



## **RESUME**

**Dr. SOUMITRA CHATTERJEE**

**Assistant Professor in Agricultural Economics**

**AICRP on Integrated Farming Systems,**

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**Date of Birth : 13.07.1974**

### **Education:**

- **Ph.D. awarded and thesis entitled “An Economic Analysis of Total Factor Productivity (TFP) in Agriculture with reference to West Bengal” at Bidhan Chandra Krishi Viswavidyalaya; Nadia, West Bengal, INDIA.**

**Principal Investigator:** Prof. Arabinda Mitra, Dept. of Agricultural Economics, BCKV, West Bengal, INDIA

**Date of Award:** 12.08.2005

**Duration:** September 2000 to August 2004.

### **Extended Summary of Ph.D. thesis:**

The main focus on the dissertation is to make a district-wise in-depth economic analysis of Total Factor Productivity in agriculture in the state of West Bengal, India covering major crops grown in this particular region and find out the sources of TFP growth over the time frame 1980-81 to 1997-98. Also the districts were categorized and clustered on the basis of advancement in the technological

change over the years. Divisia Tornqvist-Theil Index Model was used to compute Total Output Indices, Total Input Indices and Total Factor Productivity Indices for individual districts as well as the state as a whole over the year studied. Relevant secondary data on area, production and productivity of major crops were collected from various periodical issues of Statistical Abstract, Ministry of Agriculture, Govt. of West Bengal and input data from the periodical issues of Cost of Cultivation of Principal Crops in India published by Directorate of Economics and Statistics, Govt. of India. The study reveals that West Bengal witnessed an impressive growth of TFP (2.39%) over the year but its growth has been distributed unevenly among the districts. Eight districts out of fifteen in the state have registered positive growth of TFP and formed a separate cluster membership with regard to linkages between TFP and Overall Crop Performance Index. However, six districts had no significant statistical trend. Darjeeling district belonging to the hilly region has recorded significant negative trend in TFP growth due to its topographic disadvantages. Linkages between TFP and key factors (irrigation, agricultural credit and employment) have revealed that backward districts were the worst performers in terms of technological advancement and TFP growths have not been observed as a labour-saving process in West Bengal, particularly in the forward districts where the technological change has occurred.

**M.Sc. Agriculture with specialization in Agricultural Economics from Bidhan Chandra Krishi Viswavidyalaya; Nadia, West Bengal**

Title of M.Sc. Dissertation: **“Constraints and Problems of Self-Help Groups with reference to Micro-Level Study”**

**Principal Investigator:** Prof. Arabinda Mitra, Dept. of Agricultural Economics, BCKV, West Bengal, INDIA

**Duration:** November 1997 to February 2000

Recipient of University Merit Scholarship

Percentage achieved: OGPA -8.02

- **B.Sc. Honours In Agriculture from Bidhan Chandra Krishi Viswavidyalaya; Nadia, West Bengal**

**Duration:** October 1993 to October 1997

Recipient of University Merit Scholarship

Percentage achieved: 68.64%

- **West Bengal Higher Secondary Examination**

Percentage achieved: 76.5%

- **West Bengal Secondary School Examination**

Percentage achieved: 79.4%

## Qualified ICAR NET examination held in October 2001 in the field of Agricultural Economics

### Work Experience:

#### **Present Job Status:**

**Designation:** Assistant Professor in Agricultural Economics under All India Co-ordinated Research Project on Integrated Farming Systems, Directorate of Research, Bidhan Chandra Krishi Viswavidyalaya, Kalyani, Nadia, West Bengal

**Discipline:** Agricultural Economics

**Date of Join:** 5<sup>th</sup> September 2006

#### **Job Responsibility:**

✚ Performing economic evaluation and analysis of system productivity and profitability of different experimental cropping systems and identifying the best possible cropping system exists in this zone with the context of efficiency and efficacy level of the agricultural input use of various cropping systems

✚ Act as a nodal officer in Characterization and Evaluation of Predominant Farming Systems in West Bengal under AICRP on Integrated Farming Systems, BCKV

✚ Preparing annual evaluation report of AICRP on IFS with special emphasis on monitoring and economic evaluation of different cropping systems

✚ Taking classes on Under Graduate, Post Graduate and Doctoral level courses in the University

✚ Courses taken:

U.G. level: Fundamentals of Agri-business Management, Farm Management and Production Economics

P.G. level: Production Economics and Econometrics Ph.D. level: Advanced Production Economics and Advanced Econometrics

○ No. of M.Sc. scholar awarded: 3 (awarded) + 3 (current)

○ No. of Ph.D. scholar as P.I.: 2 (running)

#### **Other Job Experience:**

- Working as a ‘ **Resource Person** ‘ in **Calcutta Urban Service (CUS)** an NGO

#### **Job Responsibility:**

✓ To develop a Homestead Garden in Habra I & Habra II Block, North 24-Parganas, West Bengal, organize training programs for the rural women in the same area to develop homestead kitchen garden in their locality as well as to prepare a report regarding health-nutrition status of the farming community in Habra I and Habra II Block.

