries held at Suwon, South Korea	October . 2002	International	The invitation came from IPGRI, Bangkok office after my work in “Use of OSS/FS in Agriculture”
In recognition of my expertise I was invited as Training Coordinator and Sole resource Person for “Regional Training in Linux” Dec. 2002	IPGRI, Rome and South East Asia Office at Bangkok	Dec. 2002	International	After my Lecture at Seoul the IPGRI Head quarter requested me to train its staff in Linux Operating System. Therefore one week training was organized

Executive Member of Indian Society of Animal Genetics and Breeding	Indian Society of Animal genetics and Breeding	2003- till date	National	
Executive member of “ Society for Conservation of Domestic Animal Biodiversity ”	Society for Conservation of Domestic Animal Biodiversity”	2004 till date	National	
Delivered Inaugural theme lecture “ Role of Goats in sustainable livelihood of rural people in ASIA ”	FAO and ILRI at Luang Prabang Lao PDR	2006	International	Animal Production and Health Commission for Asia and Pacific of FAO invited to deliver lecture
Delivered theme lecture on “ Goat Genetic Resource in the Asia Region ”	FAO and ILRI at Luang Prabang Lao PDR	2006	International	Animal Production and Health Commission for Asia and Pacific of FAO invited to deliver lecture
Invited Delegate for Regional Conference Of Asian Cashmere-Supplying Countries, , Bishkek, Kyrgyzstan, Dates: Saturday 27, Sunday 28 and Monday 29 January 2007 .	UK Government’s Department for International Development (DFID) through the Central Asia desk, London, Global Livestock Collaborative Research Support Program (GL CRSP) funded by USAID and by the World Initiative for Sustainable Pastoralism (WISP) funded by UNDP and the International Union for Conservation of Nature (IUCN) is also a sponsor. Bishkek, Kyrgyzstan	Jan. 27-29, 2007	International	Invited and Sponsored Delegate
First Member Secretary of “ National Task Force Committee on Information Technology for conducting Linux Training in ICAR ”	ICAR New Delhi	1998-2002	National	A task force committee was constituted by ICAR vide office order No. 7-37/98-IA.II (AE). Dated 6th Nov. 1998.

Chief Editor of Indian Journal of Animal Genetics and Breeding	ISAGB Noida	2008		
Best paper Presentation Award	Mobilization Society of India, New Delhi	18/01/09	Recognized Society in India, National	Individual
Invited to translate FAO Book entitled “The State of the World’s Animal Genetic Resources for Food and Agriculture” in Hindi खाद्य एवं कृषि के लिए पशु आनुवंशिकी संशाधनों की दशा	FAO Rome	2009	International	Individual
Invited to translate FAO Book entitled “The Global plan of Action for Animal genetic Resources and the Interlaken Declaration” in Hindi पशु आनुवंशिकी संशाधनों के लिए वैश्विक कार्ययोजना एवं इन्टरलाकेन घोषणा पत्र	FAO Rome	2009	International	Individual
Invited to work for one month in a ILRI Programme on “Capacity Building in Animal Genetic Resources”	ILRI, Nairobi.	2009	International	Individual

. Teaching / Research/ Extension/ Monitoring and Research Co-ordination			
Identify one primary and one secondary area of work			
Area of work	Specify one Primary and/or one secondary area		% of time
Teaching			
Research	Primary		80
Extension	Secondary		20
Monitoring and Research Coordination			

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Item	Details	Year (s)	Individual /Collaborative
Course Taught			
Designing of Course Curriculum			
Innovation in Teaching Methods			
Major Guide for M.Sc. / Ph.D.	Ms. Reshu Agrawal	2005 to continue	Ph.D. Guide
	Ms Namita Garg	2006 to continue	Ph.D. Guide
Success of Research Advisee	Dr. V.K. Singh now appointed Assistant Professor	2005	

Research					
Projects handled (Mention the type of Projects such as “Institutional', “Sponsored”, 'Contractual' and 'Consultancy'.					
Type of Project	Details Such as Title, PI/Co-PI, Allocation, etc	Duration	Accomplishments	Initiation / Formulation	Individual / Collaborative
AICRP on Sheep, Muzzafarnagri Unit, CIRG, Makhdoom, Farah, Mathura	Co-PI	1985-86	The cross breeding Evaluation Programme for mutton Production.	---	Multidisciplinary Project
GGB 1.05 Performance studies and improvement in productivity and reproductivity in Indian goat breeds through selection Sub project (ii) Barbari	Co-PI of Component II Barbari Unit	1985-1988	Genetic Parameters were generated. Bucks of superior genetic merit were selected	Initiation	
GGB-IIP/4 Genetics of humoral immune response in goats (Inter-Institutional	Co-PI	1987-1989	Antigenic response was seen in Goats	Initiation	Inter institutional Project in

collaborative research project with NBAGR)					Collaboration with NBAGR, Karnal
GGB 1.05 Performance studies and improvement in productivity and reproductivity in Indian goat breeds through selection (ii) Barbari	PI of Component II Barbari Unit	1989-1993	Performance evaluation, Variance C-variance Estimation was done. Breeding Value was estimated.		Institute Breeding Project
AICRP on Goat Improvement- Barbari farm Unit. (GGB 1.10: Genetic Improvement of Barbari goats for meat and milk production)	PI	Long Term breeding Project (1993 till date continuing)	Animal Evaluations, BLUP Evaluations, Seed Stock Production	It is a part of AICRP goat Improvement. The undersigned has been involved in formulation of the Projects at different levels	Inter-disciplinary.
GGB-1.12 Development of relational database system for goat production research	Co-PI	2001-2004	Software Produced	Initiation and Formulation both	Multidisciplinary with Computer Scientist
GGB-1.14: Genetic evaluation and improvement of Jakhrana goats for milk and meat production.	Co-PI	2004-2008	Jakharana Goat Farm established, Primary milk production, growth and reproduction data generated	Formulation and Initiation	
GGB-1.16: Evaluation of flock dynamics, production performance and management systems of Gohilwadi and Zalawadi goats in their home tract. (Institutional)	Co-PI	2005 - 2008	Survey conducted, Performance recording under field condition done and valuable farming system data obtained and analysed.	Initiation and formulation	Collaborative Project with Gujrat state Government
Agroweb Project of	Co-Pi	2008-09 to	Complete web		Inter

