

## RESEARCH PUBLICATIONS (2014-15)

Sl. No.	Particulars	Total
I.	Research papers:	
	A. International journals	10
	B. National journals	10
II.	Research articles	14
III	News/ reports/silk briefs	38
IV	Books/Book Chapters/ Booklet	18
V	Compendium of technologies	02
VI	Brochurs/ Pamphlets/ Bulletins/ Calenders	
	A. Brochurs	03
	B. Pamphlets	16
	C. Bulletins	01
	D. Manuals	03
	E. Leaflet	09
Total		124

### I. RESEARCH PAPERS:

#### International:

1. Arora, V. Ghosh, M.K., Ghosh, P.K., Nirmal Kumar, S. and Gangopadhyay, G. (2015). Molecular markers to assess the hybrid nature of an improved mulberry genotype. *Journal of Plant Science & Research*. **2(1)**:112-116.
2. Arora, V., Ghosh, M. K., Bindroo, B. B. and Gangopadhyay, G. (2014). Phonic analyses of indigenous and exotic accessions of mulberry. (*Morus* spp.) *International Research Journal of Biological Sciences*. **3(7)**: 40-48.
3. Arora, V., Ghosh, M. K. and Gangopadhyay, G. (2014). SSR Markers for assessing the hybrid nature of two high yielding mulberry varieties. *International Journal of Genetic Engineering and Biotechnology*. **5(2)**:191-196.
4. Banerjee, R., Chattopadhyay, S., Das, N. K., Doss, S. G., Saha, A.K. and Nirmal Kumar, S. (2014). Combining ability analysis for bacterial leaf spot resistance, leaf yield and agronomic traits in mulberry clones. *Taylor & Francis*. **28 (3)**: 305-322.
5. Chattopadhyay, S., Sangma, C. D., Tikader, A., Rajan, R.K. and Bindroo, B.B. (2014). Assessment of som (*Persea bombycina*) clones for resistance against *Phyllosticta persae*. *Tropical Plant Pathology*. **39(3)**: 259-264.
6. Dutta, S. K., Kar, R., Ghosh, M.K. and Nirmal Kumar, S. (2014). Study on *Irpex vellereus* Berk and Br., a new white rot fungus of tree mulberry (*Morus alba*, L.) plant from West Bengal. *Journal Multilogic In Science*. **IV**:10–12.



7. Ghosh, M.K., Kar, R., Dutta, S.K., Ghosh, P.K. and Nirmal Kumar, S. (2015). Nitrogen harvest index and biological yield for screening of better genotypes in mulberry (*Morus* spp.). *Bioscience Discovery*. **6(1)**: 1-5.
8. Kar, R., Ghosh, M. K., Majumdar, M.K., and Nirmal Kumar, S. (2014). Induction of DRIS for foliage diagnosis of cationic micronutrients for mulberry (*Morus* sp.) growing under plains of West Bengal. *Nature and Science*. **12(4)**: 101-105.
9. Lalitha, N., Santha Kumar, M.V., Saha, A.K. and Nirmal Kumar, S. (2015). Avoidable leaf yield loss due to Pink mealy bug, *Maconellicoccus hirsutus* (Green) in mulberry. *Annals of plant protection*. **23(1)**:171-172.
10. Suresh Kumar, N., Saha, A.K. and Bindroo, B. B. (2014). Development of polyvoltine breeds /hybrids of the silkworm, *Bombyx mori* L. for Indian conditions-A review. *Sericologia*. **54(2)**: 77-96.

