

CURRICULUM VITAE



1. **NAME** : DR. BHARAT BUSHAN BINDROO

2. **DESIGNATION** : DIRECTOR
Central Sericultural Research
& Training Institute,
Central Silk Board,
Ministry of Textiles, Govt. of India,
Berhampore – 742 101,
Dist: Murshidabad (West Bengal)

3. **SUBSTANTIVE POSITION** : DIRECTOR

Telephone/Mobile Number : +91 3482 251046 (Off)
+91 3482 253967 (Direct) 252298 (Resi)
+91 9434757372 (Mob)

E-Mail: Personal ID : bindroobb@gmail.com
Office ID : csrtiber@gmail.com,
csrtiber@csb.gov.in

4. **DATE OF BIRTH** : 15th June, 1954

5. **SEX** : Male

6. **MARITAL STATUS** : Married (Two children)

7. **FATHER'S NAME** : Late D.N. Bindroo

8. EDUCATIONAL QUALIFICATIONS :

Sl. No.	Name of College/ University	Degree/ Exam passed	Year of passing	Subjects taken with specialization
1	Kashmir University (Govt. Degree College), Baramulla, Kashmir	B.Sc.	1973	English, Botany, Zoology, Chemistry
2	Kashmir University	M.Sc*	1976	Botany, Specialization in Cytogenetics
3	Kashmir University**	Ph.D***	1984	Botany (Biometrics - Cytogenetics)

* First class 1st position [merit scholarship]

** Research Residence: Regional Research Laboratory (Br.), CSIR, Sanat Nagar, Srinagar, Kashmir.

*** Ph.D. Thesis Title: "Morphological and Cytological studies on *Dioscorea deltoidea* wall".

9. SERVICE PARTICULARS AND EXPERIENCE:

Sl. No.	Name of the employer	Designation of post held	Pay Scale	Total emolu-ments drawn	Date of joining	Date of leaving	Reasons for leaving	Nature of duties performed
1	Regional Research Laboratory (CSIR), Srinagar, Kashmir (J&K)	Jr. Research Fellow (JRF).	400	Consolidated	1 st Aug, 1978	12 th May, 1980	(To seek higher job)	R&D of medicinal plant (<i>Dioscorea deltoidea</i>) Ph.D
2	Sericulture Development Department, J&K Govt. Mirgund, Srinagar, Kashmir (J&K)	Assistant Research Officer (ARO)	475-850	Rs.635.70	13 th May, 1980	30 th Sept., 1982	(Upgraded and adjusted in SKUAST)	To carry and guide research for improvement and upliftment of Mulberry sericulture in J&K state
3	Div. of Sericulture, S.K. University of Agricultural Sciences & Technology, [SKUAST] (Mirgund), Srinagar, Kashmir.	Assistant Research Officer (ARO)	875-1400	Rs.2,502.00	1 st Oct., 1982	12 th May, 1984	(On Re-designation to Assistant Professor)	To carry and guide research for upliftment of Mulberry sericulture in J&K state
4	Div. of Sericulture, S.K. University of Agricultural Sciences & Technology, [SKUAST] (Mirgund), Srinagar Kashmir (J&K)	Jr. Scientist-cum-Assistant Professor	2200-4000	Rs.4,025	13 th May, 1984	12 th May, 1989	(Selection to Senior Scale Rs.3000-5000)	To carry and guide research for upliftment of Mulberry Sericulture in J&K state
5	Div. of Sericulture, S.K. University of Agricultural Sciences & Technology, [SKUAST] (Mirgund), Srinagar, Kashmir (J&K)	(Senior Scale) Jr. Scientist-cum-Assistant Professor	3000-5000 Equivalent to Joint Director Pay Scale)	Rs.5,170	13 th May, 1989	31 st Jan., 1992	(Due to onslaught of militancy in Kashmir, to seek job outside J&K in CSIR with pay protection)	To carry and guide research for upliftment of Mulberry Sericulture in J&K state
6	Central Salt & Marine Chemicals Research Institute, (CSIR) Bhavnagar, Gujarat	Scientist-B	2200-4000	Rs.4303.24 at Basic Rs.2800 for 24 days.	4 th Feb., 1992	3 rd Mar., 1992	(To seek job in CSB)	R&D for the improvement of desert plants and marine algae.
7	Central Silk Board CSR&TI, Pampore (Camp Jmu) R.S.R.S., Miransahib, Jammu (J&K)	Deputy Director*	3000-4500	Rs.4,294.50	6 th Mar, 1992	21 st Feb, 2005	Selected by CSB as Joint Director & transferred to RMRS, Boko, Assam	As head of the station to carry, supervise and guide R&D programmes for the improvement of sericulture in J&K state especially in Jammu.
8	Central Silk Board Regional Muga Research Station, Kamrup, Boko, Assam	Joint Director**	12000-16500	Rs.30771	22 nd Mar. 2005	6 th Aug. 2007	(Transferred to RSRS, Jammu)	As head of the station to carry, supervise and guide R&D programmes for the improvement of Muga silk Industry in Assam & North East.
9	Central Silk Board Regional Sericulture Research Station, Miransahib, Jammu (J&K)	Joint Director***	PB 15600-39100 Grade Pay 7600.	Revised Rs.60186.00	21 st Aug. 2007	25 th Mar. 2011	Selected as Director	As head of the station to carry, supervise and guide R&D programmes for the improvement of sericulture in J&K state especially in Jammu.
10	Central Sericultural Research & Training Institute, Berhampore (W.B.)	Director ****	PB 37400 – 67000 GP 8700	Rs.76,016/-	28 th Mar. 2011	Till date	Continuing at present	As Director of CSR&TI, Berhampore to carry, supervise and guide R&D programmes for the improvement of sericulture in W.B., Eastern and North Eastern States.

