

BIODATA

1. Name, Desig. and full correspondences address : **Dr. Satadal Chakrabarty, Scientist-D**
CSR&TI, Berhampore (W.B.)
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3. Institution : CSR&TI, Berhampore (W.B.)
4. Date of Birth : 09.12.1964
5. Gender (M/F/T) : Male
6. Category (Gen/SC/ST/OBC) : **Gen**
7. Whether differently able (Yes/No) : No.
8. Academic Qualification (Post Graduate onwards)

#	Degree	Year	Subject	University/ Institution	% of Marks
1.	M.Sc Zoology	1994	Zoology , Specialization in Parasitology & Nematology	Visva Bharati University, Santineketan, W.B.	1 st Class (61.9 %)

9. Ph.D thesis title, Guide's Name, Institution/Organization/University, Year of Award.

Title	Guide Name	University	Year of award
<i>'Studies on pebrine disease of silkmooths in Assam'</i> .	Prof. B.Manna	The University of Calcutta, Kolkata	2006

10. Work experience (in Chronological order): 33 years

#	Position held	Name of the Institute	From	To	Pay Scale (VI I CPC)
1.	Scientist-D	a) Farm Management and Rearing & Seed Technology Lab., CSR&TI, Berhampore	05.07.2021	Continue	78800-209200
		b) REC, CSR&TI, Mothabari, Malda	01.07.2018	01.07.2021	
2.	Scientist-C	a) REC, CSR&TI, Mothabari, Malda	01.06.2017	30.06.2018	67700-208700
		b) P2,BSF, MSSO, Hahim, Assam	02.07.2016	31.05.2017	
		c) Silkworm Pathology Laboratory, CSR&TI, Berhampore	26.02.2014	01.07.2016	
3.	Scientist-B	Silkworm Pathology Laboratory, CSR&TI, Berhampore	26.12.2008	25.02.2014	56100-177500

4.	Assistant (Technical)	Silkworm Pathology Laboratory, CSR&TI, Berhampore	16.08.2006	25.12.2008	1400-2300
		ZSSO, CSB, Malda	01.03.1999	15.08.2006	
		MRMB, Sibsagar, Assam	16.08.1994	28.02.1999	
5.	Field Cum Lab Assistant	Silkworm Breeding & Genetics Lab and Silkworm Pathology Laboratory, CSR&TI, Berhampore	01.08.1988	15.08.1994	975-1040

11. Professional Recognition/Award/Prize/Certificate, Fellowship received by the applicant.

#	Name of Award/Certificate	Awarding Agency	Year
1.	Recipient of Memento for best-presented paper at, '3 rd Global meet on parasitic disease' held during January 12-16, 2004.	The Bangalore University, Bangalore.	2004
2.	Appreciation Certificate: Best Bivoltine Cluster Promotion Programme at Malda for 2019-20.	Dr. V. Shivaprasad, Director, CSR&TI, Berhampore	2020

12. Detail of Patents:

#	Patent Title	Name of Applicant(s)	Patent No.	Award Date	Agency/ Country	Status
1.	SERICILLIN : A SYNERGISTIC COMPOSITION FOR DISINFECTING SILKWORM BODY AND SILKWORM BED	Director, CSR& TI, Berhampore (W.B)	342953 [Appl. No. 650/KOL/2012] Date 11.08.2012	31.07.20	India	GRANTED (Enclosed)
2.	G HAR SODHON: A NOVEL SLOW VOLATILE BROAD SPECTRUM USER FRIENDLY COMPOSITION FOR DISINFECTING REARING HOUSE, REARING APPLIANCES AND REARING ENVIRONMENT	Director, CSR&TI, Berhampore (W.B)	Application No. 201631005955 Dated: 20.02.2016	FILED 20.02.16	India	U/P



