

CURRICULUM VITAE OF PROF N. NAGARAJ, PhD

Professor and Programme Coordinator, GPS Institute of Agricultural Management,
Peenya, Bangalore 560058

Dr. N. NAGARAJ, PhD

Former Principal Economist (Markets, Institutions and Policies),
International Crops Research Institute for the Semi-Arid Tropics (ICRISAT),
Patancheru-5002 324, Hyderabad,
Former Professor and Head, Dept of Agricultural Economics, UAS,
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Date of Birth: 03/04/1955



Glimpse of Academic Credentials

- 1) **The Indian Society of Agricultural Economics Fellow award for the year 2014** for lifetime contribution to the field of **Agricultural Economics and rural development** and for continuous support in promoting the Society
- 2) **ICRISAT honors outstanding Partnership Award, Dec 2014, in recognition of outstanding contribution in enhancing livelihoods of smallholder dryland cereal farmers in South Asia**
- 3) **Fulbright Scholar for the year 1998-99 at the University of Colorado, Fort Collins, USA**
- 4) **Conferred the Coveted Jawaharlal Nehru award for the best Ph.D.Thesis** entitled "Groundwater Irrigation from Low Yielding Bore wells in Hard rock areas of Karnataka -An economic analysis" by Indian Council of Agricultural Research for the year 1995
- 5) **Kyoto University Visiting Research Fellowship** for the year 2009, Centre for Southeast Asian Studies, Kyoto University, Japan
- 6) **D. K. Desai award for the best article in Agricultural Economics Indian Society of Agricultural Economics**, for the year 1995, entitled "Low yielding irrigation wells in peninsular India - An economic analysis
- 7) **Awarded Postdoctoral Fellowship by French Government for the year, 1997-98** National Institute of Agronomic Research (INRA) and CERNA, *Ecole de Mine*, Paris, France,
- 8) **Conferred Environmental Economic Research Overseas Fellowship** under the World Bank aided India Capacity Building Project for the year 2000-As Visiting Professor at the University of Arizona, Tucson, US, (From April, 2001 to June 16th, 2001
- 9) **Certificate of Merit award conferred by University of Agricultural Sciences**, for having brought external funded Research projects of above 25 lakhs to the institution during 2003-04, 2004-05, 2005-06, 2007 and 2008 and 2009 consecutively.
- 10) **Handled pioneering international research projects** with sponsorship from USAID, IFPRI, World Bank at the University focusing on natural resource economics and institutional aspects of water and water policy research
- 11) Handled an important Action Research Project sponsored by USAID, IFRI and World Bank and successfully **implemented sustainable cost effective agricultural technologies generated by UAS** in selected villages of Karnataka **from 2004-2007**, to address the key challenges in livelihood security, water management, sustainable systems, value addition and market linkage
- 12) About three and half decades experience in the area of **teaching, research, outreach**, impact assessment of improved technologies/practices/innovations, policy analysis and administration

- 13) International work experience at the University of Colorado, Fort Collins, University of Arizona, Tucson, INRA, France, Centre for South East Asian Studies, Japan.
- 14) Worked as Principal Economist at International Crops Research Institute for Semi-Arid Tropics (ICRISAT), Patancheru, Hyderabad
- 15) Secured several research projects from National and international organizations such as World Bank, USAID, IFPRI through which I have built human capital as well as the infrastructure in the Department of Agricultural Economics
- 16) **Maintained excellent track record in teaching, research and outreach activities.**
- 17) **As global team leader at ICRISAT provided leadership, vision and direction to project partners on targeting and priority setting through baseline surveys, ex-ante and ex-post impact assessment of improved technologies, monitoring, tracking adoption and diffusion pathways of improved cultivars of dry land cereals and grain legumes**
- 18) Served as Coordinator in implementing the project on Village Dynamics for South Asia project (VDSA) in Semi-arid Karnataka Villages-**Provide leadership, vision and direction to track rural poverty and development pathways, the livelihood options of rural households**
- 19) Served as Coordinator for evaluating adoption and Impact assessment for Chick pea in Karnataka state under Tropical Legumes- II project
- 20) **Attained Postdoctoral Work Experience in the area of Institutional and Resource Economics**
 - a) Worked in the area of Institutional Management Regimes and Economic Instruments for Sustainable Use of Water-The French Model Lessons for India (From Nov, 1997 to Oct 1998, at INRA and CERNA, Paris France)
 - b) Groundwater Institutions in Western US and India: Sustainable and Equitable Resource Use-Lessons for India (From Nov, 1998 to June 1999, at the University of Colorado, Dept of Agriculture and Resource Economics, Fort Collins, US)
 - c) Environmental implications of groundwater depletion and quality degradation -Methods to Estimate the Marginal opportunity cost and Economic Value of groundwater (From April to June, 2001, at the University of Arizona, Dept of Agriculture and Resource Economics Tucson, US)

EXPERIENCE IN TEACHING, RESEARCH, EXTENSION AND ADMINISTRATION: 35 Years

April 2016 to Date:	Professor and Programme Coordinator, GPS Institute of Agricultural Management, Peenya, Bangalore 560058
Oct 2015 to Jan 2016	Consultant IWMI
April 2011 to – June 2015	Principal Economist, Markets, Institutions and Policies, International Crops Research Institute for the Semi-Arid Tropics (ICRISAT), Telangana, Andhra Pradesh
Nov 2009 - March 2011	Head of the Department, Agricultural Economics, University of Agricultural Sciences, GKVK campus, Bangalore
June 2003 - November 2009	Professor, Dept. of Agricultural Economics, University of Agricultural Sciences, GKVK campus, Bangalore

September 2009 – April 2011	Honorary Director, Comprehensive Scheme for cost of cultivation of principal crops in Karnataka, University of Agricultural Sciences, GKVK, Bangalore
June 2009 – November 2009	Visiting Research Scholar, Centre for South East Asian Studies, Kyoto University, Japan
Oct. 1999 - May 2003	Professor , Department of Agricultural Economics, University of Agricultural Sciences, VC. Farm, Mandya, Karnataka
Jan 1994 - Oct. 1999	Associate Professor, Department of Agricultural Economics, University of Agricultural Sciences, Bangalore
April 1983-April 1994	Assistant Professor, Department of Agricultural Economics, University of Agricultural Sciences, Bangalore
December 1980 – April 1983	Research Associate, VC. Farm, Mandya-571405, and University of Agricultural Sciences, GKVK, Bangalore- 560065.