* 1. Worked as Head of RSRS, Miransahib, Jammu for 6 years (From May, 1994 to April, 2000)

* 2. Worked as Head of RSRS, Miransahib, Jammu for 1 year 5 months (From May, 2003 to August, 2004)

** 3. Worked as Head, RMRS, Boko, Assam for 2 years 6 months (From March, 2005 to August, 2007).

*** 4. Worked as Head of RSRS, Jammu for 3 years 8 months w.e.f. August, 2007 to March, 2011.

**** 5. Presently working as Director, CSR&TI, Berhampore [W.B.] w.e.f. 28.03.2011

10. RESEARCH/MANAGEMENT EXPERIENCE : 31 Years
(As Head of the Research Institutes - 14 years)

- a. Mulberry Sericulture : 28 years
b. Non-Mulberry Sericulture (Muga) : 03 years

11. NUMBER OF PUBLICATIONS : 327

Research papers	88
Research papers (Presented in conferences /Seminars/ Workshops)	115
Research Articles	60
Book Chapters	10
Books	03
Technical Reports	09
Bulletins	13
News Reports/Silk briefs	29
TOTAL	327

12. PATENTS : Sericillin [silkworm bed disinfectant]
[Application filed for patent]

13. MEMBERSHIP OF RELEVANT ACADEMIC PROFESSIONAL SOCIETIES:

- a) ISCA (Indian Science Congress Association) - Life Member
b) ISGPB (Indian Soc. of Gen. & Plant Breeding) - Life Member
c) ISTS (Indian Society of Tree Scientists) - Life Member
d) CISI (Crop Improvement Society of India) - Life Member
e) ISSS (Indian Society of Sericultural Science) - Life Member
f) IJS (Indian Journal of Sericulture) - Life Member
g) NASSI (National Academy of Seri. Sciences) - Life Member
h) JASS (Journal of Assam Science Society) - Member
i) IAS (Indian Academy of Sericulture) - Member Editorial Board

14. REGISTRATIONS, ETC/ NOMINATIONS:

- a) Registered as Guide with University of Jammu, for supervising research leading to award of Ph.D. degree.
b) Was registered with Ministry of Personnel, Public Grievances and Pension (PPG&P), Department of Personnel and Training, Government of India on the Panel of Experts to the developing countries of Asia, Africa and Latin America.
c) Was registered with Forum of Progressive Teacher and Scientists (FPTS), Research and Development Reporter, Jammu, India.
d) Was nominated by Central Silk Board, Ministry of Textiles, Govt. of India in 1993 as an Expert to International Sericulture Commission, France on Mulberry Cultivation and Physiology.
e) Was nominated by Central Silk Board, as an expert for reviewing development of sericulture under National Sericulture Project for the states of Punjab, Haryana, Himachal Pradesh during 1992-94.

15. SCHOLARSHIPS / FELLOWSHIPS WON:

- a) Merit Scholarship : M.Sc. 1976-77, Kashmir University.
- b) Jr. Research Fellowship : Ph.D. 1978-80, CSIR.

16. DISTINCTIONS / AWARDS / PRIZES:

- a) Distinction certificate : M.Sc. (Botany) by Kashmir University, 1976, (1st class 1st position).
- b) Token of appreciation : Presented by Botanical Society, Kashmir University for securing distinction in M.Sc.
- c) Token of appreciation : Presented by Botany Department, Kashmir University for attaining top position in Plant Physiology paper, M.Sc.
- d) Distinction certificate : Presented by Akhil Bharati Vidharthi Parishad for Hindi Rashtriya Bhasha Competition, 1969.
- e) First Prize : Best letter to the Editor, Indian Silk, CSB, 1994.
- f) Shield Momento : Presented by DOS, Punjab, Gurdaspur (2007) for outstanding contribution in Sericulture.
- g) Shield Momento : Presented by Kendriya Vidyalaya, Berhampore (16th Annual day Celebrations, 25th Nov.2011).
- h) Momento : Momento presented by Zoological Society of India Lucknow for Co-Chairing the Sericulture Session IX National Seminar (29-31st Dec,2011)

17. OTHER ACTIVITIES :

- a) General Secretary : Botanical Society, Kashmir University, M.Sc., 1976.
- b) Hiking certificate : Tarsar & Marsar Glaciers of South Kashmir Himalayas.
- c) Trecking Certificate ; Gabiwar, Vijay & Allapater peaks of North Kashmir Himalayas.
- d) Cadet Certificate : National Cadet Core

