

# Curriculum Vitae of Prof. A. Narayanamoorthy

1. Name: A. NARAYANAMOORTHY  
2. Sex: Male  
3. Date of birth: 24.05.1964  
4. Nationality: Indian  
5. Address: Dr. A. Narayanamoorthy  
Senior Professor and Head  
Department of Economics and Rural Development  
Alagappa University  
Karaikudi – 630 003, Tamil Nadu, India.  
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## Key Qualifications:

Dr. A. Narayanamoorthy [former Full-Time Member (Official), Commission for Agricultural Costs and Prices (CACP), Ministry of Agriculture and Farmers Welfare, Government of India, New Delhi] is currently working as Senior Professor and Head, Department of Economics and Rural Development, Alagappa University, Tamil Nadu, India. Earlier, he worked with the Gokhale Institute of Politics and Economics, Pune, India for about 14 years [1994-2008] and with the Madras Institute of Development Studies, Madras for about one and a half years [1993-1994]. He has been working in the area of agricultural and rural economics over the last 30 years. He specializes in the area of irrigation including micro-irrigation and farm economics. Dr. Narayanamoorthy has published 13 books (including books from, Oxford University Press, Routledge and Springer), three mimeographs and over 280 research papers in international and national journals. He has completed several research projects sponsored by the national and international agencies such as the Ministry of Agriculture (Government of India), Planning Commission (Government of India), the National Bank for Agriculture and Rural Development (NABARD, India), Indian Council for Social Science Research (ICSSR, New Delhi), International Water Management Institute (Colombo, Sri Lanka) and International Crops Research Institute for Semi-Arid Tropics (ICRISAT). He has been acting as a referee for various international and national journals, research reports of different Institutes and examiner for Ph.D., Thesis of different Universities. He has also been teaching post-graduate level courses in Economics since 1994.

Dr. Narayanamoorthy is a recipient of the prestigious Professor Ramesh Chandra Agrawal Award of excellence for the outstanding contribution in the field of agricultural economics for the year 2009 from the Indian Society of Agricultural Economics, Mumbai. NABARD has conferred to him the coveted NABARD Chair Professor position (2011-16), which is one among the five Chairs awarded at the National level. The Alagappa University, Tamil Nadu has given him the Professor of Excellence Award during 2018. Recently, he received ISAE Fellow 2019 award which is instituted by the Indian Society of Agricultural Economics, Mumbai.

Dr. Narayanamoorthy earned vast administrative experience while working in key positions (Member of the Syndicate, Member of the Planning Board, Member of the Finance Committee, Dean, Faculty of Arts, Dean-Research) in Alagappa University, Tamil Nadu and in Gokhale Institute of Politics and Economics, Pune (Member, Board of Management and Officer in-charge, Agro-Economic Research Centre).

Dr. Narayanamoorthy has also worked as Member of different policy level Committees constituted by the Ministry of Statistics and Programme Implementation, Government of India, New Delhi; the Ministry of Agriculture, Government of India, New Delhi and the Government of Andhra Pradesh, Hyderabad. Dr. Narayanamoorthy's current 'h' index is 28 which is a rare distinction in economics and social sciences. Recently, he has also successfully completed the Leadership for Academicians Programme (LEAP) sponsored by the Ministry of Human Resource Development, Government of India, conducted at IIT (BHU), Varanasi and Cambridge Judge Business School, University of Cambridge, UK.

**Abstracts of Publications, Projects Completed and Ph.D., Guided:**

1	No. of Books Published	13
2	No. of Papers Published in International Journals	31
3	No. of Papers Published in National Journals	112
4	No. of Articles Published in News Papers, Business dailies, Magazines, etc.,	119
5	No. of Book Reviews Published	15
6	<b>Total No. of Publications</b>	<b>290</b>
7	No. of Projects Completed	28
8	No. of Papers Presented at the International Conferences and Seminars	16
9	No. of Papers Presented at the National Conferences and Seminars	109
	<b>h-index</b>	<b>28</b>
	<b>i10-index</b>	<b>63</b>
	<b>Total citations</b>	<b>2655</b>
10	No. of Ph.D., Guided	08

**Abstracts of Administrative Experience:**

	Position	Period	Place
1	Senior Professor and Head (Senior Professor, w.e.f 01/05/2019)	28/01/2008 to till date	Department of Economics & Rural Development, Alagappa University, Karaikudi, Tamil Nadu
2	Dean-Research	22/05/2020 to till date	Alagappa University, Karaikudi, Tamil Nadu
3	Full-Time Member (Official)	20/08/2018 to 16/05/2019	Commission for Agricultural Costs and Prices, Government of India, New Delhi
4	Member of the Syndicate	21/08/2015 to 20/08/2018	Alagappa University, Karaikudi, Tamil Nadu
5	Member of the Planning Board	26/06/2015 to 25/06/2018	Alagappa University, Karaikudi, Tamil Nadu
6	Member of the Finance Committee	11/08/2016 to 20/08/2018	Alagappa University, Karaikudi, Tamil Nadu
7	Dean, Faculty of Arts	01/11/2012 to 31/10/2015	Alagappa University, Karaikudi, Tamil Nadu
8	Member, Board of Management	02/11/2006 to 01/11/2008	Gokhale Institute of Politics and Economics, Pune, Maharashtra
9	Officer in-Charge, Agro-Economic Research Centre	17/06/2002 to 23/06/2005	Gokhale Institute of Politics and Economics, Pune, Maharashtra
10	Chairman, Board of Studies	09/12/2010 to till date	Department of Economics & Rural Development, Alagappa University, Karaikudi, Tamil Nadu

