



Dr. A. Narayanamoorthy

Professor and Head

Contact

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Academic Qualifications: M.A., M.Phil., Ph.D., (all in Economics)

Teaching Experience: 25 Years

Research Experience: 25 Years

Additional Responsibilities

1. Syndicate Member, Alagappa University, Karaikudi, Tamil Nadu.
2. Member, Planning Board, Alagappa University, Karaikudi, Tamil Nadu.
3. Member, Finance Committee, Alagappa University, Karaikudi, Tamil Nadu.
4. Member Senate, Alagappa University, Karaikudi, Tamil Nadu.
5. Dean, Faculty of Arts (November 1, 2012 to November 4, 2015), Alagappa University, Karaikudi, Tamil Nadu.
6. Member, Standing Committee, Alagappa University, Karaikudi, Tamil Nadu.
7. Member, Research Advisory Committee, Alagappa University, Karaikudi, Tamil Nadu.
8. Chairman, Board of Studies, Department of Economics and Rural Development, Alagappa University.

Areas of Research

Agricultural Economics, Benefit-Cost Analysis of Agricultural Projects, Economics of Irrigation Water including Micro-Irrigation, Economics of GM Crops, Evaluation Studies in Agriculture and Rural Economics, Policy Issues in Agriculture, Profitability in Agriculture, Rural Indebtedness and Watershed Development.

Research Supervision / Guidance

Programme of Study		Completed	Ongoing
Research	Ph.D.	04	04
	M.Phil.	11	06
Project	PG	40	04
	UG / Others	--	--

Publications

International		National		Books	Others
Journals	Conferences	Journals	Conferences		Chapters / Monographs / Manuals
24	18	148	90	09	14

Cumulative Impact Factor	:	279.52
h-index	:	24
i10 index	:	48
Total Citations	:	1996

Funded Research Projects

Completed Projects

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1	NABARD, Mumbai	2011	2016	NABARD Chair Professor Scheme	100.60
2	ICRISAT, Hyderabad	2014	2015	Micro-irrigation and Social Safety Net Nexus in Semi-Arid Tropics of India	3.52
3	ICRISAT, Hyderabad	2012	2015	Impacts of MGNREGA on Rural Wage Rate Structures across 500 Districts and 18	5.72

				States of India	
4	ICSSR, New Delhi	2012	2014	Economic and Resource Impact of System of Rice Intensification: An Empirical Study of South India	8.09
5	International Water Management Institute, Colombo, Sri Lanka.	2010	2012	Financial Performance of India's Irrigation Sector: A Macro-level Analysis	4.50
6	International Water Management Institute, Colombo, Sri Lanka.	2007	2009	Losers and Gainers of Groundwater Irrigation Development: An Empirical Study from Peninsular India	5.50
7	International Water Management Institute, Colombo, Sri Lanka.	2007	2008	Water Saving Technology (Drip) As an Option for Managing Irrigation Water Demand: Potentials, problems and prospects	1.00
8	International Water Management Institute, Colombo, Sri Lanka.	2006	2007	Maharashtra's Irrigation Sector: Turnaround in Financial Recovery	1.00
9	International Water Management Institute, Colombo, Sri Lanka.	2005	2006	Potential for Drip and Sprinkler Irrigation in India	1.00
10	Ministry of Agriculture, Government of India, New Delhi.	2004	2005	Economic Analysis of Bt Cotton Cultivation in Maharashtra	All expenditures including my salary
11	National Bank for Agriculture and Rural Development	2004	2005	Economics of Bt Cotton Cultivation in Maharashtra	3.50

	(NABARD), Mumbai.				
12	National Bank for Agriculture and Rural Development (NABARD), Mumbai.	2003	2004	Efficiency of Irrigation: A Case of Drip Irrigation	0.75
13	Planning Commission, Government of India, New Delhi.	2002	2004	Irrigation Sector for Maharashtra Development Report	24.0
14	Ministry of Agriculture, Government of India, New Delhi	2002	2004	Agricultural Policy in Maharashtra: A Policy Matrix	All expenditures including my salary
15	Ministry of Agriculture, Government of India, New Delhi.	2001	2003	Agricultural Input Subsidies in Maharashtra: Quantum of Subsidies to SC/ST Farmers	All expenditures including my salary
16	International Water Management Institute, Colombo, Sri Lanka.	2000	2002	India Irrigation Impact Study: An Aggregate Level Analysis	10.0
17	Ministry of Agriculture, Government of India, New Delhi.	2001	2003	Water Resources and Irrigation Development in India	6.0
18	Ministry of Agriculture, Government of India, New Delhi.	1999	2001	Impact of Drip Irrigation on Sugarcane Cultivation in Maharashtra	All expenditures including my salary
19	Ministry of Agriculture, Government of India, New Delhi.	1999	2000	Rapid Impact Evaluation of NWDPRAs in Maharashtra	All expenditures including my salary

20	Ministry of Agriculture, Government of India, New Delhi.	1997	1999	Evaluation of Management of Seed Supply in Oilseeds and Pulses in Maharashtra	All expenditures including my salary
21	Ministry of Agriculture, Government of India, New Delhi.	1997	1999	Impact of National Watershed Development Project for Rainfed Areas (NWDPR): An Analysis across States	All expenditures including my salary
22	Ministry of Agriculture, Government of India, New Delhi.	1996	1998	Economics of Pulses Production and Identification of Constraints in Raising Their Production in Maharashtra	All expenditures including my salary
23	Ministry of Agriculture, Government of India, New Delhi.	1995	1997	Economics of Drip Irrigation: A Comparative Study of Maharashtra and Tamil Nadu	All expenditures including my salary
24	Gokhale Institute of Politics and Economics, Pune.	1996	1997	Electricity Use in Indian Agriculture: Trends and Determinants	Institute Project
25	Second Irrigation Commission, Government of Maharashtra, Mumbai.	1996	1997	Issues Before the Second Irrigation Commission of Maharashtra	1.00
26	Ministry of Agriculture, Government of India, New Delhi.	1995	1996	Evaluation of Drip Irrigation System in Maharashtra	All expenditures including my salary
27	Ministry of Agriculture, Government of India, New Delhi.	1994	1995	Evaluation of the Implementation of the Central Sector Scheme on Promotion of Agricultural Mechanisation in Maharashtra	All expenditures including my salary

Ongoing Projects

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1	JISL, Jalgaon. Maharashtra	2017	2019	Drip Irrigation, Energy Use and CO2 Reduction Nexus: An Empirical Analysis from Tamil Nadu, India	6.93
2					

Consultancy Projects

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1	ICRISAT, Hyderabad	2014	2015	Micro-irrigation and Social Safety Net Nexus in Semi-Arid Tropics of India	3.52
2	ICRISAT, Hyderabad	2012	2015	Impacts of MGNREGA on Rural Wage Rate Structures across 500 Districts and 18 States of India	5.72
3	International Water Management Institute, Colombo, Sri Lanka.	2010	2012	Financial Performance of India's Irrigation Sector: A Macro-level Analysis	4.50
4	International Water Management Institute, Colombo, Sri Lanka.	2007	2009	Losers and Gainers of Groundwater Irrigation Development: An Empirical Study from Peninsular India	5.50
5	National Bank for Agriculture and Rural Development (NABARD), Mumbai.	2004	2005	Economics of Bt Cotton Cultivation in Maharashtra	3.50

Others (Research Collaboration with other Institutes)

1. Research collaboration with International Centre of Water for Food Security, Charles Sturt University, Wagga Wagga, NSW 2678, Australia.
2. Research collaboration with International Water Management Institute, Colombo, Sri Lanka.
3. Research collaboration with Institute for Social and Economic Change, Bangalore.
4. Research collaboration with Institute for Resource Analysis and Policy (IRAP), Hyderabad.