### **National:**

1. Acharya, A., Allay, S., Ram, R. L. and Chakraborty, B. N. (2014). Physico-chemical analysis of rhizospheric soil, mycorrhizal association and root colonization of Mulberry (*Morus alba* L) plants grown in Kalimpong hills. *NBU Journal of Plant Sciences*, **8(1)**: 5-12. ISSN: 0974-6927.
2. Chanda, S., Saha, L. M., Ronibala Devi, Khwairakpam and Mandal, K. (2014). Effect of cold storage of female pupae of silkworm *Bombyx mori* L. on survivability and reproductive behavior. *Eco. Env. & Cons.*, **20(4)**: 1699-1704.
3. Deb, S., Chakrabarty, S., Hazra, N., Saha, A.K., Nirmal Kumar, S. and Manna, B. (2014). Comparative study on Gonadosomatic index (GSI) and Tissue somatic index (TSI) of different commercial breeds and hybrids of *Bombyx mori* L. in West Bengal. *Journal of Plant protection and Environment*. **10(2)**:1-10.
4. Deb, S., Hazra, N., Chakrabarty, S., Saha, A. K. and Chakrabarty, C. (2014). Studies on life span of silkworm, *Bombyx mori* L. after Grasserie infection, *Journal of Plant Protection and Environment*, **11(2)**: 47-51.
5. Deb, S., Hazra, N., Chakrabarty, S., Saha, A.K. and Chakrabarty, C. (2014). Comparative innate protein profile study of different silkworm (*Bombyx mori* L.) breeds after Grasserie. *Journal of Biochemistry and Cellular Archive*. **14(2)**:369-372.
6. Maji, M. D. (2013). Assessment of crop loss due to *Myrothecium* leaf spot caused by *Myrothecium roridum*. *Bull. Ind. Acad. Seri*. **17(1&2)**: 59-64.
7. Maji, M.D., Maji, C. and Nirmal Kumar, S. (2013). Darjeeling Jila ke Pahari Khetra Mein Shahatut Ke Rog Ebong Niyantran. *Resham Darshan*. **2(3)**:15-16.
8. Maji, M. D., Maji, C. and Nirmal Kumar, S. (2013). *Sylepta* sp. (Lepidoptera: Pyralidae) - a new pest of Soalu (*Litsaea monopetala*) in Kalimpong hills. *The Journal of Plant Protection Sciences*. **5(2)**: 40-41.
9. Ram, R. L., Chatterjee, S., Maji, C. and Nirmal Kumar, S. (2015). Effect of long term terrace cultivation on nutrient availability and lime requirements in acid soils of Kalimpong hills under mulberry farming. *Indian J of Agricul Res*. **49(1)**:1-12.



10. Suresh Kumar, N., Saha, A.K. and Nirmal Kumar, S. (2014). Evaluation of bivoltine foundation crosses as male parents under West Bengal conditions. *J.Seric.Tech.* **3(1&2)**: 1-15.

## II. RESESARCH ARTICLES:

1. Babu, C. S. (2014). Audio-visual-cum-exhibition programmes at Gethalsod and Lawagarh, Ranchi, Bihar. *Indian Silk.* **4 (8-9)**: 51.
2. Babu, C. S., Singh, G. S. and Nirmal Kumar, S. (2014). Jharkhand main Shahatootee Utpadan kee Tatkalin Paristhiti. Souvenior: *Interaction on transfer of technology in mulberry sericulture production.* pp.30-32.
3. Das, D., Santha Kumar, M. V., Mukhopadhyay, S. K. and Bindroo, B. B. (2014). Success story – Sericulture made my life – Smt. Kusumbala Mondal. *Indian Silk.* **5 (2-4)**: 32.
4. Ghosh, M.K. and Nirmal Kumar S.(2014). Sahatooti Resam utpadan me Prodhogiki hastantaran par antasambad. *Sahatoot Krishi.* pp.1-14.
5. Maji, M.D., Maji, C. Nirmal Kumar, S. (2013). Darjeeling Jila ke Pahari Khetra Mein Shahatut Ke Rog Ebong Niyantaran. *Resham Darshan.* **2(3)**: 15-16.
6. Maji, M. D. and Maji, C. (2014). Impact of brown leaf rust on bivoltine seed cocoon production in Kalimpong hills. *News & Views,* **7&8**: 3.
7. Nirmal Kumar S. Resham keet (*Bombyx mori* L.) palan mei kosha upaj badhain hetu shareerik pariprekshya kee bhumika.. *Resham Darshan.* **2(3)**: 3 - 6.
8. Rahman, M. S., Mandal, S. K., Ghosh, M. K. and Bindroo B. B.(2013). West Bengal: Spacing in mulberry plantation and its impact. **4 (8-9)**: 10-11.
9. Rahaman, M. S., Mondal, S. K. and Nirmal Kumar S.(2013). Sahatoot prakshetra mei keetnashak ke roop mei gomutra ek anokha jaiba rasayan: ek sujhav. *Resham Darshan.* **2(3)**: 8 -10.
10. Roychowdhuri, S. and Nirmal Kumar S. (2014). Sahatoot Resham Krishi Vistar: Vikash hetu Anusandhanatwak va Vikasatwak Hastakshep. Sovenior: *Interaction on transfer of technology in mulberry Sericulture Production.*, pp.15-19.
11. Saha, A. K. and Nirmal Kumar S. (2014). *Bombyx mori* L. Chawki abang Uttarabastha Keetpalan Proudhyogiki tatha Rog Prabandhan. Sovenior: *Interaction on transfer of technology in mulberry Sericulture Production.* pp.20-29.
12. Singh, G. S. and Bindroo, B. B. (2013). Visankramak/pesticide ka ghol banate aaur prayog karte samay savdhaniya. *Resham Darshan.* **2(3)**: 7 -8.
13. Singh, G. B., Biswas, T. K. and Nirmal Kumar S. (2013).Sahatoot kee kheti mei mrida parikshan ka mahatv ebang parikshan kee bidhi. *Resham Darshan.* **2(3)**: 17 - 19.
14. Suresh Kumar, N., Saha, A. K., Bindroo, B. B. and Nirmal Kumar S. (2014).Prospects and promotion of bivoltine sericulture in Eastern and North-eastern India. *Indian Silk.* **5 (2-4)**: 12.