✓ To organize training programme regarding the importance of homestead gardening and organic farming system in the rural community especially in Habra I & Habra II Block, North 24-Parganas, West Bengal.

✓ To prepare organic compost such as vermin-compost as well as organic bio-pesticide among the rural community

**Date of Join:** 17<sup>th</sup> October 2005

**Duration:** Six Months

**Full time employment in Calcutta Urban Service as the Resident Project Co-ordinator in Post Tsunami Rehabilitation Project, Port Blair, Andaman**

**Job Responsibility:**

➤ To supervise the earthquake resistant buildings and houses constructed for the tsunami affected people in Port Blair

➤ To act as a networking & monitoring officer with the Government officials, local bodies and NGOs time to time and to attend various seminar, symposium and workshop organized by other NGOs and Banks

➤ To prepare fortnight report about the progress of work, future plan of action and to conduct meetings with the officials for the development of the work

➤ To work as a team member for preparing new project proposals

➤ To conduct survey for the educational programme on Community Based Disaster Preparedness in North Andaman

➤ To monitor the SHGs formed at Havelock Island, Andaman

**Date of Join:** 20<sup>th</sup> May 2006

**Duration:** Two and a half months

• Field Project on ***“Problems and Prospects Regarding the Formation of SHGs in East Kolkata”*** as a *project scientist*, in guidance of SEED, an NGO, sponsored by CARE, West Bengal.

Duration: March 2002 to June 2002.

**Field Project on Micro- Credit and Self-Help Groups**

Duration: March 1999 to February 2000

1. Conducting research on micro-level credit and self-help groups in joint association with NABARD, Calcutta.

2. In-depth study of few self-help groups operating in West Bengal

3. Identification of the socio-economic constraints faced by self-help groups with a specific emphasis on the role of women.

4. Developing a ready knowledge base about “Self-Help Group-Bank Linkage program” through Joint seminars with NGOs.

- Internship on modus operandi of the rural agricultural system with a particular emphasis on “farmer-family” equations.
- Worked as a team member in preparing a comprehensive report in Rural Agricultural Work Experience

**Computer Skills:**

- DOS, Windows
- Ms-Excel, Ms-Word
- SPSS Package, SAS 9.3 Version
- Oracle D2K along with SQL Server Database

**Interest and Activities:**

- Represented University in Youth Festival 1999 at Viswa Bharati University Santiniketan, West Bengal, in Dramatics and Indian Classical Music Soiree.
- Trained Vocalist in the songs of Rabindranath Tagore and Hindi light music.

**Languages Known:**

Bengali, English, Hindi

**References:**

1. Prof. Arabinda Mitra, Dept. of Agricultural Economics, BCKV, West Bengal, INDIA. Pin-741 252. Telephone: (033) 2582 5656 (R), +91 90 51 042131 (M)
2. Prof. Arup Chattopadhyay, Officer-In-Charge, AICRP on Vegetable Crops, Directorate of Research, BCKV, West Bengal, INDIA. Pin-741 235. Telephone: (033) 2582 1530 (R), +91 92 39 402700 (M)