Field of Specialization: Production Economics, Institutional and **Water (Natural) Resource Economics**, Monitoring Evaluation and Impact Assessment, Markets and Policy Analysis, Technology, Agricultural and Development Economics

ACADEMIC QUALIFICATIONS:

Degree/ Subject of Specialization	Year of Award	Name and Location of the Academic Institution	Class secured
a. Ph.D.* Agricultural Economics	1994	University of Agricultural Sciences, Bangalore	First
b. M.Sc. (Agri)* * Agricultural Economics	1982	University of Agricultural Sciences, Bangalore	First
c. B.Sc. (Agriculture)	1979	University of Agricultural Sciences, Bangalore	First

* Ph.D thesis title: Economic analysis of Low yielding irrigation wells in peninsular India

* * MSc thesis title: Credit Requirement Estimates for optimal Input-output level, A Study of Dryland Farmers

AWARDS AND DISTINCTIONS:

1) Awards & Recognitions

	Year	Name
International	1999	Fulbright Fellowship for the postdoctoral studies for the year 1998-99 at the University of Colorado, Fort Collins, USA
	1998	Postdoctoral Fellowship from French Government for the year, 1997-98 at National Institute of Agronomic Research (INRA) and CERNA, <i>Ecole de Mine</i> , Paris, France Environmental Economic Research Oversea Fellowship - for Short-term visit to oversea university/Institution under the World Bank aided India Capacity Building Project for the year 2000-As Visiting Professor at the University of Arizona, Tucson, US,
	2014	Kyoto University Visiting Research Fellowship for the year 2009 (from June 2009 to November 2009), Centre for Southeast Asian Studies, Kyoto University, Japan ICRISAT honors outstanding Partnership Award , Dec 2014, in recognition of outstanding contribution in enhancing livelihoods of smallholder dryland cereal farmers in South Asia
National	1995	1) Jawaharlal Nehru award for the best Ph.D. dissertation 2) D. K. Desai award for the best article in Agricultural Economics by Indian Society of Agricultural Economics, for the year 1995, entitled "Low yielding irrigation wells in peninsular India - An economic analysis
	2015	3) The ISAE Fellow awarded for the year 2014 for lifetime contribution to the field of Agricultural Economics and Rural development and for continuous support in promoting the Society.
State	2003-04	3) Certificate of Merit award conferred by University of Agricultural Sciences , for having brought external funded Research projects of above 25 lakhs to the institution
	2005	4) Certificate of Merit award conferred by University of Agricultural Sciences , for having brought external funded Research projects of above 25 lakhs to the institution
	2006, 2007, 2008, 2009	5) Certificate of Merit award conferred by University of Agricultural Sciences , for having brought external funded Research projects of above 25 lakhs to the institution

RESEARCH:

Recent Project completed:

a). Rehabilitation (De-siltation) of Irrigation Tanks in Karnataka-An Economic and Ecological Impact Analysis under different Management Regimes, funded by Internal Water Management Institute (April 2016)

b).Research Projects completed at ICRISAT recently

1. Water Energy Nexus in South Asia Semi-Arid Resource Poor Economies: Role of supply and demand side interventions (2015)

2. CRP-Dry land Cereals-Priority Setting and Adoption analysis

3. Assessing farmers' behaviour in relation to risk associated with adoption of capital intensive technologies and mitigation strategies in India for pearl millet and post-rainy sorghum

4. **Village Dynamics in South Asia (VDSA):** Provide leadership, vision and direction to track rural poverty and development pathways, the livelihood options of rural households in selected villages of Karnataka State

a) **Research Projects completed and resource mobilized:** (period, agency, amount)

As Principal Investigator:

SI No	Title of the project	Funding Agency	Amount (Rs)
1	Harnessing Opportunity for Productivity Enhancement of Pearl Millet and Post rainy sorghum in West and Central Africa Eastern and Southern Africa, and South Asia:	Bill Gates Foundation	-
2	Study of spatial and temporal dynamics of labor market behavior by using household panel data of ICRISAT in South Asia	IFPRI	US \$ 2.5 lakh
3	Tropical grain legumes: Real-time tracking of varietal diffusion under Tropical Legumes-II (Phase-2) Chickpea in Karnataka state	Bill Gates Foundation	
4	Livelihood Security Of Rural Poor In Disadvantaged Chitradurga District Of Karnataka Through Integrated Farming Systems Approach	NAIP-ICAR	3.65 Crores
5	Water Resource Management-Water harvesting from groundwater recharge	Indo-US, Agricultural Knowledge Initiative-US Govt with ICAR	12 Lakhs
6	Economic appraisal of NREGA (National Rural Employment Guarantee Act) in Karnataka State	UNDP under Ministry of Rural Development, GOI	8 Lakhs

7	Socio Economic Feasibility of Geographical Indications (GI) on products obtained through practices supporting biodiversity	European Commission	10 Lakhs
8	Economic Impacts of Contract Farming on different classes of farmers	IFPRI, Washington DC, US	13 Lakhs
9	Institutional and Economic Analysis of Water Harvesting in Different Micro-watersheds in Eastern and Central Dry Zones of Karnataka	Sponsored by World Bank-Sujala watershed, Government of Karnataka)	30 Lakhs
10	The Next Generation: Developing India's Institutional Capacity to Confront Agriculture's 21 st Century challenges	USAID-Washington DC	46 Lakhs
11	Techno economic feasibility study on "Integrated Development of Horticulture in Tribal/Hilly areas in the districts of South & North Kanara	Ministry of Agriculture and Rural Development, Government of India	5.6 Lakhs
12	Impact of Globalization on Indian seed industry-Implications for the integration of biotechnology-funded by NATP-(World Bank) under competitive grants program	NATP, ICAR, New Delhi	9.7 Lakhs
13	Designing Methodologies for Evaluation of Economic and Environmental Implications of Groundwater Depletion and Quality Degradation effects - A study in Karnataka Peninsular India	Indira Gandhi Institute of Development Research, Mumbai under World Bank	12 Lakhs
14	Resource Characterization and socio-economic constraint analysis of maize based crop production systems in Rainfed Ecozones of Karnataka	NATP-ICAR	8 Lakhs
15	Degradation and rehabilitation of irrigation tanks in Karnataka: An Institutional Analysis	WINROCK International	4 Lakhs
16	An Economic Analysis of Fruit processing - A case of Karnataka Agro Fruits Limited 1994	University Funding	0.5 Lakhs
17	Comprehensive Scheme on Cost of cultivation of Principal Crops in Karnataka state	Government of India	85 Lakhs annually

b) Other Research Projects completed: (As Co- Principal Investigator)

1. Team of Excellence in Natural Resource Economics funded by NATP-World Bank, as Associate member (My Research focuses on valuation of irrigation induced negative externalities in surface irrigation and water policy)

2. Economic viability of small farmers in Karnataka, State Planning Board, Government of Karnataka, Jan, 1996.
3. Ex-ante evaluation of Sannabommarahalla and Upparahalla watersheds, Bellary district, Karnataka", as requested by Overseas Development Agency, U.K.", 1995

TRAINING PROGRAMMES ORGANIZED:

Organization of International Seminars/Workshops

- Organized National Symposium and Policy Dialogue on "Dynamics of Rural Labor Markets: Implications for Agricultural Growth and Rural Transformation, 15-16 September 2014, New Delhi
- Organized Policy Outreach Workshop for "Promotion of Pearl Millet Technologies in Western India" on Feb 24, 2014 at Bikaner, Rajasthan.
- Organized Capacity Building and Training Workshop on "Village Social Accounting Matrix (SAM) and Computable General Equilibrium (CGE) Modeling: Application in Agricultural Research and Development Studies", November 3-10, 2014 at GIDR, Gujarat, India.
- Organized Training on "Adoption and Impact Assessment of Research and Development Projects for Up-scaling and Higher Impacts" for the benefit of state Agricultural University Partner Institution Economists. 27-30 November 2013, ICRISAT, India

As Course Director, organized ICAR-sponsored Summer Institute on **Natural Resource and Water Resource Management** in Agriculture for the benefit of State Agricultural University Faculty from July 29th to Aug 18th of 2004 at UAS, Bangalore

International conference organized

- As organizing Secretary, Organized International Conference on the "Emerging Institutions in Addressing the problems of Agriculture" at the University of Agricultural Sciences, Bangalore, Dec, 24th 2008, Sponsored by International Food Policy Research Institute, Washington DC, USA.
- As organizing Secretary, Organized International Conference on the "21st Century Challenges to Sustainable Agri-food Systems: Biotechnology, Environment, Nutrition, Trade and Policy" at the hotel Atria, from 15th to 17th of March 2007.
- As Principal Investigator organized Indo-US Agricultural Knowledge workshop on Water Resource Management at UAS, Bangalore, March 9-10, 2007

TEACHING EXPERIENCE: COURSES OFFERED:

- **Post graduate courses:** Agricultural Production Economics, Research Methodology in Social Sciences, Advances in Production Economics, Genesis of Economic Thought
- **Under graduate courses:** Introduction to Agricultural and Natural Resource Economics, Farm Management and Production Economics and Agribusiness
- **Special efforts for curriculum development, teaching, evaluation, etc.**
Involved in developing/refining new courses and revision of syllabus of the existing courses for the UG and PG program at UASB.