5. Research collaboration with International Crops Research Institute for Semi-Arid Tropics (ICRISAT), Hyderabad.
6. Research collaboration with Madras Institute of Development Studies, Chennai.

Distinctive Achievements / Awards

1. Received Alagappa Excellence Award for Research for the year 2015-16 for significant contribution to research and teaching with the citation and cash prize of Rs.15,000/. This prize was awarded at the Founder's Day Celebration, Alagappa University, Karaikudi, on April 6, 2016.
2. Received the prestigious Professor Ramesh Chandra Agrawal Award of Excellence, with a cash prize, for the outstanding contribution in the field of agricultural economics for the year 2009. This biennial award is instituted by the Indian Society of Agricultural Economics, Mumbai, to an Indian author who has made significant outstanding contribution to the theoretical or empirical studies in field of agricultural economics.
3. Awarded NABARD Chair Professor Position (on September 3, 2010) by the National Bank for Agriculture and Rural Development, Mumbai, India, which is one among the five Chairs selected at the National level.
4. Honorary International Researcher, Centre for Comparative Water Policies and Laws, School of Commerce, University of South Australia, Adelaide (see: <http://www.unisa.edu.au/waterpolicylaw/profiles/intlresearchers.asp>).
5. Executive Committee Member, Indian Society of Agricultural Economics, Mumbai.
6. Executive Committee Member, Indian Society of Agricultural Marketing, Nagpur.
7. Member, Editorial Committee, Indian Journal of Agricultural Economics.
8. Vice-President, Indian Society of Agricultural Economics, Mumbai.
9. Member, Sub-group of the Committee on Statistics of Agriculture and Allied Sectors, Ministry of Statistics and Programme Implementation, Government of India, New Delhi.
10. Member, Working Group on Terms of Trade between the Agriculture and Non-Agriculture Sectors, Ministry of Agriculture, Government of India, New Delhi.
11. Member, sub-committee on 'Irrigation - Minor Irrigation, Tank and Canal Irrigation' which is part of the "Commission on Inclusive and Sustainable Agriculture Development of Andhra Pradesh" constituted by the Government of Andhra Pradesh, Hyderabad.

Events organized in leading roles

Number of Seminars / Conferences / Workshops / Events organized: 11 (only at Alagappa University)

1. Seminar on "Foodgrains Production in India: Problems and Prospects" organised to commemorate the World Food Day 2011 by the Department of Economics and Rural Development, Alagappa University, Karaikudi, Tamil Nadu, on October 11, 2011.

2. National Seminar on the “Role of Cooperatives in Agricultural Development”, organised to commemorate the World Food Day 2012 by the Department of Economics and Rural Development, Alagappa University, Karaikudi, Tamil Nadu, on October 16, 2012.
3. National Seminar on “Small Water Bodies in India: Status and Impact” (sponsored by ICSSR, New Delhi), Department of Economics and Rural Development, Alagappa University, Karaikudi, Tamil Nadu, during September 11-12, 2013.
4. Seminar on “Sustainable Food Systems for Food Security and Nutrition” organised to commemorate the World Food Day 2013 by the Department of Economics and Rural Development, Alagappa University, Karaikudi, Tamil Nadu, on October 18, 2013.
5. Organised Special Lectures Programme (under the Foreign Professor Visiting Programme on: “Impact of MGNREGS on Wage and Agriculture in India” and “Methodological Issues of Evaluation Studies”, Department of Economics and Rural Development, Alagappa University, Karaikudi, Tamil Nadu, during April 10-11, 2014.
6. Seminar on “Family Farming: Feeding the World, Caring for the Earth”, organised to commemorate the World Food Day 2014 by the Department of Economics and Rural Development, Alagappa University, Karaikudi, Tamil Nadu, on October 16, 2014.
7. Seminar on "Nobel Prize in Economics, 2014", Department of Economics and Rural Development, Alagappa University, Karaikudi, Tamil Nadu, on March 27, 2015.
8. Seminar on “Social Protection and Agriculture: Breaking the Cycle of Rural Poverty” organised to commemorate the World Food Day 2015 by the Department of Economics and Rural Development, Alagappa University, Karaikudi, Tamil Nadu, on October 16, 2015.
9. Workshop on “Dissemination of Census Data 2011” sponsored by the Directorate of Census Operations (Tamil Nadu), Ministry of Home Affairs, Government of India, New Delhi, organised by the Department of Economics and Rural Development, Alagappa University, Karaikudi – 630 003, Tamil Nadu, on December 21, 2015.
10. Seminar on "Nobel Prize in Economics, 2015", Department of Economics and Rural Development, Alagappa University, Karaikudi, Tamil Nadu, on March 29, 2016.
11. Seminar on “Climate is Changing. Food and Agriculture Must Too” organised to commemorate the World Food Day 2016 by the Department of Economics and Rural Development, Alagappa University, Karaikudi, Tamil Nadu, on October 21, 2016.

Events Participated/Presented (selected presentation since 2000)

Conferences / Seminars / Workshops: 200 (approximately)

Papers Presented in International Seminars and Conferences

A keynote paper on “Trends in Farm Profitability in India: The Case of Sugarcane Crop, was presented at the Inter-Conference Symposium of International Association of Agricultural Economists (IAAE), on “Revisiting Agriculture Policies in the light of Globalization

Experience: The Indian Contest” organised by the Indian Society of Agricultural Economics (Mumbai), National Institute of Agricultural Extension Management (Hyderabad) and Acharya NG Ranga Agricultural University (Hyderabad), held during October 12-13, 2014 at MANAGE, Hyderabad.

A keynote paper on “Drip Method of Irrigation in India: Economic Viability and Investment Potentials”, was presented at the International Conference on Agritech Asia, held at Mumbai during September 6-8, 2011.

A paper on “A Comprehensive Assessment of India’s Largest Irrigation Sector: Past, Present and Future” was presented at the International Conference on Water Resources Policy in South Asia, held during December 17-20, 2008, Colombo, Sri Lanka.

A lead paper, “How to Sustain India’s Groundwater Irrigation?: A Macro Level Investigation”, was presented at the 3rd International Groundwater Conference (IGC-2007), held at the Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu, during February 7-10, 2007.

A paper, “Micro-Irrigation And Electricity Consumption Linkages In Indian Agriculture: A Field Based Study”, was presented at the International Conference on Linkages between Energy and Water Management for Agriculture in Developing Countries, held at the International Water Management Institute, ICRISAT Campus, Hyderabad, India, during January 29-30, 2007.

A paper, “Trends in Irrigated Area in India: 1950-51 to 2002-03”, was presented at the International Workshop on Global Irrigated Area Mapping 2006 (GIAM 2006), Organised by the International Water Management Institute, at Taj Samudra, Colombo, Sri Lanka, during September 25-27, 2006.

Presented the Discussant Report on the paper, “Water Sector Reforms for Catalysing the MDGs: Towards an Evaluation Framework”, at the 6th Global Development Network Conference on Developing and Developed Worlds: Mutual Impact, held at Dakar, Senegal, during January 24-26, 2005.

A paper, “Contribution of Factor Inputs to Agricultural Productivity, Rural Development and Poverty Reduction in India: A Cross-States Panel-data Analysis from 1970-1994”, was presented (poster presentation) at the world Congress on Agricultural Economics, organised by the International Association of Agricultural Economics, held at Durban, South Africa, during August 16-22, 2003 (with Madhusudan Bhattarai).

A paper, “Groundwater Irrigation and Rural Poverty Nexus: An Analysis Across States in India” was presented at the Second South Asia Water Forum, held at Islamabad, Pakistan, during December 14-16, 2002.

A paper, “Policies for Access, Equity and Equality: Physical Resources and Human Resources”, was presented (with R.S. Deshpande) at the 2nd International Conference on Sustainable Agriculture, Water Resources Development and Earth Care Policies, held at Bhoovigyan Vikas Foundation, New Delhi, during December 18-20, December, 2002.

