

CURRICULUM VITAE

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EDUCATION

Exami- nation passed	Year	Subjects	% of marks	Division/ Grade	Name of the Institution/ University
PH.D	1997	Economics	Highly Commended		M I D S University of Madras
M PHIL	1986	Economics Dissertation	67 Highly Commended	I Class	Bharathidasan University Tiruchi
M A	1984	Economics	67	'O' Grade (Outstanding)	St.Joseph's College Tiruchi
B A	1982	Economics	65	I Class	A A G A College Musiri
P U C	1979	Tamil, English Natural Science Physics and Chemistry	60	I Class	Bishop Heber College Tiruchi
S S L C	1977	Tamil, English Maths, Science History & Geography and Chemistry	69	I Class	Board of Secondary Education T. Puthur

1 PH.D. FELLOWSHIP AND THESIS TOPIC

Indian Council of Social Science Research Fellowship in MIDS for Ph.D. Research from 07-10-1988 to 06-10-1992.

Topic: *Irrigation Institutions in Two Large Multi-Village Tanks of Tamil Nadu: Structure, Functioning and Impact.* Madras Institute of Development Studies. Chennai. 1995.
Supervisor – Prof. A. Vaidyanathan.

2 M.PHIL. DISSERTATION

Economics of Water Management Under Canal Irrigation with special reference to South Bank Canal of the River Cauvery, Bharathidasan University. Tiruchirappalli. 1985.
Supervisor – Prof. C. Thangamuthu.

3 PROJECT POSITIONS

Project Associate. Madras Institute of Development Studies: (15-11-1993 to 18-04-2001)

- (1) *Local Options for Water Supply and Conservation Management - Conflicts in Groundwater Management in Tamil Nadu.* Sponsor: International Development Research Council (IDRC). Canada. **From 01-08-1997 to 18-04-2001.** Project Director – Prof. S. Janakarajan.
- (2) *Environment Action Programme-Small Water Bodies.* Sponsor: Ministry of Environment and Forests. GOI. New Delhi. **From 15-11-1993 to 31-07-1997.** Project Director – Prof. A. Vaidyanathan.

Project Investigator. Madras Institute of Development Studies: **From 08-12-1986 to 06-10-1988.** Project: *Management of Irrigation and its Effect on Productivity under Different Environmental and Technical Conditions.* Sponsor: Central Planning Commission. Government of India. New Delhi. Project Director – Prof. A. Vaidyanathan.

4 BOOK ON IRRIGATED AGRICULTURE IN TAMIL NADU THE CASE OF PARAMBIKULAM ALIYAR PROJECT in English (2011)

The book is based on a resurvey project titled, “Management of Irrigation and Its Effect on Agriculture under Parambikulam Aliyar Project” undertaken in the Parambikulam Aliyar Command in 2006-07. The project report was submitted to the ICSSR – the funding agency - in March 2008. Based on the comments received from three experts, it was suitably revised and published by SIMRES Publications in **October 2011**.

5 BOOK ON WATER MANAGEMENT IN TAMIL (2010)

The book, entitled, NEER MELANMAI (Water Management) was published in April 2010 on account of the Centenary Celebration of Dr. Malcolm Adiseshiah, founder of MIDS. This book was a collection of various articles on water management that, I wrote in Tamil since 1998 and published in a famous Tamil Daily called “DINAMANI” in its centre page. DINAMANI has a wide range of readers, more than a million, inclusive of Tamil researchers, Scholars, academicians, students apart from the public.

6 FROM PROJECT REPORT TO BOOK (2001)

Prepared the project report, entitled "*Tanks of South India*", (1993-97), jointly with Prof. A. Vaidyanathan. The project report was based on the survey of about 80 system and non-system tanks under the Periyar-Vaigai and Palar Basins. This project report has been published (**2001**) by Centre for Science and Environment, New Delhi, as a book titled, "*Tanks of South India*", edited by Prof. A. Vaidyanathan.

This edited book contains six chapters, which includes introduction and conclusion and Implications. Of the six chapters, I have contributed three chapters, in which one chapter (Irrigation Institutions under Kaveripakkam and Dusi-Mamandur Tank) is an independent contribution and the remaining two chapters (“Tank Irrigation in South India: An Overview” and “Tanks of Periyar Vaigai Basin”) have done with Prof. A. Vaidyanathan.

7 WORLD BANK FUNDED TN-IAMWARM PROJECT– IRRIGATED AGRICULTURE MODERNIZATION AND WATER BODIES RESTORATION AND MANAGEMENT

The TN-IAMWARM Project commenced in April 2007 and completed in June 2014. This project was started to execute 5000 major Irrigation Tanks Infrastructure Development works. As per the World Bank norm, the works of the project have to be evaluated by an independent agency in the last three years of the project execution. Consequently, I was involved in this project as a MONITORING & EVALUATION (M&E) specialist as per the agreement reached between the MIDS and the International Evaluation Agency, SMEC – Snowy Mountains Engineering Corporation, Head Office in Australia.

As per the evaluation norms, The M&E Specialist's main task is to visit the field and evaluate the work performance of PWD-WRD and 7 line departments' namely, Agriculture, Agricultural Engineering, Agricultural Marketing, Animal Husbandry, Horticulture, TNAU and Fisheries activities under TN-IAMWARM Project and report to the Multi-Disciplinary Project Unit (MDPU) headed by a Project Director (in the rank of a senior IAS officer at Secretary level) of Government of Tamil Nadu. The World Bank Team reviews the M&E work once in a quarter. My primary task has been to evaluate the progress and effectiveness of IAMWARM works in the 141 sample tanks spread across 24 districts and reporting. Also to assemble and prepare draft monthly, quarterly, half-early and annual progress reports, submitted to the MDPU, Chepauk, Chennai. On the whole, the project outcome as indicated by the World Bank is "Moderately Successful".

8 GOVERNMENT SPONSORED INDEPENDENT EVALUATION STUDIES

1. Conducted **12 Mid Term Evaluation** and **2 Impact Evaluation** Studies of Drought Prone Areas Programme (**DPAP**) and Dry Land Development Programme from December 2005 to June 2013, Commissioned by **GOTN, Department of Agriculture. DPAP Wing. Secretariat. CHENNAI-9.**
 1. IX Batch, Vellore District. - December 2005
 2. IX Batch, Thoothukudi District - MAY 2006.
 3. X Batch, Dindigul District - July 2006.
 4. X Batch, Coimbatore District - October 2007.

5. XI Batch, Sivagangai District – May 2008.
 6. XII Batch, Virudhunagar District – June 2008.
 7. XI Batch, Pudukkottai District – July 2008.
 8. XI Batch, Thoothukudi District – August 2008.
 9. X Batch, Thiruvannamalai District – September 2008.
 10. XII Batch, Thoothukudi District - February 2009.
 11. V Batch **Impact** Study, Vellore District - June 2009.
 12. V Batch **Impact** Study, Sivagangai District. - June 2010.
 13. XII Batch, Tirunelveli District – March 2011.
 14. ICRISAT Technology - Dry Land Devpt. Program, Vellore Dt – June 2013
2. Conducted 5 Mid Term Evaluation and 1 Impact Evaluation Study of Integrated Wasteland Development Programme (**IWDP**): Commissioned by **GOTN, Department of Agriculture. DPAP Wing. Secretariat. CHENNAI-9.**
 1. Vembakkam Block, Thiruvannamalai District - August 2005.
 2. Thirumayam Block, Pudukkottai District – July 2008.
 3. Kalasapakkam Block, Thiruvannamalai District – September 2008.
 4. Poondi Block, Tiruvallur District – November 2008.
 5. Melmalaiyanur Block, Villupuram District – December 2008.
 6. II Batch **Impact** Study, Vellore District. - July 2009
 3. Conducted 3 Mid Term Appraisal of CAPART (Council for Advancement of People’s Action and Rural Technology) Rural Development Programmes: Commissioned by **GOI, India Habitat Centre, New Delhi-3.**
 1. Grama Suyaraj Voluntary Organisation, Pudukkottai – November 2007.
 2. DHAN Foundation Tank Cascade Final Evaluation, Madurai – October 2008.
 3. AMM charities, Final Evaluation for NTRC, Chennai – January 2009.

9 INDEPENDENT PROJECTS

- 1 During 1985-88 the Planning Commission, GOI, sponsored a research project. Prof. A. Vaidyanathan headed that project. The same project was sanctioned by the ICSSR for its Resurvey during 2005-06. I was heading the Project, titled **“Management of Irrigation and Its Effect on Agriculture under Parambikulam Aliyar Project – A Resurvey”**. The Project report was submitted to the ICSSR in **March 2008** and a book was released in 2011.

- 2 Completed a short-term impact evaluation study on **“Performance and Impact Analysis of the Trained Below Poverty Line (BPL) Youths under Skills for Employment in Apparel Manufacturing (SEAM) Program”**, funded by IL&FS Cluster Development Initiative Limited, New Delhi. This survey-based project covered three states of Andhra Pradesh, Karnataka and Tamil Nadu. Final Report submitted in **April 2010**.
- 3 A short-term research project, titled: **“Skill Upgradation of Rural Youths and Employability Potentials in Different Sectors in Tamil Nadu”**, is sponsored by the Evaluation and Applied Research Department of the Government of Tamil Nadu. This six-month project has extensive field surveys in 17 villages located in 5 blocks in 5 districts of Tamil Nadu. Revised Final Report submitted in **May 2011**.
- 4 Completed a short-term study report on **“Impact Study of Trainees of IL&FS Centres in Tamil Nadu, Karnataka and Andhra Pradesh”**, funded by IL&FS Cluster Development Initiative Limited, New Delhi. This survey-based project covered three states of Andhra Pradesh, Karnataka and Tamil Nadu. **June 2012**.
- 5 Completed Rural Infrastructure Development Fund (RIDF) Project on **“Impact Evaluation Study on Agriculture (Irrigation) and Connectivity (Roads & Bridges) Sector Projects Supported under RIDF in Tamil Nadu”**, funded by NABARD, Head Office - Mumbai. **October 2016**.
- 6 Quick Study on **“Farmers Clubs Programme (FCP) in Tamil Nadu for Redesigning the Policy Guidelines on Farmers Club Programme”**, DEAR (Department of Economics and Research) – NABARD: Head Office, Mumbai, **December 2016**.
- 7 Tamil Nadu Tribal Welfare – HDBI Project – **“Study on Health, Education and Livelihood Status of Tribal in Certain Hills of Eastern Ghats of Tamil**

- Nadu,**” funded by State Planning Commission – GoTN, Nine Months project. Initiated in June 2016. Final Report Submitted in **May 2018**.
- 8** **“Structure, Functioning and Impact of Irrigation Institutions: The Case of Tank Irrigation in Tamil Nadu”**. Funded by the ICSSR, 18 months Project, initiated in July 2016. Final Report submitted in **June 2018**.
- 9** **“Preparation of District Development Action Plan for Ramanathapuram and Virudhunagar Districts”**. Funded by SPC, GoTN, 4 Months Project. From January 2018 to April 2018. Final Report submitted in **August 2018**.
- 10** **“RIPF-Impact Evaluation Study in Respect of Rural Drinking Water Supply Project Assisted under RIDF”**. Funded by NABARD-RO, Chennai – 20. 6 Months Project Initiated in April 2018. Final Report submitted in **April 2019**.