**Education:**

- 1985 B. A., (63.7%) Economics, Bharathidasan University, Tamil Nadu, India  
1987 M. A., (72.9%) Economics, Bharathidasan University, Tamil Nadu, India  
1988 M. Phil., (68.0%) Economics, Bharathidasan University, Tamil Nadu, India  
1993 Ph. D., Economics, Bharathidasan University, Tamil Nadu, India  
2020 LEAP (IIT, Varanasi, 8-21 December, 2019) & (University of Cambridge, UK, 19-26 January 2020)  
2021 D. Litt., Economics, Alagappa University, Tamil Nadu, India

## Books:

- Narayanamoorthy, A.** (2022), *The Irrigation Future of India: Development, Resource and Policy*, Springer Nature, Switzerland.
- Narayanamoorthy, A.** (2021), *Farm Income in India: Myths and Realities*, Oxford University Press, New Delhi.
- Narayanamoorthy, A.;** R.V. Bhavani and R. Sujatha (2019), *Whither Rural India?: Political Economy of Agrarian Transformation in Contemporary India*, A Festschrift for Venkatesh B. Athreya, Tulika Books, New Delhi.
- Beero, S.K. and **A. Narayanamoorthy** (2019), *Irrigation Impacts on Rural Poverty: Macro and Micro Evidence*, Concept Publishing Company, New Delhi.
- Viswanathan, P. K.; M.D. Kumar and **A. Narayanamoorthy** (2016), *Micro Irrigation Systems in India: Emergence, Status and Impact*, Springer, Switzerland.
- Narain, V and **A. Narayanamoorthy** (2016), *Indian Water Policy at the Crossroads: Resources, Technology and Reforms*, Springer, Switzerland.
- 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.
- A. 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.;** R. Suresh and K.S. Sujitha (2021), "The Dying Oasis: A Macro Analysis on Tank Irrigation in Andhra Pradesh, India", *International Journal of Water Resources Development*, (DOI: 10.1080/07900627.2021.1961696, Routledge, London, UK).

Kumar, M.D.; M. Sahasranaman; M. S. Verma, S. Kumar & **A. Narayanamoorthy** (2021) "Getting the Irrigation Statistics Right", *International Journal of Water Resources Development* (available online: <https://doi.org/10.1080/07900627.2021.1921711> Routledge, London, UK).

**Narayanamoorthy, A.;** N. Devika; R. Suresh and K.S. Sujitha (2020), "Efficiency and Viability of Drip Method of Irrigation in Groundnut Cultivation: An Empirical Analysis from South India", *Water Policy*, Vol.22, No.6, pp. 1109-1125 (IWA, London, UK).

Dinesh Kumar, M and **A. Narayanamoorthy** (2020), "Fixing Agricultural Power Tariff without Hurting Farmers", *International Journal of Water Resources Development*, Vol. 37, No. 6, pp. 1035-1039 (<https://doi.org/10.1080/07900627.2020.1823335>) (Routledge, London, UK).

**Narayanamoorthy, A.** and P. Jothi (2019), "Water Saving and Productivity Benefits from SRI: A Study of Tank, Canal and Groundwater Irrigated Settings in South India", Vol. 21, No. 1, pp. 162-177, *Water Policy* (IWA, London, UK).

Dinesh Kumar. M.; V. Ratna Reddy; **A. Narayanamoorthy**; Nitin Bassi and A. J. James (2018), "Rainfed Areas: Poor Definition and Flawed Solutions", *International Journal of Water Resources Development*, Vol. 34, No. 2, pp. 278-291 (Routledge, London, UK).

**Narayanamoorthy, A.** (2018), "Financial Performance of India's Irrigation Sector: A Historical Analysis", *International Journal of Water Resources Development*, Vol. 34, No.1, pp. 116-131 (Routledge, London, UK).

**Narayanamoorthy, A.** (2015), "Groundwater Depletion and Water Extraction Cost: Some Evidence from South India", *International Journal of Water Resources Development*, Vol. 31, No. 4, pp. 604-617 (Routledge, London, UK).