A paper, “Economic Evaluation of Drip Irrigation: A Study of Maharashtra”, was presented at the International Conference on Micro and Sprinkler Irrigation Systems, Jain Irrigation Systems Limited, Jalgaon, Maharashtra, February 8-10, 2000.

A paper, “Drip Irrigation: A Viable Technology for Saving Water and Electricity”, was presented at the International Conference on Micro and Sprinkler Irrigation Systems, Jain Irrigation Systems Limited, Jalgaon, Maharashtra, February 8-10, 2000.

Papers Presented in National Seminars and Conferences

Presented a keynote paper on “Farm Income in India: Myths and Realities” at the 76th Annual Conference of the Indian Society of Agricultural Economics, at Assam Agricultural University, Jorhat, during November 21-23, 2016.

Presented a paper on “Is the Role of Irrigation in Agricultural Output Declining in India?: A District-Wise Study of Six Time Points”, at the Platinum Jubilee Conference of the Indian Society of Agricultural Economics (ISAE) held at Punjab Agricultural University, Ludhiana, Punjab, during November 19-21, 2015.

Presented a keynote paper on “Why do Indian Farmers Make More Noise now than Ever Before?” at the UGC sponsored national seminar on ‘Challenges and Prospects of Indian Economy’ held at the Department of Economics, Arumugam Pillai Seethai Ammal College, Thirupattur, Tamil Nadu, during January 22-23, 2015.

Presented a paper on “Farm Mechanisation, MGNREGS and Labour Supply Nexus: A State-wise Panel Data Analysis on Paddy and Wheat Crop” at the 74th Annual Conference of the Indian Society of Agricultural Economics, held at Dr. Babasaheb Ambedkar Marathwada University, Aurangabad (Maharashtra) during December 18-20, 2014.

Presented a paper on “Sustainable Water Management by Micro-Irrigation” at the National Conference on Water and Food Security for All, organised by Jain Irrigation Systems Ltd and Others, held at Gandhi Teerth, Gandhi Research Foundation, Jain Hills, Jalgaon, Maharashtra, on December 19, 2014.

Presented a paper on “Demand Management of Water and Drip Method of Irrigation Nexus” at the seminar on Economics of Water Management, organised by the Madras Institute of Development Studies, Madras (as part of the celebration of Tamil Nadu Water Week 2014) at DHAN Foundation, Madurai on December 10, 2014.

Presented a paper (jointly with P. Alli and R. Suresh) on “Do Farmers Benefit from Organised Retailing?: A Review” at the 28th National Conference on Agricultural Marketing, organised by the Indian Society of Agricultural Marketing and Sardar Patel University, Anand, Gujarat, during December 4-6, 2014.

Presented a keynote paper on “NREGS and Agricultural Wage Rate: Some Revelations from Macro-Level Data” at the UGC sponsored workshop on ‘MGNREGS and Rural Transformation: The Issues and Challenges’ organised by the Arulmigu Palaniandavar College of Arts and Culture, Palani, Tamil Nadu, on August 8, 2014

Presented a keynote paper on “Climate Change and Water Resources Nexus in India” at the ICSSR sponsored National Conference on Climate Change, Environment and Agricultural

Development, organised by the Department of Environmental Economics, Madurai Kamaraj University, Madurai during March 27-28, 2014.

Presented a paper (jointly with P. Alli and R. Suresh) on “Is Economics of Rainfed Crops Worsening than Irrigated Crops?: An Exploratory Analysis from 1971-72 to 2009-10” at the 73rd Annual Conference of Indian Society of Agricultural Economics, held at the National Academy of Agricultural Research and Management, Hyderabad, during December 18-20, 2013.

Presented a paper (jointly with R. Suresh) on “Can Micro-Irrigation be Used to Boost the Agribusiness Capabilities of Tamil Nadu’s Farmers?” at the 73rd Annual Conference of Indian Society of Agricultural Economics, held at the National Academy of Agricultural Research and Management, Hyderabad, during December 18-20, 2013.

Presented a paper (jointly with P. Alli and S.K. Beero) on “Agricultural Market Access, Infrastructure and Value of Output Nexus: A District-Level Study” at the 27th National Conference on Agricultural Marketing, held at the University of Agricultural Sciences, Dharwad, Karnataka, during December 18-20, 2013.

Presented a paper on “Groundwater Depletion and Water Extraction Cost: Some Evidence from South India” at the National Groundwater Conference 2013: Problem, Challenges and Management of Groundwater in Agriculture, organised by Water Technology Center (WTC), Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu, during December 9-11, 2013.

Presented a paper on “Tank Irrigation in India: Temporal and Spatial Analysis” at the ICSSR sponsored national seminar on ‘Small Water Bodies in India: Status and Impact’, held at the Department of Economics and Rural Development, Alagappa University, Karaikudi, Tamil Nadu, during September 11-12, 2013.

Presented a paper on “Urban Agglomeration and its Impact on Tank Irrigation in Tamil Nadu: Temporal and Spatial Analysis” at the seminar on ‘Development Trends in Urban and Peri-urban Agriculture (UPA), held at the Institute for Social and Economic Change (ISEC), Bangalore, on August 8, 2013.

Presented a paper on “Impact of MGNREGS on the Cost of Cultivation of Selected Crops: Some Evidence from Cost of Cultivation Survey Data” at the brain storming workshop on “Rural Labour Markets and Agriculture” held at ICRISAT, Hyderabad, on January 17, 2013.

Presented a keynote paper on “Has the Price Policy helped the Paddy Farmers in India?: A Macro Level Analysis”, at the ICSSR sponsored National Level Seminar on ‘Current Problems and Future Prospects of Indian Economy’, organised by the Department of Economics, H.H. The Rajah’s College, Pudukkottai, Tamil Nadu, during December 27-28, 2012.

Presented a theme keynote paper on “Agricultural Price Policy in India: A Special Focus on Paddy Crop”, at the 26th National Conference of the Indian Society of Agricultural Marketing (ISAM), organised by the Gokhale Institute of Politics and Economics, Pune, Maharashtra, during December 20-22, 2012.

Presented a paper (jointly with P. Alli) on “India’s New Food Security Worries: From Crop Holiday to Declining Foodgrains Area”, at the 72 Annual Conference of the Indian Society of Agricultural Economics, Banaras Hindu University, Varanasi, during November 17-19, 2012.

Presented a paper (jointly with L. Venkatachalam) on “Estimating Economic Value of Irrigation Water Through Contingent Valuation Method: Results from Bhavani River Basin, Tamil Nadu”, at the 72 Annual Conference of the Indian Society of Agricultural Economics, Banaras Hindu University, Varanasi, during November 17-19, 2012.

Presented a keynote paper on “Water Users Association in India: Development & Impact” at the National Seminar on the ‘Role of Cooperatives in Agricultural Development’, organised by the Department of Economics and Rural Development, Alagappa University, Karaikudi, Tamil Nadu, on 16th October, 2012.

Presented a paper on “Augmenting Agribusiness Capabilities of Farmers in Tamil Nadu by Micro-Irrigation Method”, at the National Seminar on Agribusiness Potential of Tamil Nadu, jointly organized by the Indian Society of Agricultural Marketing, Nagpur and the Madras Institute of Development Studies (MIDS), at MIDS, Chennai during August 23-24, 2012.

Presented a paper on “Enhancing Water Use Efficiency with Micro-Irrigation: Opportunities and Constraints” at the National Workshop on ‘Opportunities for Enhancing Land and Water Productivity in Rainfed Agriculture’ held at the Central Research Institute for Dryland Agriculture (CRIDA), Hyderabad, on March 10, 2012.