10 PUBLICATIONS: RESEARCH PAPERS

10A REFEREED JOURNAL / EDITED VOLUME ARTICLES

- 35** **“Mitigating Drinking Water Crisis in Tamil Nadu.”** In International Journal of Research Granthaalayah, Vol. 7, Issue 8. Pp 301-316. Issn-2350-0530 (O). ISSN- 2394-3629 (P) (with Prof. S. Rajendran). August 2019. Pp 1-16.
- 34** **“Sources of Water Front.”** In Indian Meteorological Society, Chennai Chapter, Vol.19, Issue No.1, June 2019. Pp 8-12.
- 33** **“Health, Education and Livelihood Status of Tribals in Tamil Nadu.”** In International Research Journal of Human Resource and Social Sciences, Vol. 6, Issue 5. Pp 41-73. May 2019.
- 32** **“Tank Irrigation in Tamil Nadu: with Special Reference to Palar Anicut System.”** In A.N. Sinha Institute of Social Studies Journal, *Journal of Social and Economic Studies, Patna*. XXVII, No. 1, November 2017.

- 31 **“Sectoral Contribution and their Relevance in India: With Special Reference to Three South Indian States.”** In the International Journal of Research, GRANTHAALAYAH, Vol. 4, Issue 9, September 2017.
- 30 **“Irrigation Infrastructure Development in Tamil Nadu: With Special Reference to Rural Infrastructure Development Fund.”** In the International Research Journal of Human Resources and Social Sciences, Vol. 4, Issue 8, August 2017.
- 29 **“Policy Redesigning of Farmers’ Club Programme in Tamil Nadu.”** In Asian Academic Research Journal (International Journal) of Social Science & Humanities, Vol. 4. No. 3. March 2017. pp. 105-138.
- 28 **“Efficiency of Water Use in Agriculture”.** (with Prof. A. Vaidyanathan). In Mihir Shah and P.S. Vijay Shankar (Eds.) *Water: Understanding Emerging Perspectives*. Orient Black Swan Pvt., New Delhi. 2016. pp. 373-390.
- 27 **“Status and Significance of Connectivity Sector in Tamil Nadu: With Special Reference to Rural Infrastructure Development Fund.”** In A.N. Sinha Institute of Social Studies Journal, *Journal of Social and Economic Studies, Patna*. XXV, No. (1-2) 2015.
- 26 **“Skill Development and Employment Opportunities in Three Southern States of India.”** In *MIDS Journal, Review of Development & Change*: Vol. XIX. No.1. January-June 2014.
- 25 **“Sustainability of Groundwater Irrigation in Tamil Nadu.”** In C. Mayilswami et al (eds.) *Proceedings, National Groundwater Conference on Problems, Challenges and Management of Groundwater in Agriculture*. Bhagya Publishers, Coimbatore, December 2013.

- 24 **“Participatory Irrigation Management under Tanks: The Case of IAMWARM Project.”** In M. P. Vasimalai & A. Gurunathan (eds.) *Governance for Advancing Development (Compendium of Papers Presented at Madurai Symposium 2013)*, DHAN Vayalagam [Tank] Foundation, Madurai. September 2013: pp. 2.2 to 2.69.
- 23 **“Watershed Management and Sustainable Agriculture: A Case Study from Sivagangai District”** In S. Anbazhagan (ed.) *Water Management, Historical Perspective and Development (Workshop Proceeding Volume)*. Department of Geology, Periyar University, Salem. 2013: pp. 68-96.
- 22 **“Irrigation Management and Its Effect on Productivity under Parambikulam Aliyar Project in Tamil Nadu, India”** In Dhanraj Patil and Amar Dhere (eds.) *Changing Facets of Rural Transformation in India: An Approach towards Indian Rurality*. LAMBERT Academic Publishing, Germany. 2012: pp. 170-209.
- 21 **“Skill Upgradation of Rural Youths and Employability Potentials in Different Sectors in Tamil Nadu.”** In *MIDS Journal. Review of Development & Change*: Vol. XVI. No.1. January-June 2011.
- 20 **“Irrigation Management and Its Effect on Productivity under Parambikulam Aliyar Project in Tamil Nadu.”** In Dinesh Kumar, M (ed.) *Managing Water in the Face of Growing Scarcity, Inequity and Declining Returns: Exploring Fresh Approaches*. (National Conference Volume), IWMI-TATA Water Policy Program. Proceedings of the 7th Annual Partners’ Meet. ICRISAT, Patancheru. Hyderabad. April 2-4, 2008: pp. 819-840.
- 19 **“Parambikulam Aliyar Project: Past and Present.”** *Dams, Rivers & People*: Vol. 6. Issue 1-2. Jan-March 2008.

- 18 **“Land and Water Productivity in Tank Irrigation.”** *MIDS Journal. Review of Development & Change*: Vol. XII. No.1. January-June. (Co-authored with Dr. R. Sakthivadivel). 2007.
- 17 **“Sustainable Development of Small Water Bodies in Tamil Nadu.”** In K.A. Rasure (ed.) *Environment and Sustainable Development*. Vol. II. Serials Publications. New Delhi. 2007.
- 16 **“Efficiency of Water Use in Indian Agriculture”.** (with Prof. A. Vaidyanathan). In *India’s Water Resources: Contemporary Issues on Irrigation*. A. Vaidyanathan, Oxford Collected Essays. Oxford University Press, New Delhi. 2006. pp. 79-111.
- 15 **“Land and Water Productivity in Tank Irrigation: A Comparative Analysis”.** In Sailabala Debi and V.B. Annigeri (eds.) *Sustainable Development and the Indian Economy: Issues and Challenges*. Serials Publications. New Delhi (for CMDR Dharwad). (with Prof. R. Sakthivadivel). 2006.
- 14 **“Sustainable Development of Small Water Bodies in Tamil Nadu”** *Economic and Political Weekly* 30 June 2006. Vol. XLI No. 26.
- 13 **“Efficiency of Water Use in Indian Agriculture”** (with Prof. A. Vaidyanathan). *Economic and Political Weekly*: 3-9 July 2004. Vol. XXXIX No. 27.
- 12 **“Tamilagamum Thannerum”** (Water and Tamil Nadu - in Tamil). In K.M. Mathew & Mamman Mathew (eds.) *Manorama Yearbook 2004*. Malayala Manorama Press. Kottayam. January 2004.
- 11 **“Strategy for Development of Watersheds in Tamil Nadu”.** In K. Palanisami, D. Suresh Kumar and B. Chandrasekaran (eds.) *Watershed Management: Issues and Policies for 21st Century*. Associated Publishing Co. New Delhi. 2002.

- 10 **"Irrigation Institutions under Kaveripakkam and Dusi-Mamandur Tanks"**, In A. Vaidyanathan (ed.) *Tanks of South India*. Centre for Science and Environment. New Delhi. 2001.
- 9 **"Tanks of Periyar-Vaigai Basin"**. In A. Vaidyanathan (ed.) *Tanks of South India*. Centre for Science and Environment. New Delhi. (Co-authored with A. Vaidyanathan). 2001.
- 8 **"Tank Irrigation in South India: An Overview"**. In A. Vaidyanathan (ed.) *Tanks of South India*. Centre for Science and Environment. New Delhi. (Co-authored with A. Vaidyanathan). 2001.
- 7 **"Impact of Irrigation on Cropping Intensity, Cropping Pattern and Productivity under Tank Commands"**. Gokhale Institute of Politics and Economics Journal. *Artha Vijnana*. Vol. XLII. No.4. December 2000.
- 6 **"Tank Irrigation under the Periyar Vaigai Basin: A Historical Perspective"**. Institute for Social and Economic Change Journal. *Journal of Social and Economic Development*. Vol. III. No.2. July-December 2000.
- 5 **"Water Management under Traditional Tank Irrigation Systems under Major Tanks: with special reference to Mamulnamas"**. *MIDS Journal. Review of Development & Change*: Vol. V. No.2. July-December 2000.
- 4 **"Irrigation Under the Palar Anicut System: A Case Study from Tamil Nadu"**. Gokhale Institute of Politics and Economics Journal. *Artha Vijnana*: Vol. XL. No.4. December 1998.
- 3 **"Maintenance of Irrigation Networks under Major Tanks in Tamil Nadu"**. *MIDS Journal. Review of development & Change*: Vol.III. No.2. July-December 1998.

2 **"Irrigation Management under Different Conditions: A Study of Large Tank Systems in Tamil Nadu"**. Nepal Water Conservation Foundation Journal. *Water Nepal*: Vol.5. No.2. July-December 1997.

1 **"Irrigation Institutions under Two Major System Tanks in Tamil Nadu"**. MIDS Journal. *Review of Development & Change*: Vol. II. No.2. July-December 1997.

10B NATIONAL TRAINING PROGRAMME / SEMINAR PAPERS

5 **"An Overview of Tank Irrigation in South India."** Workshop Proceedings. National Water Academy, Central Water Commission, Gol. Pune. February 2006.

4 **"Issues in Rehabilitation of Tanks for Irrigation."** Workshop Proceedings. National Water Academy, Central Water Commission, Gol. Pune. February 2006.

3 **"An Overview of Tank Irrigation in South India."** Workshop Proceedings. National Water Academy, Central Water Commission, Gol. Pune. March 2007.

2 **"Issues in Rehabilitation of Tanks for Irrigation."** Workshop Proceedings. National Water Academy, Central Water Commission, Gol. Pune. March 2007.

1 **"Ecological Sustainability and Development of Tank Irrigation: A Future Prospects."** In the National Seminar on Ecosystem Based Watershed Development for Environmental Sustainability organised by **DHAN Vayalagam (Tank) Foundation**, Madurai, September 15, 2009.

10C MONOGRAPH

2 **"Water Management under Different Conditions: With Special Reference to Mamulnamas."** Institute for Social and Economic Change Monograph. No. 60. Contemporary Issues in Indian Agriculture. July 2018.

- 1 **“Irrigation in Tamil Nadu – With Special Reference to Tank Irrigation.”**
 Monograph. No. 8. *Madras Institute of Development Studies*. August 2009.
 (Coauthored with V. Gandhiraj – Research Scholar).