Students Guided: As chairmen: MSc: 22 PhD: 3

Presently guiding: PhD. 1

Interns guided: 5

IMPORTANT RESEARCH PAPERS DURING LAST FIVE YEARS

(Out of eighty two research papers listed separately):

- 1 Nagaraj, N. Cynthia Bantilan, Lalmani Pande and Namrata Singh Roy, (2016), Impact of MGNREGA on Rural agricultural Wages, Farm productivity and Net Returns. *Indian Journal of Agricultural Economics*. 71 (2): 176-189
- 2 Nagaraj, N, Uttam Deb, Anusha, R and Cynthia Bantilan. (2016), Is Smallholder Farming Economically Viable? Evidences from Village Dynamics Studies in Karnataka, Peninsular India. *Indian Journal of Agricultural Economics* (forthcoming issue special volume as a part of the Inter-Conference Symposium)
- 3 Vania, G. K. Srikantha Murthy, P.S. Chandrakantha , M.G. Nagaraj, N and Bhattarai, M. (2015). Employment Generation, Labour Migration and MGNREGP Interventions: Evidences from a Village Level Study. *Agricultural Economics Research Review*. 28 (2015) : 267-274
- 4 Nagaraj N, Bantilan MCS, Ashok Kumar A, Sharma Rajan, Anusha R and Haldar Surajit. (2013). Technological and Institutional Interventions in enhancing livelihood of farmers in semi-arid tropics (SAT) areas: Experience of ICRISAT-HOPE Project. *Indian Journal of Agricultural Economics*. 68(3): 313-325
- 5 Nagaraj N, Basvaraj G, ParthasarthyRao P, Cynthia Bantilan and HaldarSurajit. (2013). Sorghum and Pearl millet Economy of India: Future Outlook and Options. *Economic and Political Weekly*. 48 (52): 74-81.
- 6 Chengappa, P.G., Nagaraj N., Mangala K.P., Vijayalakshmi Dega. (2013). Improving the Supply Chain Management for Vegetables through Contract farming and Organized Food Retail Chains: Indian Experience. Proceedings of the Regional Symposium on High Value Vegetables in Southeast Asia: Production, Supply and Demand (SEAVEG 2012). Eds: Holmer R, Linwattana G, Nath P, Keatinge JDH. The World Vegetables Centre, Publication No. 12-758. AVRDC –The World Vegetable Centre, Taiwan: 235-250
- 7 Nagaraj, N and Haldar, S and Bantilan, M C S (2012) *Adoption and Impact of Technology on Pearl Millet Production in India: Farm and Regional Level Ex-ante and Ex-post Impact Analysis*. *Indian Journal of Agricultural Economics*, 67 (3). p. 432.
- 8 SeemaShaktawat, Singh I P, **Nagaraj N** and Shirish Sharma (2012) Resource Use Efficiency and Returns to Investment in Research of Pearl Millet in Rajasthan. *Indian Journal of Economics and Development*. 8(4):1-12.
- 9 Channaveer, Chandrakanth MG and **Nagaraj N**. 2012. Governance of benefits from developmental programmes to farmers in Karnataka. *Indian Journal of Agricultural Economics*. 67(3): 476-486.

- 10 Ramalingegowda U.C, Chandrakanth, M.G. Srikantahmurthy, P.S., Yadav, C.G., **Nagaraj, N.**, and Channaveer, Economics of peri urban agriculture – case of Magadi Off Bangalore, *Econ & Political Weekly*, 47(24): 75-80.
- 11 B. G Harish, **N. Nagaraj**, M. G. Chandrakanth, P.S. Srikantha Murthy, P. G. Chengappa and G. Basavaraj. (2011). Impacts and Implications of MGNREGA on Labour Supply and Income Generation for Agriculture in Central Dry Zone of Karnataka. *Agricultural Economics Research Review*, vol. 24 (Conference Number), 485-494 pp
- 12 N. Nagaraj, Umesh Pradhania, P. G. Chengappa, G. Basavaraj and Ramesh Kanwar (2011) Cost Effectiveness of Rainwater Harvesting for Groundwater Recharge in Micro-Watersheds of Kolar District of India-The Case Study of Thotli Micro-Watershed, *Indian Journal of Agricultural Economics*, Vol.24, PP: 161-167
- 13 A.B.Tejaswani, P.S.Srikanthamurthy, M.G.Chandrakanth, **N.Nagaraj** & H. Chandrashekar, (2011), An economic Analysis of Desiccated coconut production in major coconut growing regions of Karnataka, *Journal of Plantation Crops*, Vol. 39 (1) :260-264
- 14 N. Nagaraj, M G. Chandrakanth, David Acker, P.G. Chengappa and H. R. Shruthi, (2009), Economic Performance of Self Help Group's in Karnataka, with special reference to Venkatanalli in South India, *Indian Journal of Agricultural Economics*, Vol.64 (4), PP: 604-617
- 15 N. Nagaraj, M.G. Chandrakanth, P.G. Chengappa, H.S. Roopa and Pramod M. Chandakavate, (2008). Contract Farming and its Implications for Input-supply, Linkages between Markets and Farmers in Karnataka, *Agricultural Economics Research Review*, (21): PP 307-316
- 16 Seema, H.M, Chandrakanth, M.G., and **Nagaraj, N.**, (2008), Equity in distribution of benefits from water harvesting and groundwater recharge – An economic study in Sujala watershed project in Karnataka, *Proceedings of the 7th Annual Partners' Meet of IWMI-TATA Water policy program, Vol 2., pp. 720-746, April 2-4, 2008.*

Students Guided: As chairmen: M Sc: 25 PhD: 2

As Advisory Committee Member: 40

SPECIAL HONORS:

- a) Nominated as **Chairman /Rapporteur** for the session on "Development of Dryland Agriculture: Technologies, Institutional infrastructure and Policy Imperatives" for papers submitted during the 73rd Annual Conference of the Indian Society of Agricultural Economics, to be held at National Academy of Agricultural Research Management, Hyderabad, during 2nd week of Dec 2013
- b) **Consultant** for SANDEE, (south association network for development and environmental economics, based in Kathmandu) funded by Rockefeller Foundation.