18. OTHER ASSIGNMENTS

- 1. Team Leader (North Zone) for implementation of AICEM (Phase II),CSB.
- 2. Coordinator, IGNOU Study Centre (PSC-1289-P) RSRS, Central Silk Board, Jammu (2010-2011).
- 3. Chairman, Town Official Language Implementation Committee [TOLIC], Berhampore (W.B.).
- 4. Zonal Coordinator, AICEM, [Phase-III] Eastern & North Eastern States.
- 5. Zonal Coordinator, MSRAP [Phase-VIII], Eastern & North Eastern States.
- 6. Member, SAC, NSSO, CSB, Bangalore.
- 7. Member Convenor, RAC, CSR&TI, Berhampore.
- 8. Member, HAC, CSB, Bangalore.
- 9. Member, MVAC, CSB, Bangalore.
- 10. Governing Board Member, Textile Engineering College, Berhampore, W.B.
- 11. Member, SLSCC, West Bengal.

19. TRAININGS UNDERGONE:

S. No.	Training Attended/undergone	Institute	Period
1	Short term training course on the Technology/ Methodology of Breeding, Genetics and other Moriculture practice related to Mulberry improvement.	Central Sericultural Research & Training Institute (CSR&TI), Mysore	01.02.84 to 09.03.84
2	Training course on the Methodology and Techniques of Plant Tissue Culture.	Division of Horiculture, Indian Agricultural Research Institute (IARI), Delhi.	14.04.86 to 26.04.86
3	Third Organization Training Programme in Computer application in Economics, Statistics, Finance and Project Management.	Indian Institute of Management (IIM), Bangalore	07.04.92 to 08.05.92
4	Course on Sericulture Research Project Management	National Academy of Agricultural Research Management, (NAARM) Rajendra Nagar, Hyderabad	16.11.95 to 25.11.95
5	Basics on computer application	CEDTI, Jammu	20.8.2001 to 12.10.01
6	Intellectual Property Rights	National Research Development Corporation (NRDC), Bangalore	5.12.2005 to 6.12.2005
7	Training Programme on Right to Information Act, 2005	National Productivity Council (NPC), Chandigarh. (At Kolkota)	21.12.2006 to 22.12.2006
8	Executive Development Programme in Agricultural Research Management	National Academy of Agricultural Research Management (NAARM), Rajendra Nagar, Hyderabad	21.8.2009 to 25.8.2009

20. NATURE OF RESEARCH WORK DONE:

A) DIOSCOREA DELTOIDEA : (Genetics, Cytogenetics, Cytology, Biometrics)

- Owing to the pharmaceutical importance and dioecious nature of this plant complete range of variability in the natural populations growing wild in different forest areas of Jammu and Kashmir, India, were studied.
- The quantum of variation due to genetical/non-genetical/enviromental factors was assessed.
- The cause which lead to high diosgenin content in some stocks and low in other clones of this plant were worked out.
- The variability was utilized for the development of improved clones.
- The change in diosgenin content with the ontogenetic development of the plant was worked out.
- Genotype x Environment interaction on diosgenin content and other morphological traits and the heritability of these traits was studied.
- Stability estimates including correlation of various metrical characters under different environments was assessed.
- Basic chromosome number of the genus recognised.
- The phenomenon of Aneusomy and deviant chromosome numbers in the species reported.
- Sex chromosome in the species identified and female heteromorphic sex mechanism reported for the first time in the plant.

B) MULBERRY: (Breeding, Genetics, Agronomy, Physiology, General moriculture)

(i) Temperate conditions:

- For the improvement and upliftment of mulberry (*Morus* sp.) in temperate climatic conditions of Kashmir the major contributions include the study on the flowering process and anthesis.
- Collection, introduction and conservation of indigenous and exotic mulberry cultivars attempted.
- Evaluation of desirable metrical traits from the gene-pool was made.

- Evaluation of introduced mulberry cultivars with higher leaf yield done.
- Selection and isolation of useful mulberry genotypes through open pollinated and artificial hybridization was carried.
- Vegetative propagation technology through cuttings hitherto unknown in temperate regions was developed.
- The possibilities for adopting bush type of mulberry cultivation in place of traditional dwarf and tall types were explored.
- Simple and non-destructive method of leaf area determination was estimated.
- The effect of plants spacing, plants densities, NPK and their interactions on the leaf yield was studied.
- Effects of different training practices on the leaf yield and other characteristics worked out.
- Pruning schedule studies of mulberry undertaken.
- Package of practices for mulberry cultivation developed.
- The production of chawki mulberry leaf with the ontogenetic development of mulberry plant worked out.
- Effect of Triacontanol for increasing mulberry leaf productivity assessed.

