

RESEARCH PUBLICATIONS 2012-13

Sl. No.	Particulars	Total
1.	Research papers:	
	A. International journals	28
	B. National journals	35
2.	Research articles	22
3.	News/ reports/silk briefs	57
4.	Books	11
5.	Book Chapters	2
6.	Booklet	1
7.	A. Brochures	2
	B. Pamphlets	7
	C. Bulletins	1
	D. Calendars	2
	E. Leaflet	1
8.	Proceedings of Seminar/ Workshop/ Symposium	17
9.	Abstracts of presented papers in Workshop/ Seminar/ Conference.	
	A. International	06
	B. National	27
	Total	219

I. RESEARCH PAPERS

A. International

1. Das, N. K., Ghosh, M. K., Ghosh, P. K. and Bindroo, B. B. (2012). Exponential growth regression models for estimation of leaf area in mulberry (*Morus* spp.). *Adv. Plant Sciences*. **25(II)**: 701-703.
2. Debaraj, Y., Singh, N. I., Biswas, T. K. and Singh, K. C. (2013). Studies on the emergence behaviour of the oak tasar silkmoth, *Antheraea proylei* Jolly. *Mun. Ent. Zool.* **8(1)**: 309-316.
3. Dutta, S. K., Ghosh, M. K., Borah, A. and Bindroo, B. B. (2012). Development of disease forecasting model for leaf rust of mulberry (*Morus alba* L.) of Dimapur of North East India. *Nature and Science* (Marsland Press). **10(8)**: 66-69.
4. Doss, S. G., Chakraborti, S.P., Roy Chowdhuri, S., Das, N. K., Vijayan, K. and Ghosh, P. D. (2012). Development of mulberry varieties for sustainable growth and leaf yield in temperate and tropical regions of India. *Euphytica*, **185(2)**: 215-225.
5. Dutta, S. K., Ghosh, M. K. and Bindroo, B. B. (2012). Scenario of mulberry disease of Eastern and North Eastern India: *The Silkworm*: www.silkwormmori.blogspot.in -2012/06: 1-4.
6. Ghosh, M. K., Shivnath, Ghosh, P. K., Misra, A. K., Ghosh, A. and Bajpai, A. K. (2012). Genetic divergence in relation to physiological parameters in exotic mulberry (*Morus* sp.) germplasm accessions. *Adv. Plant Sciences*. **25(I)**: 219-225.
7. Ghosh, M. K., Dutta, S. K., Shivnath, Ghosh, P. K. and Bindroo, B. B. (2012). Evolution of low temperature stress tolerant mulberry genotype for Eastern and North-Eastern plains of India. *Nature and Science* (Marsland Press). **10(12)**: 23-32.
8. Hossain Z., Gupta S. K., Chakrabarty, S., Saha, A. K. and Bindroo, B. B. (2012). Studies on the life cycle of five microsporidian isolates and histopathology of the mid-gut of the silkworm, *Bombyx mori* (Lepidoptera: Bombycidae) *International Journal of Tropical Insect Science*. **32(4)**: 203-209. Online doi: 1017/S174285841200032X.
9. Jalaja, S. Kumar and Bindroo, B. B. (2012). Genetic variability and character association in eight mulberry varieties (*Morus* sp.). *Indian Agric.*, **56(1&2)**: 47-50.