### **List of Publications:**

1. Bandyopadhyay, Arindam., **Chatterjee, Soumitra** & Giri, A. K. 2002. “Inter-district variations in market performance in the trading of paddy/rice in West Bengal.” *Indian Journal of Agricultural Marketing*, Conference Issue, Sept.- Dec. **16(3)**: 129-136 pp. [Full length]
2. **Chatterjee, S.**, Saha, M., Mondal, S. S. and Samanta, M. K. 2007. An economic analysis of total factor productivity (TFP) of potato in West Bengal. *Potato Journal* **34** (No. 1-2): 121-122. [Full Length]
3. Mondal, S.S. Saha, Mithun, Acharya, D., Patra, D. and **Chatterjee, S.** 2007. Integrated effect of nitrogen and potassium with or without sulphur and farm yard manure on potato tuber yield, storage and soil fertility status. *Potato Journal* **34** (No. 1-2): 97-98. [Full Length]
4. **Chatterjee, S.**, Ray, M., Bandopadhyay, P. and Saha, M. 2008. Declining factor productivity of rice (*Oryza sativa*) in West Bengal: An economic analysis. Proceedings in the National Symposium on “New Paradigms in Agronomic Research”, Nov., 19-21, Navsari, Gujarat, 44-45 pp. [Extended Abstract]
5. Saha, Mithun., Mondal, S.S. and **Chatterjee, S.** 2008. Productivity, quality and economics of potato (*Solanum tuberosum*) under integrated plant nutrient supply system. Proceedings in the National Symposium on “New Paradigms in Agronomic Research”, Nov., 19-21, Navsari, Gujarat, 120-121 pp. [Extended Abstract]
6. Ray, M., Pramanick, M., Mani, P.K., **Chatterjee, S.**, Das, S. and Sengupta, K. 2008. Effect of crop diversification in rice (*Oryza sativa*)-rice cropping system. Proceedings in the National Symposium on “New Paradigms in Agronomic Research”, Nov., 19-21, Navsari, Gujarat, 402-403 pp. [Extended Abstract]
7. Ray, M., **Chatterjee, S.**, Pramanick, M., Mani, P.K., Roy, K. and Sengupta, K. 2009. Diversification of rice-based cropping system and their impact on energy utilization and system production. *Journal Crop and Weed*, Conference Issue, Jan-June. **5(1)**: 167-170 pp. [Full length]
8. Ghosh, A., Pramanick, M., Mani, P.K., **Chatterjee, S.**, Patra, B.C. and Ray, M. 2009. Evaluation of suitable nutrient management over state’s recommendation and farmers’ practice in rice-rice system of cropping. *Journal Crop and Weed*, Conference Issue, Jan-June. **5(1)**: 303-306 pp. [Full length]
9. **Chatterjee, S;** Ghosh, S; Bandopadhyay, P and Mitra; S. An Economic Analysis of Total Factor Productivity of Jute in West Bengal during the period of 1996-97 to 2003-04 published as a chapter contribution in the book entitled “Jute and Allied Fibres, Production Utilization and Marketing” by Indian Fibre Society, Eastern Region. [Book Chapter]
10. Mondal, S. S., Hembram, P., Saha, Mithun, Malakar, R., and **Chatterjee, S.** 2007. Effect of organic mulches on productivity and quality of potato under minimum tillage condition. In: Proceedings of National Workshop on “**Organic Horticulture – It’s production, Processing, Marketing and Export for Sustainability**” held in 8-10 November, 2007, Kalyani,W.B., India organized by Faculty of Horticulture & Society for the Advancement of Horticulture, Bidhan Chandra Krishi Viswavidyalaya. pp.11. [Abstract published]
11. **Chatterjee, S.** and Giri, A.K. 2007. Regional Rural Credit – An analysis of NSS Data summary publication in the Conference Number (July-September 2007) of the *Indian Journal of Agricultural Economics* at the 67<sup>th</sup> Annual Conference of **The Indian Society of Agricultural Economics**. [Abstract published]
12. Mondal, S. S., Saha, Mithun, Hembram, P and **Chatterjee, S.** 2009. Effect of Mulching on Productivity, Quality of Potato under Minimum Tillage. *Indian Agriculturist*, Conference Issue Vol. 53, No. 3 & 4, pp. 99-102 [Full length]
13. **Chatterjee, S.**, Bandopadhyay, P. and Mondal Sanchita 2010. An Economic Analysis of Total Factor Productivity (TFP) of Cotton Over Different States in India. Abstract published in the proceeding of XII Annual Conference of Society of Statistics, Computer and Applications, 24-26 February at Department of Statistics, Siksha-Bhavana, Visva-Bharati, Santiniketan. [Abstract published]