### III. NEWS/ REPORTS/SILK BRIEFS:

1. Babu, C.S., Kumar, R., Sharma, S. P., Alam , M., Singh G. S., Roychowdhuri, S. and Nirmal Kumar, S.(2014). Resham Kisan Mela was organized by RSRS, Ranchi. *Indian Silk*, **4 (10-11)**: 30.
2. Babu, C.S. (2014). An Awareness Programme was organized by RSRS, Ranchi at village Biyang in Ramgarh district. *Indian Silk*. **4 (10-11)**: 36.
3. Biswas, T. K., Debraj, Y., Gogoi, S. N., Sankar, M. and Pamehgam M. (2014). Resham Krishi Mela was organized by RSRS, Jorhat. *Indian Silk*. **4 (10-11)**: 31-32.
4. Chatterjee, S., Bhutia, R., Bandyopadhyay, U. K., Maji, C. and Sherpa, P. W. (2014). An Awareness Programme with audio-visual show was organized by RSRS, Kalimpong at Primtam village. *Indian Silk*. **4 (10-11)** : 38.
5. Chatterjee, S., Maji, C. and Lepcha S. (2014). A Field Day was organized by RSRS, Kalimpong at Mirjungla, Nepania, Naxalbari. *Indian Silk*. **4 (10-11)** : 39.
6. Das, D., Mukhopadhyay, S. K. Saha, A. K. and Nirmal Kumar, S. (2014). Awareness-cum-audio-visual Programme at Kalyanpur village, Birbhum District, W.B. *Indian Silk*. **4(8-9)**: 38.
7. Das, D., Mukhopadhyay, S. K., Saha, A. K. and Nirmal Kumar, S. (2013). A pavilion was set up in the Silk Mark Expo-2013 in Kolkata. *Indian Silk*. **4 (8-9)**: 49.
8. Das, D., Santha Kumar, M. V., Mukhopadhyay S. K., Saha, A. K. and Nirmal Kumar, S. (2014). An Awareness Programme was organized by CSR&TI, Berhampore at village Poradanga. *Indian Silk*. **4 (10-11)** : 37.
9. Das Mohapatra, D. P. and Purohit, K. M. (2014). Farmers' training programme at Sarakola village, Keonjhar district, Odisha. *Indian Silk*. **4 (8-9)**: 46.
10. Dutta, A. K., Sarkar, J. and Majumder, A.(2014). Awareness Programme at Bahadurpur village, Malda District, W.B. *Indian Silk*. **4(8-9)**: 38.
11. Dutta, A. K., J. Sarkar and Majumder, A. (2014). Field day at Mosimpur village, Malda district, W. B. *Indian Silk*. **4 (8-9)**: 41.
12. Maji, C., Maji, M. D., Chatterjee, S., Bandyopadhyay, U.K., Ram, R. L., and Lepcha, S.T. (2014). Resham Krishi Mela, 2013 at North Bengal University, Siliguri on 24.01.2014. *Indian Silk*, **4(10-11)**:30-31.
13. Misro, S.K. (2014). A Farmer's training programme of Rayagada. *Indian Silk*. **4 (10-11)**: 42.
14. Pandit, D., Singh, M. D. and Nirmal Kumar, S. (2014). Field day-cum exhibition at Devinagar, Pakuria, Maheshpur Raj. *Indian Silk*, **4 (8-9)**: 40.
15. Pandit, D., Singh, M. D. and Nirmal Kumar, S. (2014). Group discussion at Kartikparat and Narayangar village, Pakur district, Jharkhand. *Indian Silk*. **4 (8-9)**: 44.
16. Pandit, D., Singh, M. D. and Nirmal Kumar, S. (2014). A technology demonstration programme at Amritpur, Pakur, Jharkhand. *Indian Silk*. **4 (8-9)**: 51.