10. Jalaja S. Kumar, Suresh Kumar, N. and Bindroo, B. B. (2012). Evaluation of some mulberry varieties through bioassay. *Indian Biologist*. **44 (1)**: 53-55.
11. Kar, R., Bindroo, B. B., Ghosh, M. K., Majumder, S. K. and Bose, P. C. (2012). Molecular characterization of humic acids isolated from farm yard manure and vermicompost used under a long-term fertilizer experiment on mulberry (*Morus alba* L.). *Nature and Science* (Marsland Press). **10(12)**: 220-226.
12. Kar, R., Bindroo, B. B., Ghosh, M. K. and Majumder, S. K. (2013). Carbon credit in soil under a long-term fertilizer experiment on mulberry. *Nature and Science* (Marsland Press). **11(3)**: 77-81.
13. Lakshmanan, V. and Suresh Kumar N. (2012). Analysis of heterosis in new double hybrid combinations in bivoltine silkworm, *Bombyx mori* L. *Int. J. Sci. Nature* **3(1)**: 197-204.
14. Lakshmanan, V. and Suresh Kumar N. (2012). Evaluation of new bivoltine silkworm hybrids of *Bombyx mori* L for sub-tropical. *Int. J. Sci. Nature*. **3(1)**: 129-136.
15. Lalitha, N., Kiho, S., Banerjee, R., Chattopadhyay, S., Saha, A. K. and Bindroo, B. B. (2013). High frequency multiple shoot induction and *in vitro* regeneration of mulberry (*Morus indica* L. cv. S-1635). *Int. J. Adv. Res.* **1(1)**: 22-26.
16. Mukherjee, S., Suresh Kumar, N. Aier, S. M., Lakshmi, H., Chattopadhyay, G. K., Das, N. K., Saha, A. K. and Bindroo, B. B. (2013). Heterosis effect on some new hybrids of silkworm, *Bombyx mori* L. *Int. J. Int. Sci. Inn. Tech. Sec. A* **2(1)**: 1-7.
17. Patnaik, B. B., Kim, D. H., Oh, S. H., Song, Yong-Su., Minh Chanh, N. D., Kim, J. S., Jung, Woo-jin., Saha, A. K., Bindroo, B. B. Han, Y. S. (2012). Molecular cloning and characterization of novel *Morus alba* Germin-Like Protein Gene which Encodes for a silkworm Gut Digestion-Resistant antimicrobial protein. *Public Library of Science USA*. **7(12)**: 1-19.
18. Patnaik, B. B., Saha, A. K., Bindroo, B. B. and Han, Y. S. (2012). Lectins as possible candidates towards abti-microbial defense in silkworm, *Bombyx mori* L. *African J. Biotech.* (Academic Press). **11(50)**: 11045-11052.
19. Rajaram, S., Qadri, S. M. H., Bindroo, B. B., Radhakrishnan, S., Reddy, M. and Shakthi Prakash, M. R. (2012). Efficacy of artificial diet on growth and cocoon characters of silkworm (*Bombyx mori* L) PM x CSR2 cross breed. *J. Bio-industrial Science*. **1(1)**:15-18 & s15.
20. Rajaram, S., Klisdamon Nongrang, Mandal, S. K., Ghosh, M. K. and Bindroo, B. B. (2013). *Azotobacter chroococcum* mass culture for production of bio-fertilizer, its sustained efficacy on nitrogen fixation and crop productivity in mulberry garden. *Int. J. Computational Engineering Res.* **3 (3)**: 332-340.
21. Saha, A. K., Suresh Kumar, N., Chakrabarty, S., Patnaik, B. B., Nayak, S. K., Roy, S. and Bindroo, B. B. (2013). Reproductive performance of breeds and hybrid of silkworm, *Bombyx mori* L. with special reference to egg laying rhythmicity. *Int. J. Indust. Entomol.* **26(1)**: 22-30.
22. Sarmah, M. C., Ahmed, S. A., Sarkar, B. N., Debaraj, Y. and Singh, L. S. (2012). Seasonal variation in the commercial and economic characters of eri silkworm, *Samia ricini* (Donovan). *Mun. Ent. Zool.* **7(2)**: 1268-1271.
23. Sil, S. K., Ghosh, M. K. and Ghosh, P. D. (2012). Biodiversity in mulberry (*Morus* sp.). *Adv. Plant Sciences*. **25(II)**: 427- 431.
24. Suresh Kumar, N. and Harjeet Singh (2012). Evaluation of reproductive potential of bivoltine silkworm hybrids of *Bombyx mori* L. under high temperature and high humidity and high temperature and low humidity conditions of the tropics. *Univ. J. Env.Res. and Tech.* **2(5)**: 443-449.
25. Suresh Kumar, N., Lakshmi, H., Saha, A. K., Bindroo, B. B. and Longkumer, N. (2012). Evaluation of bivoltine silkworm breeds of *Bombyx mori* L. under West Bengal Conditions. *Univ. J. Env. Res. and Tech.* **2(5)**: 393-401.
26. Singh, G. B., Chandrakanth, K. S. and Qadri, S. M. H. (2011). Impact of mounting method on cocoon quality and reeling parameters of mulberry silkworm *Bombyx mori* L. *Sericologia*. **51(4)**: 509-512.

27. Singh, G. B., Chandrakanth, K. S., Vijoykumari, K. M. and Qadri, S. M. H. (2011). Impact of different mountages in different seasons on cocoon yield and characters. *Green Farming*. **3(1)**: 69-73.
28. Tewary, P. K., Misra, A. K., Ghosh, M. K. and Bindroo, B. B. (2012). Influence of plant growth regulator combinations on performance of leaf quality and yield of mulberry (*Morus* spp.). *Adv. Plant Sciences*. **25(II)**: 697-699.