14. **Chatterjee, S.** and Giri, A.K. 2010. Assessment of Programmes on National Food Security Mission in India with Special Reference to West Bengal. *Indian Journal of Agricultural Economics*, Conference Issue Vol. 65, No. 3, July-Sept. pp. 562-575. [Full length]
15. Chattopadhyay, A., Dutta, S. and **Chatterjee, S.** 2011. Seed yield and quality of okra as influenced by sowing dates. *African Journal of Biotechnology* Vol. 10(28): pp. 5461-5467. [Full length]
16. **Chatterjee, S.**, Chattopadhyay, A., Dutta, S., Banerjee, A. and Hazra, P. 2011. Economics of solanaceous vegetables in the gangetic alluvial of West Bengal during autumn-winter season. *Agricultural Science Research Journal* Vol. 1(9), pp. 222-227. [Full length]
17. **Chatterjee, S.**, Bandopadhyay, P. and Sahu, P.K. 2012. Input use and technological change in cotton cultivation in different states of India. *Journal Crop and Weed* Vol. 8(1): 95-97. [Full length]
18. **Chatterjee, Soumitra.** Gupta Saurav (2013), Extent of technological change in rice cultivation over four decades in West Bengal, India, *AGRIC. ECON. - CZECH*, 59(6): 281–291. [Full length]
19. Ray, M., Samanta, B., Haldar, P., **Chatterjee, S** and Khan, D.K. (2013), Agriculture Practices and Its Association with Livestock in Hilly Areas of West Bengal, *Indian Journal of Hill Farming* Vol. 25(1): 53-57. [Full length]
20. **Chatterjee, Soumitra.** Ray, Manabendra. Halder, Pallabendu. Goswami, Rupak. 2013. Economic Characterization of Predominant Farming Systems in West Bengal, India. *American Journal of Agriculture and Forestry*. Vol. 1, No. 3, pp. 40-47. [Full length]
21. **Chatterjee, Soumitra.** Ray, Jui. 2013. Temporal Analysis of District wise Agricultural Crop Performance Scenario in West Bengal, India. *The International Journal of Social Sciences (TIJOSS)*. Vol. 18, No. 1, pp. 115-139. [Full length]
22. Ray, M. Choudhuri, N.B. Halder, P. Majumder, C. **Chatterjee, S.** 2013. Effect of Different Nutrient Management on Winter Rice in Rice-Rice Cropping System in Lower Gangetic Plains. *Indian Agriculturist*. 57(3): 173-177. [Full length]
23. Chattopadhyay, Arup. Pandia, Rana, N. Seth, Tania. Das, Sibsankar. **Chatterjee, Soumitra.** Dutta, Subrata. 2014. Identification of Selection Indices and Choosing of Parents for Vegetable Cowpea (*Vigna unguiculata* CV-GR. Sesquipedalis) Breeding Programme. *Legume Res.* 37(1): 19-25. [Full length]
24. Goswami, Rupak. **Chatterjee, Soumitra.** Prasad, Binoy. 2014. Farm types and their economic characterization in complex agro-ecosystems for informed extension intervention: study from coastal West Bengal, India. *Agricultural and Food Economics (SpringerOpen Journal)*. 2:5 1-24. (Website link: <http://www.agrifoodecon.com/content/2/1/5>) [Full length]
25. **Chatterjee, S.** Nath, R. Ray, Jui. Ray, M. Gunri, S.K. Bandopadhyay, P. 2014. Analysis of pulse production in major states of India. *Journal of Food Legumes*. 27(2): 140-145. [Full length]
26. Kundu, C.K., Hedayetullah, Md., Bera, P.S., Biswas, T. and **Chatterjee, S.** 2015. Effect of Nitrogen Levels on Different Varieties of Fodder Teosinte [*Euchlaena maxicana* (L.) Schrod] in New Alluvial Zone of West Bengal. *Forage Res.* 40(4): pp. 243-246. [Full length]
27. Chatterjee, S., Ray, Jui, Nath, R., Gunri, S.K., Biswas, T. and Sarkar, A. 2015. Economics of lentil cultivation in Nadia District of West Bengal. *Journal Crop and Weed* Vol. 11(1): 38-42. [Full length]
28. **Chatterjee, S.**, Goswami, R. and Bandopadhyay, P. 2015. Methodology of Identification and Characterization of Farming Systems in Irrigated Agriculture: Case Study in West Bengal State of India. *J. Agr. Sci. Tech.* Vol. 17(5): 1-14. [Full length]
29. Pandiarana, N., Durwas, Shende Varun, Seth, Tania, **Chatterjee, Soumitra,** Dutta, Subrata and Chattopadhyay, Arup. 2015. Enhancement of post harvest fruit quality and leaf curl disease tolerance in tomato through hybrid breeding. *Journal of Applied and Natural Science* Vol. 7(2): 606-615. [Full length]

30. Seth, T., Chattopadhyay, A., **Chatterjee, S.**, Dutta, S. and Singh, B. 2016. Selecting Parental Lines among Cultivated and Wild Species of Okra for Hybridization Aiming at YVMV Disease Resistance. *J. Agr. Sci. Tech.* Vol. **18**: 751-762. [Full length]