(ii) **Sub-tropical conditions:**

- Correlation of the rooting potential of mulberry genotypes with the shoot length worked out.
- Package of Practices for mulberry cultivation under sub-tropical conditions hitherto unknown in this region formulated.
- Techniques for the propagation of mulberry under sub-tropical condition developed.
- Pruning technology for mulberry under sub-tropical conditions developed.
- Use of vegetative and sexual management in the mulberry improvement reviewed.
- An economic appraisal using NPV computer technique for mulberry raising under sub-tropical conditions of India made.
- Based on the cropping pattern across the Jammu and Kashmir State the sericultural zone of J&K deciphered
- Dormancy and sprouting behaviour of mulberry under subtropical conditions worked out.
- Studies on sexual cycle and biology of mulberry flower under subtropics studied.
- Correlation of Tukra with varying canopy heights of the mulberry in sub-tropics analysed.
- Incidence of powdery mildew under various mulberry plantation types and spacing assessed.
- Training course material concerning the propagation of mulberry, management of pest & diseases of mulberry in North India, mulberry culture in North Western India prepared.
- Potential and prospectus of privatization of mulberry nurseries in J&K validated.
- Mulberry characterization in Indian perspective analysed and the distinctive features of *Morus* under sub-tropical conditions studied.
- Genotypic plasticity with respect to various economic characters in different micro-climates of Jammu Division worked out.
- Region and season specificity of the promising mulberry varieties under subtropical conditions of Jammu identified.
- Integrated management of mulberry pests under subtropics undertaken.
- Soil assessments of the mulberry fields in Jammu Division undertaken.
- Transfer of vermi composting technology in Jammu Division made amongst rearers.
- Development of mulberry genotypes for improvement in productivity and quality mulberry leaf in W.B. undertaken.
- KCl evaluated as an antitranspirant for increasing leaf yield in mulberry under rainfed condition.
- Ready reckoner of sulphur fertilizer application for obtaining targeted yields of mulberry validated.
- Pruning package of mulberry for sub-tropical hills of Eastern India developed.

C) SILKWORM:

- Oviposition rate in fertilized univoltine females of *Bombyx mori* studied.
- Authorization trial for season specific silkworm hybrids of J&K conducted.
- Field trial analysis of bivoltine silkworm hybrids and JAM local carried.
- Evaluation of season specific bivoltine silkworm breeds for Jammu division and the improvement of JAM bivoltine silkworm breeds resorted to.
- Field evaluation of new bivoltine hybrids carried and transfer of technology impact on the sericulture potential of North India attempted.
- Package of practices for silkworm rearing in high temperature and high humid conditions elucidated.
- Development of viable poly hybrids with higher economic values in sub-tropics undertaken.
- Popularization of autumn specific silkworm hybrids in Jammu Division attempted.

- Infusion of women friendly technologies of sericulture undertaken with women farmer groups including knowhow for preparation of handicrafts from waste cocoons.
- Multiple mating ability of bivoltine male moths of *Bombyx mori* L on the production of multi x bi dfls ascertained.
- Identification of improved multivoltine hybrids for unfavourable seasons of West Bengal carried.
- Development of commercial silkworm hybrids by identification of bivoltine parents in W.B. undertaken.
- Multilocational trials of newly developed breeds / hybrids for different seasons of W.B. accomplished.
- Survey and Surveillance of diseases and pests of mulberry and silkworm assessed and undertaken.

D) NON-MULBERRY:

- Remedial measures to overcome the depleting populations of brown oak (*Quercus semicarpifolia*) in Garhwal Himalayas deciphered.
- Ideal rearing sites for successful oak tasar cocoon crop in North-western Himalayas recognized.
- Distribution, habitat, categorization and strategies needed for sustainable usage of 28 muga silkworm host plants worked out and three new tertiary muga host plants viz., *Actinodepne sikimensis*, *Lindera latifolia* and *Polyathia siniarum* reported for the first time.
- Nylon net sac, a novel muga cocooning device innovated.
- Distribution, habitat, categorization and strategies needed for sustainable use of 24 eri silkworm host plants worked out and one new tertiary eri host plant viz., *Sterculia villosa* reported for the first time.
- Conservation strategies for wild silk moth bio-diversity in the North-Eastern Region of India indicated.
- Technology for biological control of Uzifly infestation in Muga developed.
- Technology for control of stem borer infestation in Muga developed.
- An indigenous summer grainage technique for muga silkworm developed.
- Food range specificity of eri silkworm worked out.
- Additional uses of food plants of eri silkworm worked out.
- Potential for temperate oak tasar development in Uttaranchal notified.
- Studies on seed viability and longevity in Som carried out.
- Feasibility of Muga culture in Utrakhand assessed.
- Improved plantation practices for successful Muga culture in Northeast deciphered.
- Pruning technology of muga host plants worked out vis-a-vis zoning of plantation for quality som leaf availability for different crop seasons.
- Feasibility for conduct of indoor muga rearing assessed.
- Technique for large scale production of Som planting material developed.
- Isolation of inbred lines in *Antheraea assamensis* undertaken including hybridization and evolution of hybrids.
- Feasibility of integrated farming system in Muga with intervention of agricultural crops, dairy, poultry, fishery, priggery etc. ascertained.

E) MISCELLANEOUS:

- Cytology of *Onosoma hispidium* worked out.
- Extra Nuclear Feulgen positive body in *Podophyllum emodi* reported.