10D WORKING PAPERS

- 6 **“Water Management of Two Major System Tanks According to Mamulnamas”.** Working Paper: No.235. *Madras Institute of Development Studies*. September 2019.
- 5 **“Performance of Irrigation in Tamil Nadu: A Macro Perspective.”** Working Paper No. 224. *Madras Institute of Development Studies*. December 2016.
- 4 **“Farm Level Land and Water Productivity in Tank Irrigation: Some Methodological Issues.”** Working Paper: No.194. *Madras Institute of Development Studies*. September 2005. (with Prof. R. Sakthivadivel).
- 3 **“Efficiency of Water Use in Indian Agriculture.”** Working Paper: No.183. *Madras Institute of Development Studies*. January 2004. (with Prof. A. Vaidyanathan).
- 2 **“Conditions and Characteristics of Well Irrigation under Palar Basin, Tamil Nadu”.** Working Paper: No.179. *Madras Institute of Development Studies*. May 2003. (with Prof. A. Vaidyanathan and S. Mariasusai).
- 1 **“Alapakkam - A Resurvey”.** Working Paper: No.173. *Madras Institute of Development Studies*. August 2002.

10E NEWSPAPER (EDIT PAGE) ARTICLES

- 40 Thanneer ... Thanneer ... Thanneer? (Water ... Water ... Water?). *Dinamani*. Tamil (Edit page). 31 May 2019.

- 39 Kudineerp Pirachnaikkuth Theervu Yenna? (What is the Solution for Drinking Water?). *Dinamani*. Tamil (Edit page). 20 February 2019.
- 38 Cauvery Settlement and Water Management: What is the Government of Tamil Nadu to do? – Expert Opinion, in <http://tamil.thehindu.com/tamilnadu/article22754350.ece> 17 February 2018.
- 37 **Neerindri Amaiyathu Uzhagu** (Water is the Base for the World *Pasumaitthayagam* – Sutruichchulal Monthly Issue March 2017).
- 36 **Thanneer Namadhu Uyir** (Water is our Life). *Dinamani*. Tamil (Edit page). 21 March 2017.
- 35 **To Feed the World in 2050: Challenges and Emerging Solutions with Special Reference to Indian Agriculture.** *BUSINESS OF AGRICULTURE – Agriculture, Business & Management*, July-August 2016.
- 34 **Velanmyyum Paasana Aatharangalum** (Agriculture and Sources of Irrigation). *Dinamani*. Tamil (Edit page). 28 March 2016.
- 33 **Periya Erikalin Neer Melanmai** (Water Management under Large Tanks). *Dinamani*. Tamil (Edit page). 21 January 2016.
- 32 **“Erikalaik Kappom”** (Protect Our Tanks). *Dinamani*. Tamil (Edit page). 13 November 2014.
- 31 **“Ellorukkum Vunavu Eppothu?”** (When Will All Get Food?). *The Hindu*. Tamil (Edit page). 16 October 2014
- 30 **“Neerukku Matru Neerthaan”** (Substitute for Water is Water only). *Dinamani*. Tamil (Karuthukkalam). 17 February 2014
- 29 **“Thalaikka Vendum Erippasanam”** (Tank Irrigation Should Have to Grow). *Dinamani*. Tamil (Edit page). 26 July 2013.

- 28 **“Allith Tharum Amuda Surabikal”** (Perennial Resource Providers). *Dinamani*. Tamil (Edit page). 22 December 2012.
- 27 **“Kadamai Vivasayam Seigirome...”** (Doing Careless Agriculture...). *Dinamani*. Tamil (Edit page). 26 October 2012.
- 26 **“Velaan Varuvaai Peruga...”** (Raising Agricultural Income). *Dinamani*. Tamil (Edit page). 25 September 2012.
- 25 **“Erigal Yaarukku Sontham?”** (To Whom the Irrigation Tanks Belong?). *Dinamani*. Tamil (Edit page). 18 August 2012.
- 24 **“Erikalin Membattil Ulaga Vangi!”** (Role of World Bank in the Modernization of Irrigation Tanks). *Dinamani*. Tamil (Edit page). 09 February 2012.
- 23 **“Paasana Sangamkalin Balam; Vivasayikalukku Valam”** (The Strength of WUAs is the Base for Prosperity of Agriculturists). *Dinamani*. Tamil (Edit page). 11 November 2011.
- 22 **“Makkalum Malai Neerum”** (People and Rain Water). *Dinamani*. Tamil (Edit page). 03 January 2008.
- 21 **“Karaieruma Kaalvaip Paasanam”** (Possibility of Improving the Canal Irrigation – in the context of Parambikulam Aliyar Project). *Dinamani*. Tamil (Edit page). 19 January 2007.
- 20 **“Nila Neerum Nilaththadi Neerum”** (Surface Water and Ground - water). *Vayalagam Seithimadal*. Tamil (Monthly Newsletter). July 2005.
- 19 **“Malaineer Semikka Erigal Meetppu”** (Evicting Tank Encroachments for Rainwater Harvesting). *Dinamani*. Tamil (Edit page). 17 November 2004.
- 18 **“Periyar Dam: Theyvai – Oru Theysiyap Parvai”** (Periyar Dam: A Vision with National Perspective. *Theni Seithigal*–Fortnightly Magazine. Tamil (Edit Page). December 16-31, 2003.
- 17 **“Velanmaiyl Erippasanam”** (Water Management under Tank Irrigation) *Dinamani*. Tamil (Edit page). 29 August 2003.
- 16 **“Neervalu MEMPATTIL Makkal Pangu”**(Peoples’ Participation for Water Resources Development). *Vayalagam Seithimadal*. Tamil (Monthly Newsletter). April 2003.

- 15 **"Cauveryneer Pankeettukkup Puthiya Vazi"** (Cauvery Water Distribution: A New Approach). *Dinamani*. Tamil (Edit page). 17 October 2002.
- 14 **"Cauveri: Mattru Vazigal"** (Alternate ways to solve Cauvery river water problem). *Dinamani*. Tamil (Edit page). 30 July 2002.
- 13 **"Pon Vilaiym Boomi"** (Reaping gold in Indian soil through linking rivers). *Dinamani*. Tamil (Edit page). 22 March 2002.
- 12 **"Nel Urpathi: Mummadanku Perukkalam"** (Paddy Production: Threefold increase is possible). *Dinamani*. Tamil (Edit page). 06 February 2002.
- 11 **"Malaineer Sekarippin Magathuvam"** (On the necessity for rainwater harvesting). *Dinamani*. Tamil (Edit page). 27 October 2001.
- 10 **"Makkal Tharum Paadam"** (On the results of Assembly elections May 2001). *Dinamani*. Tamil (Edit page). 19 May 2001.
- 9 **"Kudineer Patrakkurai Neenka Vazi"** (On the ways to solve drinking water problem). *Dinamani*. Tamil (Edit page). 22 March 2001.
- 8 **"Erikaley Thaagam Theerkkum"** (On the importance of rain water harvesting for drinking water supply). *Dinamani*. Tamil (Edit page). 27 May 2000. (Also appeared in "Naveena Velanmai". June 2001).
- 7 **"Thanner Kattum Karnatagam"** (On the problems of Cauvery river water management). *Dinamani*. Tamil (Edit page). 22 December 1999.
- 6 **"Neervalam Peruga Nilayana Valigal"** (On the importance of rain water harvesting). *Dinamani*. Tamil (Edit page). 3 November 1999.
- 5 **"Ponnana Thanneer Veenakalama!"** (On the importance of tank maintenance). *Dinamani*. Tamil (Edit page). 30 October 1998.
- 4 **"Periyaru: Theyvai Theysiya Nokku"** (On Periyar Dam). *Dinamani*. Tamil (Edit page). 11 August 1998.
- 3 **"Visath Thanneer"** (On Tirupur Dyeing and Bleaching units effluents problems). *Dinamani*, Tamil (Edit page). 23 June 1998.

- 2 **"A dam in distress"** (On Periyar Dam). *The Hindu* (Sunday Magazine).4.5.1997.
- 1 **"Negligence Takes Its Toll"** (On Kaveripakkam Tank). *The Hindu*. 20 May 1994.

10F BOOK REVIEWS

- 12 Review of the book Land Records Management in India: A Plea for Reforms by A.A.A. Faizi and Hari Charan Behera (Eds.). *Review of Development & Change*, Vol. XXI, No.1, Jan-June 2016.
- 11 Review of the book **Transforming Indian Agriculture INDIA 2040 Productivity, Markets and Institutions** by Marco Ferroni (Ed). *Review of Development & Change*, Vol. XIX. No. 2, July-Dec 2014.
- 10 Review of the book **Water Insecurity, Institutions & Livelihood Dynamics: A Study in Plachimada, Kerala, India** by K.N. Nair, Antonyto Paul and Vineetha Menon (Eds): *Review of Development & Change*. Vol. XIII. No.2. July-Dec 2008 (also appeared in Dams, Rivers & People. Vol 6. Issue 10-11. Nov-Dec. 2008).
- 9 Review of the book **Participatory Management of Natural Resources: Irrigation Tanks in Panchayats** by V Ragupathy. *Review of Development & Change*. Vol. XI. No.2. July-December 2006.
- 8 Review of the book **WATER: Problem and Its Management** by Satish Yadav (ed.). "Water Manifesto". *Economic and Political Weekly: May 7, 2005*.
- 7 Review of the book The **Determinants of Fertilizer Consumption and its Growth in Tamil Nadu** by T.C. Mohanam: "Fertiliser Use and Crop Yield".

Economic and Political Weekly: 9-15 August 2003 (also appeared in *Review of Development & Change*. Vol. VIII. No.1. January-June 2003).

- 6 Review of the book **Water User Associations in Andhra Pradesh – initial feedback** by Jasveen Jairath. *Review of Development & Change*. Vol. VII. No.1. January-June 2002.
- 5 Review of the book **Different Sources of Irrigation: A Case Study of the Telangana Region** by Sanjeeva Reddy: *Journal of Social and Economic Development*. Vol. III. No.1. January-June 2000 (also appeared in *Economic and Political Weekly*: "Of Canals, Tanks and Wells". 8 January 2000).
- 4 Review of the book **Institutions and Economic Change in South Asia** by Burton Stein & Sanjay Subrahmanyam (Eds): *Review of Development & Change*. Vol.III. No.1. January-June 1998.
- 3 Review of the book **Groundwater Depletion, Land Degradation and Irrigated Agriculture in India** by B.D. Dhawan. *Water Nepal*. Vol.5. No.2. July-Dec. 1997.
- 2 Review of the book **User-Friendly Irrigation Designs** by Nirmal Sengupta: "Revival of Small Water Bodies". *Economic and Political Weekly*. 23 July 1994.
- 1 Review of the book **Tank Irrigation in Karnataka: A Historical Survey** by G.S. Dikshit, G.R. Kuppaswamy and S.K. Mohan: "Decline of Tank Irrigation". *Economic and Political Weekly*. 26 February 1994.