NAIP (Sponsored by NAIP)		2009-2010	site of CIRG rewritten. DNS etc registered. Software developer		institutional
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Involvement in Participatory Technology Development		
Details of Technology package	Year	Accomplishments
Seed Stock production of Barbari goats- Genetically Superior Buck and Doe Production of Barbari Goat Breed. The bucks produced were healthy, disease free and high reproductive efficiency	1985 - 2007	Approximately 2000 Genetically Superior goats was produced with help of health, reproduction and nutrition experts. Approximately 500 does of semen were stored for conservation and genetic improvement.
Small Ruminant Production & Research Information System	2000 - 2007	In collaboration with IT experts/students a full fledged web based information system management software was developed for creating National Data Base/Warehouse. This Software was very similar to the one being used by Indian Railways for reservation.
Open Source Software implementation in NARS of India and world over. Use and development in NARS.	1995 -2007	More than 80 ICAR Institutes and Agricultural Institutions were brought to Open Source Software Platform by me using e-mail conferencing system, training programmes, personal visits etc. where in 3-4 experts participated. Our efforts made more than 100 Institution not only functional but sustainable in LAN and Internet use.

National / International Research Assignments			
Details	Year (s)	Accomplishments	Individual /Collaborative
As a Member Secretary of a Task Force Committee I was to make effort in capacity building of NARS staff in use of ICT.	1998 - 2003	In mission mode under project ARIS of the ICAR we made efforts to organize National Training Programme in ICT under the programme CIRG, Mathura, GAU, Gujrat and IASRI, New Delhi conducted training on making ARIS WAN functional and	Collaborative, myself, experts on GAU Anand and IASRI, New Delhi participated in capacity building of ICT Staff.

		bringing one platform.	
GATEWAY development of IPGRI, ASIA Pacific .	2000 – 2001	I was invited in International workshop to decide the Gateway Development of IPGRI, Rome for Plant Genetic Resource Conservation.	Collaborative I worked with IPGRI ICT Staff beside the policy for Gateway Development.
To formulate the Technical Programme of AICRP on Goat Improvement for the XI Plan Period	2007	I was nominated a member of the committee constituted by the DDG, (Animal Science) ICAR to formulate the Technical Programme which was done in stipulated time frame	Collaborative

Extension			
Popularisation of new technologies			
Title of the Technology	Methods adopted	Impact assessment	Individual/ Collaborative
Open Source Software/ Free Software	Mailing List Server / e-mail Conferencing System	The CIRG was one of the first Institution in the world to adopt OSS/FS software Technology. With our training and motivation more than 100 institutes adopted OSS/Fs as a main platform	Collaborative
As Web master (Manager and Editor) of The CIRG web site http://www.cirg.res.in	Information generated by CIRG Mathura on Goat Production over kept and updated on CIRG website which is administered by myself.	The impact of this dissemination of information on technology generated can be seen by electronic counter which records number of people visiting website and sending their comments more than 1000 people visit the CIRG website each month.	Individual
Seed Stock of Barbari Goat Breed.	Genetically superior animals of Barbari goat breed are distributed in its home tract and Government Agencies and information about their production performance is taken.	The Barbari animals distributed in Vietnam and FRL Leh (an Institute of DRDO) performed very well. Similarly goat distributed to the Animal Husbandry Department are in high demand. This indicates the importance of technology..	Collaborative.

SKSSTAT Software for data analysis	The computer programme is kept at CIRG Website for free download and use	Scientists, students world over downland software and use it and cite in their publications	Individual
Innovation of New Extension Technologies			
Created one of the first E-mail Conferencing Systems on Agriculture Aspects in the world (Seven aspects on Agriculture viz, agri-net, crop-net, hroti-net, fish-net, livestock-net, goat-net, lib-net and aris-net)	E-mail conferencing system for dissemination of information on package of practices technology generated were developed on seven subjects separately. In the era of information and Communication technology the e-mail conferencing system is considered one of the best method for knowledge generation extension education and communication. World over	The technology generated by me was so important that ICAR, New Delhi tried for 5-6 years to have an e-mail conferencing system. When they failed to get it done from NIC and IASRI I took up the responsibility and could develop the system within 6 months that too without any costs as I used free software.. Best use of conferencing system was made by ARIS Incharges through ARIS-NET and by librarians through LIB-NET. Even to day this one of the best technology for dissemination of knowledge.	Collaborative
Creation of First web site of IAR at Institute server for Information Exchange. Hosting and Designing of the Web server and Website	The knowledge created by us and manual written on Networking with LINUX helped more than 80 Institute of NARS to develop, design and host their websites for broadcasting information generated by respective Institutes	The information this aspect was so important that the computer scientist from ICAR Headquarters New Delhi, IASRI, IARI New Delhi and CIAE Bhopal sent their personnel for training	Individual
Open Source Software for creation of LAN, WAN and Internet Gateways.	Through, e-mail conferencing and training knowledge on Open Source Software and its implementation were given to ICT staff of NARS.	About 100 Institutes adopted Open Source Technology in NARS of India leaving commercial network operating system	Collaborative