A. National

1. Babu, A. M., Jalaja S. Kumar, Mishra, P. K., Yadav, B. Dayakar and Qadri, S. M. H. (2012). Root-knot development in mulberry infested with *Meloidogyne incognita*. *Archives of phytopathology and plant protection*. pp. 1-11.
2. Bagchi, S. N., Pandit, D., Ghosh, S., Mitra, P. and Bindroo, B. B. (2012). Impact of TAR-IVLP for development of mulberry sericulute in Eastern and North-Eastern States. *J. Interacademecia*. **16(2)**: 366-374.
3. Bandyopadhyay, U. K., Chatterjee, S., Maji, C. and Bindroo, B. B. (2013). Efficacy of plant oils against Leaf Webber (*Glyphodes pyloalis* Walker) on mulberry *Morus alba* L. and biosafety to silkworm. *Ann. Pl. Protec. Sci.* **21(1)**: 53-56.
4. Bindroo, B. B., Roy Chowdhuri, S. and Ghosh, M. K. (2012). Diversity, distribution and conservation of mulberry (*Morus* sp.) in Himalayas. *J. Crop and Weed*. **8(1)**: 26-30.
5. Chakrabarty, S., Saha, A. K., Manna, B. and Bindroo, B. B. (2012). Light and electron microscopy of *Nosema ricini* (Microsporidia: Nosematidae), the causal pathogen of pebrine disease in eri silkworm: Life cycle and cross-infectivity. *Appl. Biol. Res.* **14(1)**: 1-14. ISSN: 0972-0979.
6. Chakrabarty, S., Deb, S., Saha, A. K., Hazra, N., Manna, B. and Bindroo, B. B. (2012). Dimorphism in Nuclear polyhedrosis virus (*BmNPV*) (Family: Baculoviridae) causing Grasserie disease in silkworm, *Bombyx mori* L.: light, electron microscopy and protein profile. *Appl. Biol. Res.* **14(2)**: 176-186. Online ISSN: 0974-4517.
7. Chanda, S., Saha, L. M., Kar, N. B., Das, N. K., Saha, A. K. and Bindroo, B. B. (2012). Effect of multiple mating of (SK6 x SK7): a newly evolved bivoltine hybrid on grainage performance for sustainable multi x bi dfls production in West Bengal. *UP. J. Zool.* **32(2)**: 165-169.
8. Chanda, S., Saha, L. M. and Bindroo, B. B. (2012). Multiple mating of bivoltine male moths ó An approach for silkworm seed production in economical way. *UP. J. Zool.*, **32(3)**: 281-288.
9. Chanda, S., Saha, L. M. and Bindroo, B. B. (2013). Pupal weight ó An approach for productivity improvement in multivoltine silkworm, *Bombyx mori* L. *J. Exp. Zool. India*. **16(1)**: 265-269.
10. Datta (Biswas), T., Saha, A. K., Das, N. K. and Bindroo, B. B. (2013). Correlation studies on nutritional parameters and economic characters of some bivoltine silkworm breeds, *Bombyx mori* L. *J. Exp. Zool. India*. **16(1)**: 259-264.
11. Datta (Biswas), T., Saha, A. K., Das, S. K., Kar, N. B., Saha, A. B., Nayak, S. K. and Bajpai, A. B. (2012). Impact of silkworm rearing package developed for Eastern India at farmers level. *Bull. Ind. Acad. Seri.* **15(2)**: 119-122.
12. Das, S., Roy Chowdhuri, S., Laltanmawii, Mandal, B., Sarkar, K. and Baur, G. (2012). Effect of ploidy on morphology, leaf anatomy, propagation efficiency in mulberry in mulberry (*Morus* sp.). *UP. J. Zool.* **32(2)**: 217-221.
13. Dutta, S. K., Ghosh, M. K., Choudhuri, B. and Bindroo, B. B. (2012). *Acremonium roseogriseum*, a new fungal pathogen of Mulberry (*Morus alba* L.) from Aizawl (Mizoram). *The Scientific Temper.* **3(1 & 2)**: 31-32.
14. Ghosh, M. K., Misra, A. K., Shivnath, Das, C., Sengupta, T., Ghosh, P. K., Singh, M. K. and Bindroo, B. B. (2012). Morpho-physiological evaluation of some mulberry genotypes under high moisture stress condition. *J. Crop and Weed*. **8(1)**: 167-170.