11 ALL INDIA RADIO – LECTURES

- 8 Panel Discussion in Tamil on “**Central Budget – 2018-19.**” All-India Radio. Chennai-4. Direct Broadcast on February 1, 2018.
- 7 Interview in Tamil on “**World Fresh Water Day: Shrinking it’s sources, Scarcity, Pollution, Challenges & Solution in Providing Clean Water to All.**” All-India Radio. Chennai-4. Broadcast on March 18 and 23, 2017.

- 6 Interview in Tamil on **“Smart Cities, their Necessity, the Uncontrolled Urbanization & It’s Impact, Challenges in Establishing Smart Cities, their Salient Features like Digital Connectivity, Waste Management, etc.”** All-India Radio. Chennai-4. Broadcast on November 23 and 26, 2016.
- 5 Interview in Tamil on **“Population Explosion, Its Reasons, Present Scenario, Its Impact on Natural Resources, Environment, Food Security, Economy and Society and Counter Measures.”** All-India Radio. Chennai-4. Broadcast on July 06 and 09, 2016.
- 4 Interview in Tamil on World Food Security Day, **“World Food Security, Challenges from Population Explosion, Pollution and Causes in Declining Agriculture Productivity & Remedial Measures”** All-India Radio. Chennai-4. Broadcast on October 15 and 25, 2014.
- 3 **“Changing Phase of Irrigation in Tamil Nadu”**. Indira Gandhi Open University – Lecture II – 08.01.2010.
- 2 **“Agriculture in Tamil Nadu”**. Indira Gandhi Open University – Lecture I - 04.12.2009.
- 1 A Talk on **“Water Savings and Management.”** All-India Radio. Chennai. 28-3-2009.

12 TALK IN DOOR DHARSAN TV CHANNELS

- 38 **PUTHIA THALAI-MURAI** TV Presentation, Nerpada Pesu – One Hour Program **“Thagathil Thamilagam”** (Thirsty Tamil Nadu – Is the Scarcity Reaching Danger mark?), 14.06. 2019.
- 37 **News Minute** TV Presentation on, **“Groundwater Shortage / Depletion – People’s Agitation and Measures to Solve Drinking Water Problem in Chennai.”** The NEWS Minute, Chennai., 04.06.2019.
- 36 **NEWS-J** TV Presentation on **“Govt. Decision on Installation of Five Desalination Plants in Kasimedu-Tiruvotriyur- Triplicane-MRC Nagar-Tiruvanmiyur to Reduce Drinking Water Problem in Chennai – Issues on Viability and Sustainability”** NEWS J TV – Nungambakkam, 30.05.2019.
- 35 **Thanthi** TV Four-Hour Special Program on **“Kudineer Ini Kanal Neer (Drinking Water Will Become Scarce)”**, Chennai, 13.05.2019.

- 34 **Kaveri** TV News Presentation on “Importance of Desalination plants & Solving Drinking Water Problem in Chennai” Plot No.1, 2, The Lords, Block No.2, Thiru Vi Ka Industrial Estate, Guindy, Chennai - 32, 10.05.2019.
- 33 **Thanthi** TV News Presentation on “Solution to Solve the Eternal Water Scarcity and Drinking Water Problem in Tamil Nadu and Chennai” Chennai-6, 07.05.2019.
- 32 **News18 Tamil Nadu** – TV News Presentation on Effect of Deficit North East Monsoon Rainfall and Management of Drinking Water Supply in Chennai Metro, 24.11.2018
- 31 **News18 Tamil Nadu** – TV Panel Discussion on Kudimaramath, 30.08.2018.
<https://tamil.news18.com/videos/shows/thuninthu-sol-thuninthu-sol-august-30-48719.html>
- 30 **News18 Tamil Nadu** – TV Panel Discussion One Hour THUNINTHU SOL Direct Relay on Wastage of Cauvery Waters and its Possibility for Restoration, Bascon Maureu, 5th and 6th Floor, RRC Centre, Near Valluvar Kottam, Kodambakkam High Rd, Nungambakkam, Chennai – 600034. 20.08.2018.
- 29 **Thanthi** TV Panel Discussion One Hour AAYUTHA EZHUTHTHU Direct Relay on Cauvery Water Goes Waste – What Tamil Nadu Should do? Chennai, 11.08.2018.
- 28 **Puthia Thalai-Murai** TV - Gave a refresher course for 2 hrs. to the Staff of the Channel on Water – Its different forms – Different Sources and Its Management in TN, 28.07.2018.
- 27 **NEWS 7 Tamil** - TV Presentation on Water Resources Management in the context of South-West Monsoon in Chennai, No 110 E, Kodambakkam High Road, Nungambakkam, Chennai – 600034, 25.07.2018.
- 26 **Puthia Thalai-Murai** TV Presentation News Channel Programme on Cauvery Water Surplus and its Management, 23.07.2018.
- 25 **Vijay** TV, Panel Member in Neeya - Naana program (52 members participating two groups as 2+24+2+24) on Water Management in Tamil Nadu, Vadapalani – Chennai. 12.08.2018.
- 24 **Thanthi** TV, Panel Discussion on – “Issues Relating to Supreme Court Verdict on Cauvery Water Sharing and Agitations by Social Groups in Tamil Nadu.” AAYUTHA EZHUTHTHU one hour Programme, 09.04.2018.
- 23 **Doordarshan (Pothigai)**. Panel Discussion on SC Verdict on Cauvery Final Award - Velichcham Program. 25- 02- 2018.
<https://www.youtube.com/watch?v=9TYLgFoPW0c&feature=youtu.be>

- 22 **Thanthi** TV, Panel Discussion on – “Ockhi Cyclone and the North East Monsoon in Southern part of Tamil Nadu.” AAYUTHA EZHUTHTHU one hour Programme, 03.12.2017.
- 21 **Doordarshan (Pothigai)**. Seithi Vimarsanam on “Vadakilakku Paruvamalai (NE Monsoon): Neer Aadharam / Semippu (water source / conservation”. 15.11. 2017.
- 20 **Kaveri** TV, Panel Discussion on – “Efficacy and Possibilities of Bullet Trains in India” –Guindy, Chennai, 06.07.2017.
- 19 **PUTHIA THALAI-MURAI** TV Presentation on “Ways to Rainwater Harvesting on City Roads and Streets”, 05.07.2017.
- 18 **Thanthi** TV, Panel Discussion on – “Possibilities of Alternative Farming in Cauvery Delta Districts of Tamil Nadu.” AAYUTHA EZHUTHTHU one hour Programme, 05.03.2017.
- 17 **Thanthi** TV, Panel Discussion on – “Issues Relating to Averting Farmers Suicides due to Crop and Monsoon Failure in Tamil Nadu.” AAYUTHA EZHUTHTHU one hour Programme, 03.01.2017.
- 16 **NEWS 7 Tamil**, A Talk on “Responsibilities of Citizens and the Govt to tap Rain Water in the wake of North East Monsoon” -TV Presentation on Rain Water Harvesting - Short News series, No 110 E, KHR, Nungambakkam, Chennai – 600034, 31.10.2016.
- 15 **PUTHIA THALAI-MURAI** TV Presentation. Group Discussion on - Cauvery Water Sharing in the Wake of Supreme Court Pending Cases & Quick Study Report Submitted by Expert Technical Committee appointed by the SCI,” one hour Special Programme, 18.10.2016.
- 14 **PUTHIA THALAI-MURAI** TV Presentation. News Channel Program on – Ways to Resolve Cauvery Water Sharing in the Absence of Formation of “Cauvery Management Board”, 04.10.2016.
- 13 **NEWS 7 Tamil** -A Talk on “Management of Drinking Water in Chennai Metro Area – After Floods”, TV Presentation on Drinking Water Management - Short News series, No 110 E, KHR, Nungambakkam, Chennai – 600034, 18.02.2016.
- 12 **NEWS 7 Tamil** - A Talk on “Rain Water Conservation / Savings on the eve of South West Monsoon”, TV Presentation on Rainwater Conservation - Short News series, No 110 E, Kodambakkam High Road, Nungambakkam, Chennai – 600034, 20.11.2015.
- 11 **PUTHIA THALAI-MURAI** TV Presentation. Group Discussion on North-East Monsoon Rains and its Effect on Auto Cleaning of Rivers Cooum and Adyar –

- How Sustainable this Natural Cleaning of River Waters?”, one hour Special Programme, 19.11.2015.
10. **PUTHIA THALAI-MURAI TV Presentation.** Group Discussion on Linking of National Rivers – Necessity & Issues in the Context of Growing Water Scarcity”, one hour Programme on Urakka Sollungal, 4.10.2015.
 9. **Thanthi TV,** A Talk on “Issues Relates to Averting Drinking Water Problem in Chennai”, Presentation of Short News series on Drinking Water Situation in Chennai, 27.07.2015.
 8. **Thanthi TV -** A Talk on “Karnataka’s Dam construction initiative in Megathathu/ Rasimanal Location”, Presentation of Short News on Negotiation or Legal Settlement, 18.11.2014.
 7. **Pudhu Yugam Television Channel,** A Talk on “World Development Information Day: October 24”. Status of Development Information Today on 24.10.2014.
 6. **Puthia Thalaimuari TV Presentation,** A Talk on “Awareness Program on Water Savings and Avoiding Wastages in the context of South West Monsoon” - one-hour Live Telecast Programme on Aaivukkalam, 01.10.2014.
 5. **Puthia Thalaimuari TV Presentation,** A Talk on “Linking of Rivers – Necessity & Issues in the Context of Farmers Agitations” - one-hour Live Telecast Programme on Aaivukkalam,28.08.2014.
 4. **Puthia Thalaimuari TV Presentation.** A Talk on “Water Savings and Avoiding Wastages in the context of South West Monsoon” - one-hour Live Telecast Programme on Aaivukkalam, 14.08.2014.
 3. **Pudhu Yugam Television Channel.** A Talk on “Air Pollution, Problems and Prevention Measures”. The Environment Awareness Talk on 04.05.2014.
 2. **Pudhu Yugam Television Channel.** A Talk on “Pollution Problems and Prevention Measures”. The World Environment Day Talk on 02.12.2013.
 1. **Doordarshan (Pothigai).** A Talk on “Agricultural Water Management”. 10.07.2003.