Collaborative extension programmes

As ARIS Incharge and Member Secretary of National task Force Committee, , I brought approx 100 Institutes and SAU's under OSS/FS Software umbrella and made them functional between 1998 -2002. The advocacy of OSS/Fs group of software is done by his Excellency the President of India, Dr. A.P.J Kalam, and Government of India since 2004. I have been working as Incharge of ARIS Cell since 1996, which has been mandated by ICAR to disseminate information generated through electronic medium publications. The web site of the Institute used to be face of modern age. I have been managing the website of the Institute as a “Webmaster” and as Network administrator. The role of web site in extension is well known to world. The ARIS Cell was born as a National project and work in collaborative manner

Worked in two different research projects of Extension Education and Socio-economics unit of the Institute for evaluation of impact of superior germ plasm distributed to the farmers. Have helped goat farmers in extension of genetic resources for conservation and improvement.

Training conducted (Title)	Year	Duration	Number of Beneficiaries	Co-ordinator / associated
Commercial Goat farming (38 trainings organised by the Institute)	1992-2007	10-days to 15 days	Approx. 1400	Expert Faculty
International Training Programme on Open Source Software Organizer and full time sole resource person for 7 days Regional Training on Linux	2001	One week December 16-21	IPGRI, Bangkok and IPGRI, New Delhi	Coordinator and Sole/major Resource Person
National Training Programme on Linux Operating System Course Co-ordinator, and Full Time Resource person (As the expert on Open Source Software were not available in the country in NARS) Fourth National training Programme on Setting up internet & intranet using Linux operating system	2001	September 10-15, (one week)		Coordinator and Sole/major Resource Person A task force committee was constituted by ICAR vide office order No. 7-37/98-IA.II (AE). Dated 6th Nov. 1998 and the training was 18 organized by the order of ICAR) CIRG, ICAR and Self financed/.

<p>National Training Programme on Linux Operating System (A task force committee was constituted by ICAR vide office order No. 7-37/98-IA.II (AE). Dated 6th Nov. 1998 and the training was 19organized by the order of ICAR)</p> <p>Course Co-ordinator, and Full Time Resource person (As the expert on Open Source Software were not available in the country in NARS)</p> <p>Third National Training Programme on Setting up internet & intranet using Linux operating system</p>	Feb, 2000	August 21-26 (One week)	IRG, ICAR and Self financed/.	Coordinator and Sole/major Resource Person
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<p>National Training Programme on Linux Operating System (A task force committee was constituted by ICAR vide office order No. 7-37/98-IA.II (AE). Dated 6th Nov. 1998 and the training was 19organized by the order of ICAR)</p> <p>Course Co-ordinator, and Full Time Resource person (As the expert on Open Source Software were not available in the country in NARS)</p> <p>Second National Training Programme on Setting up internet & intranet using Linux operating system</p>	1999	August 3-13 (10 days)	IRG, ICAR and Self financed/.
<p>National Training Programme on Linux Operating System(A task force committee was constituted by ICAR vide office order No. 7-37/98-IA.II (AE). Dated 6th Nov. 1998 and the training was 19organized by the order of ICAR)</p> <p>Course Co-ordinator, and Full Time Resource person (As the expert on Open Source Software were not available in the country in NARS)</p> <p>First National Training Programme on Setting up internet & intranet using Linux operating system</p>	1999	Feb 21-March 27 1999 (One week)	IRG, ICAR and Self financed/.
<p>Note: Same course taught/training conducted/extension activities performed may be shown at once only and number of repetitions may be shown in brackets.</p>			

Organisation of Kisan Melas, Exhibitions (Title and Location), etc.	Year	Duration	Number of beneficiaries	Co-ordinator/ associated
Goat fair at CIRG	1987	Two days		Associated
Kissan Mela at Fatehpur	1993	4 days	Approx thousands	Associated
Goat Fair at CIRG	2005	One day		Associated
National Goat Fair at CIRG	2008	Three Days	500	Associated

Radio talks /TV shows (Title and date)	
Forty Five TV Talks were delivered by me during the year 2004-07 in ANNDATA Programme Broadcast by ETV Hyderabad	Certificate enclosed.
Singh, S.K. 2001. Suchana Kranti ki evam gramin vikas. Telecasted by AIR, Mathura Nov. 2001.	
Singh, S.K. 2001. Suchana Kranti ki Gramin Viakas me Bhumika. Telecasted by AIR, Mathura on Jan. 29 at 6.10 PM.	
Singh , S.K. 2002 . “Gramoday Mai Bakari Palan Ek labhdayak Byawsaya Biseh” 25 th Jan, 2002.	
दूरदर्शन उत्तर प्रदेश मई, 2001 सुचना प्रौद्योगिकी और कृषक समाज आकाश वाणी मथुरा सायं 6:10 बजे।	
दूरदर्शन उत्तर प्रदेश 01 जनवरी, 2001 सुचना कान्ति की ग्रामीण विकास में भुमिका आकाश वाणी मथुरा सायं 6:10 बजे।	
सतेन्द्र कुमार सिंह, ग्रामोदय मे बकरी पालन एक लाभदायक भविय भी, 25 जनवरी,,2002	
सतेन्द्र कुमार सिंह दूरदर्शन उत्तर प्रदेश 30 मई, 2003, व्यावसायिक बकरी पालन	
सतेन्द्र कुमार सिंह दूरदर्शन उत्तर प्रदेश मार्च, 2003 नवजात कबरी बच्चों की देखभाल एवं प्रबन्धन	
बकरी पालन एक लाभदायक व्यवसाय, सतेन्द्र कुमार सिंह, दूरदर्शन लखनऊ, उत्तर प्रदेश 02 फरवरी, 2009	
व्यावसायिक बकरी पालन हेतु चयन, प्रजनन पद्धतियां एवं आनुवांशिक सुधार, बकरी पालन एक लाभदायक व्यवसाय, आकाशवाणी मथुरा, 11 फरवरी 2009	
आकाशवाणी मथुरा द्वारा प्रसारण दिनांक 10 फरवरी, 2009	