31. M. Ray, P. Haldar, N.B. Choudhuri, C. Majumder, P.K. Mani, **S. Chatterjee**, M. Pramanick and S.K. Mukhopadhyay. 2016. Influence of Site-Specific Nutrient Management on Productivity, Nutrient Use Efficiency and Economics in Rice-Rice Cropping System, *Indian Journal of Ecology* (2016) **43** (1): 154-159. [Full length]

### **Other activities: Workshop/Group Meetings/Seminar/Conferences etc within India:**

1. **Dr. Chatterjee** attended and presented paper in National Workshop on “**Organic Horticulture – It’s production, Processing, Marketing and Export for Sustainability**” held in 8-10 November, 2007, Kalyani, W.B., India organized by Faculty of Horticulture & Society for the Advancement of Horticulture, Bidhan Chandra Krishi Viswavidyalaya.

2. **Dr. Chatterjee** attended and presented paper in International Symposium on “**Jute and Allied Fibres Production, Utilization and Marketing**” (January 9-12, 2008), organized by **INDIAN FIBRE SOCIETY (Eastern Region) and CRIJAF, Kolkata**

3. **Dr. Chatterjee** act as a Resource Person in the National Level Training Programme on “**Improved Production Technology for Jute and Allied Fibre Crops**”, organized by AINP JAF at CRIJAF, Barrackpore during 20/8/2007 to 27/8/2007.

4. **Dr. Chatterjee** attended and presented paper in the Golden Jubilee Symposium on “**Constraints and Mitigations in Indian Agriculture**” (December 29-30, 2008), organized by The Agricultural Society of India on the occasion of Golden Jubilee Celebration (1957-2007), Kolkata

5. **Dr. Chatterjee** attended and presented paper in the International Conference on “**Emerging Trends in Production, Processing and Utilisation of Natural Fibres**” (16-18<sup>th</sup> April, 2009 at Mayfair, Worli, Mumbai, India), organized by Indian Society for Cotton Improvement (ISCI), Indian Fibre Society (IFS) under the auspices of Indian Council of Agricultural Research (ICAR) in collaboration with Texas Tech University, USA

6. **Dr. Chatterjee** attended and presented paper in the National Symposium on “**Agriculture in the paradigm of intergenerational equity**” (22-23<sup>rd</sup> May, 2009 at Farmer Training Centre (Lake Hall), B.C.K.V.), organized by Crop and Weed Science Society (CWSS), Department of Agronomy, Bidhan Chandra Krishi Viswavidyalaya, Mohanpur – 741252, West Bengal, India.

7. **Dr. Chatterjee** has successfully completed the ICAR Winter School on “**Decision Making in Agriculture using Data Mining**” at the National Centre for Agricultural Economics and Policy Research, New Delhi, during 27<sup>th</sup> Oct-16<sup>th</sup> Nov 2009. organized by the National Centre for Agricultural Economics and Policy Research (NCAP), Pusa, New Delhi.

8. **Dr. Chatterjee** attended and presented paper in the **XII Annual Conference of the Society of Statistics, Computer and Applications** held on 24-26<sup>th</sup> of Feb, 2010 at Department of Statistics, Palli Shiksha Bhavan, Visva-Bharati, Santiniketan.

9. **Dr. Chatterjee** attended and participated in the **Workshop on Research Writing & Publication** from July 12-17, 2010, organized by UGC-Academic Staff College and Economic and Political Weekly team, University of Hyderabad, Hyderabad

10. **Dr. Chatterjee** attended the Biennial Workshop of AICRP-IFS at ANGRAU, Hyderabad during November 2010

11. **Dr. Chatterjee** attended and presented paper in the **70<sup>th</sup> Annual Conference of the Indian Society of Agricultural Economics** held on 29<sup>th</sup> – 1<sup>st</sup> Dec, 2010 at Department of Economics, University of Jammu, Jammu.