Nominated Member in the High-level Committee:

- 1) Member in the Karnataka State Water Resource Authority (Sept 2008 to March 2011)

2) Served as Economist in the High-level committee constituted by Chief Minister, Government of Karnataka, to estimate the economic loss incurred by the farmers on account of scarcity of water in Cauvery basin, Karnataka. 2003-2004, India

Membership in Professional Societies:

1. Indian Society of Agricultural Economics (Life member)
2. Agricultural Economics Research Association (Life member)
3. Economic and Political Weekly
4. Indian Society of Ecological Economics
5. Member, Editorial Board, Agricultural Economics Research Association

SPECIAL INVITATIONS TO PRESENT PAPERS IN SEMINARS/WORKSHOPS

International

- Invited to present the research paper entitled “Policy Induced Transformation in Dryland Agriculture: The Case of Tharati Village in Karnataka” in Mini-symposium on “Rapid Transformation of Rural Economies in South Asia: Insights from Village Dynamics Studies”, 8th International Conference of the **Asian Society of Agricultural Economists** held during 15-17 October 2014 in Savar, Dhaka.
- Invited to present the research paper entitled “Targeting and Diffusion of Chickpea improved cultivars in Karnataka state of India” in Mini-symposium on “Rapid Transformation of Rural Economies in South Asia: Insights from Village Dynamics Studies”, 8th International Conference of the **Asian Society of Agricultural Economists** held during 15-17 October 2014 in Savar, Dhaka.
- Invited as a resource person to present and chair a session on Development initiatives in food production, utilization and management in Urban and Peri-urban agriculture, FAO sponsored **Regional Workshop on Strengthening Urban & Peri-urban Agriculture towards Resilient Food Systems in Asia**, 28-30 January 2013, Plaza Athenee Hotel, Bangkok, Thailand
- Invited to present the research paper entitled “**Water crisis in a changing World: Innovative approaches and Policy Imperatives**” at United Nations University-Institute of advanced Studies, Yokohama, Japan: Sept 16, 2009.
- Invited to participate and present a paper on “**Sustainability, efficiency, and equity in groundwater resource management in peninsular India**”, in the conference organized by MAISON DES SCIENCES DE L’HOMME, South Asian Program on Indo French Collaboration, Paris, France, May 19th 20th, 2005
- Invited to present a paper entitled “**Methods to estimate the marginal opportunity cost and economic value of groundwater**, International Symposium on Environmental Economics, Texas A&M University, College Station, US, May 28, 2001

- Invited to present a paper entitled “Implications of Liberalization on **Groundwater Irrigation Sector in India**”, by the Centre for Studies of India and South Asia (CEIAS), Paris France, dated 15th May 1998

National

Invited to present the research paper entitled “Impact of MGNREGA on Rural Agricultural Wages in SAT India” in the national seminar **on Dynamics of Rural labour relations, in India**, held at S R Sankaran Chair, National Institute of Rural Development, Rajendranagar, Hyderabad. Also chaired a session on “Livelihood issues of the marginal groups.

- Invited to present the research paper entitled “Is smallholder Farming Economically Viable? Evidences from Village Dynamics Studies in Karnataka, Peninsular India” in **IAAE Symposium**, “Re-visiting Agriculture Policies in the light of Globalization Experience: The Indian Context” held during 12-13 October 2014 at MANAGE, Rajendra Nagar, Hyderabad.
- Presented paper entitled “Challenges and Strategies in making small and Marginal Farm holdings Sustainable and Profitable” in the National workshop on Agrl Risk management held during Jan 3-4th, 2014 in **Hyderabad at Centre for Good Governance**.
- Invited to present the research paper entitled “Economic Impacts of MNREGA in Drought Prone Districts of Karnataka: Evidences from VDSA Villages” in conference on The MGNREGA in India: Taking Stock, Looking ahead, organized by IFPRI, **Cornel University and IGIDR**, Mumbai, March 26-28, 2014.
- Invited to present the research paper entitled “Impact of MGNREGA on Agricultural Labor Scarcity and Wages in SAT India”, at National Symposium on “Dynamics of Rural Labor Markets: Implications for Agricultural Growth and Rural Transformation, 15-16 September 2014, New Delhi.
- Invited to present the paper entitled “Potential of Horticulture led Development Pathways and its implications on Income, Employment, Gender Equity and Profitability of Small Holders - Evidences from ICRISAT-VDSA Villages of Karnataka, SAT India” in the “Horticultural industry in India with special reference to Karnataka: Challenges and Opportunities”, Department of Agricultural Economics, College of Agriculture, Bijapur, Karnataka during 12-14th Feb, 2014.
- Invited to present the paper entitled “**Tracking Rural Poverty and Development Pathways in Rain fed Agriculture of SAT villages in Karnataka, Peninsular India**” in the Seminar on Growth and Development of Agriculture in Karnataka: Prospects and Strategies, organized by ISEC, Bangalore 7th June 2012.
- Invited to present the research paper entitled “Contract Farming and Its implications for input supply, credit, linkage between markets and farmers in Karnataka, in the National Conference on emerging issues in contract farming, organized by Instiute for Development, Mysore University, Mysore, Feb 20th 2009
- Invited to present the research paper entitled **Impact of Water Harvesting on Groundwater Recharge, Productivity and Net Returns with Integrated Farming Systems Approach in**

- Eastern Dry Zone of Karnataka** in IWMI-Tata Water Policy Program 7th Annual Partners Meet, Managing Water in the Face of Growing Scarcity, inequity and Declining Returns: Exploring Fresh approaches, April 02-04 2008, at ICRISAT Campus, Hyderabad, India
- Invited to present the paper on” **Comparative study of groundwater institutions in the France and Peninsular India** for sustainable and equitable resource use-lessons for India, Indo French Seminar on Water organized by CEFIPRA, Ahmedabad, 29th to 31 Jan 2008
 - Invited to present the research paper on “Assessing the **impact of Groundwater Pollution on Production, Productivity and Health**”-A case of Vrishibavathi River Basin, Karnataka, Peninsular India In 5th IWMI-Tata Annual Partner’s Workshop 2006 at Institute of Rural Management, Anand, Gujarat, March 8-10th, 2006
 - Invited to present the research paper on” **Comparative study of groundwater institutions in the Western United States, France** and Peninsular India for sustainable and equitable resource use-some lessons for India, Workshop on “Water, Law and the Commons”, International Environmental Law Research Centre, New Delhi, 8 Dec, 2006.
 - Invited to present the research paper entitled “Impact of contract farming in vegetable seed production on farmer’s income, employment, socioeconomic and rural development in Karnataka” at the Foundation Seminar organized by National Institute of Rural Development, Hyderabad, Nov, 8-11, 2005
 - Invited to present a paper on **Economic analysis of groundwater markets in Central Dry zone of Karnataka, In IWMI-Tata Annual Partner’s Workshop 2005** at Institute of Rural Management, Anand, Gujarat, Feb 24-26, 2005
 - Invited to present the research paper entitled **Impact of Water Harvesting on Groundwater Recharge, Productivity and Net Returns with Integrated Farming Systems Approach in Eastern Dry Zone of Karnataka** in IWMI-Tata Water Policy Programme 7th Annual Partners Meet, Managing Water in the Face of Growing Scarcity, inequity and Declining Returns: Exploring Fresh approaches, April 02-04 2008, at ICRISAT Campus, Hyderabad, India
 - Invited to present a paper on theoretical and **empirical issues in impact assessment of watershed development projects including environment: National Seminar on Impact assessment of watershed development**-conceptual and methodological issues: organized by Water Technology Centre, Tamilnadu Agricultural University Coimbatore, Nov 24-26, 2004
 - Invited as a resource person for the seminar entitled "**Coping mechanisms in response to groundwater scarcity**" held at Tamilnadu Agricultural University, Madurai campus, Tamilnadu, India. October 1997.
 - Invited as a resource person to deliver a talk on "**Depletion of groundwater in hard rock areas of Karnataka and corrective measures**", for Indo-Canadian students organized by Institute for Socio-economic Change, Bangalore, June 7 1996.
 - Invited to present a research paper entitled "**Economics of tank rehabilitation in Karnataka**", **at the seminar on environmental economics** organized by Centre for Science and Environment, New Delhi. June 27-29 1996

- Co-management of Power and Groundwater Issues in Equity and Sustainability in Water Scarce Areas held at Tata Energy Research Institute New Delhi on 19th December 1994.
- Invited to present the paper entitled Electricity pricing for groundwater irrigation in the Hard Rock Areas of Deccan-plateau-VIKSAT, Ahmedabad Dec.14-16, 1993.
- Invited to prepare curriculum and syllabus for International Training Course in Tropical Sericulture at Central Sericultural Research and Training Institute, Mysore December - February 1992.