Monitoring and Research Co-ordination				
Project Management and co-ordination				
Project Title	Nature of Management /co-ordination			
As Project Coordinator (Incharge) All India Coordinated Research Project on Goat Improvement. (Jan 2006 to Feb. 2007)	Monitoring of 10 AICRP Units for technical Programme Implementation and budget utilization. Budget provision and allocation,			
Project Monitoring				
	Targets vis-a-vis Achievements			Nature of Management/ Co-ordination
Project Title	Physical	Scientific	Fiscal	
AICRP on Goat Improvement	11 Units of AICRP distributed all over India	Looked after implementation of technical Programme. Prepared PC Report	Approx. 97 Lakhs	Project Coordinator (Incharge) Jan. 2006-Feb. 2007)
AICRP on Goat Improvement	Prepared draft SFC proposal for XI Plan	Invited projects to increase more number of Centres	1500 lakhs were proposed	Project Coordinator (Incharge) Jan. 2006-Feb. 2007)

Preparation of Review Reports, Proceedings etc (Mention authors, title, year of Publication, name of Publisher and pages no.)	
Details	Individual / collaborative
Singh, S.K., Singh, M.K. And Rout, P.K. Proceeding of the VII National Conference on Animal genetics and Breeding Theme “ National Livestock Breeding Policy ” 2005, 288p. ISAGB	Collaborative

Participation in Institutional Activities			
Type of Activity		Nature of Participation	
Open School in the Campus Elected as founder secretary of “Bal Nilay” The school run by SWC CIRG, Mathura. Worked from 1990 to 1998.		As Founder Secretary for 8 years	
As member Secretary Designed Course curriculum for National training programme on “Setting Up Internet and Intranet using Linux”	A committee was constituted by the DG ICAR (of which I was member secretary) vide Office Order No. 7-37/98-IA.II(AE) dated 06 th Nov., 1998 to decide the place mode and course structure for training in the field of IT	1998-99	The CIRG organized 4 National training programmes and an international for IPGRI. Similarly GAU Anand organized several trainings in the field.
The e-mail Conferencing system has been in use on 7 aspects these were 1. goat-net, aris-net, crop-net, agri-net, horti-net, lib-net and fish-net are being used extensively for extending technologies in the respective field.	These are the latest IT tools for extension and communication of knowledge on subject specific areas. Using these tools one can transmit information to all registered users within no time. Thus the e-mail conferencing system as on date is considered most powerful and cost effective tool for extension, communication and teaching.	1998-99	One of the first IT tools for dissemination of information developed by us world over.
National & International Training Programmes	Four National and an International training programme was organized as a course coordinator.	1999 onwards	-

G. Special Attainments					
Category	Title of Project(s)	Year	Details	Individual /	Additional Information
Information Technology in agriculture	Created one of the first web site of NARS of India which was launched from the Institute server using Open Source Software	1998	Created and launched the first web site of any Institute/SAU at Institute location that too without any cost and using open Source software technology. CIRG http://www.cirg.nic.in was launched from the Server Placed in the ARIS Cell of NARS using OSS/FS Technology.	Individual	This was one of the first agriculture related web site in the world which was launched on Open Source Software/Free Software (Linux Operating System)
As Member Secretary (Training on Software)	National Task Force Committee on Information Technology for conducting Linux Training in ICAR	1998 to 2002	ICAR Office Order No. 7-37/98-IA.II(AE) dated 06 th Nov., 1998 for capacity building in NARS of India in Linux (Open Source Software/ free Software)Organized four national one International Trainings and brought about 100 Institutes/SAU under Linux umbrella	collaborative	With Our Efforts (through trainings and National seminar on Linux Operating system) we built the WAN of NARS of INDIA on OSS/FS platform. T
Mailing List Server/ Listserv/ email Conferencing system (Information Technology)	Created one of the first Mailing list servers/ e-mail conferencing system in the world on open source Technology. That is being used in NARS of India.	1998	One of the first e-mail conferencing systems on Agricultural subjects world over.	collaborative	This helped scientists, Administrators and farmers world over to interact on specific subject on their own interest world over. Propagated use of Open Source Software
Free Software/ Open Software	Brought use of free software/open software in Internet working and creation of LAN in the field Agriculture	1996 till date	CIRG was one of the first Agricultural related Institution in world to make use of this software.	collaborative	The use of this software group by more than 40 Institutes/Universities was result of Hard work which saved approximately one millions rupees of ICAR/ SAU annually.

Statistical Programmes	Wrote about 16 binaries for analysis of biological data including those of Animal Breeding.	1990 onwards	The software in use and available on Internet	Individual	The software can be downloaded free of cost.
Animal evaluations using Animal models	Evaluating bucks and does for breeding value using DFREML, VCE-5 and ASREML software packages	2004 onwards	This helps in selection of best animals on the basis of multiple traits.	Individual	The genetic worth of each goat was predicted and selection was made accordingly
Genetic Material.	Produced and distributed about 1200 superior Barbari goats in the field for Breed improvement. (since 2000 onward)	2000 Onwards	This helped in breed Improvement Programme.	collaborative	More than 2000 superior goats were made available to farmers/ Government for breed conservation and Improvement
Software National Information System on Small Ruminants	Small An Information System to for Small Ruminants for a Country	2003 - 2007	This is unique system where in National information System on Small Ruminants can be developed	collaborative	