17. Pandit, D., Singh, M.D. and Nirmal Kumar, S. (2014). A Farmer's training programme at Amritpur village. *Indian Silk*. **4 (10-11)**: 42.
18. Purohit, K. M. and Das Mohapatra, D. P. (2014). Awareness Programme at Mituani village, Mayurbhanj District, Odisha. *Indian Silk*. **4 (8-9)**: 39.
19. Purohit, K. M. and Das Mohapatra, D. P. (2014). Field day at Dolongpani village, Keonjhar district, Odisha. *Indian Silk*. **4 (8-9)**: 40-41.
20. Purohit, K. M. and Das Mohapatra, D. P. (2014). Group discussion at Gopapur village, Keonjhar district, Odisha. *Indian Silk*. **4 (8-9)**: 45.
21. Purohit, K. M. and Das Mohapatra, D. P. (2014). A technology demonstration programme at Dolangpani, Ghantagaon, Keonjhar district, Odisha. *Indian Silk*. **4 (8-9)**: 51.
22. Rahman, M. S., Saha, A. K. and Nirmal Kumar, S. (2014). A pavilion was set up in the 25<sup>th</sup> Krishi Shilpa O' Baniyja Mela, 2013 at Chandipur, Purba Midnapur, W. B. *Indian Silk*. **4 (8-9)**: 49.
23. Rao, N. R. and Misro S. K. (2014). Group discussion at Bayaput village, Koraput district, Odisha. *Indian Silk*. **4 (8-9)**: 43.
24. Rao, N.R. (2014). A Field, exhibition and audio - visual prog. at Bhagamunda village. Kashipur, Rayagada. *Indian Silk*. **4 (10-11)**: 39.
25. Sahu, R. (2014). Awareness Programme at Katali village under Kashipur, Rayagada district, Odisha. *Indian Silk*. **4 (8-9)**: 39.
26. Sahu, R. (2014). A technology demonstration programme at Kashipur village, Rayagada district, Odisha. *Indian Silk*. **4 (8-9)** : 51.
27. Sankar, M., Pahmegam, M. and Biswas, T. K. (2014). Field day-cum exhibition at Senchua village, Golaghat district, Assam. *Indian Silk*. **4 (8-9)** : 4.
28. Sankar, M., Debaraj, Y. and Biswas, T. K. (2014). Farmers' training programme at RSRS, Jorhat. *Indian Silk*. **4 (8-9)**: 47-48.
29. Sankar, M., Debraj, Y. and Biswas T.K. (2014). A three days farmer's field school training programme at Senchua village, Golaghat. *Indian Silk*. **4 (10-11)** : 43.
30. Singh, G. S. and Babu, Ch. S. (2014). Field day-cum group discussion at Ita village, Lohardaga district, Jharkhand. *Indian Silk*. **4 (8-9)**: 42.
31. Pandit, D., Singh, M.D. and Nirmal Kumar, S. (2014). An Awareness Programme was organized by REC, M. P. Raj at village Balidih, Pakuria, Jharkhand. *Indian Silk*. **5 (2-4)**: 39.
32. Sahu, R. and Patnaik, T.S.J. (2014). An Awareness Programme was organized by RSRS, Koraput at Nuaguda village under Lamtaput block. *Indian Silk*. **5 (2-4)**: 39.
33. Pandit, D., Singh, M.D. and Nirmal Kumar, S. (2014). A Field Day was organized by REC, M. P. Raj at Amritpur, Pakur, Jharkhand. *Indian Silk*. **5 (2-4)**. 41.
34. Pandit, D., Singh, M.D. and Nirmal Kumar, S. (2014). A Field Day was organized by REC, M. P. Raj at Kartikpara, Pakur, Jharkhand. *Indian Silk*. **5 (2-4)**: 41.
35. Pandit, D., Singh, M.D. and Nirmal Kumar, S. (2014). A group discussion prog. was organized by REC, M. P. Raj at Balidih village. Pakuria, Jharkhand. *Indian Silk*. **5 (2-4)**: 41.