**INTELLECTUAL
PROPERTY INDIA**
PATENTS | DESIGNS | TRADE MARKS
(GEOGRAPHICAL INDICATIONS)



भारत सरकार
GOVERNMENT OF INDIA
पेटेंट कार्यालय
THE PATENT OFFICE
पेटेंट प्रमाणपत्र
PATENT CERTIFICATE
(Rule 74 Of The Patents Rules)

क्रमांक : 033112060
SL No :



पेटेंट सं. / Patent No.	:	342953
आवेदन सं. / Application No.	:	650/KOL/2012
फाइल करने की तारीख / Date of Filing	:	11/08/2012
पेटेंटी / Patentee	:	CENTRAL SERICULTURAL RESEARCH & TRAINING INSTITUTE

प्रमाणित किया जाता है कि पेटेंटी को उपरोक्त आवेदन में यथाप्रकटित A SYNERGISTIC COMPOSITION FOR DISINFECTING SILKWORM BODY AND SILKWORM BED नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आन तारीख 11th day of June 2012 से बीस वर्ष की अवधि के लिए पेटेंट अनुदत्त किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled A SYNERGISTIC COMPOSITION FOR DISINFECTING SILKWORM BODY AND SILKWORM BED as disclosed in the above mentioned application for the term of 20 years from the 11th day of June 2012 in accordance with the provisions of the Patents Act,1970.



अनुदान की तारीख : 31/07/2020
Date of Grant :

OKSinha
पेटेंट नियंत्रक
Controller of Patent

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, 11th day of June 2014को और उसके पचास प्रत्येक वर्ष में उसी दिन देय होगी।
Note - The fees for renewal of this patent, if it is to be maintained will fall / has fallen due on 11th day of June 2014 and on the same day in every year thereafter.

(12) PATENT APPLICATION PUBLICATION (21) Application No.201631005955 A
 (19) INDIA
 (22) Date of filing of Application :20/02/2016 (43) Publication Date : 01/12/2017

(54) Title of the invention : A NOVEL SLOW VOLATILE, BROAD SPECTRUM, USER FRIENDLY COMPOSITION FOR DISINFECTING REARING HOUSE, REARING APPLIANCES AND REARING ENVIRONMENT

(51) International classification	:A61L2/08	(71)Name of Applicant :
(31) Priority Document No	:NA	1)CENTRAL SILK BOARD, (represented by the Director of Central Sericultural Research and Training Institute)
(32) Priority Date	:NA	Address of Applicant :having a place of business at Central
(33) Name of priority country	:NA	Silk Board, CSB Complex, B.T.M. Layout, Madivala, Bangalore –
(86) International Application No	:NA	560 068, State of Karnataka, and also having a research unit at
Filing Date	:NA	P.O. – Berhampore, Dist – Murshidabad, State- West Bengal PIN-
(87) International Publication No	: NA	742101, India
(61) Patent of Addition to Application Number	:NA	(72)Name of Inventor :
Filing Date	:NA	1)CHAKRABARTY, Satadal
(62) Divisional to Application Number	:NA	2)SAHA, Atul, Kumar
Filing Date	:NA	

(57) Abstract :

The present disclosure relates to a composition for disinfecting silkworm rearing house, rearing appliances and rearing environment, said composition comprising; a) 1, 3, Dibromo 5, 5, Dimethyl Hydantoin in an amount ranging between 85.0% and 95.0% with respect to the total mass of the composition and 1,4, Dichlorobenzene in an amount ranging between 5.0% and 15.0% with respect to the total mass of the composition, The present disclosure also relates to a method of applying said composition for disinfecting silkworm rearing house, rearing appliances and rearing environment.

