

RESEARCH AND DEVELOPMENT PROGRAMMES (2011-12)

ONGOING RESEARCH PROJECTS - MAIN INSTITUTE

PROJECTS RELATED TO FEED (HOST PLANTS)

[PIP 4678]	MORPHO-PHYSIO-ANATOMICAL CHARACTERIZATION OF <i>TERMINALIA</i> SPP. (Apr 2007 - Mar 2012) [PROJECT LEADER – Dr. RAJENDRA KUMAR]
[PIB 4686]	STUDIES ON VARIOUS PROVENANCES OF <i>TERMINALIA ARJUNA</i> BEDD. AND <i>T.TOMENTOSA</i> W&A (Aug 2008 - July 2011) [PROJECT LEADER – SRI. I. HEMBROM]
[PRP-4690]	SCREENING OF THE GERMPLASM OF <i>TERMINALIA ARJUNA</i> BEDD. & <i>T. TOMENTOSA</i> W.A. FOR TOLERANCE AGAINST THREE MAJOR FOLIAR DISEASES (Aug 2009 – July 2012) [PROJECT LEADER – DR. GARGI]

PROJECTS RELATED TO BREED (SILKWORM ECORACES)

[PIC 4684]	PHYTOSTEROL PROFILE AT DIFFERENT MATURITY LEVEL OF LEAVES OF TASAR FOOD PLANTS AND ITS EFFECT ON GROWTH AND DEVELOPMENT OF TROPICAL TASAR SILKWORM, <i>ANTHRAEA MYLITTA DRURY</i> (LEPIDOPTERA : SATURNIIDAE) - Collaborative with SFTRRD, Bhubaneswar (Apr 2009 - Mar 2012) [PROJECT LEADER – DR. O.P. DUBEY]
FUNDED BY GOVT. OF JHARKHAND	CONSERVATION AND UTILIZATION OF LOCAL ECORACE <i>LARIA</i> - Collaborative with DOS, Jharkhand (Apr 2010 - Mar 2013) [PROJECT LEADER – DR. M.K. SINHA]

PROJECTS RELATED TO SILKWORM PEST & DISEASE MANAGEMENT

[ARP 4691]	INDUCTION OF TOLERANCE TO AMCPV (<i>ANTHRAEA MYLITTA</i> CYTOPLASMIC POLYHEDROSIS VIRUS) IN COMMERCILLY EXPLOITED TASAR ECO-RACES OF DABA B.V. AND T.V (Oct 2010 – Sep 2014) [PROJECT LEADER – DR. K.P. KIRAN KUMAR]
[CSS-2107]	STUDIES ON FORECASTING AND FOREWARNING SYSTEM FOR MANAGEMENT OF PESTS OF TASAR HOST PLANTS AND SILKWORMS OF TROPICAL TASAR CULTURE (Sep 2010 – Aug 2013) [PROJECT LEADER – DR. R.B. SINHA]

PROJECTS RELATED TO H R D

[MOE 4683]	ESTABLISHMENT OF TASAR TECHNOLOGY COMPLEX FOR SOCIO-ECONOMIC EMPOWERMENT OF TRIBALS THROUGH SKILL DEVELOPMENT IN TASAR CULTURE (Jan 2008 – Jul 2011) - FUNDED BY DBT, NEW DELHI [PROJECT LEADER – DR. V.P. GUPTA]
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ONGOING RESEARCH PROJECTS – RTRs

TROPICAL

WARANGAL	[AIB 4687]IMPROVEMENT OF ANDHRA ECORACE OF <i>ANTHRAEA MYLITTA</i> D THROUGH BACK CROSS METHOD (Nov 2008 - Oct 2011) [PROJECT LEADER – DR. P. JAYA PRAKASH] - Project related to Breed (Silkworm Ecorace)
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TEMPERATE

IMPHAL	[AIB 4677] DEVELOPMENT OF RACES SUPERIOR TO EXISTING RACES OF OAK TASAR SILKWORM THROUGH INTERSPECIFIC HYBRIDIZATION (Apr 2007 – Mar 2012) [PROJECT LEADER – DR. K.C. SINGH] - Project related to Breed (Silkworm Ecorace)
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PILOT PROJECTS – MAIN INSTITUTE