**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).

**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).

**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: 1.658).

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: 1.108].
- 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: 1.175].
- 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: 1.108].
- 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: 1.108].
- Narayanamoorthy, A.** (2007), "Tank Irrigation in India: A Time Series Analysis", *Water Policy*, Vol. 9, No.2, pp. 193-216 [IWA, London, Impact Factor: 1.175].
- 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: 0.869].
- 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: 1.175].
- 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: 1.175].
- Narayanamoorthy, A.** (2002), "Indian Irrigation: Five Decades of Development", *Water Resources Journal*, No. 212, June, pp.1-29 [ESCAP, UN, Bangkok, Thailand].
- Narayanamoorthy, A.** and R. S. Deshpande (1999), "Irrigation Sector of Maharashtra: Some Policy Related Aspects", *Water Resources Journal*, No. 200, March, pp. 72-82 [ESCAP, UN, Bangkok, Thailand].
- Narayanamoorthy, A.** (1997), "Beneficial Impact of Drip Irrigation: A Study Based on Western India", *Water Resources Journal*, No.195, December, pp. 17-25 [ESCAP, UN, Bangkok, Thailand].
- Narayanamoorthy, A.** (1996), "Electric Pumpset and Groundwater Management: Macro and Micro Evidence of India", *Water Resources Journal*, No.189, June, pp. 24-33 [ESCAP, UN, Bangkok, Thailand].
- Narayanamoorthy, A.** (1993), "*Competition for Bore-Well Water and Its Impact on Tank: Some Observations*", in proceedings of the 15<sup>th</sup> International Congress on Irrigation and Drainage, The Hague, The Netherlands, pp. 557-566.

## Indian Journals/Book Chapters:

**Narayanamoorthy, A.** and K.S. Sujitha (2021), "Trends and Determinants of Farmer Households' Income in India: A Comprehensive Analysis of SAS Data", *Indian Journal of Agricultural Economics*, Vol. 76, No. 4.

**Narayanamoorthy, A.**; R. Suresh and K.S. Sujitha (2020), "Is Labour Productivity of Irrigated Crops better than Rainfed Crops?: A Meta-data Analysis", *Indian Journal of Agricultural Economics*, Vol. 75, No. 4, pp. 481-495.

**Narayanamoorthy, A.** and R. S. Deshpande (2021), "Who Benefits from Procurement of Crops in India?", *Indian Journal of Agricultural Marketing*, Vol. 35, No.2, pp. 1-6.

**Narayanamoorthy, A.**; C. Renuka and K.S. Sujitha (2020), "How does Bt Cotton Perform in Rainfed Areas?", *Agricultural Economics Research Review*, Vol. 33, No.1, pp. 53-60.

**Narayanamoorthy, A.**; P. Jothi and R. Suresh (2019), "System of Rice Intensification (SRI) for Mitigating the Risks of Climate Change: A Study of Three Settings from Tamil Nadu", *Indian Journal of Agricultural Economics*, Vol. 74, No. 3, July-September, pp.333-349.

**Narayanamoorthy, A.** (2019), "Doubling Farm Income in India" Strategies and Options", *Indian Journal of Agricultural Marketing*, Vol. 33, No.3, September to December, pp. 21-37.

**Narayanamoorthy, A.** (2019), "Summaries of Group Discussion on Post-harvesting Requirements for Reducing the Gap between What Consumers Pay and Farmers Receive", *Indian Journal of Agricultural Economics*, Vol. 74, No. 1, January-March, pp. 125-127.

**Narayanamoorthy, A.** (2018), "Post-harvesting Requirements for Reducing the Gap between What Consumers Pay and Farmers Receive", *Indian Journal of Agricultural Economics*, Vol. 73, No. 3, July-September, pp. 421-430.

**Narayanamoorthy, A.** (2018), "Managing Farm Risks by Adopting Micro-Irrigation: Evidences from different Crops", *Indian Journal of Agricultural Marketing*, Vol. 32, No.3, September-December, pp. 29-39.

**Narayanamoorthy, A.** (2018), "India's Drip Irrigation Policy", *Geography and You*, Vol. 18, No. 11, December 1-15, pp. 32-38.

**Narayanamoorthy, A.**; M. Bhattarai and P. Jothi (2018), "An Assessment of Economic Impact Drip Irrigation in Vegetable Production in India", *Agricultural Economics Research Review*, Vol. 31, No. 1, pp. 105-112.

**Narayanamoorthy, A.**; M. Bhattarai and R. Suresh (2018), "Has Profitability of Foodgrain Production Declined After Implementation of MGNREGS in India?", in Bhattarai, M; P.K. Viswanathan; R.N. Mishra and Cynthia Bantilan (Eds.), *Employment Guarantee Programme and Dynamics of Rural Transformation in India: Challenges and Opportunities*, Springer, Singapore, 131-152.

**Narayanamoorthy, A.** and S. S. Kalamkar, (2018), "Bt Cotton Cultivation in Maharashtra: An Economic Analysis Based on Field Data" (pp. 351-378) in Chandrasekhara Rao; Carl E. Pray and Ronald J. Herring (eds.), *Biotechnology for a Second Green Revolution in India*, Academic Foundation, New Delhi.

**Narayanamoorthy, A.** and N. Devika (2018), "Economic and Resource Impacts of Drip Method of Irrigation on Okra Cultivation: An Analysis of Field Survey Data", *Journal of Land and Rural Studies*, Vol. 6, No.1, pp. 1-19.