36. Pandit, D., Singh, M.D. and Nirmal Kumar, S. (2014). A group discussion prog. was organized by REC, M. P. Raj at Amritpur, Pakur, Jharkhand. *Indian Silk*. **5 (2-4)**: 41.
37. Dutta, A.K. (2014) An Awareness Programme was organized by REC, Mothabari, Malda at Kaliachak.. *Indian Silk*. **5 (2-4)**: 39.
38. Sahu, R. and Patnaik, T.S.J. (2014). An Awareness Programme was organized by RSRS, Koraput at Bayaput. *Indian Silk*. **5 (2-4)**: 39.

#### IV. BOOK/ BOOK CHAPTERS / BOOKLET:

1. Chakrabarty, S. (2014). Pebrine Disease of Silkmooths in Assam. Book, Publisher LAP LAMBERT Academic Publishing [ISBN: 978-3-359-56571-7], D-66121, Saarbrücken, Deutschland, Germany [2014.Email.info@lap-publishing.com](mailto:2014.Email.info@lap-publishing.com).
2. C, Sudhakar Babu (2014). Smarika: Shahatooti Resham Utpadan mein Prouddhoki Hastantaran Par Antarsanwad, 27<sup>th</sup> June 2014 - Published by, RSRS, Ranchi.
3. Chanda, S., Mukhopadhyay, S. K., Hossain, Z. and Jalaja S. Kumar (2014). *Tut chaas o palu palaner nirdeshika*. Booklet (in Bengali) Published by Director, CSRTI, Berhampore, pp. 1-19.
4. Ghosh, M.K. and Nirmal Kumar, S. (2014). SAHATOOT KRISHI. Sahatooti Resam utpadan me Prodhogiki hastantaran par antasambad. pp.1-14.
5. Panda, S.K., Singh, G.B. and Chakma Tushar Kanti. (2014). Mulberry Sericulture Empowering the Tribal women. Book Published, edited by Dr S. K. Panda.
6. Rajaram, S. (2014). Drip irrigation in mulberry, ISDS Course Book. Published by S. Nirmal Kumar, Director, CSR&TI, Berhampore Sept., 2014
7. Ram, R. L. and Sharma, P. K. Soils of Prakasam district, Andhra Pradesh: *Characteristics and Mineralogy for sustainable land use planning*. Publisher: LAP LAMBERT Academic, Germany. pp.1-141.
8. Saha A.K., Dutta Biswas, T., Santakumar, M.V., Chakrabarty, S. and Nirmal Kumar, S. (2014). '*Japani (Bivoltine) Palupalaner Sahahika*'. Booklet No. 4. (in Bengali).
9. Aingh, G.B., Nirmal Kumar, S. and Gangopadhyay, S. (2014). *Mulberry Silk (Bombyx mori)*. Booklet. Published by REC, Agartala, Tripura
10. Singh, G B , Nirmal Kumar, S. and Gangopadhyay, S. (2014). Tips for successful bivoltine rearing. Booklet
11. Singh, G.B. Nirmal Kumar, S and Gangopadhyay, S. (2014). Diseases of mulberry and their control. Booklet
12. Singh, G.B. Nirmal Kumar, S and Gangopadhyay, S. (2014). Incubation and black boxing of silkworm eggs. Booklet
13. Singh, G.B. Nirmal Kumar, S and Gangopadhyay, S. (2014). Disinfection and maintenance of hygiene during silkworm rearing. Booklet
14. Singh, G.B. Nirmal Kumar, S and Gangopadhyay, S. (2014). Pests of mulberry and their control. Booklet



15. Singh, G.B. Nirmal Kumar, S and Gangopadhyay, S. (2014). Preparation of mulberry cuttings and nursery. Booklet
16. Singh, G.B. Nirmal Kumar and Gangopadhyay, S. (2014). Procedure of late age silkworm rearing. Booklet.
17. Singh, G.B. and Bhowmik, S. P. (2014). Seri farmer's directory of Tripura. Booklet.
18. Suresh Kumar, N., Singh, Harjeet and Saha, A.K. (2015). Text book on silkworm rearing technology. *Dominant Publishers & Distributors, New Delhi*. p.175.