Presented a paper on “Profitability in Indian Agriculture”, at the National Seminar on “The Future of Agricultural Development in India: The Role of Agricultural Economists”, organised as part of the Golden Jubilee Celebration of the Department of Agricultural Economics, Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu, on December 28, 2011.

Presented a paper on “Climate Change Impacts on Groundwater Extraction Cost: Who are the Gainers and Losers”, at the 71st Annual Conference of the Indian Society of Agricultural Economics, held at the University of Agricultural Sciences, Dharwad, Karnataka, during October 3-5, 2011.

Presented a paper on “Addressing Agricultural Water Management Challenges in the 12th Plan: Some Pointers”, at the 71st Annual Conference of the Indian Society of Agricultural Economics, held at the University of Agricultural Sciences, Dharwad, Karnataka, during October 3-5, 2011 (jointly with M. Dinesh Kumar; MVK. Sivamohan and Arun Mudgerikar).

Presented a keynote paper on “Implications of Crop Holidays on Foodgrains Production” at the National Seminar on Foodgrains Production in India: Problems and Prospects, held at the Department of Economics and Rural Development, Alagappa University, Karaikudi, Tamil Nadu, on October 14, 2011.

Presented a paper on “Economics of Bt Cotton Cultivation in India: Macro and Micro Evidence” at the national seminar on ‘India’s Tryst with Bt Cotton: Performance and Future Challenges’ at Gujarat Institute of Development Studies, Ahmedabad, during May 3-4, 2011.

Presented a paper on “Is Farming Profitable to Farmers in India?: An Analysis of Cost of Cultivation Survey Data” at the MIDS-ICSSR National Seminar on Indian Economy in Transition, organised in honour of Prof. C.T.Kurien, at Madras Institute of Development Studies, Chennai, during February 10-11, 2011.

Presented a paper on “Economic Analysis of Drip Method of Irrigation: A Comprehensive Study of four Crops in Maharashtra”, at the Training Programme on Sustainable Groundwater Management in Semi-Arid Hard Areas of Maharashtra, organized jointly by Groundwater Survey and Development Agency of Maharashtra and UNICEF, at YASHADA, Pune, on January 6, 2011.

Presented a paper on “Can Drip Method of Irrigation be Used to Achieve the Macro Objectives of Conservation Agriculture?” at the 70th Annual Conference of the Indian Society of Agricultural Economics, held at Jammu University, Jammu, during November 29 to December , 2010.

Presented an invited paper on “Micro Irrigation in India: Adoption, Impact and Policy pointers” in the programme on Theme Based Innovation in Water Sector, at John Deere Technology Centre, Pune, on July 26, 2010.

Presented a paper on “Relationship between Irrigation Water and Rural Poverty: A State-wise Cross Sectional Data Analysis”, at the National Seminar on Irrigation Water Constraints and Its Possible Impact On Rural Poverty, jointly organised by Department of Rural Development, Alagappa University, Karaikudi-630003, Tamil Nadu and Jain Irrigation Systems Ltd., Jalgaon, Maharashtra, during March 29-30, 2010.

Presented a paper on “Can Drip Method of Irrigation help to Reduce Rural Poverty?: Some Evidence from Maharashtra State”, at the National Seminar on Irrigation Water Constraints and Its Possible Impact On Rural Poverty, jointly organised by Department of Rural Development, Alagappa University, Karaikudi-630003, Tamil Nadu and Jain Irrigation Systems Ltd., Jalgaon, Maharashtra, during March 29-30, 2010.

Presented a paper on “National River Linking Project: Why do we need it?” at the National Conference on Interlinking of National Rivers: Impacts and Implications, organised by the Department of Economics, Manonmaniam Sundaranar University, Tirunelveli, during March 18-19, 2010.

Presented a paper on “Drip Method of Irrigation in Maharashtra State: Status, Economics and Outreach” at the 17th Annual Conference of the Agricultural Economics Research Association (AERA), held at the Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu, during November 19-21, 2009.

Presented a paper on “Irrigation Development in India: Some Contemporary Issues”, at the National Seminar on Contemporary Issues in Agriculture, Irrigation Water and Rural Development, organised by the Centre for Rural Development, Alagappa University, Karaikudi, India, March 13, 2009

Presented a paper on “Irrigation Water Management for Food Security in India: The Forgotten Realities”, at the International Symposium on Food Security in India, Green Peace, New Delhi, October 24, 2008 (jointly with M. Dinesh Kumar and M.V.K. Sivamohan).

Presented a paper entitled “Drip Irrigation and Rainfed Crop Cultivation Nexus: The Case of Cotton Crop” at the 68th Annual Conference of the Indian Society of Agricultural Economics held at the Andhra University, Visakhapatnam, during November 28-30, 2008.

A paper entitled, “Economics of Drip Irrigated Cotton: A Synthesis of Four Case Studies”, was presented at the Seventh Annual Partners’ Meet of the IWMI-TATA Water Policy Research Programme (ITP), held at ICRISAT Campus, Hyderabad, during April 2-4, 2008.

Presented the synthesis report of seven papers on Micro-Irrigation at the Seventh Annual Partners’ Meet of the IWMI-TATA Water Policy Research Programme (ITP), held at ICRISAT Campus, Hyderabad, during April 2-4, 2008.

Presented a keynote paper on “Union Budget 2008-09: Implications on Farm Sector”, at a Seminar organised by the Department of Economics, H.H. The Rajah’s College, Pudukkottai, Tamil Nadu, on March 19, 2008.

Presented keynote paper on “Agrarian Crisis: Causes, Impacts and Remedies” at the UGC Sponsored Seminar on Rural Development: Problems and Challenges at the Arumugam Pillai Seethai Ammal College, Tiruppattur, Tamil Nadu, during August 27-28, 2008.

A paper entitled, “Irrigation Development in India: Does it Progress in Right Direction?” was presented at the National Seminar on New Issues in Indian Agriculture - Dr. V.M. Dandekar Memorial Series, organised by the Symbiosis Society of Arts and Commerce, Pune, during January 11-12, 2008.

A paper entitled “Agrarian Crisis: How to Overcome?” was presented at the Seminar on Organic Farming and Agricultural Development, organised by the Department of Agriculture, Government of Maharashtra, held at Sugar Bhavan, Pune, during September 11, 2007.

A note on “What do farmers do with the water saved thorough MI?” is presented at the workshop on Sustaining Groundwater Use in Arid and Semi-Arid Regions: Opportunities and Challenges, organised by the IWMI-TATA at the Institute of Rural Management Anand (IRMA), during August 3, 2007.

A paper on “Impact of Drip Method of Irrigation on Sugarcane Cultivation” was presented at a special invited seminar, Institute for Financial Management and Research, Chennai, during April 30, 2007.

A paper, “Bt Cotton Cultivation: Can it Benefit Indian Farmers” , was presented at the Methodology Workshop on Policy Research in Agricultural Bio-technology, organised by the Centre for Agricultural and Rural Development Studies (CARDS), Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu, during April 20, 2007.

A paper, “Turnaround in Irrigation Sector Financial Recovery: A Study of Maharashtra State”, was presented at the IWMI-TATA workshop on Water and People: Reflections in a Turbulent Pool, held at IRMA, Anand, Gujarat, during March 8-10, 2007.

A paper, “Has Agrarian Crisis Made any Impact on Agricultural Wages and Employment in India?: An Exploratory Study”, was presented at the 48th annual Conference of the Indian

Society of Labour Economics, held at Bharathidasan University , Tiruchirapalli, Tamil Nadu, during January 5-7, 2007.

A paper, “Rural Infrastructure and Agricultural Output Linkages: A Study of 256 Indian Districts” was presented at the 66th Annual Conference of the Indian Society of Agricultural Economics, held at the Division of Agricultural Economics and Statistics, Umiam, Meghalaya, during November 8-10, 2006.

