

List of DTR&DC Publication 2003-2013

Farm Management:

1. Ghosh Hajra, N and Kumar, R. (2003). Gas exchange characteristics of tea in a subtropical climate. *Ind. J. Plant Physiol.* 8(2): 749-754.
2. Ghosh Hajra, N (2004). Organic tea cultivation: Present State and Future prospect. *Proc. Seminar of DTRDC, Darjeeling, Sept. 27, 5-24.*
3. Ghosh Hajra, N and Kumar, R. (2004). Influence of environmental variable on gas exchange and productivity of tea. *Proc. International Conf. On O-Cha (tea) culture and Science. Shizuoka, Japan, Nov. 4-6 pp 181-184.*
4. Ghosh Hajra, N (2006). Organic Tea – Cultivation and marketing. International Book Distributing Co., Lucknow, India, pp – 243.
5. Ghosh Hajra, N (2006). Tea and Health. UBS Publishers distributing Pvt. Ltd. Kolkata, India, pp - 161.
6. Kumar, R., Bisen, J.S., Bora, D.K. and Bera, B. (2010). Seasonal effect of bush physiology and yield of tea in Darjeeling. *PLACROSYM – XIX-2010:100.*
7. Bisen, J.S. Singh, A.K., Kumar, R., Bora, D.K. and Bera, B. (2011). Vermicompost quality as influenced by different species of earthworm and bedding material. *Two and a Bud*, 58: 137-140.

8. Kumar, R.; Bora, D. K.; Singh, A. K. and Bera, B. (2011). Seasonal and clonal variations in shoot extension rates and population density of tea (*Camellia sinensis* L.). *Two and a Bud* 58: 137-140.
9. Bisen, J.S. and Singh, A.K. (2012). Impact of inorganic to organic cultivation practices on yield of tea in Darjeeling hills- A case study. *Ind. J. Hort.* 69 (2):288-291.
10. Kumar, R., Bisen, J.S., Singh, Mahipal and Bera, B. (2012). Effect of pruning and skiffing on growth and productivity of Darjeeling tea. *PLACROSYM – XIX* pp78.

Plant Protection:

11. Ghosh Hajra, N. (2004). Biocontrol of insects, diseases, and weed pests in tea plantation. *Proc. 15th Intl. Plant protection Congress. Beijing, China, May 11-16,* 404.
12. Ghosh Hajra, N (2004). Bio control of tea pests. *Proc Seminar of DTRDC, Darjeeling, Sept. 27, 51-66.*
13. Bisen, J.S., Saha, R. and Bera, B. (2007). Use of neem products and garlic extract in controlling certain pests of tea with special reference to organic tea in Darjeeling. *Proc. International Seminar, Coimbatore, 21– 24.*
14. Ajay, D. and Saha, R. (2009). Pests and diseases affecting tea in Darjeeling and their management. *National Workshop of plant Protection in tea UPASI, pp 85-90.*

15. Singh, M., Chakraborty, A., Singh, Mahipal and Majumder, A. B. (2011). Evaluation of some aqueous plant extracts for controlling Tea Mosquito bug (*Helopeltis theivora*) infesting tea in Darjeeling. Two and a bud 59(1): 97-99.
16. Bisen, J.S. Singh, Mahipal and Bera, B. (2012). Antifeedant properties of Neem products and some plant Extract against Bunch caterpillar (*Andraca bipuntata*) on tea leaves (*Camellia sinensis* L.). Proc. World Neem Conference, Nagpur, pp 21–24.

Tea Quality:

17. Kumar, N. and Rai, R. (2004). Quality aspects of Darjeeling tea. Proc. Seminar of DTRDC, Darjeeling, Sept. 27, 33-50.
18. Kumar, N., Rai, R. and Ghosh Hajra, N (2004). Extraction, isolation and characterization of β -D glucosidase in Darjeeling teas. Proceeding of plantation crops Symposium, Placrosym XV: 701-704.
19. Kumar, N., Rai. R and Bera, B. (2011). Impact of organic farming on the biochemical constituents and quality parameters of Darjeeling teas [*Camellia sinensis* (L) O. Kuntze.]. Two and a Bud 59(2):50-55..
20. Biswas, P., Kumar, N., Singh, Mahipal, Majumdar, A. B., Bera, B., Karki, I. B. and Chatterjee, S. (2012). Correlations of taster score with biochemical and electronic sensor data for Darjeeling orthodox tea. 6th International Conference on Sensor Technology ; IEEE, pp 769 – 774.