H. Externally Funded Projects				
<i>PI or Co-PI/ Associated Scientist.</i>	<i>Title of Project (s)</i>	<i>Year</i>	<i>Amount</i>	<i>Funding Agency</i>
	Since I was entrusted with as Center Incharge (PI) of AICRP on Goat Improvement -Barbari Farm Unit, since 1987, which has been a full time, long term project, where in I was to monitor about 18-24 staff, maintain 700-1100 goats, implement technical programme, utilize about 55 lakhs in 1X plan , I never ever had enough time for short term project.	1993-continue	Approx. 55 lakhs in X Plan	ICAR
CCPI of Associated Center	AGROWEB Project NAIP under Component I	2008	> 200 Lakhs	NAIP, New Delhi

I. Organization of Winter School/ Summer School/ Refresher Course/ Seminar/ Symposium					
Name of the programme organized	Level of participation	Title	Year	Duration	Funding agency
1. VII, National Conference on Animal Genetics and Breeding “ Theme “ National Livestock Breeding Policy”	Organizing Secretary	VIII National conference on Animal genetics and Breeding – National Livestock Breeding Policy	2005	Three Days March 8-10	Swiss Development Cooperation, CIRG and Indian Society of Animal genetics and Breeding (ISAGB)
2. International Training Programme on Open Source Software	Organizer and full time sole resource person for 7 days	Regional Training on Linux	2001	One week December 16-21	IPGRI, Bangkok and IPGRI, New Delhi
3. National Training Programme on Linux Operating System	Course Co-ordinator, and Full Time Resource person (As the expert on Open Source Software were not available in the country in NARS)	Fourth National training Programme on Setting up internet & intranet using Linux operating system	2001	September 10-15, (one week)	A task force committee was constituted by ICAR vide office order No. 7-37/98-IA.II (AE). Dated 6th Nov. 1998 and the training was organized by the order of ICAR) CIRG, ICAR and Self financed/.
4. National Training Programme on Linux Operating System (A task force committee was constituted by ICAR vide office order No. 7-37/98-IA.II (AE). Dated 6th Nov. 1998 and the training was organized by the order of ICAR)	Course Co-ordinator, and Full Time Resource person (As the expert on Open Source Software were not available in the country in NARS)	Third National Training Programme on Setting up internet & intranet using Linux operating system	Feb, 2000	August 21-26 (One week)	IRG, ICAR and Self financed/.

<p>5. National Training Programme on Linux Operating System (A task force committee was constituted by ICAR vide office order No. 7-37/98-IA.II (AE). Dated 6th Nov. 1998 and the training was organized by the order of ICAR)</p>	<p>Course Co-ordinator, and Full Time Resource person (As the expert on Open Source Software were not available in the country in NARS)</p>	<p>Second National Training Programme on Setting up internet & intranet using Linux operating system</p>	<p>1999</p>	<p>August 3-13 (10 days)</p>	<p>IRG, ICAR and Self financed/.</p>
<p>6. National Training Programme on Linux Operating System(A task force committee was constituted by ICAR vide office order No. 7-37/98-IA.II (AE). Dated 6th Nov. 1998 and the training was organized by the order of ICAR)</p>	<p>Course Co-ordinator, and Full Time Resource person (As the expert on Open Source Software were not available in the country in NARS)</p>	<p>First National Training Programme on Setting up internet & intranet using Linux operating system</p>	<p>1999</p>	<p>Feb 21-March 27 1999 (One week)</p>	<p>IRG, ICAR and Self financed/.</p>

J. International Exposure				
Country	Purpose/ Subject Title	Year	Duration	Sponsor
ILRI, Nairobi Kenya	To work in two projects for one month period.	2009	One month 23 rd Nov. 2009- 23 rd Dec. 2009)	1. ILRI Kenya and 2. ICAR, New Delhi
Kathmandu, Nepal	To attend follow up workshop on “Capacity Building for Sustainable Use of Animal Genetic Resources in Developing countries”.. Presented two papers I.Country Report on “ Status of Animal Genetic Resource Education and Training in India” II.Success Story on “ Genetic Improvement of Barbari Goats in India”	2009	Feb 16-18, 2009	1. ILRI, Kenya 2. SLU Sweden
ILRI Nairobi, Kenya	To attend JOHN VERCOE MEMORIAL CONFERENCE ON “ANIMAL BREEDING FOR POVERTY ALLEVIATION” harnessing New Science for Greater Impact.	2007	Two days, Nov. 8-9, 2007	1. 1. ILRI, Kenya
Bishkek, Kyrgyzstan	Regional Conference Of Asian Cashmere- Supplying Countries. Venue: Bishkek, Kyrgyzstan. Dates: 27, 28 and 29 January 2007 I Presented Paper on “ Status of Cashmere Production in India ”	2007	Three days, Jan. 27-29, 2007	2. UK Government’s Department for International Development (DFID) through the Central Asia desk, London, 3. Global Livestock Collaborative Research Support Program (GL CRSP) funded by USAID. 4. World Initiative for Sustainable Pastoralism (WISP) funded by UNDP. 5. International Union for Conservation of Nature (IUCN) Bishkek, Kyrgyzstan