21. INVENTION / INNOVATIONS / TECHNOLOGIES DEVELOPED:

- Vegetative propagation technology through cuttings hitherto unknown in temperate regions developed.
- Pruning schedule for the production of chawki mulberry leaf with the ontogenetic development of the plant in temperate region developed.
- Package of practices for mulberry cultivation under Sub-tropical conditions and tree cultivation practices standardized.
- Nursery techniques for the propagation of mulberry under Sub-tropical condition developed.
- Shoot harvesting technology for mulberry for conduct of autumn silkworm crop in sub-tropics developed.
- Pruning technology for mulberry under sub-tropical condition developed.
- Region and season specificity of the promising mulberry varieties under subtropical conditions of Jammu identified.

- Bivoltine silkworm materials designated as RSJ breeds evolved and hybrid RSJ₃ × RSJ₁ authorized for spring and autumn season while as RSJ₁₄ × RSJ₁₁ for spring. The hybrid RSJ₁₅ × NB₄ D₂ went under Provincial Race Authorization Trials. Rejuvenation of JAM bivoltine silkworm races accomplished.
- Package of practices for silkworm rearing in high temperature and high humid conditions developed.
- Distribution, habitat categorization and strategies needed for sustainable use of 24 eri silkworm host plants worked out and one new tertiary eri host plant viz. *Sterculia villosa* reported for the first time.
- Technology for biological control of Uzifly infestation in Muga developed.
- Technology for control of stem borer infestation in Muga developed.
- Improved plantation practices for successful Muga culture in Northeast developed.
- Pruning technology of Muga host plants worked out vis-à-vis zoning of plantation for quality Som leaf availability for different muga crop seasons.
- Technique for large scale production of Som planting material developed.
- Distribution, habitat, categorization and strategies needed for sustainable usage of 28 muga silkworm host plants worked out and three new tertiary muga host plants viz., *Actinodepne sikimensis*, *Lindera latifolia* and *Polyanthia siniarum* reported for the first time.
- One new primary food plant viz. *Litsea glutinosa* for muga silkworm rearing recognized and evaluated.
- Nylon net sac, a novel muga cocooning device innovated.

22. MAJOR TECHNICAL ACHIEVEMENTS /ACADEMIC CONTRIBUTIONS:

- The change in diosgenin content with the ontogenetic development, Basic chromosome number, phenomenon of Aneusomaty and deviant chromosome number, Sex chromosome in the species (*Dioscorea deltoidea*) identified and female heteromorphic (ZW) sex mechanism reported for the first time in the plants.
- For the improvement and upliftment of mulberry (*Morus sp.*) in temperate climatic conditions of Kashmir the major contributions include the study on the flowering process and anthesis.
- Evaluation of introduced mulberry cultivars with higher leaf yield done.
- The possibilities for adopting bush type of mulberry cultivation in place of traditional dwarf and tall types were explored.
- Simple and non destructive method of leaf area determination was estimated.
- The effect of plant spacing, plant plant densities, NPK and their interactions on the leaf yield was studied.
- Effects of different training practices on the leaf yield and other characteristics of mulberry worked out.
- The production of chawki mulberry leaf with the ontogenetic development of mulberry plant worked out.
- Effect of Tria-contanol for increasing mulberry leaf productivity assessed.
- Correlation of the rooting potential of mulberry genotypes with the shoot length worked out.
- Use of vegetative and sexual management in the mulberry improvement reviewed.
- An economic appraisal using NPV computer technique for mulberry raising under sub-tropical conditions of India made.
- Based on the cropping pattern across the Jammu and Kashmir State the sericultural zone of J&K deciphered
- Dormancy and sprouting behaviour of mulberry under subtropical conditions worked out.
- Studies on sexual cycle and biology of mulberry flower under subtropics studied.
- Correlation of Tukra with varying canopy heights of the mulberry in sub-tropics analysed.
- Incidence of powdery mildew under various mulberry plantation types and spacing assessed.
- Potential and prospectus of privatization of mulberry nurseries in J&K validated.
- Mulberry characterization in Indian perspective analysed and the distinctive features of *Morus* under sub-tropical conditions studied.
- Genotypic plasticity with respect to various economic characters in different micro-climates of Jammu Division worked out.
- Seed viability and seed longevity studies in Som carried out.
- Feasibility for conduct of indoor muga rearing assessed/validated.

23. PROJECTS HANDLED:

[A] : COORDINATED / CONCLUDED :