15. Harjeet Singh and Suresh Kumar, N. (2012). Development of bivoltine hybrids of the silkworm *Bombyx mori* L tolerant to high temperature and low humidity conditions of the tropics. *Indian J. Seric.* **51(2)**: 109-127.
16. Kar, R., Bose, P. C., Majumder, S. K. and Ghosh, A. (2012). An account of soil organic carbon reserve under long term fertilizer experiment in mulberry (*Morus alba* L.). *J. Crop and Weed.* **8(1)**: 57-59.
17. Lakshmanan, V. and Suresh Kumar, N. (2012). Selection of breeding resource material from bivoltine strains of *Bombyx mori* L. *Indian J. Seric.* **51(2)**: 100-108.
18. Mandal, B., Roy Chowdhuri, S., Das, S., Sarkar, K. and Baur, G. (2012). Studies on morphology and reproductive behaviours in mulberry (*Morus sp.*). *J. Interacademecia.* **14(4)**: 893-897.
19. Maji, M. D., Banerjee, R., Das, N. K. and Ghosh, A. (2012). Forecasting model of bacterial leaf spot disease of mulberry caused by *Xanthomonas campestris* pv. *Mori*. *Archiv. Phytopathol. and Plant Protection.* **45(13)**: 1570-1574.
20. Monica Chaudhuri (Nee Mukhopadhyay), Chakravarty, D. and Bindroo, B. B. (2012). Genotype X environment interaction and estimation of stability for foliage yield of some castor genotypes (*Ricinus communis* L.) suitable for ericulture. *Indian Biologist.* **44(1)**, pp. 43-47.
21. Mukhopadhyay, S. K., Santha Kumar, M. V., Das, N. K., Mondal, K. and Bajpai, A. K. (2011). Relative susceptibility of two high yielding mulberry (*Morus alba* L.) cultivars to whitefly and thrips. *J. Plant Protection Sciences.* **3(2)**:59-62.
22. Misra, A. K., Ghosh, M. K. and Bindroo, B. B. (2012). Water deficit condition and its impact on mulberry plant (*Morus spp.*) in relation to its growth and physiological parameters. *J. Crop and Weed.* **8(2)**: 143-145.
23. Pandit, D., Bagchi, S. N. and Nivedita, T. (2012). Training need of improved sericultural practices as perceived by the sericulture farmers of West Bengal. *J. Interacademecia.* **16(1)**:167-171.
24. Patnaik, B. B., Datta Biswas, T., Nayak, S. K., Saha, A. K., Majumdar, M. K. (2012). Isozymic variations in specific and non-specific esterase and its thermostability in silkworm *Bombyx mori* L. *J. Environmental Biology.* **33 (5)**: 837-842.
25. Patnaik, M., Bhattacharya, D. K., Kar, N. B., Das, N. K., Saha, A. K. and Bindroo, B. B. (2013). Potential efficacy of new pesticides for the control of mulberry whitefly and its impact on silkworm rearing. *J. Plant Protection Science.* **3(1)**: 57-60.
26. Rahman, M. S. (2012). How to develop a new mulberry variety: A Mini Review. *Bull. Ind. Acad. Seri.* Vol. **16(1)**: 49-57.
27. Saha, A. K., Kar, N. B. and Bindroo, B. B. (2013). Impact of environmental factors on important economic and reeling parameters of silkworm, *Bombyx mori* L. breeds/hybrids. *J. Experimental Zoology.* **16(1)**: 271-279.
28. Saha, L. M., Chanda S., Das, N. K., Mandal, K. and Bindroo, B. B. (2012). Effect of seasonal variation on cocoon yield and egg recovery in Multi x bivoltine seed production (*Bombyx mori* L) under tropical conditions in West Bengal. *Bull. Ind. Acad. Seri.* **16(1)**: 79-84.
29. Saha, L. M., Chanda, S., Mondal, K. and Bindroo, B. B. (2012). Potency of bivoltine male moths of pure silkworm breed and hybrid in laying preparation. *UP. J. Zool.* **32(3)**: 303-309.
30. Sarmah, M. C, Chutia, Neog, K, Rajkhowa, G and Gogoi, S. N. (2012). Evaluation of promising castor genotype in terms of agronomical and yield attributing traits, biochemical properties and rearing performance of eri silkworm, *Samia ricini* (Donovan). *Industrial Crops and Products.* **34**: 1439-1446.
31. Setua, M., Sengupta, T., Sarkar, A., Ghosh, A. and Ghosh, M. K. (2012). Identification of photosynthetic efficient elite mulberry genotypes physio-biochemical study under irrigated condition of West Bengal. *J. Crop and Weed.* **8(1)**: 75-78.
32. Singh, G.B., Satish Verma and Qadri, S. M. H. (2012). Effect of dropping of mature silkworm and its impact on cocoon quality and reelability. *UP. J. Zool.* **32(2)**: 189-192.