12. **Dr. Chatterjee** attended and presented paper in the **International Symposium on “System Intensification Towards Food & Environmental Security”** organized by Crop and Weed Science Society (CWSS), Bidhan Chandra Krishi Viswavidyalaya, Mohanpur, Nadia, West Bengal, 24-27<sup>th</sup> Feb., 2011.
13. **Dr. Chatterjee** has participated in the Training Programme on **DATA ANALYSIS USING SAS**, of the NAIP consortium **“Strengthening Statistical Computing for NARS”** Funded by National Agricultural Innovation Project at Bidhan Chandra Krishi Viswavidyalaya, West Bengal during 13-18 February, 2012.
14. **Dr. Chatterjee** attended and presented paper in the **Global Conference on “Horticulture for Food, Nutrition and Livelihood Options”** organized by ASM Foundation, New Delhi and Orissa University of Agriculture and Technology, Bhubaneswar, Odisha, May 28-31, 2012.
15. **Dr. Chatterjee** attended the Biennial Workshop of AICRP-IFS at ICAR Research Complex, Goa during November 2012.
16. **Dr. Chatterjee** attended the Regional Training Programme of AICRP-IFS at IGKV, Raipur, Chhattisgarh during July 2013.
17. **Dr. Chatterjee** attended and presented paper in the 21<sup>st</sup> Annual AERA Conference on **“Sustainable Agricultural Growth for Improving Rural Livelihood Security”** held at Sher-e-Kashmir University of Agricultural Sciences & Technology of Kashmir, Srinagar, September 10-12, 2013.
18. **Dr. Chatterjee** attended the Regional Workshop of AICRP-IFS at AAU, Jorhat, Assam during May 2014.
19. **Dr. Chatterjee** attended the Biennial Workshop of AICRP-IFS at TNAU, Coimbatore during December 2014.
20. **Dr. Chatterjee** has participated in the National Workshop cum Training Programme on **STATISTICAL TOOLS FOR RESEARCH DATA ANALYSIS** organized by Society for Application of Statistics in Agriculture and Allied sciences (SASAA) in collaboration with the Department of Agricultural Statistics, BCKV at the Department of Agricultural Statistics, BCKV, Mohanpur, Nadia, West Bengal 741252 from 16-22 March, 2015
21. **Dr. Chatterjee** attended and presented Farming System Characterization Survey Work in the Group Meeting for all OFR Agronomist/Economist at ICAR-IIFSR Modipuram, Meerut, U.P. during 28-30 May, 2015
22. **Dr. Chatterjee** made a visual presentation entitled “Extent of Technological Change in Paddy Cultivation over Eastern Region of India during last four decades” for the 29<sup>th</sup> International Conference of Agricultural Economics (ICAE 2015), Milan, Italy, 8-14 August, 2015
23. **Dr. Chatterjee** has attended and made an oral presentation of the paper entitled “Characterization and Economic Evaluation of Predominant Farming Systems in Birbhum District of West Bengal” in the International Conference on Agriculture, Food Science, Natural Resource Management and Environmental Dynamics: The Technology, People and Sustainable Development, organized by Department of Agricultural Extension, BCKV and Krishi Sanskriti, New Delhi, India on 13<sup>th</sup> and 14<sup>th</sup> August, 2016
24. **Dr. Chatterjee** has been awarded **CWSS FELLOW AWARD 2016 for his outstanding contribution towards Agriculture Research and Development of West Bengal** in the field of Social Science on the occasion of 12<sup>th</sup> Annual Conference of Crop and Weed Science Society (CWSS), Bidhan Chandra Krishi Viswavidyalaya (BCKV), Mohanpur, West Bengal, India on 29<sup>th</sup> September 2016
25. **Dr. Chatterjee** has done the 21 days CAFT Programme on **‘Impact Assessment of Agricultural Technology’** in the Division of Agricultural Economics ICAR-IARI, Pusa, New Delhi from 14<sup>th</sup> December 2016 to 3<sup>rd</sup> January 2017

#### **Radio/T.V. Talks:**

1. Radio talk on Pashchimbanger Sasya Parjaayer Paribartane Krishi o Krishaker Lub-lokshan in Prasar Bharati, All India Radio on 19.08.2011

**No. of Ad-hoc Research Projects handled as PI: 1**

UGC support Minor Research Project entitled **“Economic appraisal of production and marketing of Solanaceous vegetables grown in major growing districts of West Bengal”**

**No. of Ad-hoc Research Projects handled as Co-PI: 2**

1. **“Effect of various Mycorrhizae products NZBBA9048, NZBBA9049 & NZBBA9050 on Bottle Gourd”** supported by M/S Novozymes South Asia Pvt. Ltd.
2. **“Traceability System and Quality Monitoring in Horticultural Supply Chain using IT Tools (Baby corn, Capsicum, Tomato, Pomegranate & Grapes)”** supported by Information Technology Research Academy (ITRA) Media Lab Asia, Department of Information Technology, Government of India.