21. Karki, I. B., Chatterjee, S., Biswas, P., Kumar, N., Singh, Mahipal, Majumdar, A. B., and Bera, B. (2012). Zinc Oxide Nanorod Sensing Element for detection of Tea Aroma. 6th International Conference on Sensor Technology; IEEE, pp 567 – 570.
22. Kumar, N., Rai. R., Singh, Mahipal and Bera, B. (2012). Effect of Copper on quality and product of Darjeeling teas [*Camellia sinensis* (L) O. Kuntze.]. PLACROSYM XX , Abstract pp 132.
23. N. Dasgupta; P. Biswas; R. Kumar; N. Kumar; B. Bera; S. Das (2013). Antioxidants and ROS scavenging ability in ten Darjeeling tea clones may serve as markers for selection of potentially adapted clones against abiotic stress *Physiol Mol Biol Plants*,19(3):421–433.
24. Biswas, P. ; Kumar, N. ; Singh, M. ; Chatterjee, S. ; Majumder, A.B. ; Bera, B. “ Chemistry behind uniqueness of Darjeeling tea liquor colour” Proceedings of National symposium on recent Trends in Plant and Microbial Research held during March 22-23, 2013 at University of North Bengal, Siliguri, West bengal, pp. 21
25. Kumar, N., Biswas, P., Rai, R., Singh, Mahipal and Bera, B. (2013). “Fermentability of tea clones popularly grown in Darjeeling hills in relation to development of flavour during manufacture of orthodox black teas.” National Symposium on Recent Trends in Plant and Microbial Research’ organized by North Bengal University, held during March 22-23, Souvenir and Abstract PLAMISYMP-2013 pp 19.

26. Biswas, P. ; Chatterjee, S. ; Kumar, N. ; Singh, M. ; Majumder, A.B. ; Bera, B. (2013). The taste-Appearance relationship of Darjeeling Tea: Cognition Through Human and Electronic Perception Analysis by Chemistry. Proceedings of National Seminar cum Workshop on sensor and Sensing System for Taste Characterization of Food and Agro Product, held during May 09-10, at IIT, Kharagpur, West Bengal pp. 49

Tea Improvement:

27. Roy, S., Prasad, V., Singh, Mahipal and Bera, B. (2013). “A review of tea improvement through biotechnological intervention” National Symposium on Recent Trends in Plant and Microbial Research organized by North Bengal University, held during March 22-23, Souvenir and Abstract PLAMISYMP-2013, pp 42.

Soil Science:

- 28.** Saha, R., Bisen, J.S. and Kumar, R. (2004). Organic manuring and fertility management of Darjeeling tea soils. Proc. Seminar of DTRDC, Darjeeling, Sept. 27, pp 25-31.
- 29.** Saha, R. (2004). Soil zinc status map of tea estates of Darjeeling hills (New released)
- 30.** Saha, R. (2004). Fertility status map of Darjeeling tea soils (Revised and enlarged)
- 31.** Organic Tea Cultivation in Darjeeling hill: A bilingual booklet on organic tea cultivation (2010). CFC-TBI Organic Tea Workshop, Nov. 29-30, Tea Board, DTR&DC, Kurseong.
- 32.** Singh, A. K.; Bisen, J. S.; Bora, D. K.; Kumar, R. and Bera, B. (2011). Comparative study of organic, inorganic and integrated plant nutrient supply on the yield of Darjeeling tea and soil health. Two and a Bud 58: 58-61.
- 33.** Thapa, P., Sharma, B., Singh, A. K., Bisen, J. S., Chouhan, R. K., Singh, M. and Bera, B. (2012). Impact of organic inputs on yield and soil health of Darjeeling tea [Camellia sinensis (L.) Kuntze]. National Seminar on Biodiversity and sustainability vis-a- vis economic development of Northern parts of West Bengal. Organized by Raiganj Surendranath Mahavidyalaya, 26-27 Aug. pp 86-87.
- 34.** Singh, A. K., Bisen, J. S., Sharma, B., Thapa, P., Singh, M., Chauhan, R. K., Kumar, N. Singh, Mahipal, Ghosh, B. C. and Bera, B. (2012). Development of

Package of Practices for Organic Cultivation in Darjeeling hills. National Seminar on organic Tea. Organized by DTRDC on 3rd Nov., Darjeeling, pp 17-18.

35. Panda, P., Choudhury, A., Singh, A. K., Chauhan, R. K., Singh, Mahipal and Bera, B. (2012). Isolation and Screening of Phosphorus transforming bacteria from acidic tea soils of Darjeeling hills. Souvenir Extended summary & Abstracts Silver Jubilee Year of IISS, Bhopal, pp 126-129.

36. Singh, A. K., Bisen, J. S., Chouhan, R. K., Singh, Mahipal and Bera, B. (2013). Development of Vermicompost Technology for Organic Cultivation in Darjeeling hills. 'National Seminar on Organic Tea Cultivation' Organized by TRA, Jorhat, Assam, 8th Jan., pp 11-12.