33. Singh, M. K., Roy Chowdhuri, S., Naqvi, A. H., Ghosh, M. K. and Bindroo, B. B. (2012). Studies on integrated nutrient management on leaf yield and quality of silk of mulberry (*Morus alba* L.) grown under rainfed situation. *J. Crop and Weed*. **8(2)**: 80-82.
34. Singh, R., Singh, G. B. and Verma, S. (2011). Studies on pupal size measurement in the mulberry silkworm *Bombyx mori*. *UP. J. Zool.* **31(1)**: 107-108.
35. Singh, L. S., Debaraj, Y., Singh, N. I., Ray, B. C. and Singh, R. (2012). Studies on the combining ability analysis of six inbred lines of eri silkworm, *Samia ricini* (Donovan). *Indian J. Seric.* **51(2)**: 167-172.

II. RESEARCH ARTICLES

1. Bagchi, S. N., Pandit, D. and Mitra, P. (2012). Sericulture: An economic avenue of a seed rear through IVLP approach. *Indian Silk*. **3(3)**: 14-16.
2. Bindroo, B. B., Suresh Kumar, N., Saha, A. K., Chattopadhyay, G. K., and Lakshmi, H. (2012). Silkworm hybrids and cropping schedule in West Bengal *Indian silk*. **3(6)**: 4-8.
3. Bindroo, B. B., Suresh Kumar, N., Saha, A. K., Chattopadhyay, G. K., and Lakshmi, H. (2012). Silkworm hybrids and cropping schedule in West Bengal. *Indian silk*. **3(6)**: 4-8.
4. Chakrabarty, S., Saha, A. K., Manna B. and Bindroo, B. B. (2012). Pebrine disease in eri silkworm: *A microscopic view*. *Indian Silk*. **2(12)**: 16-17.
5. Dutta, R. N., Saha, L. M. and Bindroo, B. B. (2012). Nitrates in mulberry: Accumulation, Effects and Utility. *Indian Silk*. **3(31)**: 12-13.
6. Dutta, R. N., Saha, L. M. and Bindroo, B. B. (2013). Carboxymethyl cellulose: Sodium salt from mulberry stem. *Indian Silk*. **3(9)**: 20-21.
7. Dutta, S. K., Ghosh, M. K. and Bindroo, B. B. (2012). Scenario of mulberry disease of Eastern and North Eastern India. [www. The silkworm mori blogspot.com](http://www.the-silkworm-mori.blogspot.com). **6**: 1- 4 [online].
8. Mandal, S. K. (2012). *Gair Sankramak Ke Bajha Se Rog*. *Resham Darsan*. **1(2)**: 12-14.
9. Rahaman, M. S. and Mandal, K. (2012). Branch compactness in Bombai local. *Indian Silk*. Vol. **3(6)**: 9.
10. Rahman, M. S. (2012). *Purnea Main Sahatut Ke Kheti*. *Resham Darsan*. **1(2)**: 12-14.
11. Ram, R. L., Maji, C. and Bindroo, B. B. (2012). Resham Udyog Me Wriddhi, Gaon ki Samriddhi. *Resham Darshan*. **1(2)**: 10-11.
12. Singh, G. B. (2012). Resham Dhage Ki Rasayanik Sangrachana. *Resham Darshan*. **1(1)**:20-22.
13. Singh, G. B., Biswas, T. K. and Bindroo, B. B. (2012). Reshamotpadan mein Prachar-Prasar Ki Upoyogita, *Resham Darshan*. **1(2)**: 19-21.
14. Singh, M. K., Tewary, P. K. and Bindroo, B. B. (2012). Ashinchit Kshetro Mai Resham Keetpaln Ka Prabandhan. *Resham Darshan*. **1(1)**: 12-18.
15. Santha Kumar, M. V., Dutta, A. K., Sarkar, J., Das, D., Mukhopadhyay, S. K. and Bindroo, B. B. (2012). Cluster Promotion Programme: A trendsetter for success through participatory mode. *Indian Silk*. **3(7&8)**: 20-22.
16. Santha Kumar, M. V., Mukhopadhyay, S. K., Das, D. and Bindroo, B. B. (2012). Brain Storming Workshop on Cluster Promotion Programme at CSR&TI, Berhampore. *Indian Silk*. **3(2)**: 34.
17. Singh, M. K., Roy Chowdhuri, S., Bindroo, B. B. (2012). Purbie Evang Uttarpurbi Rajjyo Mai Sahatuti Resham Ke Vikash Kee Prachur Sambhabavnayen. *Resham Darshan*. **1(2)**: 17-18.
18. Sreekumar, S, Bindroo, B. B., Saha, A. K., Jalaja, S. K., Lakshmi, H., Suresh Kumar, N., Chattopadhyay and Lalitha, N. Mulberry fruits in table delicacies. *Indian silk*. **3(6)**: 13.
19. Sreekumar, S., Saha, A. K., Bindroo, B. B. and Jalaja, S. K. (2012). Wine from mulberry fruit for health benefits. *Indian Silk*. **3(6)**: 18-19.
20. Tewary, P. K., Singh, M. K. and Bindroo, B. B. (2012). Genetic Engineering- Unnata Poudhe Taiyar Karne Ki Ek Adhunikitama Takniki. *Resham Darshan*. **1(1)**: 7-10.