No. of Pages : 31 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.650/KOL/2012 A

(19) INDIA

(22) Date of Filing of Application : 11/06/2012

(23) Publication Date : 13/12/2013

(54) Title of the invention : A SYNERGISTIC COMPOSITION FOR DISINFECTING SILKWORM BODY AND SILKWORM BED

(51) International Classification

A01N

(51) Priority Document No

NA

(52) Priority Date

NA

(53) Name of priority country

NA

(86) International Application No

NA

Filing Date

NA

(87) International Publication No

NA

(61) Patent of Addition to Application Number

NA

Filing Date

NA

(62) Divisional Application Number

NA

Filing Date

NA

(71) Name of Applicant :

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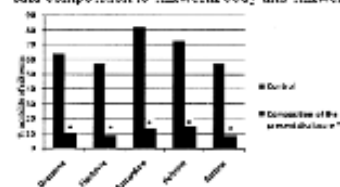
7) HOSSAIN ZAKIR

8) SALLA ATUL KUMAR

9) BINDRO BHARAT BHUSHAN

(57) Abstract :

The present disclosure relates to a composition for disinfecting silkworm body and silkworm bed, said composition comprising; a) lime in an amount ranging between 95.0 % and 97.0 % with respect to the total mass of the composition, b) bleaching powder in an amount ranging between 2.0 % and 6.0 % with respect to the total mass of the composition, and c) chlorothaloxol in an amount ranging between 0.5 % and 5.0 % with respect to the total mass of the composition. The present disclosure also relates to a method of applying said composition to silkworm body and silkworm bed.



No. of Pages : 27 No. of Claims : 6

13. Detail of Commercialization:

#	Name of the Product	Name of the Agency	Year of commercialization	Revenue Generation (Rs in lakh)	Remarks
1.	LABEX- A BED DISINFECTANT	1. M/S NABAGRAM CO-OPERATIVE SOCIETY, NABAGRA, MURSHIDABAD, W.B. 2. M/S DARIAPUR RURAL DEVELOPMENET SOCIETY, MALDA, W.B.	2014	1.00	
2.	SERICILLIN : A BED DISINFECTANT	DO	2014	1.00	
3.	GHAR SODHON: A ROOM DISINFECTANT	DO	2016	5.00	

14. Books/Reports/Chapters/General Articles etc.

#	Title	Author's Name	Publisher	Year of Publication
1.	BOOK: Pebrine Disease of Silkmooths in Assam.	Satadal Chakrabarty .	LAP LAMBART Academic Publishing [ISBN: 978-3-359-56571-7], D-66121, Saarbrücken, Deutschland, Germany 2014. <i>Email.info@lap-publishing.com</i>	2014

15. Publication(List of papers published in SCI Journals, in year wise descending order)

International	National/ Popular Article	Hand Book Leaflet/ Brochure / News & Views	Book Chapter	Abstract	Total
09	24	12	6	17	68