PARTICIPATION IN INTERNATIONAL WORKSHOP / SEMINARS:

National and International Seminar/Conference presentations:

Nagaraj N, Deb Uttam, NageswaraRao GD, Anusha R and Bantilan Cynthia.2014. Is smallholder Farming Economically Viable? Evidences from Village Dynamics Studies in Karnataka, Peninsular India. Presented in IAAE (International Association of Agricultural Economics) Symposium, "Re-visiting Agriculture Policies in the light of Globalization Experience: The Indian Context" held during 12-13 October 2014 at MANAGE, Rajendra Nagar, Hyderabad.

Nagaraj N, Deb Uttam, NageswaraRao GD, AnushaR and Bantilan Cynthia. 2014. Policy Induced Transformation in Dryland Agriculture: The Case of Tharati Village in Karnataka. Presented in Mini-symposium on "Rapid Transformation of Rural Economies in South Asia: Insights from Village Dynamics Studies", 8th International Conference of the Asian Society of Agricultural Economists, 15-17 October 2014 in Savar, Dhaka.

Kulkarni Girish, Nareppa Nagaraj, Charyulu DK, Moses Davala Shyam and Vijayakumar AG. 2014. Targeting and Diffusion of Chickpea improved cultivars in Karnataka state of India. Presented in Mini-symposium on "Rapid Transformation of Rural Economies in South Asia: Insights from Village Dynamics Studies", 8th International Conference of the Asian Society of Agricultural Economists, 15-17 October 2014 in Savar, Dhaka.

N.Nagaraj, Cynthia Bantilan Lalmani Pandey and Namrata Singha Roy, Impact of MGNREGA on Rural Agricultural Wages in SAT India, Paper presented at National Symposium on "Dynamics of Rural Labor Markets: Implications for Agricultural Growth and Rural Transformation, 15-16 September 2014, New Delhi.

N Nagaraj, Deb, Madhu Bhattarai, SK Murthy, MG Chandrakanth and Cynthia Bantilan, 2014, Economic Impacts of MNREGA in Drought Prone Districts of Karnataka: Evidences from VDSA Villages presented in the conference on the MGNREGA in India: Organised by IFPRI, Cornell University and IGIDR, Mumbai, March 26-28

CL Laxmipathi Gowda, N Nagaraj, P.Parthasarathy Rao and Lalmani Pandey, Challenges and Strategies in making Small and Marginal Farm holdings Sustainable and Profitable: Paper presented in the National workshop on Agrl Risk management held during Jan 3-4th, 2014 in Hyderabad at Centre for Good Governance

N Nagaraj, 2013, Development initiatives in food production, utilization and management in Urban and Peri-urban agriculture, FAO sponsored Regional Workshop on Strengthening Urban & Peri-urban Agriculture towards Resilient Food Systems in Asia, 28-30 January 2013, Plaza Athenee Hotel, Bangkok, Thailand

Water Policy Analysis in Peninsular India South Asia, in the International Seminar organized by the Consortium for Interdisciplinary Water Resources Studies (SaciWaters), Taj Samudra, Colombo, Sri Lanka, March, 2008

Supporting India's "Ever Green" Revolution in agriculture, paper presented in the discussion session on Synergy in Development 2006, Transforming Lives and Institutions Through Partnership organized by HED, USAID, Washington DC, August 9-11 2006.

Implementing alternative approaches to traditional, heavily subsidized agriculture and provide local farmers, educators and policy makers with new farming models - paper presented in the Synergy conference, organized by USAID and Higher Education Partnering to meet Developmental Goals, Washington DC, July 27-29, 2005

Economic and Ecological Implications of Groundwater Transfer from Rural to Urban Areas and Its Impact on Food Security - A study in Peninsular India - Paper presented at the Stockholm Water Symposium Workshop, Aug, 12-18th, 2001, Stockholm

Groundwater depletion issues in India and France: Comparative study of institutional management regimes and economic instruments for sustainable use - Lessons for India. Paper presented in the workshop on Ecological Economics, Trade liberalization and Sustainable agriculture at Swedish University of Agricultural sciences, Uppsala, Sweden, June 11-15, 1998.

Invited for the workshop on "participatory approaches to natural resource management in developing countries", as a discussant, Mansfield College, Oxford, UK, April, 6-7- 98.

Intra and Inter-generational equity effects of irrigation well failures on different classes of farmers in hard rock areas of India - paper presented in the research seminar organized by Beijer Institute, Royal Swedish Academy of Sciences held at Kota Kinabalu, Malaysia, May 16-21, 1995.

Impact of globalization on Indian seed sector - Paper presented at the South Asia Regional Conference of International Association of Agricultural Economics, 23-25, Hyderabad

BOOKS BROUGHT FROM THE RESEARCH PROJECTS (FIFTEEN PUBLICATIONS)

1. N Nagaraj, 2013, Pockets of prosperity in the midst of poverty - Groundwater Markets induced development Impacts on the Smallholder's Farm Economy in Peninsular

India: Raising Hope and Nurturing Options For Agricultural Development: Essays
in Honor of Cynthia Bantilan

2. Srinivasa Rao P, Beloin VS, Reddy, N, Nagaraj and Hari Upadhyaya, 2014, Sorghum production for diversified uses, Genetics, Genomics and Breeding of Sorghum Editors: Yi-Hong Wang, Hari D. Upadhyaya, Chittaranjan Kole, CRC Press, Taylor & Francis Group, A Science Publication Book
3. N Nagaraj, 2013, Development Initiatives in Food Production, Utilisation and Mechanism of Management in Developing Urban and Peri-urban Agriculture in Asia: *Proceedings of UPAFSA 2013, Vol-II*
4. Bhagavatula S, Parthasarathy Rao P, Basavaraj G and **Nagaraj N.** 2013. Sorghum and Millet economies in Asia – Facts, Trends and Outlook. Patancheru 502 324, Andhra Pradesh, India: International Crops Research Institute for the Semi-Arid Tropics. 80pp.
5. Srinivasa Rao P, Reddy Belam VS, **Nagaraj N** and Upadhyaya Hari D. 2014. Sorghum Production for Diversified Uses. Part of Yi-Hong Wang, Hari D Upadhyaya, and Chittaranjan Kole (2014) Genetics, Genomics and Breeding of Sorghum. CRC Press, pp. 1–27.
6. Nagaraj N. 2014. Development Initiatives in Food Production, Utilization and Mechanism of Management in Developing Urban and Peri-Urban Agriculture in Asia. Part of Prem Nath (2014), The Basics of Human Civilization: Food, Agriculture and Humanity, Vol. III: Agriculture, Dr. P.N. Agri. Sci. Foundation (PNASF), Bangalore and Scientific Publishers (India), Jodhpur, Rajasthan, pp. 325-338
7. Nagaraj N. 2013. Pockets of prosperity in the midst of poverty - Groundwater market induced development impacts on the small holder's farm economy in Peninsular India. Part of Deb UK, ed. (2013) Raising Hope and Nurturing Options for Agricultural Development: Essays in Honor of Cynthia Bantilan, Friends and Admirers n Students, Hyderabad, India, pp 51-55.
8. MG Chandrakanth and N Nagaraj Micro irrigation : Economics and outreach in Karnataka, in Palanisami (Edited), Micro Irrigation, Economics and Outreach, IWMI, AERA and Macmillan, 2012, pp. 27-54.
9. Nagaraj, N, Chandrakanth M G and Gracy C P, (2008), Contract Farming and Related Issues Department of Agricultural Economics, University of Agricultural Sciences, G.K.V.K Bangalore (Sponsor by IFPRI, WashingtonDC, USA)
10. Seema, H.M, Chandrakanth, M.G., and Nagaraj, N., (2008), Equity in distribution of benefits from water harvesting and groundwater recharge – An economic study in Sujala watershed project in Karnataka, *Proceedings of the 7th Annual Partners' Meet of IWMI-TATA Water policy program*, Vol 2., pp. 720-746, April 2-4, 2008.