Dinesh Kumar, M; S.A. Prathapar; R. Maria Saleth; V. Ratna Reddy; **A. Narayanamoorthy** and Nitin Bassi (2017), "New 'Water Management Paradigm': Outdated Concepts?", *Economic and Political Weekly*, Vol. 52, No. 49, December, pp. 89-94.

Devika, N.; **A. Narayanamoorthy** and P. Jothi (2017), "Economics of Drip Method of Irrigation in Red Chilli Crop Cultivation: An Empirical Study from Tamil Nadu", *Journal of Rural Development*, Vol. 36, No.3, July-September, pp. 293-310.

**Narayanamoorthy, A.**; N. Devika and P. Jothi (2017), "Smart Farming Through Drip Method of Irrigation: An Analysis Based on Farm Level Data" (pp. 107-125), in Kamal R Gupta and V.B.

Angadi (ed.), *Smart Farming: Problems and Prospects*, Gaurang Publishing Globalise Private Limited, Mumbai.

**Narayanamoorthy, A.**; R. Suresh and P. Alli (2017), "Dynamics of Input Use Efficiency in Selected Crops Cultivation in India: A Temporal and Spatial Analysis", *Indian Journal of Agricultural Economics*, July-September, Vol. 72, No.3, pp. 215-229.

**Narayanamoorthy, A.** (2017), "Farm Income in India: Myths and Realities", *Indian Journal of Agricultural Economics*, Vol. 72, No. 1, January-March, pp. 49-75.

N. Devika; **A. Narayanamoorthy** and P. Jothi (2017), "Economics of Drip Method of Irrigation in Red Chilli Crop Cultivation: An Empirical Study from Tamil Nadu", *Journal of Rural Development*, Vol. 36, No.3, July-September, pp. 293-310.

**Narayanamoorthy, A.** and R. Suresh (2016), "Does Urbanisation Affect Tank Irrigation Development in Tamil Nadu?: A Macro-Level Analysis", *Review of Development Change*, Vol. 21, No. 2, pp. 11-34.

**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. 3, July-September, pp. 333-349.

**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.

**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.

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.

**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.

**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.

**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.

**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.

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.

Kumar, D; **A. Narayanamoorthy**; N. Bassi and V. Niranjana (2011), "Addressing Agricultural Water Management Challenges in the 12<sup>th</sup> Plan: Some Pointers", *Indian Journal of Agricultural Economics*, Vol.66, No.3, July –September, pp. 289-300.

**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.

**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.

**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.

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.

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## **Papers Presented in International Seminars and Conferences:**

Presented a keynote paper on "*Trends in Farm Profitability in India: The Case of Sugarcane Crop*", in 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.

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

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

Presented a paper on *“How to Sustain India’s Groundwater Irrigation?: A Macro Level Investigation”*, in the 3<sup>rd</sup> International Groundwater Conference (IGC-2007), held at the Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu, during February 7-10, 2007.

Presented a paper on *“Micro-Irrigation And Electricity Consumption Linkages In Indian Agriculture: A Field Based Study”*, in 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.

Presented a paper on *“Trends in Irrigated Area in India: 1950-51 to 2002-03”*, in 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”*, in the 6<sup>th</sup> Global Development Network Conference on *Developing and Developed Worlds: Mutual Impact*, held at Dakar, Senegal, during January 24-26, 2005.

Presented a paper on *“Contribution of Factor Inputs to Agricultural Productivity, Rural Development and Poverty Reduction in India: A Cross-States Panel-data Analysis from 1970-1994”*, in 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).

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

Presented a paper on *“Policies for Access, Equity and Equality: Physical Resources and Human Resources”* (with R.S. Deshpande) in the 2<sup>nd</sup> 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.

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

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

Presented a paper on *“Efficient Water Management Through Drip Irrigation: Some Evidences from Western India”*, in the 10<sup>th</sup> Afro-Asian Regional Conference of the International Commission on Irrigation and Drainage, Bali, Indonesia, July 21-22, 1998.

Presented a paper on *“Electric Pumpset and Groundwater Management: Macro and Micro Evidence”*, in the International Conference on the Political Economy of Water in South Asia: Urban and Rural Action and Interactions, Madras Institute of Development Studies, Madras, January 5-8, 1995.

## **Papers Presented in National Seminars and Conferences:**

A. Narayanamoorthy, delivered Dr. T. Haque Memorial Lecture on “Farmers to Labourers: The Tragic Journey of Farmer Households in India”, at the 36<sup>th</sup> National Conference on Agricultural Marketing, organised by the Indian Society of Agricultural Marketing jointly with the Department of Economics, North Bengal University, Siliguri, Darjeeling, West Bengal, on December 14, 2021.

A Narayanamoorthy presented a paper on “Micro-irrigation in India: Status and Challenges”, at the ‘National Workshop on Indian National Water Policy – Issues and Suggestions’, organised by the ICAR-National Academy of Agricultural Research Management, Hyderabad, on November 25, 2021.

A Narayanamoorthy presented a paper on “Agriculture Budget: Has it addressed the core issues?” in the ‘Panel Discussion on Tamil Nadu State Budget: 2021-22’, organised by the Madras Institute of Development Studies (MIDS), Chennai, on August 17, 2021.