A paper, “Maharashtra’s Irrigation Sector: Past, Present and Future”, was presented at the Workshop on Water Resource Institutions in India: Challenges, Analysis and Lessons, at the Centre for Management in Agriculture, Indian Institute of Management (IIM), Ahmedabad, Gujarat, during April 20-21, 2006.

A paper, “Indian Irrigation Sector: Participatory Management and Pricing”, was presented at the National Conference on Macro Economic Policy, Agricultural Development and Rural Institutions in honour of Prof. A. Vaidyanathan, at the Institute for Social and Economic Change, Bangalore, during April 9-10, 2006 (with R. S. Deshpande).

A paper, “Indebtedness of Farmer Households Across States: Recent Trends and Determinants”, was presented at the 65th Annual Conference of the Indian Society of Agricultural Economics, organised by the Punjab Agricultural University, Ludhiana, during November 24-26, 2005.

A paper, “Do Impact Parameters of Watershed Projects Implemented under Different Institutional Structures Change?: An Analytical Review”, was presented at the 64th Annual Conference of the Indian Society of Agricultural Economics, organised by the Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu, during December 15-17, 2004 (with K. G. Sreeja).

A paper, “Sustainable Cultivation of Sugarcane through Drip Method of Irrigation: Lessons from a Field Study”, was presented at a Seminar on WWF-India’s Sugar Initiative, organised by the World Wide Fund for Nature – India at WALMI, Aurangabad, Maharashtra, during February 23-25, 2004.

A paper, “Who Benefits from Irrigation Development in India?: Implications for Cost Recovery and Irrigation Financing”, was presented at the IWMI-TATA Annual Partners Meet: 2004, organised by the International Water Management Institute, held at the Institute of Rural Management Anand (IRMA), Gujarat, during February 17-19, 2004 (with Madhusudan Bhattarai).

A paper, “Dynamics of Irrigation Impacts on Rural Poverty in India”, was presented at the IWMI-TATA Annual Partners Meet: 2004, organised by the International Water Management Institute, held at the Institute of Rural Management Anand (IRMA), Gujarat, during February 17-19, 2004 (with Madhusudan Bhattarai).

A paper, “Can Irrigation Increase Agricultural Wages?: An Analysis Across Indian Districts”, was presented at the IWMI-TATA Annual Partners Meet: 2004, organised by the International Water Management Institute, held at the Institute of Rural Management Anand (IRMA), Gujarat, during February 17-19, 2004 (with Madhusudan Bhattarai).

A paper, “Who Bells the Cat: Strategic Issues that the Task Force Needs to Address”, was presented at the IWMI-TATA Annual Partners Meet: 2004, organised by the International Water Management Institute, held at the Institute of Rural Management Anand (IRMA), Gujarat, February 17-19, 2004.

Acted as a Panelist for the session on Mass Promotion of Micro-Irrigation: What, Why and How? at the IWMI-TATA Annual Partners Meet 2004, organised by the International Water Management Institute, held at the Institute of Rural Management Anand (IRMA), Gujarat, February 17-19, 2004.

A chapter on “Maharashtra’s Irrigation Sector”, prepared for the Maharashtra Development Report, was presented at the final Workshop on Maharashtra Development Report, held at Indira Gandhi Institute for Development Research, Mumbai, during February 12-13, 2004.

A paper, “Economic Reforms and Agricultural Prices in India”, was presented at a Seminar on Agricultural Economics and Rural Development, organised by Padmashri Vikhe Patil College of Arts, Science and Commerce, Pravaranagar, Ahmednagar, Maharashtra, on February 9, 2004.

A paper, “Averting Water Crisis by Drip Method of Irrigation: A Study of Two Water-Intensive Crops”, was presented at the 63rd Annual Conference of the Indian Society of Agricultural Economics, organised by the Orissa University of Agriculture and Technology, Bhubaneswar, Orissa, during December 19-21, 2003.

A paper, “Impact of Liberalisation on Domestic Agricultural Prices and Farm Income: An Analysis Across States and Crops”, was presented at the 63rd Annual Conference of the Indian Society of Agricultural Economics, organised by the Orissa University of Agriculture and Technology, Bhubaneswar, Orissa, during December 19-21, 2003 (with S. S. Kalamkar).

A paper, “Linkages between Irrigation and Rural Non-Farm Employment: A Disaggregate Level Analysis based on Census Data”, was presented at the Foundation Day Seminar on Rural Employment with Focus on Non-Farm Sector, organised by the National Institute of Rural Development (NIRD), Hyderabad, during December 6-7, 2003.

Presented discussant report on the paper on “Valuing Groundwater for Irrigation in Hard Rock Areas of Karnataka, by M.G. Chandrakanth and others, at the National Seminar on Water, organised by the Centre for Economic and Social Studies, Hyderabad, during July 30-31, 2003.

A paper, “Economics of Drip Irrigation in Sugarcane Cultivation: An Empirical Analysis”, was presented at the National Seminar on Water, organised by the Centre for Economic and Social Studies, Hyderabad, during July 30-31, 2003.

A final report of the study, “Water Resources Development in India: Does it Help the Farmer?”, was presented (with K. V. Raju) at the Review Seminar on “State of Indian Farmers: A Millennium Study”, sponsored by the Ministry of Agriculture, Government of India, held at the Institute of Economic Growth, Delhi, during February 4-5, 2003.

A paper, “Irrigation Impact on Agricultural Growth and Poverty Alleviation: Macro Level Impact Analyses in India”, was presented (with M. Bhattarai) at the IWMI-TATA Annual

Meet, International Water Management Institute (IWMI), Vallabh Vidyanagar, Gujarat, during January 27-29, 2003.

A paper, "Irrigation Impact and Factors Contributing to the Agricultural Productivity Growth in India: A Cross-state Panel Analysis for 1970 to 1994", was presented (with M. Bhattarai) at the IWMI-TATA Annual Meet, International Water Management Institute (IWMI), Vallabh Vidyanagar, Gujarat, during January 27-29, 2003

A paper, "An Overview of Micro Irrigation in India", was presented at the IWMI-TATA Annual Meet, International Water Management Institute (IWMI), Vallabh Vidyanagar, Gujarat, during January 27-29, 2003.

A draft chapter on "Irrigation" prepared for the Maharashtra Development Report was presented (with S. S. Kalamkar) at the Interim Workshop on Maharashtra Development Report held at Indira Gandhi Institute of Development Research, Mumbai, on March 7, 2003.

A paper, "Evaluation of Seed Use in Pulses and Oilseeds in Maharashtra: An Empirical Analysis", was presented at the 62nd Annual Conference of the Indian Society of Agricultural Economics, held at Indian Agricultural Research Institute, New Delhi, December 19-21, 2002.

A paper, "Drip Irrigation in India: Potential and Prospects" was presented at the Maharashtra Sinchan Parishad: 2003, held at Mahatma Pule Krishi Vidyapeeth, Rahuri, January 10-11, 2003.

A paper, "Impact Assessment of Drip Irrigation in Maharashtra: A Case of Sugarcane", presented at the Workshop on 'Evaluation of Schemes of Micro Irrigation in the State and the Recommendations for Improvement in the Technology', organised by Maharashtra Council for Agricultural Education and Research, held at Water and Land Management Institute, Aurangabad, Maharashtra, during July 30-31, 2002.

A paper, "Irrigation Development and Agricultural Wages: An Analysis Across States" presented at the "Convention on Development" jointly organised by five ICSSR Institutes located in South India, held at Madras Institute of Development Studies, Madras, during November 16-18, 2001.

A paper, "Irrigation, Agrarian Relations and Agricultural Labourers: A State-wise Analysis", was presented at the 43rd Annual Conference of the Indian Society of Labour Economics, held at Institute for Social and Economic Change, Bangalore, during December 18-20, 2001.