13 PAPERS PRESENTED IN SEMINARS, WORKSHOPS, CONFERENCES AND LECTURE / REFRESHER COURSE SERIES

91. “Performance of Agriculture in Tamil Nadu and India” in the **One-Day National Conference on “Growth with Stability: Economic Prospects and Challenges in**

- India**". Organised by The Indian Econometric Society (TIES) & Dept. of Economics, Madras Christian College, Tambaram. **22.11.2019**.
- 90 "Reviving Tank Systems through People Participation: Experiences and Scope for the Future" in the **Symposium on "Land, Water and Agriculture: Relevance of Gandhi,"** Organised by Association of Sarva Seva Farms (ASSEFA), Sathuragiri Campus, T. (Theni) Kallupatti, Madurai, Tamil Nadu, **10.10.2019**.
- 89 "Theories of Change in Rural Transformation: Critical Review and A Way Forward", **MIDS Seminar**, (with Dr. V. Rengarajan), MIDS, Chennai, **01 October 2019**.
- 88 "Status of Agriculture in Tamil Nadu and India" in the "**One Day Symposium on Water Resources: Sustainable Overtures,**" Organised by ICFAI Law School, Hyderabad, **28.9.2019**.
- 87 "Irrigated Agriculture in Tamil Nadu and India A Macro Perspective: 1950-51 to 2016-17 with Focus on the Role of Irrigation" in the **International Conference on Contemporary Practices of Technology and Management for Economic Growth**. Sponsored by VIT Business School, VIT Chennai. **7.9.2019**.
- 86 "Water and Soil Conservation for the Development of Climate Change Induced Agriculture and Sustainable Livelihood" in the "**One-Day Consultation,**" Organised by World Vision India, Chennai, held at Ramyas Hotels PVT, Trichy. **4.9.2019**.
- 85 "Sources of Water Front" in the "**Brainstorming Meet on Chennai Water Management,**" Organised by Indian Meteorological Society, Chennai Chapter, Health & Family Welfare Training Centre, Egmore. **3.8.2019**.
- 84 "Water Crisis and Water Management in Tamil Nadu" in the **One-Day Seminar on "Water Crisis and Water Management"**. Organised by IIPA & Sacred Heart College, Tirupattur, PG & Res. Dept. of Economics. **24.07.2019**.
- 83 "Water for Agriculture and Rural Drinking in Tamil Nadu" in the **One-Day Seminar on "Water for All" (Resource Person)**. Sponsored by School of Social Sciences and Languages, Dept. of Social Sciences, VIT University, Vellore. **25.03.2019**.
- 82 "Importance of Water and Declining Tank Irrigation" in the **ECONOMIC ASSOCIATION – ECOBEAT 2019 (Chief Guest)**, Sponsored by Department of Economics, Guru Nanak College, Velachery, Chennai – 600 042, **07.03.2019**.
- 81 "**Impact Evaluation Study of Rural Drinking Water Supply Project – Assisted under RIDF – NABARD-Regional Office**" in the final presentation of Completion of Project before Officials of NABARD at Conference hall, NABARD-RO, Chennai. **28.02.2019**.
- 80 "**Status and Sustainability of Small Water Bodies in Tamil Nadu: Macro and Micro Perspectives**" in the National Workshop on Restoration of "Local Water Bodies for Sustainable Eco. Devpt: Recent Trends, Opportunities & Challenges." Govt. Arts College

- (Autonomous) and Tamil Nadu State Council for Science & Technology. PG Dept. of Geography, Govt. Arts College, Salem 636007. **21.12.2018.**
- 79 **“Status of Surface Water Sources & Small Water Bodies in Tamil Nadu”** and **“Sustainability of Small Water Bodies in Tamil Nadu”** in Two-Week Short Term Course on Sustainable Development. Faculty of Arts, Dept. of Business Administration. Annamalai University, Chidambaram. **16.12.2018.**
- 78 **“The Structural Issues and the Need for Value Chain Tools in the Functioning of Farmer Producer Organization”** in the Workshop on FPO as Risk Mitigation Institutions for Small and Marginal Farmers in India – Issues, Challenges and the Way Forward. Dept. of Horticulture (GoK) and German International Cooperation (GIZ) Bangalore. **04-05. 12. 2018.**
- 77 **“Historical Development of Tank Irrigation”** and **“Issues Relating to Management of Tanks”** in the Two Weeks Refresher Course in Community Resource Management. UGC Interdisciplinary Course for University and College Teachers. Seminar Hall, BDU, Tiruchirappalli – 620023. **01.10.2018.**
- 76 Impact Evaluation Study of Rural Drinking Water Supply Scheme – Draft Report Presentation on **“Salient Features on the Impact Evaluation.”** NABARD – Regional Office, Chennai. **13.08.2018.**
- 75 **“Water Management under Different Conditions: with Special Reference to Mamulnamas”**, In the Development Convention – 2017-18 on “India at Seventy: New Development Challenges” to be held at ISEC, Bangalore, **24-25 April 2018.**
- 74 **“Towards a Sustainable Agriculture in India”**, Panelist in the National Symposium, Sponsored by GEOJIT and Organised by Department of Economics, Loyola College, Chennai, **14 February 2018.**
- 73 **“Timeline and Draft Template for District Action Plan”**, In the High Level Committee on Transformation of Aspirational Districts (Virudhunagar and Ramanathapuram), Video Conference Presentation, **Chaired by the Chief Secretary, GoTN.** Held at Chief Secretary’s Conference Hall, II Floor, Old Building, Secretariat, Chennai - 600009. **02 February 2018.**
- 72 **“Transformed Institutions and Declining Tank Irrigation”**, Faculty Seminar, MIDS, Chennai, **24 January 2018.**
- 71 **“In Search of Irrigation Institutions: The Case of Tank Irrigation in Tamil Nadu”**, In the National Seminar on Rejuvenate Indian Agriculture for Sustainability, Pragna Bharati, Hyderabad, **23-24 Sept 2017.**
- 70 **“Enduring Farmers’ Club Program in Tamil Nadu”**, In the International Conference on “Indian Economic Development: A Long Term Study since 1950” Ethiraj College for Women (Autonomous), Department of Economics – Chennai – 600008. **February 16 & 17, 2017.**

- 69 **“Commercialization of Agriculture”**, In the National Seminar on “Rural Infrastructure in India: Issues and Prospects.” Meenakshi College for Women (Autonomous), Department of Economics – Chennai – 600024. **November 25, 2016.**
- 68 **“Quick Study on Farmers Club Programme in Tamil Nadu”**, Pudukkottai Field Visit Presentation before NABARD Officials, NABARD, Regional Office, Chennai, **July 20, 2016.**
- 67 **“Status and Upkeep of Tank Irrigation in Tamil Nadu: With Special Reference to IAMWARM Project,”** In the “UGC-Special Assistance Program under National Programme”, Centre for Water Resources, Anna University, **March 23, 2016.**
- 66 **“In Search of Water Bodies: The Case of IAMWARM Project in Tamil Nadu,”** In the National Seminar on “Feckless Water Bodies Management: Impacts and Implications”, Dept. Of Economics, MSU, Tirunelveli, **March 21 & 22, 2016.**
- 65 (1): **“Falling Water Tables – Sustaining Agriculture: The Challenges of GW MGT in India”** and (2): **“GW Irrigation and Agrarian Change in the Lower Gangetic Plains: Explaining Different Development Trajectories between Bihar, West Bengal and Bangladesh” (Discussant).** In the (TNAU-INDAS International Conference) “Toward Sustainable Development of India and South Asia: Population, Resources, and Environment”, Kyoto University, Japan & TANU, Tamil Nadu, Golden Jubilee Hall, TNAU, Coimbatore, **March 1-2, 2016.**
- 64 **“Observation Method and Case Study Method,”** In the 10 Days Research Methodology Course for Ph.D. Students, Organised by the ICSSR & Muthurangam Govt. Arts College (Autonomous), PG & Research Dept. of Economics, Vellore **February 25, 2016.**
- 63 **“Sustainable Agriculture and Rural Development,”** In the International Conference Organised by Department of Social Work, Loyola College, Sponsored by UGC, Chennai **February 12-13, 2016.**
- 62 **“Best Managed Dry-Irrigated Agriculture: The Case of Parambikulam – Aliyar Project in Tamil Nadu,”** In the International Seminar on Agriculture and Rural India After Economic Reforms, Organised in Honour of Professor Venkatesh B. Athreya by PhD Students of Prof. V.B. Athreya, MSSRF - Chennai **January 29-30, 2016.**
- 61 **“South Indian Horticulture-Potentials and Challenges (Discussant),”** In the Workshop on Prospects for Agriculture in India’s Southern Region over the Medium Term: Setting an Agenda for Strategies to Meet Challenges, MIDS and FAO, Binny Hall, Taj Connemara, Chennai **January 21-22, 2016.**
- 60 **“Performance of Agriculture in Tamil Nadu and India a Macro Perspective: 1950-51 to 2009-10 with Focus on the Role of Irrigation,”** In the National

- Seminar on “Role of Public Policy in Devpt. Process (Emerging / Social Scenario in the Indian Economy)”, Sardar Patel Institute of Economic and Social Research, Ahmedabad, **January 4 & 5, 2016.**
- 59 **“Infrastructure and Economic Development with special reference to South India,”** In the Invited Seminar organised by the Kanchi Mamunivar Centre for Postgraduate Studies, Government of Puducherry, **Oct. 1, 2015.**
- 58 **“NABARD Impact Evaluation Study Results,”** In the **Presentation of Faculty Research**, MIDS, **Sept. 02, 2015.**
- 57 **“Skill Development and Self Employment: With Special Reference to Three South Indian States.”** In the International Seminar on **Social Sector Development: Issues, Challenges and Policy**, Organised by the Institute of Public Enterprise and the ICSSR, held at IPE, OU Campus, Hyderabad. **November 27-28, 2014.**
- 56 **“The Genesis of IAMWARM Project and Its Impact on Tank Economy in Tamil Nadu”.** In the **MIDS Faculty Seminar.** Chennai. **October 28, 2014**
- 55 **“Irrigated Agriculture in India: Productivity, Markets and Institutions.”** In the **Refresher Course in Economics**, sponsored by the University of Madras & Academic Staff College, held at Department of Economics, University of Madras. **September 13, 2014.**
- 54 **“Issues in Tank Governance, Conservation and Tank Resources.”** In **Vayalagam Mutual Movement**, sponsored by the DHAN Foundation, held in DHAN People Academy, Madurai. **June 17, 2014.**
- 53 **“Tank Irrigation in Tamil Nadu: Issues and Prospects.”** In **Water Challenges and Changing Role of Civil Society Organization in India**, sponsored by the Rotary International – Rotary Club of Manapparai, held in John Steven Hall, J J College of Engg. & Tech, Ammapettai, Trichy. **June 05, 2014.**
- 52 **“Sustainable Development of Agriculture in Tamil Nadu: With Special Reference to Irrigated Agriculture.”** In the **Refresher Course in Social Science Disciplines**, sponsored by the Madras School of Social Work & Academic Staff College, held at Madras School of Social Work, Egmore. **February 10, 2014.**
- 51 **“Sustainability of Groundwater Irrigation in Tamil Nadu.”** In the **National Groundwater Conference 2013**, sponsored by Water Technology Centre, held at Tamil Nadu Agricultural University Coimbatore. **December 9-11, 2013.**
- 50 **“Recession in Agriculture: Factors Responsible for its Declining Growth since the 1990s.”** In the **Refresher Course in Economics**, sponsored by the University of