21. Tewary, P. K., Singh, M. K. and Bindroo, B. B. (2012). Genetic engineering ó Unnat Poodhe Tayar Karne Kee Yek Adhunik Takneeki. *Resham Darshan* **1(1)**: 7-10.
22. Tikader, A., Saha, R. K., Chattopadhyay, S. and Biswas, N. (2012). Muga culture in Coohbehar of West Bengal. *Indian Silk*. **3(6)**: 22-24.

III. NEWS/ REPORTS/ SILK BRIEFS:

1. Bandyopadhyay, U. K., Chatterjee, S. and Maji, C. (2013). Audio visual cum Awareness Programme at farmersø level at Lingsey village, Kalimpong. *Indian Silk*. **3(9)**, p.41.
2. Bandyopadhyay, U. K., Bhutia, R. and Maji, C. (2013). Field Day at farmersø level at Dolapchand village, Kalimpong. *Indian Silk*. **3(9)**, p.37.
3. Bandyopadhyay, U. K. and Maji, C. (2012). Awareness Programme at Elaichikhop village, Kalimpong. *Indian Silk*. **3 (7&8)**, p.37.
4. Bandyopadhyay, U. K. and Maji, C. (2012). Awareness programme at farmersø level at Pringtam village, Kalimpong. *Indian Silk*. **3 (7 & 8)**, p.38.
5. Bandyopadhyay, U. K., Bhutia, R. and Maji, C. (2012). Field Day Programme at farmersø level at Dolapchand village, Kalimpong. *Indian Silk*. **3 (7 & 8)**, p.40.
6. Bandyopadhyay, U. K. and Maji, C. (2012). Awareness Programme at Tanek Basti, Kalimpong. *Indian Silk*. **3 (3)**, p.39.
7. Bandyopadhyay, U. K., Chatterjee, S., Bhutia, R. and Maji, M. D. (2012). Resham Krishi Mela at RSRS, Kalimpong. *Indian Silk*. **2 (12)**, p. 34.
8. Bindroo, B. B. and Verma, A. K. (2012). Field Day programme at Bangalgram village by REC (SU), Rajmahal. *Indian Silk*. **3 (1)**, p.35.
9. Biswas, T. K, Gogoi, S. N and Pamehgam, M. (2012). Awareness programme Utter Hatichingi village, Jorhat. *Indian Silk*. **3 (7& 8)**, p.38.
10. Chatterjee, S. and Maji, C. (2013). Awareness Programme at farmersø level at Mahakaldara village, Kalimpong. *Indian Silk*. **3 (9)**, p.36.
11. Chatterjee, S., Bandyopadhyay, U. K. and Maji, C. (2012). Awareness Programme at farmersø level at Gitdubling village, Kalimpong. *Indian Silk*. **3 (7 & 8)**, p.38
12. Chanda, S. (2012). Report on Exposure Visit of IVLP farmers of Karimpur, Nadia district to BSF, Dhubulia and Banguria. *Indian Silk*. **3 (4&5)**, p.45.
13. Chanda, S. and Das, D. (2012). An awareness programme at Karimpur, Nadia. *Indian Silk*. **3 (6)**, p. 36-37.
14. Das, Ranuma and Biswas, T. K. (2012). Awareness programme at Potiagaon. *Indian Silk*. **2 (12)**, p.35.
15. Das, Ranuma, Pamehgam M. and Biswas, T. K. (2012). Farmers training programme *Indian Silk*. **2(12)**, p. 39.
16. Das, Ranuma, Pamehgam M. and Biswas, T. K. (2012). Beneficiary Empowerment programme. *Indian Silk*. **2 (12)**, p. 40.
17. Das, Ranuma, Pamehgam, M. and Biswas, T. K. (2012). Farmers training programme *Indian Silk*. **3 (2)**, p. 40-41.
18. Das, Ranuma, Pamehgam, M. and Biswas, T. K. (2012). Farmers training programme *Indian Silk*. **3 (3)**, p.44.
19. Das, Ranuma and Biswas, T. K. (2012). Trainers training programme. *Indian Silk*. **3(6)**, p.42.
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49. Singh, G. B., Biswas, T. K. and Bondroo, B. B. Seminer at Champaknagar in Tripura. *Indian Silk*. **3(7 & 8)**, pp.35-36.
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VII. BROCHURES/ PAMPHLETS/ BULLETINS/CALENDERS