Lunag Prabang. Lao-PDR	To deliver invited theme lecture in “APHCA-ILRI Regional Workshop “ I.Goats – Am Undervalued Asset in Asia?” II.Goat Genetic Resources in Asia-pacific	2006	Three days 23-26 October, 2007	1. APHCA of FAO and 2. ILRI, Kenya
Kandy, Sri Lanka	To attend Training Programme on “Capacity Building for Sustainable Use of Animal Genetic Resources in Developing countries.	2006	Twenty days. Feb, 13- March 3, 2007	1. ILRI , Kenya and 2. Swedish. University of Agricultural Sciences, (Sweden)
New Delhi, INDIA	Course Co-ordinator of Regional Training on Linux.	2002	Six days	1. IPGRI, Bangkok and 2.IPGRI, New Delhi
Suwon, South Korea	To deliver invited lecturer on “Linux and Zope software for Gateway Development” in Regional Workshop on Gateway Development.	2002	Eight days	IPGRI, Bangkok
IIT Mumbai	Attended Regional meeting of APAN (Asia Pacific Agricultural Network) and Delivered Lecture on National Networks in Agriculture	2000	One day	1. APAN Japan and 2.IIT Mumbai
IARI, New Delhi	Delivered Lecture on behalf of CABI, International on Information Technology	1999	One Day	1. CABI, International and 2.IARI, New Delhi

K. Publication-Referred Articles (Indicate only 10 best for Senior Scientist, 20 best for Principal Scientist, HOD, HRS, PC. NC and ZC; and 25 best for Senior level RMP positions).

Authors	Year	Title	Journal	NAAS Journal ID
Chauhan, K., Singh, P.K., Mandal, A., Singh, S.K , Roy, R and Rout, P.K.	2003	Genetic resistance of Barbari and Jamunapari Kids to natural infection with gastrointestinal nematodes	Tropical Animal Health and Production 35(5): 397-408	T042
Chauhan., K.K. , P.K. Rout., P.K.Singh., A. Mandal., R.Roy and S.K.Singh	2003	Susceptibility to natural gastrointestinal nematode infection in different physiological stages in Jamunapari and Barbari goats in the semi-arid tropics	Small Ruminant Research. 50:219-223	S016
Khan, B.U and Singh, S.K.	1995	Genetics of feed conversion efficiency in Barbari goats	Small Ruminant Research..15:283-285	S016

Mandal, A., Pant, K.P., Rout, P. K., S.K., Singh, and Roy, R.	2001	Influence of inbreeding on growth traits of Muzaffarnagari sheep	Indian Journal of Animal Sciences.72(11): 988-990	1029
<i>Singh, S.K., Rout, P. K, Agarwal, R, Singh S. K, R. Roy</i>	2009	Characterization of exon 2 and intron 2 of leptin gene in Indian goats.	<i>Animal Biotechnology.</i> 20:2, 80 — 85 .	A103
Prakash, B, Singh , S.K., Khan, B. U.	1990	Growth, FCE and carcass characteristics of Barbari kids	Indian Journal of Animal Sciences. 60(5): 603-605	1029
Prasad, V.S.S., Khan, B.U., and Singh, S.K.	1992	Carcass traits of Barbari kids as influenced by castration and rearing method	Indian Journal of Animal Sciences. 62(2):188-189	1029
Prasad, V.S.S., Sinha, N.K., Singh, S.K. and Khan, B.U	1992	Influence of age-by-carcass-weight-classification on carcass traits of Barbari and Jakharana male goats	Indian Journal of Animal Sciences. 62(4):374-377	1029
Rai, B. Singh, M.K., Singh, S.K.	2005	Goats for Meat, Milk and Fibre	Indian Journal of Animal Sciences. 75(3)349-355	1029
Rout, P.K., Saxena, V.K., Khan, B.U., Roy, R., Singh, S.K and Singh, L.B.	2000	Characterization of Jamunapari goats in their home tract	Animal Genetic Resource Information, FAO, Rome, 27, 43-53	
Rout, P.K., Sharma, D.K., Saxena, V.K., Singh, S.K. and Roy. R.	2002	Resistance of Jamunapari and Barbari Goat Breeds to natural infection with gastro intestinal Nematodes	Indian Journal of Animal Sciences. 72(9): 770-771	1029
Roy, R., , Singh, S.K. Rout, P.K. Saxena, V.K., and Khan, B.U.	2003	Genetic trend of Growth of Jamunapari Goats	Indian Journal of Animal Sciences 73(5):534-537	1029
Roy, R., Saxena, V.K., Singh, S.K. and Khan, B.U.	1997	Genetic analysis of body weight at different ages in Jamunapari Goats	Indian Journal of Animal Sciences 67(4,):337-339	1029
Roy, R.; Singh, S.K. and Saxena, V.K.	1995	Inheritance of kid mortality in Jamunapari goats	Indian Journal of Animal Sciences. .65 No.4442-445	1029

Singh, S. K and N. K. Sinha.	2006	Selection Indices for Genetic Improvement of body weight and wool yield in Muzaffarnagri Sheep	Indian Journal of Animal Sciences. 76(6): 462-465	1029
Singh, S. K.	2006	BRENDEX : A computer programme for estimation of general and restricted selection indices for genetic gain of individual traits	Indian Journal of Animal Sciences. 76(7):546-548	1029
Singh, S.K., Roy, R., Sood, S.B. and Khan, B.U.	1991	Prewaning survival rate and its prediction in Jamunapari kids	Indian Journal of Animal Sciences. 61(12): 1322-1325	1029
Singh, S.K., Sood, S.B., Roy,R., and Khan, B.U.	1991	Prediction of post weaning body weights in Barbari Goats	Indian Journal of Animal Sciences. 61(10): 1109-1111	1029
Sinha, N.K. and Singh, S.K	1997	Effect of age, sex and season on body weight and greasy fleece production in Muzaffarnagri Sheep	Indian Journal of Animal Sciences. 67(9):78-79	1029
Sinha, N.K. and Singh, S.K.	1997	Genetic and Phenotypic parameters of body weight, Average Daily Gains and first Shearing Wool yield in Muzaffarnagri Sheep.	Small Ruminant Research., 15: 283-285	S016
Yadav, J S , M K Singh, B Rai, S K Singh, M C Yadav and B U Khan	2005	Selection indices for growth traits in Kutchi goats	Indian Journal of Animal Sciences. 75 (2): 226-28	1029
Singh.,S.K., R out,.P.K. And Khan, B.U.	2005	Performance Evaluation and genetic parameters of early life growth, lactational and production traits in Barbari Does. I	Indian Journal of Animal Genetics and Breeding. Vol. 27(1-2):68-75	
Pathodiya, O. P., Singh, S. K., Jingar, S. C., Lavania, P.	2006	Growth Performance Evaluation of Sirohi Goats at farmers flocks	Indian Journal of Animal Genetics and Breeding. Vol. 27(1-2):42-45	
Singh, M. K, .Rai, B., Singh, S.K., and Singh, N.P.	2007	Morphological and Physical Attributes of Zalawadi Goats	Indian Journal of Animal Sciences. 77 (12): 1334-37	1029
Singh, S.K. Sood, S.B., and Khan, B.U.	1995	Genetic Analysis of Growth traits in Barbari Kids	Indian Journal of Animal Sciences. 626-629	1029
<i>Namita, G.,</i> Singh, S.K. <i>Rout, P.K.,</i> <i>Mondal , Ajoy</i>	2009	<i>Genetics Ploymorphism in Barbari Goats.</i>	<i>Tropical and Subtropical Agriculture. 11,181-183.</i>	