I. INTERNATIONAL

- 1) **S.Chakrabarty**, B. Manna, A. K. Saha, B.B.Bindroo and K.Trivedy (2016). Pebrine disease (*Nosema bombycis* N.) in *Bombyx mori*: the research trends, *Sericologia* **56(1):1-17**.ISSN:0250-3980.
- 2) **S.Chakrabarty** (2014). Pebrine Disease of Silkmoths 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:info@lap-publishing.com)
- 3) **S.Chakrabarty**, A.K.Saha, B.Manna and Bharat Bhushan Bindroo (2013). Gender influenced dimorphism in *Nosema bombycis* Nageli, causing pebrine disease in silkworm, *Bombyx mori* L. *Walilak Journal of Science & Technology, Thailand* (Ref: 303 -1065 -1-SP.DOC 2012-03-09) (ISSN: 1686-3933). (Impact factor 0.086) Online ISSN: 2228-835X <http://wjst.wu.ac.th>. **10(2):103-111**.
- 4) **S.Chakrabarty**, A.K. Saha, B.Manna and S.Nirmal Kumar (2013). Secondary contamination is the main source for spread of *Nosema bombycis* resulting in outbreak of pebrine diseases in *Bombyx mori* L. *International Journal of Industrial Entomology* ISSN 1598 - 3579, [http:// dx.doi.org /10.7852/ijie.2013.27.2.282](http://dx.doi.org/10.7852/ijie.2013.27.2.282) **27(2): 282-288**.
- 5) **S.Chakrabarty**, B.Manna, Saha, A.K., and B.B.Bindroo (2012). Comparative study on effect of different types of *Nosema* sp. (Microsporidia: Nosematidae) on mulberry and vanya silkworms. *Journal of Biological Sciences*, **12(1):1-14**, 2012. ISSN 1727-3048 / DOI: 10.3923/ jbs.2011©2011. Asian Network for Scientific Information.
- 6) **S.Chakrabarty** and Buddhadeb Manna (2008). Influence of temperature and relative humidity in infection of *Nosema bombycis* (Microsporidia: Nosematidae) and cross-infection of *N. mylitta* on growth and development of mulberry silkworm, *Bombyx mori*. *International Journal of Industrial Entomology, Korea*, **17(2): 173-180**.
- 7) **S.Chakrabarty** and Buddhadeb Manna (2008) Effect of microsporidian infection on reproductive potentiality on mulberry silkworm, *Bombyx mori* L. (Lepidoptera: Bombycidae) in different seasons, *International Journal of Industrial Entomology, Korea*, **17 (1): 157-163**.
- 8) Z. Hossain, **S.Chakrabarty**, S.K.Gupta, A.K.Saha and B.B.Bindroo (2017). Silkworm Disease Incidence Trends during the year 1992-2011 in the Murshidabad district of West Bengal, India. *International Journal of Tropical Insect Science*. Online publication DOI.10.1017/S1742758417000182 p 259-270 (Abstract). Vol 37(04):1-12.
- 9) Z.Hossain, S.K.Gupta, **S.Chakrabarty**, A.K.Saha and B.B.Bindroo (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.