11. Micro-Irrigation: Economics and Outreach in Karnataka 27, M.G. Chandrakanth, G.L. Thamanadeui, **N. Nagaraj**, C.N. Priyanka, M. Mamatha, P.S. Srikanthamurthy, M. Prakashkumar, Y. Nagaraju, G. Sanjeeu, Ravi Hosur, Umesh Pradhani, Basuaraj Biradar and Ranganath Mangalvedkar, Published for International Water Management Institute, Hyderabad and Agricultural Economics Research Association, New Delhi *Macmillan Publishers India Ltd, 2012*
12. P G Chengappa N. Nagaraj and Ramesh kanwar, (2007), Challenges to Sustainable Agri-Food Systems, I K International Publishing House Pvt, Ltd, New Delhi
13. Chinappa, B., Nagaraj, N., Chandrakanth, M.G and Chandra Shekar.H., (2004) Valuation of irrigation Induced Soil Degradation in TungaBadra Project Area of Karnataka – An economic analysis, Department of Agricultural Economics, University of Agricultural Sciences, G.K.V.K Bangalore.
14. Sankar Ganesh.S., Nagaraj, N., Chandrakanth, M.G and Shyama.V.Ramani, (2004) Market for seeds of principle crops in Karnataka in the era of Globalisation– An economic analysis, Department of Agricultural Economics, University of Agricultural Sciences, G.K.V.K Bangalore.
15. Nagaraj N. Prathima.R., Chandrakanth, M.G and Shyama.V.Ramani., (2004) Economics of vegetable seed production and marketing -An analysis of contract farming in Karnataka, Department of Agricultural Economics, University of Agricultural Sciences, G.K.V.K Bangalore.
16. Nagaraj, N., Prakash.P., HanumanthaRaju and Basavara C Rajur, (2003) Resource characterization and socio economic constraint Analysis of maize based crop production system in transitional belt of Karnataka state, College of Agriculture, V.C.Farm, Mandya, University of Agricultural Sciences, Bangalore.
17. Nagaraj, N., Chandra Shekar.H. and Mangala.K.P., (2003) Economic and environmental implications of ground water degradation on farm economy, Department of Agricultural Economics, University of Agricultural Sciences, Bangalore
18. Nagaraj, N, Chandra Shekar, H. Yatheesh. H.S., and Aravind Kumar.M.K., (2003) Designing methodologies for evaluation of economic and environmental implications of ground water depletion- A study in Karnataka peninsular India, Department of Agricultural Economics, University of Agricultural Sciences, G.K.V.K Bangalore.
19. Varuni, C.N., Chandrakanth, M.G., and **Nagaraj, N.** (2003), Estimation of externalities due to use of polluted groundwater for irrigation in Kabini Command, Karnataka.
20. Electricity Prices: A tool for Groundwater Management in India edited by Marcus Moench, VIKSAT/ Natural Heritage Institute, Ahmedabad, Gujarat, India.

21. John M. Kerr, N.Nagaraj and S.SuryaPrakash, 1997 Eucalyptus: The controversial tree, in J.M.Kerr, D.K.Marothia, Katar Singh, C.Ramasamy and W.R. Bentley (Ed) Natural Resource Economics: Theory and Application in India, Oxford & IBH Publishing Co. Pvt. Ltd., New Delhi, 1997, pp. 188-197.

IMPORTANT RESEARCH PUBLICATIONS: (Eighty two Research Papers)

- 1 Nagaraj, N. Cynthia Bantilan, Lalmani Pande and Namrata Singh Roy, (2016), Impact of MGNREGA on Rural agricultural Wages, Farm productivity and Net Returns. *Indian Journal of Agricultural Economics*. 71 (2): 176-189
- 2 Nagaraj, N, Uttam Deb, Anusha, R and Cynthia Bantilan. (2016), Is Smallholder Farming Economically Viable? Evidences from Village Dynamics Studies in Karnataka, Peninsular India. *Indian Journal of Agricultural Economics* (forthcoming issue special volume as a part of the Inter-Conference Symposium)
- 3 Vania, G. K. Srikantha Murthy, P.S. Chandrakantha , M.G. Nagaraj, N and Bhattarai, M. (2015). Employment Generation, Labour Migration and MGNREGP Interventions: Evidences from a Village Level Study. *Agricultural Economics Research Review*. 28 (2015) : 267-274
- 4 **Nagaraj N**, Bantilan MCS, Ashok Kumar A, Sharma Rajan, Anusha R and Haldar Surajit. 2013. Technological and Institutional Interventions in enhancing livelihood of farmers in semi-arid tropics (SAT) areas: Experience of ICRISAT-HOPE Project. *Indian Journal of Agricultural Economics*. 68(3): 313-325
- 5 **Nagaraj N**, Basvaraj G, ParthasarthyRao P, Cynthia Bantilan and HaldarSurajit. 2013. Sorghum and Pearl millet Economy of India: Future Outlook and Options. *Economic and Political Weekly*. 48 (52): 74-81.
- 6 Nagaraj, N and Haldar, S and Bantilan, M C S (2012) *Adoption and Impact of Technology on Pearl Millet Production in India: Farm and Regional Level Ex-ante and Ex-post Impact Analysis*. *Indian Journal of Agricultural Economics*, 67 (3). p. 432.
- 7 SeemaShaktawat, Singh I P, **Nagaraj N** and Shirish Sharma (2012) Resource Use Efficiency and Returns to Investment in Research of Pearl Millet in Rajasthan. *Indian Journal of Economics and Development*. 8(4):1-12.
- 8 Channaveer,Chandrakanth MG and **Nagaraj N**. 2012. Governance of benefits from developmental programmes to farmers in Karnataka. *Indian Journal of Agricultural Economics*. 67(3): 476-486.
- 9 Ramalingegowda U.C, Chandrakanth, M.G. Srikantahmurthy, P.S., Yadav, C.G., Nagaraj, N., and Channaveer, Economics of peri urban agriculture – case of Magadi Off Bangalore, *Econ & Political Weekly*, 47(24): 75-80.