A Narayanamoorthy, presented a paper on “De we still Need MSP for Paddy and Wheat?” in the virtual national workshop on “Policy Perspectives on Farm Subsidies in India vis-à-vis Other Countries: Issues and Way Forward” organised by the ICAR-National Academy of Agricultural Research Management (NAARM), Hyderabad, on March 11, 2021.

A. Narayanamoorthy, delivered valedictory address at the international conference on “Liberalization, Privatization and Globalization: Three Decades of Experience in India”, organised by the Department of Economics, The Gandhigram Rural University, Gandhigram, Dindigul, Tamil Nadu, on February 15, 2020.

A. Narayanamoorthy, acted as panelist on the panel discussion at the international conference on “Liberalization, Privatization and Globalization: Three Decades of Experience in India”, organised by the Department of Economics, The Gandhigram Rural University, Gandhigram, Dindigul, Tamil Nadu, on February 15, 2020.

Presented a paper on “System of Rice Intensification (SRI) for Mitigating the Risks of Climate Change: A Study of Three Settings from Tamil Nadu”, at the 79<sup>th</sup> Annual Conference of the Indian Society of Agricultural Economics held at the Indira Gandhi Krishi Vishwavidyalaya, Raipur, Chhattisgarh State, during November 21-23, 2019.

Delivered Prof. G. Parthasarathy Memorial Lecture (presented paper) on “Doubling Farm Income in India: Strategies and Options” at the 33<sup>rd</sup> Annual Conference of Indian Society of Agricultural Marketing (ISAM) held at the Acharya Nagarjuna University, Guntur, Andhra Pradesh during November 7-9, 2019.

Presented a keynote paper on “*Managing Farm Risks by Adopting Micro-Irrigation: Evidences from different Crops*”, at the 32<sup>nd</sup> Annual Conference of Indian Society of Agricultural Marketing, held at the Institute for Social and Economic Change, Bangalore, during November 22-24, 2018.

Presented the Rapporteur’s report on “*Post-harvesting Requirements for Reducing the Gap between What Consumers Pay and Farmers Receive*”, at the 78<sup>th</sup> Annual Conference of the Indian Society of Agricultural Economics, jointly organised by Institute of Economic Growth, Delhi, International Food Policy Research Institute-South Asia, Delhi, Tata-Cornell Institute for Agriculture and Nutrition, Cornell University, USA held at NASC Complex, Pusa, New Delhi, during November 1-3, 2018.

Presented a paper on “*State of Farm Income in India*” in the two-day workshop on ‘Dimensions of Agrarian Distress’ held at the National Institute of Agricultural Extension Management (MANAGE), Hyderabad, during 20-21 April, 2018.

Presented a keynote paper on “*Water Conservation through Micro-Irrigation Technology*”, in the ‘National Seminar on Water: Issues, Challenges and Solutions’, organised by the Department of Social Sciences, VIT University, Vellore, Tamil Nadu, on March 22, 2018.

Presented a paper on “*Public Procurement of Foodgrains and Farm Income Nexus in India: A Macro-Level Analysis*” at the 31<sup>st</sup> National Conference on Agricultural Marketing, held at Nabakrushna Choudhary Centre for Development Studies (NCDS), Bhubaneswar, Orissa, during November 23-25, 2017.

Presented a paper on *“Dynamics of Input Use Efficiency in Selected Crops Cultivation in India: A Temporal and Spatial Analysis”* at the 77<sup>th</sup> Annual Conference of the Indian Society of Agricultural Economics (ISAE), held at the Central Agricultural University, CPGS, Barapani, Meghalaya, during October 12-14, 2017.

Presented a keynote paper on *“Farm Income in India: Myths and Realities”* in the 76<sup>th</sup> 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”*, in 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?”* in 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”* in the 74<sup>th</sup> 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”* in 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, Jalgoan, Maharashtra, on December 19, 2014.

Presented a paper on *“Demand Management of Water and Drip Method of Irrigation Nexus”* in 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”* in the 28<sup>th</sup> 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”* in 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”* in 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”* in the 73<sup>rd</sup> 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?”* in the 73<sup>rd</sup> 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”* in the 27<sup>th</sup> 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”* in 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”* in 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”* in 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”* in 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”*, in 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”*, in the 26<sup>th</sup> 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”*, in the 72<sup>nd</sup> 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”*, in the 72<sup>nd</sup> 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 and Impact”* in 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 16<sup>th</sup> October, 2012.

Presented a paper on *“Augmenting Agribusiness Capabilities of Farmers in Tamil Nadu by Micro-Irrigation Method”*, in 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”* in 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”, in 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”, in the 71<sup>st</sup> 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 12<sup>th</sup> Plan: Some Pointers”, in the 71<sup>st</sup> 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” in 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*” in 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*” in 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*”, in 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?*” in the 70<sup>th</sup> Annual Conference of the Indian Society of Agricultural Economics, held at Jammu University, Jammu, during November 29 to December , 2010.