#### V. COMPENDIUM OF TECHNOLOGIES:

1. Directory of Concluded projects ( A document on concluded research projects of CSR&TI, Berhampore, West Bengal and its nested units), Vol-II, 2010-2014.
2. Sericulture Technologies – Xi and XII Plan (up to 2014) (A document of Technology development of CSR&TI, Berhampore. WB).

#### VI. BROCHURS/ PAMPHLETS/BULLETS/ CALENDERS:

##### A. BROCHURS :

1. Bandhopadhyay U.K., Santhakumar, M.V., Maji C., Bindroo, B.B. and Nirmal Kumar, S. (2015). Technology write up – Incidence and management of Leaf webber, *Glyphodes pyloalis* Walker, *Brochure No.12*. Published in Feb. 2015.
2. Rajaram, S., Nirmal Kumar, S. and Roy Chowdhuri, S. (2014). Cost- effective Drum –kit Drip Irrigation System [CoD<sup>2</sup> IS] a technology to overcome water problem in mulberry cultivation- boon to marginal & small farmers, *Brochure No. 14*, Published in Aug. 2014.
3. Santha Kumar, M.V., Mukhopadhyay. S. K., Lalitha, N., Saha, A. K., Bindroo, B. B. and Nirmal Kumar, S. (2015). Technology write up –The management of Major Mulberry Pests by Application of Botanical Pesticides, *Brochure No.9*.

##### B. PAMPHLETS :

1. Bhutia, R., Maji, M. D., Maji, C and Nirmal Kumar, S. (2014). Shoot rearing practices for late age silkworms” *Pamphlet No. 5* (English).
2. Bhutia, R., Maji, M. D., Maji, C and Nirmal Kumar, S. (2014). Pachhilo abasthako reshama kirala, kalilo hangesangh kira palan garne padhhati. *Pamphlet No. 5* (Nepali).
3. Dutta, S. K., Ghosh, M. K., Mukherjee, S.K. and Nirmal Kumar, S. (2015). *Toot gacher mooler rog o tar pratikarer upay*”.
4. Ghosh, M. K., Kar, R., Dutta, Mukhopadhyay, S. K., Rajaram, S. K. and Nirmal Kumar, S. (2015). For higher leaf yield S1635 mulberry variety. *Pamphlet No.20*.



5. Lalitha, N., Santha Kumar, M.V., Das, D., Mukhopadhyay, S.K., Saha, A.K. and Nirmal Kumar, S. (2015). Tukra Management in Mulberry (in English). *Pamphlet no.17*.
6. Lalitha, N., Santha Kumar, M.V., Das, D., Mukhopadhyay, S.K., Saha A.K. and Nirmal Kumar, S. (2015). Tukra Management in Mulberry 'Tuth Gache Tukra Niantaran' (in Bangla). *Pamphlet no.18*.
7. Maji, M. D., Maji, C and Nirmal Kumar, S. (2014). Purbi Bharatkpo Pahari Khetraka Lagi Muga Khadya-briksho kheti ani kira palan paddhatika packageharu. *Pamphlet No. 4* (Nepali).
8. Maji, M. D., Maji, C and Nirmal Kumar, S. (2014). Package of practices of Muga food plant cultivation and rearing technology for sub-tropical hills of Eastern India. *Pamphlet No. 4* (English).
9. Pandit, D., Santhakumar, M.V., Mukhopadhyay, S.K., Das, D. (2015). Shahatut podho may honevale mukhya rog ebang keet ki purva sansuchana ebang nidan tatha sabdhan vivarhan (in Hindi). *Pamphlet no 19*.
10. Rajaram S., Nirmal kumar, S. and Roy Chowdhuri, S. (2014). Co<sup>D2</sup>IS [Cost-effective Drum-kit Drip Irrigation System] a technology to overcome water problem in mulberry cultivation - a boon to marginal and small farmers. *Pamphlet No 14*.
11. Rajaram, S., Nirmal kumar, S. and Roy Chowdhuri, S. (2014). E<sup>3</sup> WM © SH / PM [Efficient economic eco-friendly Weed Mower © Shoot Harvest / Pruning Machine] to overcome labour problem & cost escalation in mulberry cultivation. *Pamphlet No. 1*.
12. Ram, R.L. Chatterjee, S., Maji, C. and Nirmal Kumar, S. (2014). Reclamation of acid soils of Kalimpong hills for mulberry farming. *Pamphlet No. 3*.
13. राम, आर.एल., चटर्जी, एस., माजि, सप एवं निर्मल कुमार, एस. (2014) कलिम्पोंग के पर्वताय क्षेत्रों में शहतूत की खेतपहेतु अम्लीय भूमि का सुधार। पम्पलेट सं० 3.
14. Ram R. L., Chatterjee, S., Maji, C. and Nirmal Kumar, S. (2014). Kalimpong ke Parbatiya Khetra Mein Sahatut Ke Kheti Hetu Amliya Bhumi Ke Sudhar (in Hindi).
15. Saha, A. K., Suresh Kumar, N., Chattopadhyay, G.K. and Verma , A.K. and Nirmal Kumar, S.(2014). New Promising Multivoltine x Bivoltine Hybrid Nistarix (SK6 x SK7). *Pamphlet No. 14*.
16. Saha,A.K., Suresh Kumar, N., Chattopadhyay, G.K. and Verma, A.K. and Nirmal Kumar, S. (2014). New Promising Multivoltine x Bivoltine Hybrid M.Con.1x M.Con.4. *Pamphlet No. 15*.