L. Other Publications				
Item	Year	Details	Publisher	Page No.
Book published				
Authored				
Singh, S.K., Shalender Kumar, M.K. Singh Ashok Kumar, Rai, B. and N.P. Singh	1997-98	Goat Husbandry	DIPA (ICAR) Submitted	118
खाद्य एवं कृषि के लिए पशु आनुवंशिकी संशाधनों की दशा	2009	Invited by FAO, to translate FAO Book entitled “ The State of the World’s Animal Genetic Resources for Food and Agriculture ” in Hindi	FAO/ICAR (In process)	Approx. 50 pages
पशु आनुवंशिकी संशाधनों के लिए वैश्विक कार्ययोजना एवं इन्टरलाकेन घोषणा पत्र	2009	Invited by FAO to translate FAO Book entitled “ The Global plan of Action for Animal genetic Resources and the Interlaken Declaration ” in Hindi	FAO/ICAR (In process)	Approx. 65 pages

Edited				
	2005	National Livestock Breeding Policy (Compendium)	ISAGB Noida	288
Book Chapters/Manuals				
	2008	व्यवसायिक बकरी पालन हेतु प्रजजन पद्धतियों (Second Edition)	व्यवसायिक बकरी पालन के 0ब0अ0सं0 मखदूम	
	2008			
	2002	व्यवसायिक बकरी पालन हेतु प्रजजन पद्धतियों (First Edition)	व्यवसायिक बकरी पालन के 0ब0अ0सं0 मखदूम	13-16
	2008	व्यवसायिक बकरी पालन हेतु चयन, प्रजजन पद्धतियों एवं आनुवंशिक सुधार	आधुनिक बकरी पालन	07
	2007	Singh, R.K. Singh, S.K. 2007. A Manual on Small Ruminant Production & Research Information System.	User Manual. January 5, 2007. Version-0.01. Available at www.cirg.res.in	15
	2001	Singh, S.K.. A manual on Regional training on Linux	IPGRI, NAAS, New Delhi	65
	2002	Singh, S.K. Networking with Linux	CIRG, Mathura	61

1986.	Technical Bulletin No.5, Agrawal, K.P., Singh, S.K. Pashudhan Vikas Main Bhrun Pratiropan. Swet Kranti Ki Disa Main Naya Kadam.	CIRG, MakMakhdoom	20
1993	Singh, S.K. 1993. Status of breeding Research in) Goats at CIRG (1982-1993)	Published by. CIRG, Makhdoom, Farah, Mathura.	39 p.
2005	<i>M K Singh, S K Singh and B Rai. (2005). Strategies for Conservation and Improvement of Goats in India (Lead paper).</i>	VIII National Conference on Animal Genetics & Breeding, CIRG, Makhdoom, 8-10 March,	Pp 80-90.
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2001	Singh, S.K. Listservs in Indian NARS	ARIS News Vol 3 (3): 2-3.	
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2005	Singh, S.K. 2005. Security System for Goat Germplasm in India.	In: Proceedings of Seminar on Goat Genome. April, 5-6, 2005. CIRG, Makhdoom, Farah, Mathura.	
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	Singh, S.K, YP Thakur and TAS Ganai. 2006. Cashmere (Pashmina) Production in India Present Status and Future Prospects.	First Asian Conference on Cashmere Bishkek, Kyrgyzstan, January 27-30, 2007	

2007	Singh, S.K. 2007. Networking and web searching..	A guest lecture delivered in National training Programme on Computer and Bioinformatics held at IVRI, Izatnagar, March 24-27, 2007.	pp-199-20
2006	<i>Rai B</i> , Singh M K and Singh S K . 2006. Milk production potential of Jakhrana goats under field conditions.	National Symposium on Conservation and Improvement of Animal Genetic Resources Under low input system: Challenges and strategies. Feb, 9-10, NBAGR, Karnal.	pp-144
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2006	Singh M K, <i>Rai B</i> , Singh S K , Kumar Ashok and Singh N P. 2006. Goat Production System under Rain-fed Conditions in Saurashtra Region.	National Symposium on Technological Interventions for Livestock Improvement and Production. Feb 17-19, New Delhi.	Pp 92
2006	Singh S K , Rout P K, Singh M K, <i>Rai B</i> and Roy R. 2006. Genetic Improvement in production parameters of Barbari goats.	National Symposium on Conservation and Improvement of Animal Genetic Resources Under low input system: Challenges and strategies. Feb, 9-10, NBAGR, Karnal.	pp-170
2006	Singh S K, Singh M K and <i>Rai B</i> . 2006. Breeding management practices for extreme climates and calamity affected zones.	National Symposium on Technological Interventions for Livestock Improvement and Production. Feb 17-19, New Delhi.	Pp- 27
2006	Bhusan, S, Singh, S. K and <i>Rai, B</i> . (2006). Conservation and improvement of Jakhrana goats and birth weight of their kids of nucleus breeding flock.	Proceeding of National Symposium on conservation and improvement of animal genetic resources under low input system challenges and strategies, 9-10 February, 2006 at NBAGR, Karnal (Haryana),	p. 201-2.
2008	<ul style="list-style-type: none"> Open Source Software/ Free Software For Developing National networks for Livestock Information Systems Management 	<ul style="list-style-type: none"> National Conference on Distance Education to Animal farmers with Emphasis on Women Self-help Groups 	13