A paper, "Agricultural Wages and Employment During Post-Reforms Period: Statewise and Cropwise Evidence", was presented at the 61st Annual Conference of the Indian Society of Agricultural Economics, held at Gulbarga University, Gulbarga, Karnataka, December 27-29, 2001.

A draft report of the study, "Water Resources Development in India: Does it Help the Farmer?", presented at the Review Seminar on "State of Indian Farmers: A Millennium Study", sponsored by the Ministry of Agriculture, Government of India, New Delhi, held at the Institute for Social and Economic Change, Bangalore, during January 30-31, 2002.

A paper, "Drip Irrigation: An Effective Technology for Sustainable Water Use", paper presented at Professor D. R. Gadgil Birth Centenary Year National Seminar on Rural Economy of India: Status, Prospects and Policies, Gokhale Institute of Politics and Economics, Pune, April 8-9, 2001.

A paper, "Indebtedness of the Scheduled Castes Agricultural Labour Households: A State-wise Analysis", paper presented at the national level workshop on Economic Development of the Scheduled Castes, with Special Reference to Agricultural Landless Labourers, Gokhale Institute of Politics and Economics, Pune, March 16-17, 2001.

A paper, "Agrarian Changes, Market Participation and Indebtedness of Scheduled Castes Landless Agricultural Labourers", paper presented (with R. S. Deshpande and A. Jyotishi) at the national level workshop on Economic Development of the Scheduled Castes, with Special Reference to Agricultural Landless Labourers, Gokhale Institute of Politics and Economics, Pune, March 16-17, 2001.

Overseas Exposure / Visits

1. Visited Colombo, Sri Lanka, during February 17-26, 2002 to finalise a Research Study with the International Water Management Institute (IWMI).
2. Visited Islamabad, Pakistan, during December 12-17, 2002 to present a paper at the Second South Water Forum.
3. Visited Dakar, Senegal, during January 22-27, 2005 to act as a discussant for a paper at the 6th Global Development Network (GDN) Conference.
4. Visited Colombo, Sri Lanka, during September 24-28, 2006 to present a paper at the International workshop on Global Irrigated Area Mapping: 2006.
5. Visited Colombo, Sri Lanka, during December 17-20, 2008 to present a paper at the International Conference on Water Resources Policy in South Asia

Membership in

Professional Bodies

1. Life Member, The Indian Society of Agricultural Economics, C-104, First Floor, Sadguru Complex I, Near Vagheshwari, Gen.A.K. Vaidya Marg, Goregaon (East), Mumbai - 400 063.
2. Life Member, Agricultural Economics Research Association (India), F-4, A Block, NASC Complex, DPS Marg, Pusa, New Delhi-110 012.
3. Life Member, The Indian Society of Labour Economics, IAMR Building, I.P. Estate, M.G. Road, New Delhi - 110 002.
4. Life Member, Indian Academy of Social Sciences, Iswar Saran Ashram Campus, Allahabad - 211 004 (UP).
5. Life Member, Indian Society of Agricultural Marketing, 112-A, KT Nagar, Katol Road, Nagpur - 440 013.

6. Life Member, Association of Economists of Tamil Nadu, Tiruchirapalli – 620 019, Tamil Nadu.
7. Member, Indian Society of Ecological Economics, Institute of Economic Growth, University Enclave, Delhi – 100 007.

Editorial Board

1. Member, Editorial Committee, *Indian Journal of Agricultural Economics*, Mumbai.
2. Managing Editor, *Bharatiya Samajik Chintan*, the Indian Academy of Social Sciences, Allahabad, Uttar Pradesh.
3. Member, Editorial Committee, *Amity Journal of Agribusiness*, Amity University, Noida, Uttar Pradesh.

Advisory Board

1. Institute for Resource Analysis and Policy (IRAP), Hyderabad.

Academic Bodies (such as Board of Studies etc.)

1. Chairman, Board of Studies, Department of Economics and Rural Development, Alagappa University, Karaikudi.
2. Member, Board of Studies for M.A., Rural Development by the Dravidian University, Kuppam, Andhra Pradesh.
3. Member, Board of Studies for M.A., and M.Phil., Economics by the Periyar University, Salem, Tamil Nadu.
4. Member, Board of Studies for M.A., and M.Phil., Economics by the Annamalai University, Chidambaram, Tamil Nadu.
5. Member, Board of Studies, Department of Economics, Bharathidasan University, Tiruchirapalli, Tamil Nadu.
6. Member, Board of Studies for M.A. Economics by the A.V.C. College, Mannampandal, Tamil Nadu.

Resource persons in various capacities

Number of Invited / Special Lectures delivered: **120 (approximately)**

Others

1. Articles published in Newspapers / Magazines : 68
2. No. of Ph.D., Thesis evaluated : 25
3. No. of Ph.D., Public Viva Voce Examination conducted : 25

Books

- Viswanathan, P. K.; M.D. Kumar and A. Narayanamoorthy (2016), *Micro Irrigation Systems in India: Emergence, Status and Impact*, Springer, Singapore.
- Narain, V and A. Narayanamoorthy (2016), *Indian Water Policy at the Crossroads: Resources, Technology and Reforms*, Springer, London.
- Kumar, M.D; N. Bassi; A. Narayanamoorthy and M.V.K. Sivamohan (2014), *The Water, Energy and Food Security Nexus: Lessons from India for Development*, Routledge, London, UK.
- Narayanamoorthy, A. and S. S. Kalamkar (2012), *Participatory Irrigation Management in Maharashtra: Evolution, Perception and Impact*, Gyan Publications, New Delhi.
- Narayanamoorthy, A. (2013), *Indian Farmers in Crisis* (in Tamil language), Pavai Publications, Chennai.
- Narayanamoorthy, A and S. S. Kalamkar (2011), *Bt Cotton Cultivation in India: Adoption, Impact, Economics*, Himalaya Publishing House, Mumbai.
- Narayanamoorthy, A. and R. S. Deshpande (2005), *Where Water Seeps!: Towards A New Phase in India's Irrigation Reforms*, Academic Foundation, New Delhi.
- Raju, K.V.; A. Narayanamoorthy, and G. Gopakumar (2004), *Water Resources: State of the Indian Farmer*, Academic Foundation, New Delhi.
- Deshpande, R. S and A. Narayanamoorthy (2000), *An Appraisal of Watershed Development Programme Across Regions in India*, Gokhale Institute of Politics and Economics, Pune.

Mimeographs

- Dinesh Kumar, M; R. Maria Saleth; S.A. Prathapar; V. Ratna Reddy, A. Narayanamoorthy and Nitin Bassi (2016), "Mihir Shah Committee Report (2016) on Water Reforms in India: A Critique", Occasional Paper No. 09-1216, Institute for Resource Analysis and Policy, Hyderabad.
- Narayanamoorthy, M. Bhattarai, R. Suresh (2014), *Has MGNREGS affected the Farmers Profitability?: An Assessment based on Cost of Cultivation Data*, Discussion Paper Series No. 25, Research Programme on Policies, Institutions and Markets, International Crops Research Institute for Semi-Arid Tropics, Patancheru, Hyderabad, Andhra Pradesh, India.
- Narayanamoorthy, A. (2005), *Efficiency of Irrigation: A Case of Drip Irrigation*, Occasional Paper No. 45, Department of Economic Analysis and Research, National Bank for Agriculture and Rural Development (NABARD), Mumbai, India, pp. xx +110.

Narayanamoorthy, A. and R. S. Deshpande (1997), *Economics of Drip Irrigation: A Comparative Study of Maharashtra and Tamil Nadu*, Mimeograph No. 47, Gokhale Institute of Politics and Economics, Pune, India, June.

Narayanamoorthy, A. (1996), *Evaluation of Drip Irrigation System in Maharashtra*, Mimeograph No. 42, Gokhale Institute of Politics and Economics, Pune, India, March.