### C. BULLETINS :

1. News & Views. June,2014 (English & Hindi)





**D. MANUALS :**

1. Hossain, Z., Chanda, S., Jalaja S. Kumar, Chakravarty, D. and Nirmal Kumar, S. (2015). Training Manual on Silkworm Diseases & Pests, Published by Director, CSR&TI, Berhampore. 1-32.
2. Maji, M. D., Maji, C and Nirmal Kumar, S. (2014). *Sericulture Manual for Sub-tropical hills of Eastern India*. (December, 2014). Published by RSRS, Kalimpong.
3. Manna, S. S. and Nirmal Kumar, S. (2014). A Manual on: Cocoon Handicrafts (Hindi) - Published by, Director, CSR&TI, Berhampore.

**E. LEAFLETS :**

1. Santha Kumar, M.V., Mukhopadhyay, S.K., Lalitha, N., Das, D. and Saha, A.K. (2014). Take steps for whitefly management and save silkworm crops. *Leaflet No. 1*. (in English).
2. Santha Kumar, M.V., Mukhopadhyay, S.K., Lalitha, N., Das, D., Saha, A.K and Nirmal Kumar, S. (2014). Sada Machir Akraman Pratikar Karun & Resham Chash Bachan, *Leaflet No.1*. (in Bengali).
3. Saha, A.K., Suresh Kumar, N., Chattopadhyay, G.K. and Verma, A.K. (2015). New promising multivoltine x multivoltine hybrid Nistari x M.Con.4. *Leaflet No.18*.
4. Saha, A.K., Suresh Kumar, N., Chattopadhyay, G.K. and Verma, A.K. (2015). New promising multivoltine x multivoltine hybrid M.Con.1 x M.Con.4. *Leaflet No.15*.
5. Saha, A.K., Suresh Kumar, N., Chattopadhyay, G.K. and Verma, A.K. (2014). New promising multivoltine x bivoltine hybrid M.Con.1 x B.Con.4. *Leaflet No.14*.
6. Saha, A.K., Suresh Kumar, N., Chattopadhyay, G.K. and Verma, A.K. (2015). New promising multivoltine x bivoltine hybrid M.Con.4 x B.Con.4. *Leaflet No.16*.
7. Saha, A.K., Suresh Kumar, N., Chattopadhyay, G.K. and Verma, A.K. (2014). New promising multivoltine x bivoltine hybrid Nistari x (SK6 x SK7). *Leaflet No.13*.
8. Saha, A.K., Suresh Kumar, N., Chattopadhyay, G.K. and Verma, A.K. (2015). New promising multivoltine x bivoltine hybrid M6DPC x SK4C. *Leaflet No.17*.
9. Saha, A.K., Suresh Kumar, N., Chattopadhyay, G.K. and Verma, A.K. (2015). New promising bivoltine foundation cross SK6 x SK7. *Leaflet No.19*.