- Madras & Academic Staff College, held at Department of Economics, University of Madras. **September 25, 2013.**
- 49 “Participatory Irrigation Management under Tanks: The Case of IAMWARM Project.” In the Madurai Symposium 2013 on **Governance for Advancing Development**, sponsored by the DHAN Foundation, held at Thamukkam Grounds, Madurai. **September 15, 2013.**
- 48 “*Crumbling Water Bodies and Weakening Tank Systems: The Case of IAMWARM Project.*” In the National Seminar on **Small Water Bodies in India: Status and Impact**, sponsored by the ICSSR, held at Alagappa University, Karaikudi. **September 11-12, 2013.**
- 47 “*Sustainable Development of Natural Resources: with Special Reference to Tanks of Tamil Nadu.*” In the Valedictory Function of Economic Association for 2012-2013 Academic Year, sponsored by **GURU NANAK COLLEGE, Department of Economics**, Velachery, **Chennai**, March 14, 2013.
- 46 “*The IAMWARM Project - Need of the Hour.*” In the Training Program to the Engineers of Project Management, Govt. of ODISHA, World Bank Aided Tank Development Project, sponsored by **MDPU, IAMWARM Cell, Change Management Division, GoTN**, Tourism Development Corporation Ltd, Hotel Tamil Nadu, **Mahabalipuram**, March 04, 2013.
- 45 “*Sustainable Development of Natural Resources: Air and Water – Part II.*” In the Training Program on Sustainable Development, sponsored by **Chennai Petroleum Oil Corporation Ltd, A Group Company of Indian Oil**, RESAT – 8, Seethammal Road, Alwarpet, **Chennai-18**, February 28, 2013.
- 44 “*Sustainable Development of Natural Resources: Air and Water – Part I.*” In the Training Program on Sustainable Development, sponsored by **Chennai Petroleum Oil Corporation Ltd, A Group Company of Indian Oil**, RESAT – 8, Seethammal Road, Alwarpet, **Chennai-18**, January 21, 2013.
- 43 “*Web Based Project Monitoring Information System.*” In the Workshop cum Training Program of ToT for TN-IAMWARM Project, sponsored by **SMEC India and MDPU, GoTN, Hotel Raj Park, Chennai**, January 24-25, 2012.
- 42 “*Water Resource Management: With Special Reference to PAP.*” In the National Conference on Mining of River Sand and Its Impacts on the Environment, sponsored by Department of Economics **Manonmaniam Sundaranar University, Tirunelveli**, March 10-11, 2011.
- 41 “*Irrigation Management and its Effect on Productivity under Parambikulam Aliyar Project in Tamil Nadu.*” In the National Conference on Food Security – Role of Policies, Optimum Use of Agricultural Inputs & Natural Resources, Organised by

- SAKET Projects Ltd., SAKET House, Panchaseel, Usmanpura, **Ahmedabad Management Association, Ahmedabad**, February 25-26, 2011.
- 40 “*Necessity of Public Participation in Water Resources Management.*” In the Two-day Sensitization Programme for Zonal Water Partners on Climate Induced Flood & Drought Mitigation and Management, Organised by India Water Partnership in Collaboration with ISID & NIDM, **Institute of Studies in Industrial Development, New Delhi**, December 21-22, 2010.
- 39 “*Watershed Management and Sustainable Agriculture: A Case Study from Sivagangai District.*” In the Regional Workshop on Artificial Recharge and Watershed Management, sponsored by Department of Geology, **Periyar University, Salem**, August 6, 2010.
- 38 “*Watershed Development and Decline of Rural Poverty: Case Studies from Sivaganga District.*” In the National Seminar on Irrigation Water Constraints and its Possible Impact on Rural Poverty, sponsored by Department of Rural Development, **Alagappa University, Karaikudi**, March 29-30, 2010.
- 37 “*Irrigation in Tamil Nadu: Problems and Prospects.*” In the National Conference on Interlinking of National Rivers: Impacts and Implications sponsored by Department of Economics, **Manonmaniam Sundaranar University, Tirunelveli**, March 18-19, 2010.
- 36 “*Ecological Sustainability and Development of Tank Irrigation: A Future Prospect.*” In the National Seminar on Ecosystem Based Watershed Development for Environmental Sustainability Organised by **DHAN Vayalagam (Tank) Foundation**, Madurai, September 15, 2009.
- 35 “*Irrigation Management and its Effect on Productivity under Parambikulam Aliyar Project in Tamil Nadu.*” In the 7th Annual Partners Meet, IWMI TATA Water Policy Research Program Organised by IWMI South Asia – Sub Regional Office, Hyderabad, **ICRISAT Campus**, Patancheru, Hyderabad. April 2-4, 2008.
- 34 “*Issues in Rehabilitation of Tanks for Irrigation*”. **Lecture II to Executive Engineers and Junior Engineers.** Organised by **National Water Academy**. Central Water Commission. Pune. Maharashtra. 6 March 2007.
- 33 “*Tank Irrigation in South India - an Overview*”. **Lecture I to Executive Engineers and Junior Engineers.** Organised by **National Water Academy**. Central Water Commission. Pune. Maharashtra. 6 March 2007.
- 32 “*Sustainable Development of Tanks in Tamil Nadu*”. In the National Workshop on Rejuvenating Tanks for Sustainable Livelihoods – Emerging Trends. Sponsored by **WWF – ICRISAT Dialogue Project, ICRISAT**, Andhra Pradesh. August 3-4, 2006.

- 31 “*Land and Water Productivity in Tank Irrigation: A Comparative Analysis*”. In the 5th Development Convention of ICSSR Institutions Located in South India. **Centre for Multi-Disciplinary Devpt. Research**, Dharwad, Karnataka. April 27-28, 2006.
- 30 “*Issues in Rehabilitation of Tanks for Irrigation*”. **Lecture II to Chief Executive Officers and Executive Engineers**. Organised by **National Water Academy**. Central Water Commission. Pune. Maharashtra. February 22, 2006.
- 29 “*An Overview of Tank Irrigation in South India*”. **Lecture I to Chief Executive Officers and Executive Engineers**. Organised by **National Water Academy**. Central Water Commission. Pune. Maharashtra. February 22, 2006.
- 28 “*Land and Water Productivity in Tank Irrigation: Some Methodological Issues*”. In the **MIDS Faculty Seminar**. Chennai. December 7, 2005
- 27 “*Decline of Tank Irrigation in Tamil Nadu: Causes and Consequences*”. In **The Political Economy of Drought and Deterioration of Tank Irrigation in Rayalaseema**. UGC’s National Seminar. P V K N Govt. College **Chittoor**, Andhra Pradesh. October 26-27, 2005.
- 26 “*Traditional Irrigation Management under Tanks: with Special Reference to Mamulnamas*”. In the **National Workshop on “Traditional Wisdom in Water Management”** Indian Council for Water & Culture, Aurangabad. Maharashtra Engineering Research Institute, **Nashik** Maharashtra. October 15-16, 2005.
- 25 “*Farm Level Land and Water productivity in Tank Irrigation: Some Methodological Issues*”. In **India’s Water Economy: Bracing up for a Turbulent Future**. IWMI-TATA Water Policy Program. **Anand**, Gujarat, February 24-26, 2005. (Preliminary Findings).
- 24 “*Decline of Tank Irrigation in Tamil Nadu? Causes and Consequences*”. In the **National Seminar on “Sustainable Water Management”** Agro-Economic Research Centre, University of Madras, **Chennai**. September 1-2, 2004.
- 23 “*Efficiency of Water Use in Indian Agriculture*”. In the **MIDS Monthly seminar**. Chennai. 16 March 2004.
- 22 “*Irrigation Management under Traditional Tank Irrigation Systems: A Case Study under the PAS*”. In **Traditional Technologies under Ponds/Tanks Infrastructure**. DHAN Foundation. Madurai. 17-18 January 2004.
- 21 “*In Search of Irrigation Institutions: Need for Revival*”. In **62nd Annual Conference of Indian Society of Agricultural Economics**. Indian Agricultural Research Institute. **New Delhi**. 19-21 December 2002.

- 20 “Benefit-Cost Assessment: A Framework for Training ICZM”. **Integrated Coastal Zone Management (ICZM) Workshop**. Anna University - Institute for Ocean Management. Chennai. 28 November 2002.
- 19 “Stakeholder Analysis: A Framework for Training ICZM”. **Integrated Coastal Zone Management (ICZM) Workshop**. Anna University - Institute for Ocean Management. Chennai. 27 November 2002.
- 18 “Preparation of MANUAL for ICZM Training Programme”. Jointly Organized by the **Department of Marine Sciences and Coastal Management, University of Newcastle and Anna University**- Institute for Ocean Management. Chennai. Held at **VAIZAG** (Andhra Pradesh). 12-23 November 2002.
- 17 *Strategy for Development of Watersheds in Tamil Nadu*". In **National Workshop on Watershed Management Strategies: A New Outlook for 21st Century**. Water Technology Centre. Coimbatore 28-30 November 2001.
- 16 *Identification and Evaluation of Coastal Areas*". In **ICZOMAT Training Programme**. Anna University - Institute for Ocean Management. Chennai. 7 November 2001.
- 15 Participated in ‘*Training-of-the-Trainers (TOT) Program*’ on Integrated Coastal Zone Management and Training (ICZOMAT). Sponsored by the **Department of International Development, U.K. Anna University - Institute for Ocean Management**. Chennai. 4-7 September 2001.
- 14 Sustainable Development and Management of Small Water Bodies in India with reference to Tamil Nadu”. **MIDS Monthly Seminar**. Chennai. 23 August 2001.
- 13 Attended in “*Dialogue on Development & Administrative Reforms*”. Organised by the **State Organising Committee Republic - 50 Celebrations**, Department of Culture, Government of India. ICSA Programme Centre and Guest House. Chennai. 30 March 2001.
- 12 “*Alapakkam - A Resurvey*”. In Village Studies Workshop. Sponsored by **Kerala Research Programme on Local Level Development**. MIDS. Chennai. 17-18 March 2001.
- 11 “*Maintenance of Age-old Tank Irrigation System*”. In State-level Consultation on **Status of Water Bodies in Tamil Nadu**. Madras School of Social Work. Chennai. 31 August – 1 September 2000.
- 10 Attended the International Workshop on the common methodology for the IDRC (International Development Research Centre) Phase II Project (Local Options for Water Supply and Conservation Management). **Nepal Water Conservation Foundation. Kathmandu**. 14 - 20 May 2000.