II. NATIONAL JOURNAL/ POPULAR ARTICLE

- 10) **S.Chakrabarty**, B. Manna and A. K. Saha (2021). *Nosema assamensis*: A pathogen causing pebrine disease of muga silkworm and recent strategy adopted for sustainable development of muga culture in North Eastern India. *J.Exp. Zool. India* **24**, 7-13. Doc ID: [https:// connectjournals.com/03895.2021.24.7](https://connectjournals.com/03895.2021.24.7) (NAAS rating:2.656).
- 11) Saha, A.K., **Chakarbart**y, S., and Das,D.(2020). Success Story: Sericulture is my passion **Indian Silk**, 11(4): 20 – 22.
- 12) A.K.Saha, T.Dutta Biswas, **S.Chakrabarty**, D.Das, S.Das and S. nirmal Kumar (2020). Open Rearing Method- New Boulevard for sustainable sericulture in West Bengal. *Indian Silk Vol. 11(59 old) No.3, Sep-Oct, 2020 p: 6-9*.
- 13) **S.Chakrabarty** and A. K. Saha (2019). 16s rRNA gene sequence of *Staphylococcus vitulinus* sub sp. *bombycis*, isolated from a ‘flacherie’ infected silkworm, *Bombyx mori* L. *J.Environmental. and Sociobiol*,**16(1)**,1-10. ISSN:0973-0834.
- 14) **S.Chakrabarty**, A. K. Saha and K.Trivedy (2018). Ghar Sodhon: A novel disinfectant for rearing house and appliances. *Vol. 9(57old) No.1-2, May-June,2018 p: 14-16*
- 15) **S.Chakrabarty** and A.K.Saha (2017). A new method for detection of pebrine spore in silkworm seed production, *Indian Silk Vol. 8(56 old) No.3 - 4, July-Aug, 2017 p: 24-25*.
- 16) **S. Chakrabarty**, R.Choudhury, N.Bhyan and B.Choudhury (2017). Disinfection and its importance in muga grainage. In Souvenir: workshop on quality muga, eri seed production and management’ at Kaliabari, Boko, Assam, Mar 21, 2017, p; 23-27.
- 17) **S.Chakrabarty** (2015). Hindi article title: *Bivinna reshomkit rog abam rodhatmak upai* (different types of silkworm diseases and its preventive measures) published in ‘**Souvenir**’ for one day seminar on *Rajbhasa hindi me moulik lekhan-ek antar-sambad* held on May 22, 2015 at CSR&TI, Berhampore – p 22-23
- 18) **S.Chakrabarty**, B.B.Bindroo, B.Saratchandra, and A.K.Saha (2013). Sericillin - a synergistic composition for disinfecting silkworm body and silkworm bed. *Indian Silk*: May - June, 2013. **Vol. 4 (1-2):12-14**.
- 19) **S.Chakrabarty** (2013). Sericillin: Issues that call for some justification vs Sericillin: Certainly effective (Letters to the Editor). *Indian Silk*: July, 2013. **Vol. 4 (3):2**.
- 20) **S.Chakrabarty**, A.K.Saha, B.B.Bindroo, B.Manna and S.Nirmal Kumar (2013). An improved method for detection of pebrine (*Nosema bombycis* N.) in silkworm (*Bombyx mori*). *Applied Biological Research*. ISSN: 0972-0979 [NAAS rating 4.35] Online ISSN: 0974 – 4517. **15(2):91-96**.
- 21) **S.Chakrabarty**, A.K.Saha, B.Manna and B.B.Bindroo (2012).Pebrine disease in eri silkworm: A microscopic view. *Indian Silk*: Vol.2 (50 old): No.12 , April.2012.
- 22) **S.Chakrabarty**, S.Deb, A.K.Saha, N. Hazra, B.Manna and B.B Bindroo (2013). Morphometrical, electron micrographical and innate protein profile study due to Nuclear Polyhedrosis Virus infection in *Bombyx mori* L. *Journal of Plant protection and Environment* (ISSN:0973-1717)**10(1):39-47**
- 23) **S.Chakrabarty**, Suman Deb, A.K.Saha, N. Hazra , B.Manna and B.B Bindroo (2012).Dimorphism in Nuclear polyhedrosis virus(BmNPV)(Family:Baculoviridae) causing ‘Grasserie’ disease in silkworm, *Bombyx mori* L.,: light ,electron microscopy and protein profile. *Applied Biological Research* **14(2): 176-186**. ISSN: 0972-0979. [NAAS rating 4.35] Online ISSN: 0974 – 4517.
- 24) **S.Chakrabarty**, 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. *Applied Biological Research* **14(1): 1-14**. ISSN: 0972-0979. [NAAS rating 4.35] Online ISSN: 0974 - 4517.