A. BROCHURES

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- 3) Maji, M. D., Maji, C and Bindroo, B. B. (2013). **Mulberry diseases of sub-tropical hills and their management.** Pamphlet No. 6 (English).
- 4) Maji, M. D., Maji, C and Bindroo, B. B. (2013). **Parbatya chetrama kimboko botma lagne bibhinna roghoru ani yasko babyastapan.** Pamphlet No. 6 (Nepali).
- 5) Pachuau, L., Choudhury, B.N. and Vanlallawma (2013). **Maimaw Pangang Natnavei Thin Te.** Pamphlet No.7 (Mizo).
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D. CALENDARS

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E. LEAFLETS

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VIII. PROCEEDINGS OF SEMINAR/WORKSHOP/ SYMPOSIUM:

Full Papes

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 7. Ghosh, M. K., Ghosh, P. K., Shiv Nath, Roy Choudhury, S., Singh, M. K. and Bindroo, B. B. (2012). Challenges in improving mulberry productivity and leaf quality for Eastern and North Eastern India: *Proc. State Level Seminar on Advancement of Biological Science Towards Sustainable Development (State level Seminar in Berhampore Girls College on 29th – 30th March, 2012)*. pp. 176 -186.
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17. Singh, M. K., Naqvi, A. H., Roy Chowdhuri, S., Hossain, Z., and Bindroo, B. B. (2012). Mulberry sericulture: A suitable option in rainfed area of Jharkhand through technology intervention. In *Proc. State Level Seminar on Advancement of Biological Science Towards Sustainable Development (State level Seminar in Berhampore Girls College on 29th – 30th March, 2012).* pp. 199-203.

IX. ATTENDED & PRESENTED PAPER IN WOEKSHOP/ SEMINAR/ SYMPOSIUM

Abstracts

International

- i) **International symposium on Food security dilemma: Climate change and plant health issues' AAPP, BCKV, Kalyani, West Bengal, India, 7th to 9th Dec., 2012.**
 1. Patnaik, M., Santhakumar, M. V., Saha, A. K., Bindroo, B. B. (2012). A new record of a native predator, *Scymnus pallidicollis* (Mulsant) on pink mealybug, *Maconellicoccus hirsutus* (Green) causing δTUKRAö in mulberry. Abs-021.
- ii) **Proceedings of 7th International Conference on Wild Silk Moth and Silk at Mahasarkhan Province, Thailand, on dated 22 to 24th Nov., 2012.**
 2. Pachau, L., Choudhury, B. N. and Tikader, A. (2012). Conservation of wild silk Eri in Mizoram.
- iii) **Proceedings of International Conference on Insect Science held on 14th to 17th Feb., 2013 at University of Agricultural Sciences, Bangalore.**
 3. Santha Kumar, M. V., Dutta, P., Chakrabarti, S., Das, N. K., Mukhopadhyay, S. K. and Bindroo, B. B. (2013). Factors influencing the incidence pattern of whitefly, *Dialeuropora decempuncta* in mulberry.
- iv) **Indian Social Science Congress organized by Indian Academy of Social Sciences on 27th to 31st Dec., 2012 at Bhubaneswar, Odisha.**
 4. Das, N. K., Das, K. K., Ghosh, M. K. and Bindroo, B. B. (2012). A study on comparative profitability in mulberry sericulture with prevailing agricultural multi-cropping pattern and adoption of sericulture by new farmers in West Bengal. Vol XXXVI, 2012. pp. 87.

- v) **International conference on Global meet of biologists organized by Indian Institute of Chemical Technology, Hyderabad on dated 26th to 28th Dec., 2012.**
5. Jalaja, S. K., Babu, A. M., Mishra, P. K. and Bindroo, B. B. (2012). SEM studies on the anatomical alterations in mulberry root leading to the formation of galls due to root-knot nematode, *Meloidogyne incognita*.
- vi) **International Conference on Anthropogenic Impact on the Environment and Bioremediation held on 2nd to 4th Nov., 2012 at Department of Biosciences, St. Xavier's College, Ranchi in collaboration with National Environmentalists Association, India, Ranchi, Jharkhand.**
6. Maji, C., Maji, M. D., Bandyopadhyay, U. K., Chatterjee, S., Ram, R. L., Bhutia, R. and Bindroo, B. B. (2012). Boost rearing performance through sericulture waste ó a study. Abs. AZCE-5: 3, p. 103.