- 9 "Governance and Institutional Reforms: An Historical Approach". In National Seminar on **Integrated Water Resource Management: A Way Forward**. Department of Sociology. University of Madras. Chennai. 23 - 24 March 2000.
- 8 Attended the Third Meeting **Net Working Institutions Engaged in Rain fed Tank Management**. Water Technology Centre. Coimbatore. 10 September 1997.
- 7 "*Tanks in the Periyar-Vaigai Basin: An Analytical Note*". In State Level Seminar on **River Basin Planning - Periyar Vaigai in 2025**. Irrigation Management Training Institute. Tiruchirappalli. 3 - 4 April 1997.
- 6 "*Irrigation Institutions in Two Large Multi-Village Tanks in Tamil Nadu*". In the Seminar **Conservation and Development of Tank Irrigation for Livelihood Promotion**. "PRADAN". Madurai. 12 July 1996.
- 5 *Water Allocation and Management Under Large Tanks in Tamil Nadu: With Special Reference to Mamulnamas*". In **2nd Congress on Traditional Sciences and Technologies of India**. Anna University. Madras. 26 - 31 December 1995.
- 4 *Maintenance of Traditional Tank Irrigation Systems: Case of Kaveripakkam and Dusi-Mamandur Tanks*". In the **Proceedings of the National Workshop on Traditional Water Management for Tanks and Ponds**. Centre for Water Resources and Ocean Management. Anna University. Madras. 14 - 15 Sept. 1995.
- 3 "*Tank Irrigation Management Under Different Conditions: Study of Two Large System Tanks in Tamil Nadu*". In International Conference on **The Political Economy of Water in South Asia: Rural and Urban Action and Interactions**. MIDS. 5-8 Jan. 1995.
- 2 "*Organisational Structure and Functioning of Two Large Irrigation Tanks in Tamil Nadu*". In the **Seminar on Farmers Participation in Managing Irrigation Systems**. Irrigation Management Training Institute. Tiruchi. 23 - 24 Dec.1991.
- 1 "*Methodology Paper on Tank Water Management*". In **Research Scholars' Workshop**. Osmania University Campus. Hyderabad. 16 - 19 October 1989.

14 OTHER ACADEMIC AND PUBLIC ACTIVITIES

- 27 Conducted PhD Public Viva Voce Examination of the Thesis, "Impact of Mahatma Gandhi National Rural Employment Guarantee Act (MGNREGA) on Rural Livelihood – A Study with Special Reference to Kancheepuram District." Department of Economics, D.R.B.C.C.C. Hindu College, Pattabiram, Chennai – 600072. 12.04. 2019.

- 26 Selection Committee Member - as Subject Expert in Economics for the Academic Year 2019-20 – to select candidates through the Interview Committee held on 10.04.2019. D.R.B.C.C.C. Hindu College, Pattabiram, Chennai – 600072.
- 25 Selection Committee Member for SAWA (Saci Waters) Phase II Fellows. Selection of 3 Saci/Waters Fellows. Centre for Water Resources, AU, Chennai. 12.11.2018.
- 24 Conducted Viva-voce Exam of **Nine** M.E. Part II Reports in Integrated Water Resources Management, Centre for Water Resources, Department of Civil Engineering, **Anna University, Chennai** 600 025. 7 June 2018.
- 23 Guidance of Two Intern B.A. Students from Kerala on “A Study on Agriculture in Elangulam Village, Kottayam District, Kerala”. 10 May 2018.
- 22 Review of the Paper for Journal of Social and Economic Studies, “History of Reclaimed Kayals in Kuttanad and Associated Social Divide in Alappuzha District, Kerala”. AN Sinha Institute of Social Studies, Patna, 14 April 2018.
- 21 Review of the Paper for E&PW, “Payment for Ecosystem Services to sustain Kudimaramathu in Tamil Nadu” by L. Venkatachalam and Kulbhushan Balooni, Vol LIII No. 6. 10 February 2018, pp. 21-23.
- 20 Review of the Paper for E&PW, “Kudimaramathu – “Tamil Nadu Revives Kudimaramathu – Ancient Wisdom of Water Management” by S. Rajendran, Vol LIII No. 6. 10 February 2018, pp. 18-20.
- 19 Review of the Paper for Journal of Social and Economic Studies, “Land Reforms in Bihar in 21st Century Rhetoric Versus Reality”. AN Sinha Institute of Social Studies, Patna, 05 February 2018.
- 18 Conducted PhD Public Viva Voce Examination of the Thesis, “Water Uncertainty and Changing Land Relations: A Study in the Cauvery Delta of Tamil Nadu, India.” Post-Graduate and Research Department of Economics, Periyar E.V.R. College (Autonomous), Tiruchirappalli, 20 December 2017.
- 17 Conducted Viva-voce Exam of **Nine** M.E. Part I Reports in Integrated Water Resources Management, Centre For Water Resources, Department of Civil Engineering, **Anna University, Chennai** 600 025. 11 December 2017.
- 16 Selection Committee Member for SAWA Phase II Fellows. Selection of 3 Saci/Waters Fellows. Centre for Water Resources, AU, Chennai. 27.11.2017.
- 15 Review of the Paper for Journal of Social and Economic Studies, “Land, Caste and Gender in Tamil Nadu and Madhya Pradesh”. AN Sinha Institute of Social Studies, Patna, 05 August 2017.

- 14 Commented on the Report, “Water for Public Good” – Comments on Third Journey Report, titled, “Understanding and Practice of Water for Livelihoods, Primarily in Agriculture and Allied Areas”, **Hindustan Unilever Foundation (Ltd), Unilever House, Mumbai**. 04 April 2016.
- 13 Evaluation of M.Phil. Dissertation. “Trends and Pattern of Foreign Direct Investment Inflows and Outflows from India.” **Dept. of Economics, Kanchi Mamunivar Centre for P.G. Studies, Puducherry**. 11 February 2016.
- 12 Conducted PhD Public Viva Voce Examination of the Thesis, “Labour Migration in Agricultural Sector in Sankarapuram Taluk of Villupuram District, TN.” Department of Post-Graduate and Research Studies in Economics, Presidency College, Chennai, 19 June 2015.
- 11 Conducted Viva-voce Exam of **Nine** M.E. Reports in Integrated Water Resources Management, Centre for Water Resources, Department of Civil Engineering, **Anna University, Chennai 600 025**. 03 June 2015.
- 10 Conducted PhD Public Viva Voce Examination, “A Study on Socio-Economic Conditions of Sanitary Workers in Tamil Nadu – With Special Reference to the Chennai Corporation.” Department of Post-Graduate and Research Studies in Economics, Presidency College, Chennai, 11 February 2015.
- 9 Conducted PhD Public Viva Voce Examination, “Impact of Poverty Alleviation Programmes on the Levels of Living of Scheduled Castes in Tamil Nadu – A Case Study of Vellore District.” Department of Post-Graduate and Research Studies in Economics, Presidency College, Chennai, 31 December 2014.
- 8 **Four lectures** to the Newly Recruited Ph.D. Scholars (2013-14 batch) of the MIDS as a **Ph.D. Course Work** in March 2014.
- 7 Conducted Ph D Public Viva Voce Examination. “A Study on the Socio-Economic Conditions of Narikuravas: With Special Reference to Tiruvannamalai District, Tamil Nadu.” Department of Post-Graduate and Research Studies in Economics, Presidency College (Autonomous), Chennai, 10 January 2014.
- 6 **Three lectures** to the Newly Recruited Ph.D. Scholars (2012-13 batch) of the MIDS as a **Ph.D. Course Work** from February to April 2013.
- 5 Evaluation of **Six** M.E. Phase I Reports in Integrated Water Resources Management, Centre for Water Resources, Department of Civil Engineering, **Anna University, Chennai 600 025**. December 2010.

- 4 Evaluation of M.Phil. Dissertation. "A Study on the Progress of Agricultural Credit in Karaikkal District." **Kanchi Mamunivar Centre for P.G. Studies, Puducherry.** 18 January 2010.
- 3 Conducted Ph D Public Viva Voce Examination. "Water Pricing for Irrigation – A Case Study of Madurantakam Tank." Department of Economics. University of Madras 19 March 2008.
- 2 Worked in a Collaborative Research Project in the **IWMI-Tata Water Policy Program** on "Efficiency of Water Use in Tank Commands in the Palar Basin". One year from June 2004-05.
- 1 Evaluation of M.Phil. Dissertation. "A Study of Solar Appliances and their Utilisation in the Union Territory of Pondicherry". **Kanchi Mamunivar Centre for P.G. Studies. Pondicherry.** 19 November 2003.

15 GUIDING (SUPERVISING) PH.D. SCHOLARS IN MIDS

RECOGNITION OF GUIDESHIP: As per the University of Madras Letter (Ref. No: D2 / Ph.D. / Guideship / A.S.O.III / MIDS / Chennai/ 11 / 2002) dated 18 November 2002 to the Director MIDS, I have been recognized as a Supervisor for guiding candidates leading to Ph.D. Degree of this Madras University. As per regulations V (b) governing the Ph.D. Degree, the total number of candidates registered for the Ph.D. Degree under a guide is EIGHT in the case of research Institutes.

Ph. D Candidates Worked in MIDS under My Guidance as Full Time Scholars:

1 Mr. D. Yeswanth (University of Madras Ref. No. 32 / Ph.D. /D2 / 2004 / April / F.T/ 886 dated **9 Aug 2004**). He joined as a Ph.D. Scholar in MIDS in January 2004 and relieved of in **June 2004** to join Fellow Programme in Rural Management in the Institute of Rural Management. Anand, Gujarat.

2 Mr. V. Gandhiraj (University of Madras Ref. No. 32 / Ph.D. /D2 / 2005 / F.T/ Col. / January 2005 / 3909 dated **23 April 2005**). He joined as a Ph.D. Scholar in MIDS in April 2005. He worked in the Institute for his Ph.D. topic, "Changing Phase of Irrigation Tanks in Tamil Nadu: with Special Reference to Chembarampakkam Tank" **till April 2012**. After

that he got a permanent job in Co-operative Bank in his native district. As a result, he discontinued from the research program in 2012.

3 In the Academic Year 2014-15, in the MIDS Ph.D. Scholars selection, I have been allotted two ICSSR - Ph.D. Scholars for guidance. They are pursuing their research in the following research topics:

- a. G. Elayaraja: *A Study of Rural Non-farm Employment in India with Special Reference to Tamil Nadu.*
- b. K. Sankara Pandi: Migration and Urbanization: A Study on Impact of the People and their Economic Activity.