- 10 B. G Harish, N. Nagaraj, M. G. Chandrakanth, P.S. Srikantha Murthy, P. G. Chengappa and G. Basavaraj. (2011). Impacts and Implications of MGNREGA on Labour Supply and Income Generation for Agriculture in Central Dry Zone of Karnataka. Agricultural Economics Research Review, vol. 24 (Conference Number), 485-494 pp
- 11 N. Nagaraj, UmeshPradhania, P. G. Chengappa, G. Basavarajand Ramesh Kanwar(2011) , Cost Effectiveness of Rainwater Harvesting for Groundwater Recharge in Micro-Watersheds of Kolar District of India-The Case Study of Thotli Micro-Watershed, Indian Journal of Agricultural Economics, Vol.24, PP: 161-167
- 12 A. B. Tejaswani, P. S. Srikanthamurthy, M. G. Chandrakanth, N. Nagaraj and H. Chandrashekar, (2011), An economic Analysis of Desiccated coconut production in major coconut growing regions of Karnataka, Journal of Plantation Crops, Vol. 39 (1) :260-264)
- 13 N. Nagaraj, M G. Chandrakanth, David Acker, P.G. Chengappa and H. R. Shruthi, (2009), Economic Performance of Self Help Group's in Karnataka, with special reference to Venkatanalli in South India, Indian Journal of Agricultural Economics, Vol.64 (4), PP: 604-617
- 14 N. Nagaraj, M.G. Chandrakanth, P.G. Chengappa, H.S. Roopa and Pramod M. Chandakavate, (2008). Contract Farming and its Implications for Input-supply, Linkages between Markets and Farmers in Karnataka, Agricultural Economics Research Review, (21): PP 307-316
- 15 Seema, H.M, Chandrakanth, M.G., and Nagaraj, N., (2008), Equity in distribution of benefits from water harvesting and groundwater recharge – An economic study in Sujala watershed project in Karnataka, *Proceedings of the 7th Annual Partners' Meet of IWMI-TATA Water policy program, Vol 2., pp. 720-746, April 2-4, 2008.*
- 16 Varuni, C.N., Chandrakanth, M.G., Nagaraj, N. and Srikanthmurthy, P.S., (2006), Externalities of groundwater contamination due to pollution and effects on agriculture and health in Karnataka, *Proceedings of the 5th IWMI-TATA Annual partners' meet, March 2006*
- 17 Deepak, S.C., Chandrakanth, M.G. and Nagaraj, N, (2005), Groundwater Markets and Water Use Efficiency: The Case of Karnataka, *Water Policy Research Highlight No. 12, Proceedings of the 4th Annual IWMI-TATA partnerships meet, Feb 2005, pp. 1-7.*
- 18 N.Nagaraj, K.P. Mangala, H. Chandrashekar& K. Shankar, (2005), Assessing the Impact of Groundwater Pollution Induced Externalities-A case of Vrishabbavathi River Basin, Karnataka, Peninsular India, Water and Energy InternationalVol: 62, (1), PP: 48-60
- 19 M. G. Chandrakanth, A.C. Hemalatha and N. Nagaraj, (2004), Estimation of Externalities due to Sand Mining in Water streams in affected Riparian Areas of Karnataka, International Journal of Ecology and Development, Vol: 2, PP: 27-42

- 20 N. Nagaraj, (1999). Institutional Management Regimes For Pricing of Irrigation Water The French Model-Lessons for India, Agricultural Systems. Vol: 61, pp: 199-205
- 21 N. Nagaraj and R.K. Sampath, (1999) A comparative study of institutions in Western USA and India for water resource management, Water and Energy International, Vol: 56 (4), pp: 54-62
- 22 Lalith Achoth and Nagaraj, N., (1988) A Study of the growth and variability of pulse production in Karnataka. The Asian Economic Review. Vol. XXX No. 2, Aug. 1988, pp. 275-287.
- 23 N. Nagaraj, M. G. Chandrakanth, Sankar Ganesh, R. Prathima and Honniah, (2006), Economic Impacts of Globalization on Indian Seed Sector and Food Security, Journal of Global Economy, Vol:2. (2), PP 91-105
- 24 N. Nagaraj, (2010), Program Policies and Delivery Mechanisms towards Achieving Second Green Revolution in Karnataka's Agriculture, Federation of Karnataka's Chambers of Commerce and Industry Journal, Vol XXXI, (6), PP: 33-36
- 25 A. N. Chetana, N. Nagaraj, P G Chengappa and C P Gracy, (2010), Geographical Indicators for Kodugu Coffee – A Socioeconomic Fesability analysis, Agricultural Economics Research Review, Vol: 23, (1), pp: 97-103
- 26 N. Nagaraj, M. G. Chandrakanth, P.G. Chengappa, H.S. Roopa and Pramod M Chandkavate, (2008), Contract Farming and its Implications for Input-supply, Linkages between Farmers in Karnataka, Agricultural Economics Research Review, Vol: 21, pp: 307-316
- 27 Nagaraj, N, Chandrakanth, M G and Prathima, R (2008): "Impact of Water Harvesting on Ground Water Recharge, Productivity and Net Returns with Integrated Farming Systems Approach in Eastern Dry Zones of Karnataka", Proceedings of the 7 th Annual Partners Meet, 2-4 April 2008, International Water Management Institute, Hyderabad: ICRISAT Campus, 1: 764-774.
- 28 B. Chinnappa and N. Nagaraj, (2007), An Economic Analysis of Public Interventions for Amelioration of Irrigation induced Land Degradation, Agricultural Economics Research Review, Vol: 20 (2), PP 375-382
- 29 Nagaraj, N., A.V. Manjunath, Akarsh, B.M., Chengappa, P.G.,2007, Ground Water Depletion in hard rock Areas of Karnataka; Approaches for Sustainable and Prudent use. Proceedings of international Conference on Sustainable Agri-food Systems; Biotechnology Environment, Nutrition, Trade and Policy I.K. International Publishing House Pvt. Ltd. : 43-49.
- 30 Chengappa, P.G., N. Nagaraj and Ramesh Kanwar 2007, Proceedings of International Conference on Sustainable Agri-food Systems : Biotechnology, Environment, Nutrition, Trade and Policy. I.K. International Publishing House PvtLtd : PP 830.
- 31 Nagaraj N.,Manjunatha,A.V.,Akarsha B.M., Chengappa, P.G.,2007.Groundwater Depletion in Hard Rock Areas of Karnataka; Challenges to Sustainable Agri-Food Systems, 43-49.