Presented a (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*”, in 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*”, in 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?*” in 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"* in the 17<sup>th</sup> 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"*, in 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"*, in 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"* in the 68<sup>th</sup> Annual Conference of the Indian Society of Agricultural Economics held at the Andhra University, Visakhapatnam, during November 28-30, 2008.

Presented a paper entitled *"Economics of Drip Irrigated Cotton: A Synthesis of Four Case Studies"*, in 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 in 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", in 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" in 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.

Presented a paper entitled *"Irrigation Development in India: Does it Progress in Right Direction?"* in 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.

Presented a paper entitled *"Agrarian Crisis: How to Overcome?"* in 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.

Presented a paper entitled *"What do farmers do with the water saved thorough MI?"* in 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.

Presented a paper entitled *"Impact of Drip Method of Irrigation on Sugarcane Cultivation"* in a special seminar, at the Institute for Financial Management and Research, Chennai, during April 30, 2007.

Presented a paper entitled *"Bt Cotton Cultivation: Can it Benefit Indian Farmers"*, in 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.

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

Presented a paper entitled *"Has Agrarian Crisis Made any Impact on Agricultural Wages and Employment in India?: An Exploratory Study"*, in the 48<sup>th</sup> annual Conference of the Indian Society of Labour Economics, held at Bharathidasan University, Tiruchirapalli, Tamil Nadu, during January 5-7, 2007.

Presented a paper entitled *"Rural Infrastructure and Agricultural Output Linkages: A Study of 256 Indian Districts"* in the 66<sup>th</sup> 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.

Presented a paper entitled *"Maharashtra's Irrigation Sector: Past, Present and Future"*, in 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.

Presented a paper entitled *"Indian Irrigation Sector: Participatory Management and Pricing"*, in 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).

Presented a paper entitled *"Indebtedness of Farmer Households Across States: Recent Trends and Determinants"*, in the 65<sup>th</sup> Annual Conference of the Indian Society of Agricultural Economics, organised by the Punjab Agricultural University, Ludhiana, during November 24-26, 2005.

Presented a paper entitled *"Do Impact Parameters of Watershed Projects Implemented under Different Institutional Structures Change?: An Analytical Review"*, in the 64<sup>th</sup> 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).

Presented a paper entitled *"Sustainable Cultivation of Sugarcane through Drip Method of Irrigation: Lessons from a Field Study"*, in the 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.

Presented a paper entitled *"Who Benefits from Irrigation Development in India?: Implications for Cost Recovery and Irrigation Financing"*, in 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).

Presented a paper entitled *"Dynamics of Irrigation Impacts on Rural Poverty in India"*, in 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).

Presented a paper entitled *"Can Irrigation Increase Agricultural Wages?: An Analysis Across Indian Districts"*, in 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).

Presented a paper entitled *"Who Bells the Cat: Strategic Issues that the Task Force Needs to Address"*, in 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.

Presented a paper entitled *"Economic Reforms and Agricultural Prices in India"*, in the 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.

Presented a paper entitled *"Averting Water Crisis by Drip Method of Irrigation: A Study of Two Water-Intensive Crops"*, in the 63<sup>rd</sup> 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.

Presented a paper entitled *"Impact of Liberalisation on Domestic Agricultural Prices and Farm Income: An Analysis Across States and Crops"*, in the 63<sup>rd</sup> 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).

Presented a paper entitled *"Linkages between Irrigation and Rural Non-Farm Employment: A Disaggregate Level Analysis based on Census Data"*, in 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.

Presented a paper entitled *"Economics of Drip Irrigation in Sugarcane Cultivation: An Empirical Analysis"*, in 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.

Presented a paper entitled *"Irrigation Impact on Agricultural Growth and Poverty Alleviation: Macro Level Impact Analyses in India"* (with M. Bhattarai) in the IWMI-TATA Annual Meet, International Water Management Institute (IWMI), Vallabh Vidyanagar, Gujarat, during January 27-29, 2003.

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

Presented a paper entitled *"An Overview of Micro Irrigation in India"*, in 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.

Presented a paper entitled *"Evaluation of Seed Use in Pulses and Oilseeds in Maharashtra: An Empirical Analysis"*, in the 62<sup>nd</sup> Annual Conference of the Indian Society of Agricultural Economics, held at Indian Agricultural Research Institute, New Delhi, December 19-21, 2002.

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

Presented a paper entitled *"Impact Assessment of Drip Irrigation in Maharashtra: A Case of Sugarcane"*, in 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.

Presented a paper entitled *"Irrigation Development and Agricultural Wages: An Analysis Across States"* in 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.

Presented a paper entitled *"Irrigation, Agrarian Relations and Agricultural Labourers: A State-wise Analysis"*, in the 43<sup>rd</sup> Annual Conference of the Indian Society of Labour Economics, held at Institute for Social and Economic Change, Bangalore, during December 18-20, 2001.

Presented a paper entitled *"Agricultural Wages and Employment During Post-Reforms Period: Statewise and Cropwise Evidence"*, in the 61<sup>st</sup> 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.

Presented a paper entitled *"Drip Irrigation: An Effective Technology for Sustainable Water Use"*, in 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.