[CTR&TI/HPI-PS/00]	PRELIMINARY TRIALS FOR ENHANCING THE GROWTH RATE OF <i>T. ARJUNA</i> PLANTS FOR REDUCING THE GESTATION PERIOD (Sep 2010 - Aug 2012) [PROJECT LEADER – DR. P.S. SINHA] - Project related to Feed (Host Plants)
[CTR&TI/HPT-PS/04]	STUDIES ON THE EFFECT OF REPEATED REARING ON NUTRIENT STATUS OF TASAR HOST PLANT FOLIAGE AND SOIL (Sep 2010 - Aug 2014) [PROJECT LEADER – S. GIRI] - Project related to Feed (Host Plants)
[CTR&TI/SWI-PS/006]	PRELIMINARY STUDIES ON ANTIOXIDANT SYSTEM IN TASAR SILKWORM, <i>A. MYLITTA</i> D. (Sep 2010 – Sep 2011) [PROJECT LEADER – Dr. K.B. JENA] - Project related to Breed (Silkworm Ecorace)
[CTR&TI/SWP-PS/02]	FIELD EVALUATION OF DEVELOPED SEMI-SYNTHETIC DIETS FOR TASAR SILKWORM, <i>ANTHRAEA MYLITTA</i> D (Aug 2010 – Jul 2012) [PROJECT LEADER – D. KUMR] - Project related to Breed (Silkworm Ecorace)
[CTR&TI/SWPT-PS/01]	DEVELOPMENT OF ECO-FRIENDLY DISINFECTANTS FOR PREVENTION OF DISEASES IN TASAR SILKWORM (Aug 2010 – Jul 2012) [PROJECT LEADER – DR. G.P. SINGH] - Project related to Silkworm Pest & Disease Management

PROGRAMME OF WORK – MAIN INSTITUTE

<i>PROGRAMMES RELATED TO FEED (HOST PLANTS)</i>	
1.	Farm management (Farm Maintenance) [PROJECT LEADER – DR. GARGI]
2.	Multiplication of identified plus trees available at the Institute through clonal propagation [PROJECT LEADER – DR. P.S.SINHA]
3.	Trials /Testing of Technique for propagating <i>Terminalia arjuna</i> through stem cuttings at DOS Jharkhand level [PROJECT LEADER – DR. P.S.SINHA]
4.	Propagation of elite genotypes of <i>Terminalia arjuna</i> through cuttings at some identified BSM & TC [PROJECT LEADER – DR. P.S. SINHA]
5.	Development & maintenance of chawki garden of <i>Terminalia arjuna</i> for two crop system [PROJECT LEADER – DR. RAM KUMAR]
6.	Preparation of Vermicompost and Organic manure [PROJECT LEADER – DR. RAM KUMAR]

PROGRAMMES RELATED TO BREED (SILKWORM ECORACES)

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| 7. | Germplasm maintenance of <i>A. mylitta</i> . [PROJECT LEADER – DR. A.K.SRIVASTAVA] |
| 8. | Indoor Tasar Chawki Rearing Technology (ITCRT) [PROJECT LEADER – DR. CH. SUDHAKARA BABU] |
| 9. | Development of New Grainage Method for tasar silkworm[PROJECT LEADER – DR. CH. SUDHAKARA BABU] |
| 10. | Collection of cocoonase enzyme from <i>Antheraea mylitta</i> and its utility in cocoon cooking/softening [PROJECT LEADER – DR. J.P. PANDEY] |

PROGRAMMES RELATED TO SILKWORM PEST & DISEASE MANAGEMENT

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| 11. | Survey & Surveillance of tasar silkworm and host plant diseases and pests [COORDINATORS – DR. A.K. DEBNATH, DR. A.K. SINHA & DR. GARGI] |
| 12. | Laboratory production and supply of Leaf Surface Microbe (LSM) [PROJECT LEADER – DR. G.P. SINGH] |
| 13. | Application of disease management module [PROJECT LEADER – DR. G.P. SINGH] |
| 14. | Laboratory production & supply of <i>Jeevan Dhara</i> [PROJECT LEADER – DR. G.P. SINGH] |

PROGRAMMES RELATED TO POST COCOON ACTIVITY

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| 15. | Studies on commercial / technological characters of different ecoraces of <i>A. mylitta</i> D. Commercially available in India [PROJECT LEADER – MR] |
| 16. | Development of spinning wheel (Vertical having feed roll) run by solar energy [PROJECT LEADER – MR. N.S.GAHLLOT] |
| 17. | Classification of Indian tasar raw silk[PROJECT LEADER – MR. T.K. PAUL] |
| 18. | Utilization of tasar waste through modified ring spinning machine from Roving [PROJECT LEADER – MR. T.K. PAUL] |
| 19. | Development of fuel efficient mass cocoon cooking devices [PROJECT LEADER – MR. N.S. GAHLLOT] |

PROJECTS TO BE CONCLUDED DURING 2011-2012

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[AIB 4677]	DEVELOPMENT OF RACES SUPERIOR TO EXISTING RACES OF OAK TASAR SILKWORM THROUGH INTERSPECIFIC HYBRIDIZATION (Apr 2007 – Mar 2012) [PROJECT LEADER – DR. K.C. SINGH] - RTRS, IMPHAL