Sl. No.	PROJECT TITLE	PERIOD ASSO-CIATED WITH THE PROJECT	RESEARC H TIME SPENT [%]	IMPORTANT CONTRIBUTIONS
1.	Morphological and cytological studies in <i>Dioscorea deltoidea</i>	1978-80 (Project Leader)	100%	Sex chromosomes with ZW mechanism reported in plants for the first time.
2.	Evolution of better strains of mulberry from open pollinated seeds	1981-84 (Project Leader)	50%	Two genotypes evolved.
3.	Selection and isolation of useful genotypes from wild mulberry seedlings in nature.	1981-89 (Associate)	50%	Germplasm of promising selections established.
4.	Studies on the interspecific and intervarietal crosses in mulberry.	1982-84 (Project Leader)	75%	Complete anthesis of mulberry flower in temperate regions worked out.
5.	Variational studies for various genetical traits in mulberry.	1981-85 (Associate)	50%	Total variability in mulberry genetic stocks studied.
6.	Yield potential of various mulberry varieties.	1982-84 (Project Leader)	50%	Goshoerami variety established to be high yielder.
7.	Induction of polyploidy by chemical means in mulberry.	1982-84 (Associate)	50%	Colchploid with promising traits evolved.
8.	Effect of pruning at different interval on the harvest and yield of mulberry.	1982-83 (Project Leader)	50%	Complete pruning schedule established.
9.	Studies on various training practices adopted for mulberry in J&K.	1982-84 (Associate)	50%	Bush trained plantation at closer spacings out yielded.
10.	Standardization of propagational techniques for mulberry in J&K.	1981-88 (Project Leader)	50%	First fortnight of July established to be the best season for propagating mulberry through cuttings in the Kashmir valley; a practice hitherto unknown.
11.	Studies on the commercial exploitation of castor in Kashmir.	1982-83 (Project Leader)	50%	Package for cultivation of castor in Kashmir worked out.
12.	Maintenance of mulberry germplasm.	1981-89 (Associate)	50%	Germplasm of 68 genotypes maintained.
13.	Response of mulberry to the levels of a) NPK b) Nitrogen with plant density c) Nitrogen with plant spacing.	1984-90 (Associate)	50%	NPK schedule under temperate conditions worked out.
14.	Collection, Introduction and Conservation of indigenous and exotic mulberry varieties.	1984-90 (Associate)	50%	68 diverse genetic stocks collected and introduced.
15.	Improvement of mulberry	1994-97 (Project Leader)	50%	Two explorations identified as potential rooting genetic stocks.
16.	Package of practices and economics of mul-berry cultivation under sub-tropical conditions.	1990-97 (Associate)	50%	Pruning schedule formulated with bottom pruning in mid July, Chack Majra, identified as promising genotype.
17.	Prevalence, severity, distribution and control of mulberry pest and disease in J&K State.	1992-96 (Associate)	10%	Some important pests and diseases identified.
18.	Improvement of Silkworm <i>Bombyx Mori</i> .	1990-97 (Associate)	10%	Four breeds designated as RSJ lines evolved Rejuvenation of 13 Jam races accomplished.
19.	Growth & Biochemical studies of mulberry and silkworm under rainfed conditions of sub-tropics.	1994-97 (Associate)	30%	Combination of 200 kg N, 75 kg P. 75 kg K is the most suitable fertilizer. The application of nitrogen in form of 1:3 of soil and foliar application with combination of 12.5 kg N + 37.5 kg N (Foliar), 50 kg P205 + 50 kg K2) per hec/year most suitable.
20.	Package of practices for mulberry tree plantation under subtropical conditions.	1997-2000 (Associate)	20%	Economical input dose of mulberry trees worked out.

21.	Evolution of hyperseri-cigenous lines for spring utilization.	1994-1997 (Associate)	40%	Spring specific breeds of silkworm evolved.
22.	Transfer of Technology through field trials.	1997-2000 (Associate)	10%	Technology demonstration trials undertaken.
23.	CTADP	1999-2001 (Associate)	10%	Technology impact verified.
24.	Evaluation of different type of mulberry through bioassay	1999-2000 (Associate)	10%	Feasibility of various types of mulberry plantation studied.
25.	Package of practices for mulberry tree cultivation under sub-tropical conditions of Jammu (J&K)	2000-2006 (Associate)	10%	Tree cultivation practices standardized.
26.	Quality evaluation of Mulberry trees grown under different conditions.	2001-2004 (Associate)	10%	Performance of trees under varying conditions worked out.
27.	Studies on the influence of anti-transpirants for improving mulberry crop productivity under sub-tropical conditions.	2001-2004 (Associate)	10%	Salicylic acid identified as an economical anti-transpirant.
28.	All India Coordinated Experimental Trial for Mulberry (AICEM).	2001-2004 (Team Leader)	50%	Evaluation of elite mulberry genotypes from diverse sources undertaken
29.	Identification of region specific mulberry varieties for different eco-zones of Jammu division.	2003-2007 (Project Leader)	50%	Genotypic plasticity with respect to various economic characters in different micro-climates of Jammu division worked out.
30.	Integrated management of uzifly – A pest of muga silkworm.	2005-2007 (Associate)	5%	Control of uzifly through integrated approach to reduce muga crop loss studied and IPM technology for management of uzifly developed.
31.	Studies on control of stem borer, a pest of muga food plants, som & soalu.	2005-2007 (Associate)	5%	Technology for management of stem borer developed.
32.	In-situ conservation of <i>Antheraea assamensis</i> .	2005-07 (Associate)	5%	To conserve muga silkworm under in-situ condition.
33.	Production and evaluation of <i>Antheraea assamensis</i>	2005-07 (Associate)	5%	Isolation of inbred lines, hybridization and evaluation of hybrids.
34.	Muga sericulture based integrated farming system.	2005-07 (Associate)	5%	Feasibility of integrated farming system comprising of agriculture crops, dairy, poultry, fishery, piggery etc. with mugaculture.
35.	Evaluation of superior mulberry genotypes suited to Jammu conditions.	2004-2009 (Associate)	10%	The performance of genotype LC-8 found comparable to S-146 during both the seasons of planting.
36.	Improvement of <i>Bombyx mori</i> : - Breeding of bivoltine silkworms for thermotolerance	2007-2011 (Associate)	10%	F6 and F7 generation of three backcrossing lines (BC5) were advanced for fixation.
37.	Studies on double hybrids for higher economic values in sericulture.	2007-2011 (Associate)	10%	Eight parents viz. RSJ1, RSJ3, RSJ11, RSJ14, RSJ15, Dun6, Dun27 and CS6 were utilized for making viable poly hybrids.
38.	Introduction of authorized silkworm hybrids.	2007-2011 (Associate)	50%	Popularization of RSJ3 x RSJ, besides under taken.
39.	Integrated management of mulberry pests under subtropics.	2007-2011 (Associate)	10%	Infestation of major pest namely <i>Daphnia pylois</i> during May-June followed by Sept.-Nov. was observed.
40.	Empowerment of women through sericultural technologies in Jammu region.	2007-2011 (Associate)	10%	By infusing women friendly technologies the income of 60 women was enhanced.
41.	Soil assessment studies of mulberry farms / fields in Jammu province.	2007-2011 (Associate)	50%	105 soil samples of Udhampur, Nowshera and Kathua districts of Jammu Division were assessed for NPK and the nitrogen content ranged from 0.08% to 0.13% across the locations.