- 25) **S.Chakrabarty** and Buddhadeb Manna (2009). Cross-infection of Microsporidian spores of non-mulberry silkworms to mulberry silkworm, *Bombyx mori* L. and its impact on economic parameters, *Indian Journal of Sericulture*, **48(2)**:162-168.
- 26) **S.Chakrabarty** and Buddhadeb Manna (2009). Studies on ultra structure and life cycle of *Nosema assamensis* (Protozoa: Microsporida), a parasite of muga silkworm, *Antheraea assamensis* Ww. *Indian Journal of Sericulture*, **48(1)**: 60-67.
- 27) **S.Chakrabarty** and Buddhadeb Manna (2008). Studies on cross-infection of Microsporidian spores of mulberry, eri and muga silkworms to tasar silkworm, *Antheraea mylitta* D. and its impact on economic parameters, *Indian Journal of Sericulture*. **47(1)**: 94 -100.
- 28) A.K.Dutta, **S.Chakrabarty**, J.Sarkar, G.K.Chatterjee, P.Mitra, A.K.Saha and B.B.Bindroo (2017). Scope of M x Bi rearing during 'Bhaduri' crop in Malda district of West Bengal. *Indian Silk Vol. 8(56 old) No.3 - 4, July-Aug, 2017 p: 22-23*.
- 29) S.Deb,**S.Chakrabarty**, N.Hazra, A.K.Saha and C.Chakrabarty (2015). Studies on life span of silkworm, *Bombyx mori* L. after 'Grasserie' infection, *Journal of Plant Protection and Environment*, **11(2)**:47-51.
- 30) S.Deb ,**S.Chakrabarty**, N.Hazra, A.K, Saha and C.Chakrabarty (2015). Comparative study of Grasserie (Nuclear Polyhedrosis) on *Bombyx mori* in major sericulture districts of West Bengal, India. *Journal of Experimental Zoology*, **18(2)**:518-519.
- 31) S.Deb, **S.Chakrabarty**, N.Hazra, A.K, Saha and C.Chakrabarty (2015). Impact of temperature and relative humidity on incidence of Grasserie in silkworm, *Bombyx mori* L. in West Bengal. *Journal of Plant Protection and Environment*, **12(1)**:19-26.
- 32) S.Deb, **Chakrabarty S.**, N.Hazra, Saha, A.K, B.Manna ,S.Nirmal Kumar and B.Manna (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 (ISSN: 0973-1717)10 (2):1-10*.
- 33) S.Deb, N.Hazra, **S.Chakrabarty**, A.K, Saha and C.Chakrabarty (2014). Comparative innate protein profile study of different silkworm (*Bombyx mori* L.) breeds after grasserie. *Journal of Biochemistry and Cellular Archive (ISSN 0972-5075) 14 (2):369-372*.

III.HAND BOOK/BROCHURE / NEWS & VIEWS

- 34) **Satadal Chakrabarty: Hand Book: Chawki Palupalaner Sahahika'** (*Bengali Bulletin*). Bulletin No. 1 Jan, 2018. Publisher: Scientist-C, Research Extension Centre, Mothabari, *The Bulletin has been released in Resham Krishimela, Malda held on 30.01.2018*.
- 35) **Satadal Chakrabarty: BROCHURE: 'Ghar Sodhon - a fumigant room disinfectant for disinfecting rearing house and its appliances'**. **Author: S. Chakrabarty** and A.K.Saha (2015). *In English* Published: Director, CSR&TI, Berhampore. *No. 16, Year: 2015*.
- 36) **Ghar Sodhon – a new room disinfectant**, *News and Views*, a half yearly News Bulletin of CSR&TI, Berhampore , **Vol.8(2)**, Dec, 2014 (back page). Chief Editor: Dr.S. Nirmal Kumar, Director, CSR&TI, Berhampore.
- 37) **S. Chakrabarty (2016)**. Sericillin – a bed disinfectant for silkworm body and application (in vernacular language). Reshom Krishi Barta. Publisher: Director, CSR&TI, Berhampore. Year Jan, 2016, No. 01.P-3 (Complementary copy). Released in Krishimela held on 04.02.16.
- 38) **S.Chakrabarty and K.Trivedi: 'Ghar Sodhon' – a new room disinfectant** (*Bengali Leaflet*). Leaflet No. 3 February, 2016. Chief Editor: Director, CSR&TI, Berhampore, *The leaflet has been released in Resham Krishimela held on 04.02.2016*.