Presented a paper entitled *"Indebtedness of the Scheduled Castes Agricultural Labour Households: A State-wise Analysis"*, in 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.

Presented a paper entitled *"Agrarian Changes, Market Participation and Indebtedness of Scheduled Castes Landless Agricultural Labourers"* (with R. S. Deshpande and A. Jyotishi) in 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.

Presented a paper entitled *"Rural Poverty and Irrigation: Pointers for the Next Millennium"* (with R.S. Deshpande) in the Foundation Day Seminar on Rural Prosperity and Agriculture: Policies for the Next Millennium, National Institute of Rural Development, Hyderabad, November 4-5, 1999.

Presented a paper entitled *"Sustainable Agricultural Development and Micro-Irrigation"*, in the First Biennial Conference of the Indian Society of Ecological Economics, Institute for Social and Economic Change, Bangalore, December 20-22, 1999.

Presented a paper entitled *"The Subsidies Debate: Masked Issues and Muddles of Methodology"*, presented (with R.S. Deshpande) in the U.G.C. National Seminar on Issues in Phasing Out Subsidies, PSG College of Arts and Science, Coimbatore, Tamil Nadu, November 20-21, 1998.

Presented a paper entitled *"Pricing and Financial Issues of Maharashtra's Irrigation Sector"* (with R.S. Deshpande) in the workshop on Economic Problems of Water, jointly organized by the Second Irrigation Commission, Government of Maharashtra and Marathi Economic Association, Sangli, Maharashtra, May 14-15, 1997.

Presented a paper entitled *"A Review of Rural Development Strategies: Staggered Path and Distant Goals"* (with R.S. Deshpande) in the Seminar on Strategies for Rural Development in the Ninth Five Year Plan, National Institute of Rural Development, Hyderabad, February 21-22, 1997.

Presented a paper entitled *"Drip Irrigation: A Viable Option for Future Irrigation Development"*, in the Seminar on Strategies for Rural Development in the Ninth Five Year Plan, National Institute of Rural Development, Hyderabad, February 21-22, 1997.

Presented a paper entitled *"Electricity Tariff Policies and Groundwater Management"*, in the National Seminar on Water Management and Watershed Technology, Gokhale Institute of Politics and Economics, Pune, March, 24-25, 1995.

Presented a paper entitled *"Bore-well Water Management: Water Sellers versus Water Buyers"*, in the Seminar on Irrigation Water Management in Future, Irrigation Management Training Institute of Tamil Nadu, Tiruchirapalli, January, 27-28, 1994.

Presented a paper entitled *“Water Market: A Fissure in Farmers’ Participation”*, in the National Seminar on Farmers Participation, Irrigation Management Training Institute of Tamil Nadu, Tiruchirapalli, January 2-4, 1994.

Presented a paper entitled *“Agricultural Development in Trichy District During the Eighties: A Comparative Analysis with Tamil Nadu”*, in the District Development Seminar Series, Department of Economics, Bharathidasan University, Tiruchirapalli, Tamil Nadu, September 6-7, 1993.

Presented a paper entitled *“Impact of Tube-well Irrigation on Operation and Maintenance of Tank in Pudukkottai”*, in the Seminar on Farmers’ Participation in Managing Irrigation System, Irrigation Management Training Institute of Tamil Nadu, Tiruchirapalli, December 23-24, 1991.

Presented a paper entitled *“Socio-Economic Aspects of Rainfed Tank and Canal Irrigated Villages in Pudukkottai and Thanjavur”* (with S. Iyyampillai) in the National Seminar on Issues in Tank Irrigation, Irrigation Management Training Institute of Tamil Nadu, February 19-21, 1991.

Presented a paper entitled *“Some Aspects of Diffusion and Impact of New Technology in Agriculture”*, in the Seminar on Social Aspects of Rural Development, School of Social Sciences, Bharathidasan University, Tiruchirapalli, Tamil Nadu, March 20-21, 1990.

### **Position Held:**

May 1, 2019 to till date, SENIOR PROFESSOR AND HEAD, Department of Economics and Rural Development, Alagappa University, Karaikudi, Tamil Nadu, India.

August 20, 2018 to May 16, 2019, MEMBER (OFFICIAL), Commission for Agricultural Costs and Prices (CACP), Ministry of Agriculture and Farmers Welfare, Government of India, New Delhi, India.

January 1, 2011 to December 31, 2016, NABARD CHAIR PROFESSOR AND HEAD, Department of Economics and Rural Development, Alagappa University, Karaikudi, Tamil Nadu, India.

January 28, 2008 to August 19, 2018, PROFESSOR AND HEAD, Department of Economics and Rural Development, Alagappa University, Karaikudi, Tamil Nadu, India.

January 4, 2006 to January 26, 2008, READER, Gokhale Institute of Politics and Economics, Pune, Maharashtra, India.

June 27, 2005 to December 31, 2005, PROFESSOR AND DIRECTOR, Centre for Rural Development, Alagappa University, Karaikudi, Tamil Nadu, India.

December 27, 2000 to June 23, 2005, READER, Gokhale Institute of Politics and Economics, Pune, Maharashtra, India.