42	Transfer of vermi-compositing technology in Jammu province.	2007-2011 (Associate)	40%	Eight vermerices were established at various villages across the districts of Udhampur, Nowshera, Kathua using <i>Eisenia factida</i> strain of earthworm.
43	Silkworm cocoon handicraft technology for women empowerment in Jammu province.	2007-2011 (Associate)	30%	103 women farmers were enriched with technical skills for preparation of handicrafts from waste cocoons.
44	CDC, Nowshera and Tikri	2008-2011 (Coordinator)	20%	Transfer of technologies for upliftment of sericulture in Nowshera and Udhampur districts.
45	Studies on multiple mating ability of bivoltine male moths of <i>Bombyx mori</i> L and its effect on production of multi x Bi dfls.	2011 (Associate)	5%	The cost of Multi x Bi Dfls production could be minimized utilizing multiple mating ability of males of Bivoltine foundation cross.
46	Identification of improved multivoltine hybrids for unfavourable seasons of West Bengal.	2011 (Associate)	5%	The hybrid Nistari x M.Con1 ranked first from amongst 15 multivoltine hybrids tested.
47	Development of mulberry genotypes for improvement in productivity and quality.	2011 (Associate)	5%	Out of 63 newly developed mulberry genotypes, 14 genotypes are found significantly producing more leaf yield.
48	Development of commercial hybrids of silkworm by identification of bivoltine parents through screening in different seasons of West Bengal.	2011 (Associate)	5%	The breeds M6DP(C); SK7; B.Con4; M.Con4; and the hybrids SK6 x SK7 showed superiority in the expression when reared in various seasons.
49	Field evaluation of anti transperants for increasing leaf yield of mulberry under rainfed condition.	2011 - 2012 (Associate)	5%	The efficiency of applying 1% KCl solution for increasing leaf productivity in the mulberry at farmers level validated.
50	Validation trial of the ready reckoner of sulphur fertilizer application for obtaining targeted yields of mulberry.	2011 – 2012 (Coordinator)	5%	The validity of the technology for application of sulphur in mulberry gardens at field level was ascertained.
51	Multilocational trial of the new breeds / hybrids developed for different seasons of W.B.	2011 – 2012 (Coordinator)	5%	Multilocational trial of 3 Multi x Bi hybrids and one bi x bi hybrid was accomplished.
52	Maintenance of bivoltine and multivoltine germplasm and newly developed breeds and their lines.	2011 – 2012 (Associate)	5%	24 multivoltine and 38 bivoltine breeds of silkworms were duly maintained in the germplasm.
53	Survey and Surveillance of diseases and pest of mulberry and silkworm (RSRS-Ranchi)	2011 – 2012 (Coordinator)	5%	The incidence pattern of different diseases periodically at Ranchi and Gumla was assessed.
54	Survey and Surveillance of diseases and pest of mulberry and silkworm (Main Institute)	2011 – 2012 (Coordinator)	5%	Cropwise survey of silkworm diseases in the districts of Murshidabad, Malda and Birbhum undertaken.
55	Studies on the leaf webber (<i>Glyphodes pyloalis</i>) and its eco-friendly management.	2011 – 2012 (Coordinator)	5%	Leaf webber population in Kalimpong was 0.3 to 3.12 per plant and in Sikkim it was in the range of 0.3 to 1.2 per plant.
56	Improvement of yield and quality of mulberry leaf in sub-tropical hills of eastern India through the refinement of pruning schedule and application of Morizyme-B.	2011 – 2012 (Associate)	5%	Pruning package of mulberry for sub-tropical hills of Eastern India by minimizing leaf fall during September Crop and to increase overall leaf productivity during spring and autumn crops has been developed.