- 39) **S.Chakrabarty and Z.Hossain (2015): Training manual for PGDS course** on 'Silkworm diseases and pest management' Author and faculty member Editor, Director, CSR&TI, Berhampore. Released in 42nd RAC meeting of the Institute, July, 9-10, 2015.
- 40) A.K.Saha ,T.Dutta Biswas, M.V.Santakumar, **S.Chakrabarty** and S.Nirmal Kumar (2014). '**Japani (Bivoltine) Palupalaner Sahahika**'. Bengali Booklet. No. 4, Dec, 2014.
- 41) **Satadal Chakrabarty**, A.K.Saha, and S.Nirmal Kumar. '*Sericillin* – a bed disinfectant (Bilingual Bengali and English) published one 'Brochure' by '. CSR&TI, Berhampore, November, Brochure No.11, 2013.
- 42) B.B.Bindroo, A.K.Saha, Z.Hossain, **S.Chakrabarty** (2011). We ensure crop protection (English) published one 'Brochure' on latest technology developed by Silkworm Pathology Section'. CSR&TI, Berhampore, November, Brochure No.02, May-2011.
- 43) B.B.Bindroo, A.K.Saha ,M.K.Singh, Z.Hossain, **S.Chakrabarty** (2012). *Fasal Sanrakshan ko sunischit karte hai* (Hindi) published one 'Brochure' on latest technology developed by Silkworm Pathology Section '. CSR&TI, Berhampore, November, Brochure No.07, 2012.
- 44) News and Views (Half yearly R&D News bulletin of CSR&TI, Berhampore) '**Sericillin-a new silkworm bed disinfectant**' Vol.8 No.1 (June, 2013) Front page (Hindi and English). Editor; Dr.B.B.Bindroo, Director. Front page.
- 45) News and Views (Half yearly R&D News bulletin of CSR&TI, Berhampore) '**immunization of silkworm against bacterial (Flacherie) Disease**' Vol.5 No.1 (July, 2011) p-3.Editor: Director, CSR&TI, Berhampore.

IV. BOOK CHAPTER

- 46) **Chakrabarty S., S.Deb, Saha, A.K, N.Hazra, B.Manna and B.B.Bindroo (2014).** Histopathology under light and electron micrograph on nature of damage in target tissues by Nuclear Polyhedrosis virus (*BmNPV*) (Family: *Baculoviridae*) in silkworm *Bombyx mori* L. (Lepidoptera: Bombycidae). Proceedings for National Conference on Challenges in Biodiversity Conservation and Resource Management (Editor: Prabir Kr Bandhyapadhyay, Dept. of Zoology, Kalyani University, Kalyani, West Bengal, India, ISBN 978-81-927762-0-0 p 25-35.
- 47) **Satadal Chakrabarty, S.Deb, A.K.Saha, N.Hazra, M.K.Singh, B.Manna and B.B.Bindroo (2013).** Light, Scanning and Transmission Electron Microscopical study on integument and innate protein profile study due to Nuclear Polyhedrosis Virus (Family: *Baculoviridae*) infection in *Bombyx mori* L. (Lepidoptera: Bombycidae) **Research and development in India sericulture** (Eds. Sharma, Pandey, Jaiswal, Kumar, Kumari, Rajauddin, Kumar) ISBN-978-93-82302-65-0.p-242-257.
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V. ABSTRACT

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- 66) Hossain, Z., **S.Chakrabarty** , Saha,A.K., Roychowdhuri,S., Singh,K.K. and B.B.Bindroo (2012). Silkworm disease incidence trend in the three traditional districts of West Bengal during last twenty years (Abs-OP13). Proceeding of the State Level Seminar on' *Advancement of Biological Science towards sustainable development* ', Dept. of Zoology, Berhampore Girls' College in collaboration with West Bengal Bio-Diversity Board, Kolkata sponsored by University Grants Commission held on March,29-30,2012. *Session II: Animal Science and its role in sustainable development.*
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VI. Details of Conference / Seminar/Symposium/Workshop