National

- vii) **Proceedings of National Seminar on Recent Trends in Research & Development in Muga Culture- ideas to Action, Guwahati, 3 – 4th May, 2012.**
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8. Trivedi, K., Nirmal Kumar, S., Barah, A., Qadri, S. M.H. and Rajan, R. K. (2012). Essential oil contents in fresh and dry som leaf, *Machilus bombycina* King- a comparative study.
- viii) **Proceedings of Centenary Session of Indian Science Congress in Agriculture and Forestry Sciences section held at Kolkata University on 3rd to 7th Jan., 2013.**
9. Biswas, D., Banerjee, R., Devi, S., Chattopadhyay, S., Saha, A. K. and Bindroo, B. B. (2013). Morpho-anatomical and molecular characterization of full-sib pseudo-F₂ (F₁) progeny of mulberry (*Morus* spp.) for improvement of foliage biomass. p.189.
10. Chakrabarty, S., Saha, A. K., Manna, B. and Bindroo, B. B. (2013). *Nosema bombycis* N. (Microsporida: Nosematidae) causing Pebrine disease in silkworm, *Bombyx mori* L.: A new improved method facilitate for observation of the diseases for sustainable development in sericulture. Abs. EP P- 61, p.393.
11. Das, D., Chatterjee, H., Santha Kumar, M. V., Das, N. K., Mukhopadhyay, S. K. and Bindroo, B. B. (2013). Population fluctuations of the root mealy bug, *Paraputo* sp. (Hemiptera: Pseudococcidae). Abs. EP- P, 26, p.402.
12. Datta (Biswas), T., Mejamongla, Saha, A. K. and Bindroo, B. B. (2013). Leaf silk conversion efficiency of silkworm, *Bombyx mori* L. feeding on different mulberry varieties (S1 & S 1635) and its utilization in the cocoon production. Abs. EP. 70, p.437.
13. Kar, R., Majumdar, S. K., Ghosh, M. K. and Bindroo, B. B. (2013). A study on variation of soil organic and inorganic carbon stock under nutrient management system on mulberry (*Morus alba* L.). Abs. G-37, pp.273- 274.
14. Lakshmi, H., Manu, P., Saha, A.K., Suresh Kumar, N., Mukherjee, S. Das, N. K., Bindroo, B. B. (2013). Identification of new foundation crosses of silkworm *Bombyx mori* L for commercial exploitation. Abs. Section II: Agriculture and Forestry Sciences. Abs. Ep-P-36, p.411.
15. Lalitha, N., Devi, L. M. Banerjee, R., Chattopadhyay, S., Saha A. K. and Bindroo, B. B. (2013), Effect of plant derived gelling agents as agar substitute in micropropagation of mulberry (*Morus Indica* L. cv. S-1635). p.136.

16. Ghosh, M. K., Bindroo, B. B., Ghosh, P. K., Shiv Nath, Roy Choudhury, S. and Misra A. K. (2013). Evaluation of newly developed promising mulberry varieties under irrigated conditions in the Gangetic alluvial soil of West Bengal. Abs. J-11, pp.316 -317.
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18. Sarkar, S., Chattopadhyay, S., Banerjee, R., Biswas, D., Saha, A. K. and Bindroo, B. B. (2013), Genetic analysis of segregation progenies of mulberry (*Morus* spp.) for powdery mildew (*Phyllactinia corylea*) resistance. p.119.
19. Roy Chowdhuri, S. and Partin, M. (2013). Studies on cytological behaviour in mulberry (*Morus* sp.). Abs. Section XIV: Plant Science. 249, p.207.
20. Saha, A. K., Naik, S. K. Suresh Kumar, N., Lakshmi, H., Bindroo, B.B. and Roy, S. (2013) Effect of photoperiod and scotoperiod on egg laying behaviour of silkworm *Bombyx mori* L. Abs. Section II: Agriculture and Forestry Sciences. Abs. EP-P-02, p.384.
21. Santha Kumar, M. V., Dutta, P., Chakrabarti, S., Das, N. K., Mukhopadhyay, S. K. and Bindroo, B. B. (2013). Critical factors influencing the incidence pattern of a native predator, *Micraspis crocea* (Coleoptera: Coccinellidae). Abs. EP-O-10, p.369.
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