23. (B): ONGOING PROJECTS / PROGRAMMES:

Sl. No.	PROJECT / PROGRAMME TITLE	Period Associated with the project
1	Development of cold tolerant mulberry genotypes for sub-tropical plains.	Apr.'11 to Dec.'15
2	Evaluation of soil fertility for sustained production of quality mulberry leaf in Eastern India under long-term fertilization.	Apr.'11 to Jun.'15
3	Studies on micronutrients for sustained high productivity of quality mulberry in Eastern and North-Eastern India. (Collaboration with 4 RSRs)	Apr.'11 to Jun.'13
4	Terrestrial carbon sequestration for sustained high productivity of quality mulberry.	July.'11 to Mar.'15
5	Development of weather based forecasting models for mulberry pests. (Collaboration with 3 RSRs & 2 RECs)	Apr.'11 to Dec.'15
6	Development, validation and utilization of SCAR marker(s) for Powdery Mildew (<i>Phyllactinia corylea</i>) resistance in mulberry. (In collaboration with CCMB, Hyderabad).	Apr.'11 to Sept.'12.
7	Development of DNA marker based genetic linkage map of mulberry and QTL analysis for agronomically important <i>Planta</i> traits	Apr.' 11 to Feb.'14
8	Yield gap in mulberry sericulture – A study in North-Eastern region of India	Oct.'11 to Apr.'14
9	Biology and feeding efficacy studies of <i>Scymnus pallidicollis</i> (Mulsant) for the eco-friendly management of pink mealy bug, <i>Maconellicoccus hirsutus</i>	Oct.'11 to Apr.'13
10	Development of region specific bivoltine breeds suitable for highly fluctuating and seasonally variable climatic conditions of Eastern and North-Eastern India	Aug.'11 to Dec.'16
11	Screening of early sprouters and late senescence mulberry variety with better leaf yield and quality under low temperature condition	Nov.'11 to Oct.'14
12	Standardization and determination of temperature tolerance potentiality in different developmental stages of silkworm, <i>Bombyx mori</i> L.	Sept.'11 to Aug.'14
13	Improvement of mulberry seed cocoon production at farmers' level with special reference to bivoltine seed cocoon in West Bengal (DST, W.B.)	Nov.'11 to Oct.'12
14	Improvement of mulberry through <i>in vitro</i> mutagenesis and somaclonal variation.	Jul.'11 to Dec.'12
15	Formulation of broad spectrum room disinfectant for silkworm disease management.	Aug.'11 to Jul.'13
16	Development of weather based forewarning system of mulberry diseases. (Collaboration with 4 RSRs)	Apr.'11 to Mar.'12
17	All India Coordinated Experimental Trail for Mulberry (AICEM)- Phase III, (A prog. of C.O., Bangalore)	Apr.'11 to Jun.'15
18	Race Authorization Trial (RAT)- Programme – (An All India Coordinated Prog. of C.O, Bangalore)	Apr.'11 to Oct.'12
19	Production of Azotobacter (<i>Nitrofert.</i>).	Continuous
20	Production VA- Mycorrhiza (<i>Phosphofert</i>)	Continuous
21	Validation trial on the superiority of paired row plantation in chawki mulberry garden with regard to leaf yield and cocoon productivity.	Apr.'11 to Sept.'12
22	Study on the efficacy of newly developed bed disinfectant (Sericillin) in hot spot areas for the control of muscardine disease of silkworm, <i>Bombyx mori</i> L.	Apr.'11 to Jul.' 14
23	Studies on the field efficacy of selected dose of insecticide in whitefly management	Jul.'11 to Jun.'13
24	Validation trial of package of nutrient under rainfed condition (RSRS, Ranchi)	Oct.'11 to Oct.'13
25	Technology Assessment and Refinement (TAR) through Institute Village Linkage Programme (IVLP) - Phase III. (Collaboration with 4 RSRs)	Apr.'11 to Mar.'13
26	Raising of Muga host plantation at RSRS, Kalimpong.	2011 to 2014

27	Establishment of molecular IDs for the mulberry silkworm breeds (<i>Bombyx mori</i>) evolved by CSR&TI, Berhampore	Jul.'11 to Jun.'13
28	Screening and identification of bivoltine breeds for Eastern and North-Eastern India.	Aug.'11 to Mar.' 13
29	Field level testing of New hybrids.	Apr.'11 to Dec.'12
30	Popularization of authorized silkworm (<i>Bombyx mori</i> L.) hybrids	Apr.'11 to Aug.'12
31	Studies on the biology and feeding efficiency of the coccinellid predator, <i>Scymnus</i> sp. for management of whitefly on mulberry). (RSRS, Jorhat)	Apr.'11 to Feb.'13
32	Studies on reduction in cost of production and improvement on crop productivity for sustainable sericulture under West Bengal conditions	Sept.'11 to Feb.'13
33	CPP [Cluster Promotion Programmes] Nabagram, Mothabari and Aizwal	Apr.'11 to Mar.'12

24. LIST OF PUBLICATIONS

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