- i. **S.Chakrabarty**, B.Manna, A.K.Saha, R.Choudhury, N.Bhyan and B.Choudhury and K.Trivedy (2018). Ultrastructure & life cycle of *Nosema assamensis* - a pathogen causing pebrine disease of muga silkworm and a new strategy for sustainable development of muga culture in North Eastern India (Abstract & lead paper). 8th International Conference on Wild Silkmths on 'Unexplored Horizons of Wild Silks' at Guwahati, on Jan 22-24, 2018.
- ii. **S.Chakrabarty**, A.K.Saha, R.Choudhury, N.Bhyan, B.Choudhury and K.Trivedy (2017). Production of pebrine free layings for sustainable development of muga culture in North East India (Abstract).National Seminar on 'Economic Insect of NE India: Thrust on recent advances on vanya silk, at Kokrajhar,BTC, Feb 22-23,2017.
- iii. **S.Chakrabarty**, R.Choudhury, N.Bhyan and B.Choudhury (2017). Disinfection and its importance in muga grainage. In Souvenir: workshop on quality muga, eri seed production and management' at Kaliabari, Boko, Assam, Mar 21, 2017.
- iv. **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 (Abstract: EP P- 61 p-393).100th Indian Science Congress, Kolkata, January, 3 - 7, 2013, Calcutta University, Kolkata, India.
- v. **Chakrabarty,S.**, Saha,A.K., Varma,A.K., Manna,B. and Bindroo, B.B. (2013). Spread of *Nosema bombycis* and outbreak of pebrine disease in *Bombyx mori* L. in relation to source of contamination (Abstract: SED-29 p-115). Recent advances in Modern Biology and sericulture for Women Empowerment and Rural development, 24-26th October, 2013 KSSRDI, Bangalore.
- vi. **Chakrabarty S.**, Saha , A.K., Deb,S., Hazara,N., B.Manna and B.B.Bindroo (2012).Silkworm crop protection: sustainable development in sericulture(Abstract-OP7).Proceeding of the State Level Seminar on 'Advancement of Biological Science towards sustainable development', Dept. of Zoology, Berhampore girls' College in collaboration with West Bengal Bio-Diversity Board, Kolkata sponsored by University Grants commission held on March, 29 - 30, 2012. Session II: Conservation.
- vii. **Chakrabarty,S.**, Saha,A.K., Manna,B. and Bindroo, B.B. (2012). *Meloidogynae incognita* Chitwood (Nematoda : Heterodoidea) causing Root Knot disease in Mulberry plant (*Morus alba* L.: Moraceae): Host pathogen interaction towards management. Proceedings of 'National Symposium on Plant Microbe Interaction and Crop Health Management' (Session II: Abstract No. OP: T-II- 4) held on October,6-7,2012, organized by Dept. of Plant Protection, Palli Siksha Bhabana (Institute of Agriculture) Srineketan-731236 and Indian Phytopathological Society, IARI, New Delhi. p-21-22.
- viii. **Chakrabarty S.**, B.Manna, Mitra, P., Hossain,Z., Saha, A.K. and Bajpai A.K. (2011). A comparative on efficacy of different inoculum concentrations of *Nosema* sp. for larval mortality and spore multiplication in different seasons and development of pebrine disease in mulberry and vanya silkworms during infection, cross-infection and transovarian transmission (Abstract). Golden Jubilee National Conference on 'Sericulture innovations Before and Beyond' held at Central Sericultural Research & Training Institute, Central Silk Board, Mysore on January, 28-29, 2011.
- ix. **Chakrabarty S.**, S.Deb, Saha, A.K, N.Hazra, B.Manna and B.B.Bindroo (2011). Morphometrical, electron micrographical and innate protein profile study due to Nuclear Polyhedrosis Virus infection in *Bombyx mori* L. (Abstract OS84) Proceeding of 22nd all India congress of Zoology & national Seminar on Recent Advancees in Biological Sciences: Biodiversity and Human Welfare held at

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- x. **Chakrabarty S.**, Mitra, P.,Hossain,Z., Saha, A.K.,Bajpai A.K. and Manna,B. (2010). Microsporidiosis in mulberry silkworm, *bombyx mori* L. - a review (Abstract). National symposium on Recent adavances in Sericulture Research held at Bangalore during 18th – 19th May, 2010,p-32.
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16. Any other Information (Maximum 500 words): Nil