International Journals/Book Chapters

Narayanamoorthy, A. (2015), "Groundwater Depletion and Water Extraction Cost: Some Evidence from South India", *International Journal of Water Resources Development*, 31(4), pp. 604-617 (Routledge, London, UK, , Impact Factor: 7.46).

Narayanamoorthy, A. and P. Alli (2015) "Mysteries on India's Agricultural Credit Supply", just published by *The World Financial Review*, May-June, pp. 21-23 (EBR, London, UK, Impact Factor: 1.65).

Narayanamoorthy, A. (2014), "Is the Reversal of the Moratorium on GM Crops Good for India?", *The World Financial Review*, May-June, pp. 38-40 (EBR, London, UK, Impact Factor: 1.65).

Narayanamoorthy, A. and P. Alli (2013), "Beyond Crop Holidays: Emerging Issues of Food Security in India", in Hanjra, M.A. (Ed.) *Global Food Security: Emerging Issues and Economic Implications*, Nova Publishers, New York, USA., pp.137-144.

Kumar, M.D. and A. Narayanamoorthy (2013), "Key Issues in Indian Irrigation", in Kumar, M.D. et al., (eds.), *Water Management, Food Security and Sustainable Agriculture in Developing Economies*, Routledge, London, UK, pp. 17-37.

Kumar, M.D.; M.V.K. Sivamohan and A. Narayanamoorthy (2013), "Food Security Challenges in India: Exploring the Nexus between Water, Land and Agricultural Production", in Kumar, M.D. et al., (eds.), *Water Management, Food Security and Sustainable Agriculture in Developing Economies*, Routledge, London, UK, pp. 38-60.

Kumar, M.D.; V. Niranjana and A. Narayanamoorthy (2013), "Future Strategies for Agricultural Growth in India", in Kumar, M.D. et al., (eds.), *Water Management, Food Security and Sustainable Agriculture in Developing Economies*, Routledge, London, UK, pp.164-183.

Kumar, M.D.; M.V.K. Sivamohan and A. Narayanamoorthy (2012), "The Food Security Challenge of the Food-land-Water Nexus in India", *Food Security*, Vol. 4, No. 4, pp. 539-556 (published by Springer, Impact Factor: 7.56).

Munir A. Hanjra; Tadele Ferede; A. Narayanamoorthy and Richard J. Culas (2012), "Global Poverty: Definition and Measurement Issues", in Albert Tavidze (Ed.), *Progress in Economics Research*, Vol. 26, Nova Science Publishers, Inc., New York, U.S.A., pp. 59-88.

Narayanamoorthy, A. (2011), "Development and Composition of Irrigation in India: Temporal Trends and Regional Patterns", *Irrigation and Drainage*, Vol.60, No. 4, pp. 431-445 [Wiley-Blackwell, London, Impact Factor: 6.57].

Narayanamoorthy, A. (2010), "India's Groundwater Irrigation Boom: Can it be Sustained?", *Water Policy*, Vol. 12, No. 4, pp. 543-563 [IWA, London, Impact Factor: 6.95].

Narayanamoorthy, A. (2009), "Water Saving Technologies as Demand Management Option: Potentials, Problems and Prospects", in R. Maria Saleth (ed.), *Promoting Irrigation Demand Management in India: Potentials, Problems and Prospects*, International Water Management Institute, Colombo, Sri Lanka, pp. 93-126.

Narayanamoorthy, A. (2009), "Drip and Sprinkler Irrigation in India: Benefits, Potentials and Future Directions", in Upali A. Amarasinghe; Tushaar Shah and R.P.S. Malik (Eds.), *India's Water Future: Scenarios and Issues*, International Water Management Institute, Colombo, Sri Lanka, pp. 253-266.

Narayanamoorthy, A. (2007), "Does Groundwater Irrigation Reduce Rural Poverty?: Evidence from Indian States", *Irrigation and Drainage*, Vol. 56, No. 2-3, April-July, pp. 349-362 [Wiley-Blackwell, London, Impact Factor: 6.57].

Madhusudan Bhattarai; Randolph Barker and A. Narayanamoorthy (2007), "Who Benefits from Irrigation Development in India?: Implication of Irrigation Multipliers for Irrigation Financing", *Irrigation and Drainage*, Vol. 56, No.2-3, April-July, pp. 207-225 [Wiley-Blackwell, London, Impact Factor: 6.57].

Narayanamoorthy, A. (2007), "Tank Irrigation in India: A Time Series Analysis", *Water Policy*, Vol. 9, No.2, pp. 193-216 [IWA, London, Impact Factor: 6.95].

Ganesh B. Keremane; Jennifer McKay and A. Narayanamoorthy (2006), "The Decline of Innovative Local Self-Governance Institutions for Water Management: The Case of Pani Panchayats", *International Journal of Rural Management*, Vol. 2, No.1, pp. 107-122.

Narayanamoorthy, A. (2004), "Impact Assessment of Drip Irrigation in India: A Case of Sugarcane", *Development Policy Review*, Vol. 22, No. 4, pp. 443-462. [Blackwell, London, Impact Factor: 1.52].

Narayanamoorthy, A. (2004), "Drip Irrigation in India: Can it Solve Water Scarcity?", *Water Policy*, Vol. 6, No. 2, pp. 117-130 [IWA, London, Impact Factor: 6.95].

Madhusudan Bhattarai and A. Narayanamoorthy (2003), "Impact of Irrigation on Rural Poverty in India: An Aggregate Panel-Data Analysis", *Water Policy*, Vol. 5, Nos. 5-6, pp. 443-458 [IWA, London, Impact Factor: 6.95].

Narayanamoorthy, A. (2002), "Indian Irrigation: Five Decades of Development", *Water Resources Journal*, No. 212, June, pp.1-29 [ESCAP, UN, Bangkok, Thailand].

Indian Journals/Book Chapters

Narayanamoorthy, A. (2016), "Why is Financial Recovery of Irrigation Sector Low in India?: A Spatial and Temporal Analysis" (pp. 561-586), in Ramasamy, C and K.R. Ashok (eds.), *Vicissitudes of Agriculture in the Fast Growing Indian Economy: Challenges, Strategies and the Way Forward*, Academic Foundation, New Delhi.

Narayanamoorthy, A; N. Devika and M. Bhattarai (2016), "More Crop and Profit per Drop of Water: Drip Irrigation for Empowering Distressed Small Farmers", IIM Kozhikode Society & Management Review, Vol. 5, No. 1, pp. 83-90.

Narayanamoorthy, A. (2015), "Is the Role of Irrigation in Agricultural Output Declining in India?: A District-Wise Study of Six Time Points", Indian Journal of Agricultural Economics, Vol. 70, No. 2, July-September, pp. 333-349. [Impact Factor: 5.15].

Narayanamoorthy, A. (2015), "Is Farming Profitable to Farmers in India?: Evidence from Cost of Cultivation Survey Data" (pp. 88-111), in S. Janakarajan; L. Venkatachalam and R. Maria Saleth (Eds.), Indian Economy in Transition: Essays in Honour of C.T. Kurien, Sage Publications, New Delhi / California, USA.

Narayanamoorthy, A; P. Alli and R. Suresh (2015), "How Profitable is Cultivation of Rainfed Crops?: Some Insights from Cost of Cultivation Studies", Agricultural Economics Research Review, Vol. 27, No.2, July-December, pp. 233-241. [Impact Factor: 5.90].

Narayanamoorthy, A.; M. Bhattarai; R. Suresh and P. Alli (2014), "Farm Mechanisation, MGNREGS and Labour Supply Nexus: A State-wise Panel Data Analysis on Paddy and Wheat Crop", Indian Journal of Agricultural Economics, Vol. 69, No. 3, July-September, pp. 320-335. [Impact Factor: 5.15].