July 17, 1998 to December 26, 2000, LECTURER, Gokhale Institute of Politics and Economics, Pune, Maharashtra, India.

November 14, 1994 to July 16, 1998, RESEARCH ASSOCIATE, Gokhale Institute of Politics and Economics, Pune, Maharashtra, India.

September 21, 1993 to November 10, 1994, PROJECT ASSOCIATE, Madras Institute of Development Studies, Madras, Tamil Nadu, India.

### **Travel Abroad:**

Visited Cambridge, United Kingdom, during 19-26, January 2020 to attend the Leadership for Academicians Programme (LEAP 2019-20) conducted by the Cambridge Judge Business School, University of Cambridge, UK.

Visited Colombo, Sri Lanka, during December 17-20, 2008 to present a paper at the International Conference on Water Resources Policy in South Asia.

Visited Colombo, Sri Lanka, during September 24-28, 2006 to present a paper at the International workshop on Global Irrigated Area Mapping: 2006.

Visited Dakar, Senegal, during January 22-27, 2005 to act as a discussant for a paper at the 6<sup>th</sup> Global Development Network (GDN) Conference.

Visited Islamabad, Pakistan, during December 12-17, 2002 to present a paper at the Second South Water Forum.

Visited Colombo, Sri Lanka, during February 17-26, 2002 to finalise a Research Study with the International Water Management Institute (IWMI).

### **Member in Academic Associations:**

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.

Life Member, The Agricultural Economics Research Association (India), F-4, A Block, NASC Complex, DPS Marg, Pusa, New Delhi-110 012.

Life Member, The Indian Society of Labour Economics, IAMR Building, I.P. Estate, M.G. Road, New Delhi – 110 002.

Life Member, The Indian Academy of Social Sciences, Iswar Saran Ashram Campus, Allahabad – 211 004 (UP).

Life Member, The Indian Society of Agricultural Marketing, 112-A, KT Nagar, Katol Road, Nagpur – 440 013.

Life Member, The Association of Economists of Tamil Nadu, Tiruchirapalli – 620 019, Tamil Nadu.

Member, The Indian Society of Ecological Economics, Institute of Economic Growth, University Enclave, Delhi – 100 007.

### **Awards and Honours Received:**

Received ISAE FELLOW 2019 award at the 79<sup>th</sup> Annual Conference of the Indian Society of Agricultural Economics held at the Indira Gandhi Krishi Vishwavidyalaya, Raipur, Chhattisgarh State on November 21, 2019. This award was given for my outstanding contributions in the area of agricultural economics, and irrigation specifically relating to micro irrigation, watershed management, farm economics and benefit-cost analysis in agriculture.

Appointed (on August 20, 2018) as full-time Member (Official), Commission for Agricultural Costs and Prices (CACP), Ministry of Agriculture and Farmers Welfare, Government of India, New Delhi, India.

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.

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.

Received the Alagappa Excellence Award for Research (on April 6, 2016) for the year 2015-16 for the excellent contribution to research with the citation and cash prize from Alagappa University, Karaikudi, Tamil Nadu.

Received the Professor of Excellence Award (on April 6, 2018) for the excellent academic contribution with the citation and cash prize from Alagappa University, Karaikudi, Tamil Nadu.

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>).

Member, Sub-group of the Committee on Statistics of Agriculture and Allied Sectors by the Ministry of Statistics and Programme Implementation, Government of India, New Delhi.

Member, Working Group on Terms of Trade between the Agriculture and Non-Agriculture Sectors by the Ministry of Agriculture, Government of India, New Delhi.

Member, Sub-committee on 'Irrigation - Minor Irrigation, Tank and Canal Irrigation' of the "Commission on Inclusive and Sustainable Agriculture Development of Andhra Pradesh" GOAP, Hyderabad.

Vice-President, Indian Society of Agricultural Economics, Mumbai.

Executive Committee Member, Indian Society of Agricultural Economics, Mumbai.

Executive Committee Member, Indian Society of Agricultural Marketing, Nagpur.

Member, Editorial Committee, Indian Journal of Agricultural Economics, Mumbai.

Member, Editorial Committee, Indian Journal of Agricultural Marketing, Hyderabad.

### **Academic References:**

Prof. R. S. Deshpande, Former Director, Institute for Social and Economic Change (ISEC), Nagarabhavi, Bangalore – 560 072, India. Email: [rs.kalbandi@gmail.com](mailto:rs.kalbandi@gmail.com)

Prof. R. Maria Saleth, Former Director, Madras Institute of Development Studies (MIDS), 79, II Main Road, Gandhinagar, Adyar, Chennai – 600 025, India. Email: [r.saleth@gmail.com](mailto:r.saleth@gmail.com)

Prof. Ramesh Chand, Member, NITI Aayog, Government of India, New Delhi. Email: [rcncap@gmail.com](mailto:rcncap@gmail.com)

I, A. Narayanamoorthy, hereby declare that the above-mentioned details are true to the best of my knowledge and belief.

Yours faithfully  
A. Narayanamoorthy