M. Institution Building Activities		Level of Involvement
1	Unit Incharge of Barbari Goat Fram (1988 –1993)	Incharge
2	Unit Incharge of AICRP on Goat Improvement Barbari Unit (1993- Till date)	Incharge

3	Incharge, ARIS Cell (May, 1995- till date)	Incharge
4	Incharge, Computer Cell (1993 -94)	Incharge
5	Incharge, Vehicle Section (1992)	Incharge
6	Incharge, Education Research & Coordination Cell (2003)	Incharge
7	Incharge, Games , Sports & Cultural Activity Section (1992-1993)	Incharge
8	Incharge, Games , Sports (2001-2002)	Incharge

N. Inter-Institutional Projects						
PI/ Co-PI	Title	Institution	Year	Duration	Amount	Funding Agency
Project Coordinator (Incharge)	All India Coordinated Research Project on Goat Improvement	CIRG, Mathura & Eleven Coordinating Units	Jan 2006 to Feb. 7, 2007	On going over plan	577.75 Lakhs	ICAR and Coordinating Organizations
Co-PI Project No. GGB-IIP 02	Humoral Antibody response and disease resistance	CIRG Mathura and NBAGR Karnal	1986-97 to 1987-88	Two Years	Funded By both Institutes	CIRG, Makhdoom and NBAGR, Karnal
CCPI of Sub Center	Agroweb Project of NAIP Component I	NBPGR, NDRI, CIRG and 34 other Institutes	208	Two Years	Approx 3 Corers	NAIP

O. Project Management				
Project/Programme Management and Co-ordination				
Target vis-a-vis achievements				
Details	Physical	Scientific	Fiscal	Nature of management/Co-ordination
Project Coordinator (Incharge) All India Coordinated Research Project on Goat Improvement (Jan 2006 to Feb. 7, 2007)	To coordinate 10 Units of AICRP on Goat improvement for technical Programme Implementation	To prepare, quarterly, half yearly and PC report for the year Prepared draft Plan project Proposal of AICRP of XI Plan	1. To arrange extra fund for last year of the AICRP as the plan budget was exhausted within 4 years. Approx. 97 lakhs Rupees was distributed to various Units	Project Coordination and Budget Monitoring, PC Report Compilation, Preparation of SFC of AICRP on Goat Improvement for XI PLAN
Preparation of Review Reports, Policy guidelines etc. (Mention authors, title, year of publication, name of publisher and pages)				
Details				Individual/

		Collaborative
Sharma, M.C. ; Kumar Ashok; Goel A.K. And Singh S.K(2009).” Technological options for improvement of Goat Breeds of Uttar Pradesh”.Proceeding of the workshop on Orientation of Project Activities 5-6 Feb, 2009, GSI Auditorium, Lucknow Animal Husbandry component Diversified Agriculture support Project -II		Collaborative
Singh S.K.(2009) Goat Breeding Policy in U.P..Policy paper presented in the workshop on Orientation of Project Activities 5-6 Feb, 2009, GSI Auditorium, Lucknow Animal Husbandry component Diversified Agriculture support Project -II		Individual
<p>Technical Programme of AICRP on Goat Improvement under Chairmanship of ADG (AP&B), ICAR (Constituted by DDG(AS), ICAR)</p> <p>As Incharge, ARIS Cell, I as Member Secretary of Task Force committee was instrumental between 1997-2005 to bring most ARIS Cell Network of NARS of India functional through training and advocacy</p> <p>Prepared Annual Report AICRP on Goat Improvement as Incharge PC.</p> <p>Prepared SFC Plan of AIRCP on Goat Improvement as Incharge PC.</p> <p>*Any other information in support of outstanding contribution (Do not attach Annexure or supporting documents)</p>		Through a Committee constituted by ICAR, New Delhi
1.	Nominated as Rapporteur for the first session of ‘First ARIS Workshop’ held at NBPGR New Delhi, Aug, 1998 (BY ICAR)	This was in recognition of my work in ICT
2.	As Co- Chairman on National Seminar on Linux operating System held at NBPGR New Delhi on Feb. 7, 1998. (By ICAR)	
3.	Web site management of institutes site at http://www.cirg.res.in .. This involved management, updating and publishing of relevant information of Institute.	

** Any other posts applied in this advertisement, if any		
Sr. No	Name of the Post	Advt. No./Item No.
1.	Assistant Director General (Animal Production and Breeding)	No. 04/2009 Item No. 237
2	Director, CIRG, Makhdoom, Farah, Mathura	No. 04/2009 Item No. 240
<p>I hereby declare that the statements made in the application (Part-A & Part-B) are true.</p> <p style="text-align: center;">(S. K. Singh) Signature of the candidate</p> <p>Date and Place CIRG Mathura</p>		