Kumar, M.D; V. Ratna Reddy; A. Narayanamoorthy and M.V.K. Sivamohan (2013), "Analysis of India's Minor Irrigation Statistics: Faculty Analysis, Wrong Inferences", Economic and Political Weekly, Vol. XLVIII, No. 45 & 46, November 16, pp. 76-78.

Narayanamoorthy, A.; P. Alli and S.K. Beero (2013), "Agricultural Market Access, Infrastructure and Value of Output Nexus: A District-Level Study", Indian Journal of Agricultural Marketing, Vol. 27, No. 3, September-December, pp. 75-93. [Impact Factor: 3.27].

Narayanamoorthy, A. (2013), "Diagnosing Maharashtra's Water Crisis", Economic and Political Weekly, Vol. XLVIII, No. 41, October 12, 23-25.

Narayanamoorthy, A. and M.Bhattarai (2013) "Rural Employment Scheme and Agricultural Wage Rate Nexus: An Analysis across States", Agricultural Economics Research Review, Vol. 26, (Conference volume), pp. 149-163. [Impact Factor: 5.90].

Narayanamoorthy, A. and R. Suresh (2013), "An Uncovered Truth in Fixation of MSP for Crops in India", Review of Development and Change, Vol.18, No.1, January-June, pp. 53-62.

Narayanamoorthy, A. (2013), "Profitability in Crops Cultivation in India: Some Evidence from Cost of Cultivation Survey Data", Indian Journal of Agricultural Economics, Vol. 68, No.1, January-March, pp. 104-121. [Impact Factor: 5.15].

Narayanamoorthy, A and P. Alli (2012), "India's New Food Security Worries: From Crop Holiday to Declining Foodgrains Area", Indian Journal of Agricultural Economics, Vol. 67, No. 3, July-September, pp. 487-498. [Impact Factor: 5.15].

Narayanamoorthy, A. and R. Suresh (2012), "Agricultural Price Policy in India: Has it Benefitted Paddy Farmers?", Indian Journal of Agricultural Marketing, Vol. 26, No. 3, September-December, pp. 87-106. [Impact Factor: 3.27].

- Venkatachalam, L and A. Narayanamoorthy (2012), "Estimating Economic Value of Irrigation Water Through Contingent Valuation Method: Results from Bhavani River Basin, Tamil Nadu", *Indian Journal of Agricultural Economics*, Vol. 67, No. 3, July-September, pp. 308-315. [Impact Factor: 5.15].
- Kumar, D; A. Narayanamoorthy; N. Bassi and V. Niranjana (2011), "Addressing Agricultural Water Management Challenges in the 12th Plan: Some Pointers", *Indian Journal of Agricultural Economics*, Vol.66, No.3, July –September, pp. 289-300. [Impact Factor: 5.15].
- Narayanamoorthy, A. (2011), "Climate Change Impacts on Groundwater Extraction Cost: Who are the Gainers and Losers", *Indian Journal of Agricultural Economics*, Vol.66, No.3, July –September, p. 415. [Impact Factor: 5.15].
- Narayanamoorthy, A. (2010), "Can Drip Method of Irrigation be Used to Achieve the Macro Objectives of Conservation Agriculture", *Indian Journal of Agricultural Economics*, Vol. 65, No. 3, July-September, pp. 428-438. [Impact Factor: 5.15].
- Narayanamoorthy, A. and M. A. Hanjra (2010), "What Contributes to Disparity in Rural-Urban Poverty in Tamil Nadu?: A District Level Analysis", *Indian Journal of Agricultural Economics*, Vol. 65, No. 2, April-June, pp.228-244. [Impact Factor: 5.15].
- Dinesh Kumar, M; A. Narayanamoorthy and O.P. Singh (2009), "Groundwater Irrigation versus Surface Irrigation", *Economic and Political Weekly*, Vol. 44, No.50, December 12, pp. 72-73.
- Deshpande, R.S. and A. Narayanamoorthy (2009), "India's Surface Irrigation Sector: Participatory Management and Pricing", in Gopal K Kadekodi and Brinda Viswanathan (Eds.), *Agricultural Development, Rural Institutions and Economic Policy*, Oxford University Press, New Delhi, pp. 85-103.
- Narayanamoorthy, A. (2008), "Drip Irrigation and Rainfed Crop Cultivation Nexus: The Case of Cotton Crop", *Indian Journal of Agricultural Economics*, Vol. 63, No.3, July-September, pp. 487-501. [Impact Factor: 5.15].
- Narayanamoorthy, A. (2008), "How to Sustain India's Groundwater Irrigation?: A Macro Level Investigation", in Palanisami, K; Ramasamy, C and Cheiko Umetsu (Eds.), *Groundwater Management and Policies*, Macmillan India Ltd, Delhi, pp. 217-237.
- Narayanamoorthy, A. (2007), "Turnaround in Financial Recovery in Maharashtra's Irrigation Sector", *Economic and Political Weekly*, Vol. 42, No. 26, June 30, pp. 2679-2685.
- Narayanamoorthy, A. (2007), "Deceleration in Agricultural Growth: Technology Fatigue or Policy Fatigue?", *Economic and Political Weekly*, Vol. 42, No. 25, June 23, pp. 2375-2379.
- Narayanamoorthy, A. and M. A. Hanjra (2006), "Rural Infrastructure and Agricultural Output Linkages: A Study of 256 Indian Districts", *Indian Journal of Agricultural Economics*, Vol. 61, No. 3, July-September, pp. 444-459. [Impact Factor: 5.15].
- Narayanamoorthy, A. and S.S. Kalamkar (2006), "Has Agrarian Crisis Made any Impact on Agricultural Wages and Employment in India?: An Exploratory Study", *Indian Journal of Labour Economics*, Vol. 49, No. 4, October-December, pp. 787-798.

- Narayanamoorthy, A. (2006), "Economics of Drip Irrigation in Sugarcane Cultivation: An Empirical Analysis", in Mahendra Dev, S and Ratna Reddy, V (eds.), *Managing Water Resources: Policies, Institutions, and Technologies*, Oxford University Press, New Delhi, pp. 86-117.
- Narayanamoorthy, A. (2006), "Relief Package for Farmers: Can it Stop Suicides?", *Economic and Political Weekly*, Vol. 41, No. 31, August 5, pp. 3353-3355.
- Narayanamoorthy, A. and S. S. Kalamkar (2006), "Is Bt Cotton Cultivation Economically Viable for Indian Farmers?: An Empirical Analysis", *Economic and Political Weekly*, Vol. 41, No. 26, June 30, pp. 2716-2724.
- Narayanamoorthy, A. (2006), "State of India's Farmers", *Economic and Political Weekly*, Vol. 41, No. 6, February 11, pp. 471-473.
- Narayanamoorthy, A. and K. G. Sreeja (2006), "Do Impact Parameters of Watershed Projects Implemented Under Different Institutional Structures Change? An Analytical Review", in Palanisami, K and D. Suresh Kumar (Eds.), *Impact Assessment of Watershed Development: Issues, Methods and Experiences*, Associated Publishing Company, New Delhi, pp. 117-130.
- Narayanamoorthy, A. and S. S. Kalamkar (2005), "Indebtedness of Farmer Households Across States: Recent Trends and Determinants", *Indian Journal of Agricultural Economics*, Vol. 60, No. 3, July-September, pp. 289-301. [Impact Factor: 5.15].
- Narayanamoorthy, A. (2005), "Economics of Drip Irrigation in Sugarcane Cultivation: Case Study of a Farmer from Tamil Nadu", *Indian Journal of Agricultural Economics*, Vol. 60, No. 2, April-June, pp. 235-248. [Impact Factor: 5.15].
- Narayanamoorthy, A. and Madhusudan Bhattarai (2004), "Can Irrigation Increase Agricultural Wages: An Analysis Across Indian Districts", *Indian Journal of Labour Economics*, Vol. 47, No. 2, April-June, pp. 251-268.
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