4. From the academic year 2015-16, I have been guiding the part-time PhD scholar, Mr. V. Jegatheesan, (Asst. Director, Directorate of Census Operation, Tamil Nadu), on his topic titled, "Peri-Urban Development and Sustainability: The Case of Chennai City in Tamil Nadu." He has completed his registration for PhD with the University of Madras.

16 FIELD EXPERIENCE

M A study sponsored by NABARD under the title, "Impact Evaluation Study in Respect of Rural Drinking Water Supply Project Assisted under RIDF in Tamil Nadu" was taken up by MIDS. NABARD has been extending financial support to state governments under Rural Infrastructure Development Fund (RIDF), towards promotion of piped drinking water connection facility in rural households For this project purpose, four Combined Water Supply Systems (CWSS) with the focus on covering socio economic benefits accrued to rural households in the respective schemes of these projects, spread over in four districts viz., Virudhunagar, Madurai, Pudukkottai and Coimbatore have been studied.

While the importance of promotion of drinking water scheme towards enhancing the quality of human life, aided with the government policy support and huge

RIDF assistance is well recognized from growth perspectives on the one hand, it is equally significant to evaluate the socio economic impact of these investment on the quality of the outcome of the drinking water scheme on the living standard of rural people (both tangible and intangible benefits) from development perspectives on other hand towards fulfillment of the purpose of the scheme as conceived in policy measures. Hence there is a need for the study to focus on social welfare policy, demographic behavior and the issue related to standard of living with a common understanding of how policy and socio-economic forces affect individual decision making and wellbeing of the members in the family.

In the 4 sample districts, of the total 4783 rural habitations benefitted by the project, 1 % of habitations accounting 48 habitations are covered for evaluating the implementation of the drinking water scheme. In the 4 project areas, 400 households, each one having 100 sample HHs, are interviewed for eliciting their views on the tangible and non-tangible benefits accrued from the projects. As a Principal Investigator, I have also made overall field supervision for this project. One of the main results of the study is accessibility of **combined drinking water supply** scheme and local groundwater supply for drinking purpose is distributed in the following ratio: **litres per capita daily norm 40 (lpcd)**: 1. Virudhunagar **30:10**. 2. Madurai **30:10**. 3. Pudukkottai – in 3 blocks it is **20:20** and in 5 blocks it is **30:10**. 4. Coimbatore **40:0**. No groundwater supply is possible in Coimbatore.

- L As a NABARD sponsored project, a quick study on “**Farmers’ Club Programme in Tamil Nadu**” was undertaken in 2016. NABARD has been supporting FCP through various facilitating agencies viz., Banks, KVKs ATMA, NGOs, Agricultural universities, Federations and others for making collective efforts for adoption of technology, access to market information and credit. Besides rural branches of commercial banks, Regional Rural Banks and Primary Agricultural Cooperative Societies (PACS) are also actively participating in FCP. As on June 2016, there are 8190 FCs in Tamil Nadu. Reportedly the functioning of the FCs is better with a good number of successful clubs in Tamil Nadu.

Since the collective strength of FCs at federation/cluster level provides potential for upscaling FCs into FPO/FPC, a probe into the nature and extent of attributes that cause dormancy in FC system has become necessary to work out strategy for facilitating their rejuvenation. It is therefore, the study assumed importance as the findings would help in appreciating the ground level complexities found in the implementation process of FCP and also functioning of FPO as an aggregator in terms of new policy on FCP and gain experience for improvising the process. Ultimately field observation and critical intervention identified in the study would facilitate redesigning the policy guidelines on FCP. As a part of this study 4 districts such as 1. Villupuram. 2. Tirunelveli. 3. Karur, and 4. Pudukkottai were taken up to study 8 farmers' clubs, two each in each sample districts, out of 1085 registered in the 4 districts. I worked as the Principal Investigator of this project.

K I have done a field survey with two research staff for a project titled, **“Structure, Functioning and Impact of Irrigation Institutions: The Case of Tank Irrigation in Tamil Nadu”** funded by the ICSSR, New Delhi. The study has involved the following process: (1) Secondary data relating to the entire Palar Anicut System (PAS) over a period of 111 years (1905-2017) were collected and analysed. (2) With the help of the secondary data, two major system tanks such as Kaveripakkam tank (KPT) which irrigates about 2370 hectares in 14 revenue villages and Dusi-Mamandur tank (DMT) that serves about 1670 ha in 18 revenue villages, have been selected purposively for an in-depth study among the 317 tanks served by the Palar Anicut System.

After the aforesaid basic process, the sampling details of the project was finalised. In the two sample tanks, initially a first round general village level survey in all the 32 villages in both the tanks was conducted and based on that 9 sample villages have been finalised for an in-depth study. The next step was based on the schedules prepared for enquiry at two levels. One in the 9 sample

villages (Kaveripakkam Tank 5 villages and Dusi-Mamandur Tank 4 villages), and two, 216 sample farmer households were interviewed. In each sample village, 24 sample farmers viz., head reach of the village 8 farmers, tail reach of the village 8 farmers and well farmers 8 in the entire sample village have been interviewed. Following the process, the sample village level survey and the farmer household level survey in the nine sample villages has been completed and the project report was submitted in June 2018. Also, the revised version of the report is planned for a publication of book in the early 2020.

J From January to September 2015, I had fully involved in the NABARD Sponsored “**Infrastructure Structure Development Fund**” (RIDF) Impact Evaluation Project study conducted in 31 districts (except Chennai) in Tamil Nadu. The Project was evaluated in the agriculture (Irrigation) and Connectivity (Road and Bridge) sector works carried out in tranches 14, 15 and 16 related to the years 2009-10, 2010-11 and 2011-12 respectively. Altogether 204 samples have been covered (Road 141; Bridge 54 and Irrigation 9) during the intensive field survey conducted from March to May 2015. A team of seven members worked in the project including two senior consultants. Apart from organizing the project activities, I also participated in many of the filed works in several districts, in which all nine sample irrigation works have been independently surveyed and completed. The final report was submitted to NABARD in October 2016.

I From April 1, 2011, I have been involved in the World Bank Funded “**IAMWARM (Irrigated Agriculture Modernization and Water Bodies Restoration and Management)**” Project as an M&E (Monitoring & Evaluation) Consultant through SMEC (Snowy Mountains Engineering Corporation) International – who took this M&E Project from the Govt. of Tamil Nadu to evaluate the performance of the IAMWARM Project work carrying out by the eight line departments such as 1 Water Resources, 2 Agriculture, 3 Agricultural Engineering, 4 Agricultural Marketing, 5 Animal Husbandry, 6 Horticulture, 7 Tamil Nadu Agricultural University and 8 Fisheries. The objective of the project is to get more income per drop of water in agriculture. The eight line departments have been involved to work together to fulfill

the objective. There are 4918 PWD tanks taken up for rehabilitation through this project with the World Bank Funding of about Rs. 2200 crores. The project period is for 7 years from April 1, 2007 to June 30, 2014. The SMEC M&E team's main job is to evaluate the performance of the 8-line department's activities to cope with the indicators based project objective. For this purpose, we have evolved a sampling technique to monitor the progress and impact of the works carried out in 141 Project Sample tanks throughout the state of Tamil Nadu, which covers 63 sub-basins located in 24 districts. I have been working as an **M&E Specialist** and the **Deputy Team Leader of the Project** from April 1, 2011. In March 2013 the M&E Consultancy have completed the M&E concurrent monitoring survey in all the 141 project sample tanks and prepared Monthly, Quarterly, Six-monthly and Annual Reports submitted to the MDPU (**Multi-Disciplinary Project Unit**) headed by the Senior IAS Officer of the Govt. of Tamil Nadu.

- H From August 2005 to June 2013 submitted 3 **CAPART** project reports (Government of India), 6 **IWDP** commissioned project reports and 14 **DPAP** commissioned project reports (Government of Tamil Nadu). All these reports were based on field observations extended from one to two weeks each.
- G Conducted the field survey over six months (June to December 2006) along with two field assistants in 12 distributaries out of 103 in the Parambikulam-Aliyar Project (PAP) Command in Coimbatore District during the year 2006. This survey covers around 700 PAP sample farmers located in 100 sample blocks in 40 revenue villages in four taluks of Pollachi, Udumalpet, Palladam and Tirupur. This project titled, "**Management of Irrigation and Its Effect on Productivity in the Parambikulam-Aliyar Project Command in Tamil Nadu – A Resurvey**" was sponsored by the ICSSR, New Delhi. The PAP irrigation is one of the best Managed systems in South Asia.
- F Conducted the field survey along with Field Assistant in seven tanks in the Cheyyar Basin as part of the study required for the IWMI Collaborative Project titled, "Farm Level Land and Water Productivity in Tank Irrigation". Sponsor: **IWMI-TATA Policy**

- Research Programme, Gujarat, India.** For this project, farmers' interviews were conducted during October-December 2004 and the report has been published as a working paper in September 2005. No. 194.
- E Conducted the field survey independently (as a Project Associate) for the project "A Study of Changes in Selected Villages in Tamil Nadu". Sponsor: **Kerala Research Programme on Local Level Development.** For this project, a village resurvey was conducted during August-September 2000 and the report has been published as a working paper in August 2002. No.173.
- D Conducted the **preliminary field survey** independently (as a Project Associate) in 41 villages for the project "*Local Options for Water Supply and Conservation Management - Conflicts in Ground Water Management in Tamil Nadu*" (phase I) in the **Noyyal River Basin** during April-June 1998. A **detailed farm level survey** of 180 well farmers was conducted in 4 sample villages during Dec.-May 1998-9.
- C A detailed secondary data collection for the three tank - intensive States of **Andhra Pradesh, Karnataka and Tamil Nadu** was carried out during 1994. Also conducted a field survey independently (as a Project Associate) in the **Periyar-Vaigai Basin**, (16 system and 21 non-system tanks), for the project "*Small Water Bodies*" in Madurai, Sivagangai and Ramanathapuram districts during 1995.
- B Conducted an intensive field survey independently (as a Research Scholar) in different phases for nearly two years for Ph.D. Programme in the two major system tanks of **Kaveripakkam and Dusi-Mamandur in the Palar Basin** in Vellore and Thiruvannamalai districts between 1990 and 1992.
- A Worked (as a Field Investigator) in the Central Planning Commission Project during 1986-87. I was involved in the field survey in the **Parambikulam Aliyar Project in Udumalpet region** in Coimbatore district.

ADDRESSES OF REFEREES**Prof. K. Palanisami, Ph.D., P.Doc (USA), FNAAS**

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