- 32 B. Chinnappa and N. Nagaraj, (2006), Equity Issues Relating to Irrigation Induced Soil Degradation under Left Bank Canal of Tungabhadra Project Area, Karnataka, Agricultural Economics Research Review, Vol: 19 (1), PP 121-128
- 33 N. Nagaraj, K. Shankar and M, G. Chandrakanth, (2003) Pricing of Irrigation Water in Cauvery basin – Case of Kabini command, Karnataka, Economic and Political Weekly Vol: XXXVIII, (43), PP: 4518-4520.
- 34 N. Nagaraj, H.Chandrashekar and H.S.Yatheesh (2003). Sustainability and equity implications of ground water depletion in hard rock areas of Karnataka- An economic analysis. Indian Journal of Agricultural Economics, Vol. 58, No.3, PP: 438-447
- 35 B. Chinnappa and N. Nagaraj (2003), Reasons for Non-Adoption of Land Reclamation Technology by the Farmers in Thungabhadra Command Area, Agricultural Extension Review, Vol: 15, (5) PP: 25-26
- 36 H. Diwakar and N. Nagaraj, (2003), Negative Impacts of Emerging Informal Groundwater Markets in Peninsular India: Reduced Local Food Security and Unemployment, Journal of Social and Economic Development, Vol: 5. (1), PP: 90-105
- 37 H. Diwakar and N. Nagaraj, (2002), Impact of Water Pollution on Food Security and Environment, Bearing the Brunt, Wastelands News, Vol: XVIII, pp: 31-34
- 38 N. Nagaraj, W. Marshall Frasier and R.K. Sampath, (1999) Groundwater Institutions in US and India: Sustainable and Equitable Resource Use, Economic and Political Weekly, June 26-July 2, 1999, Vol: XXXIV, pp: A-93-A 104
- 39 N. Nagaraj, (1998). Institutional Management Regimes and Economic Instruments For Sustainable Use of Water: The French Model-Lessons for India, Edited by B. Dorin and M. H. Zerah, Center De Sciences, Humaines, New Delhi.
- 40 N. Nagaraj and Chandrakanth, M.G., (1996). Intra and inter-generational equity effects of irrigation well failures - Farmers in Hard rock areas of India, Economic and Political Weekly, March 29, 1997, pp: A41-44.
- 41 M. Gireesh, N. Nagaraj and M. G. Chandrakanth, (1997). Rehabilitation of Irrigation Tanks in Eastern Zone of Karnataka- An Economic Analysis. Indian Journal of Agricultural Economics, Vol. 52, No.2, PP: 231-243
- 42 N. Nagaraj and M.N. Venkataramana, (2003), Relative Importance of Livestock in a Typical Irrigated and Dryland Farming system: A study in Mandya District Karnataka, Current Research, Vol: XXXII, (11-12), PP: 109-202
- 43 Nagaraj, N. and Shivakumaraswamy, B, (1996). Economic feasibility of Gherkin Production in the Eastern Dry Zone of Karnataka Financing Agriculture, Vol. XXVII, No.3, Oct-Dec, p.16-18
- 44 Nagaraj, N. and Chandrakanth, M.G., (1995) Low Yielding Irrigation Wells in Peninsular India- An Economic Analysis Indian Journal of Agril. Economics, Vol.L pp.47-58.
- 45 Nagaraj, N. (1993-94) Ground water utilization in India: Current status and future focus. Rural Link. Vol.1 pp: 34-38.

- 46 Nagaraj, N., Chandrakanth, M.G. and Gurumurthy (1994) Borewell Failure in Drought Prone Areas of Southern India. Indian Journal of Agril. Economics, Vol. XLIX pp. 101-106.
- 47 Nagaraj, N. and Chandrakanth, M.G. (1993) Electricity Pricing for Ground water Irrigation in the Hand rock Areas of Deccan-plateau-Estimation of willingness to pay - Proceedings of the Work shop on Water Management Indian Ground water challenge - Dec 14-16 Ahmedabad organized by VIKSAT/Pacific Institute.
- 48 Nagaraj, N., Venkataram, J.V. (1992) Economic Analysis of Eucalyptus vis-a-vis competing crops in Drought Prone Areas of South India. MYFOREST, Vol. 28 pp. 311-316.
- 49 Eswarprasad, Ramanna, R. and Nagaraj, N. (1980) Impact of IRDP on employment generation under area based schemes. ManPower Journal, Vol. - pp. 73-79.
- 50 Nagaraj, N. (1991) Economics of inter-cropping in Rainfed Agriculture Current Research. 20: 44-47.
- 51 Nagaraj, N. (1993) Prospects and potentials of fruits and vegetable processing in Karnataka some empirical evidence. Indo-U.K. Workshop on Agril. and Food Marketing. UAS January.
- 52 Nagaraj, N. and Chandrakanth, M.G., (1992) Market performance of perishables - A case of vegetables and fruits. Agril. Marketing, Vol. XXXI No. 1 April '92, pp. 15-20.
- 53 Eswarprasad, Lalith Achoth and Nagaraj, N., (1989) Impact of IRDP on creation of Asset-An Empirical Evidence. Land Bank Journal Vol. 28, No (11) 1989, pp. 49-57.
- 54 Nagaraj, N. and Prakash, T.N., (1989) Economic Analysis of Fruit Processing in Karnataka: A case of Karnataka Agro Fruits Ltd. Indian Journal of Marketing. Vol. XIX No. 8-9-10.
- 55 Nagaraj, N., and (1989) Economic Analysis of Fruit processing and its impact on Employment generation: A case of Karnataka Agro Fruits Ltd. Indian Journal of Agril. Economics. Vol. 44, No. 3, July-Sep. 1989, p. 327-328.
- 56 Nagaraj, N., Narayanaswamy, (1989) Economics of Turmeric Farming in Coconut garden. Spice India. Vol. 11 No. 10, 1989, pp. 17-19.
- 57 Nagaraj, N., Narayanaswamy, (1989) An Economic Evaluation of Drip Irrigation for coconut plantation. A case study. Financing Agriculture. Vol. XXI No. 1, 1989, pp. 3-5.
- 58 Eswarprasad, Lalith Achoth and Nagaraj, N., (1989) Perceptions of Beneficiaries on I.R.D.P. performance. Agril. Banker. Vol. 11 No. 14, 1989, pp. 37.
- 59 Nagaraj, N., Narayanaswamy, (1988) Economics of Drip Irrigation for Coconut gardens. Indian Coconut Journal. Vol. XIX No. 8, 1988, pp.
- 60 Nagaraj, N., and K.N.R. Shastry (1987) Economic considerations and selecting Coconut enterprise. Journal of Plantation Crops, vol. 15, No. 1 June 1987, pp. 15-22.
- 61 Nagaraj, N., and Bisaliah (1987) Production utilization and parity price of sugarcane in India Cooperative sugar, Feb. 1987 vol. 18, No. 6 pp. 393-396.

- 62 Nagaraj, N., and LalithAchoth (1987) Spatial Integration of an price leadership in Silk Cocoon markets of Karnataka, Seriocolgia issue No. 27 (2), 1987 pp. 229-236.
- 63 Nagaraj, N., (1987) Debt Relief Act in Karnataka An Impact study in Bangalore Taluk, Southern Economist, Vol. 25, No. 19, Feb. 1987, pp. 17-19.
- 64 Eswaraprasad, LalithAchoth and Nagaraj, N., (1987) Estimation of Growth Rates -An application of Orthogonal polynomials. Southern Economist, Vol. 25, No. 19, Feb. 1987, pp. 17-19.
- 65 Nagaraj, N., (1986) The Economics of Sericulture in Karnataka, Indian Silk Vol. XXV, No. 4, Aug. 1986 pp. 13-20. p73.
- 66 Nagaraj, N. and Chandrakanth, M.G., (1986) Market appraisal for a few fruits and vegetables. Indian Journal of Marketing Vol. 16, No. 4, Dec. 1985, pp. 13-19.
- 67 Nagaraj, N., and Bisalial (1985) Credit Requirement Estimates for optimal Input-output level, A Study of Dryland Farmers, Mysore Journal of Agricultural Sciences, Vol. XIV No. 2, 1985, pp. 101-108.
- 68 Bisalial and Nagaraj, N., (1985) Production credit overdue: A study of Dryland small farmers, FinancingAgricultureVol.XVII. No.1. Jan-mar. 1985. Pp.17-20.

PEER REVIEWED POLICY BRIEFS:

Nagaraj, N. D. Narasimha Reddy and Namrata S. Roy, Aug 2016, Gender and Dynamics of Labour Use in Agriculture - Evidences from the VDSA, Policy Dialogue on Gender, **IFPRI, New Delhi**

- Deb Uttam, **Nagaraj N**, Kumar Ranjit, BhattaraiMadhu, Padmaja R, Rao P Parthasarathy and Bantilan Cynthia. 2014. Dynamics of Rural Labor Markets in India: Implications for Inclusive Development Strategy. Policy Brief 27, Sep 2014, ICRISAT, Patancheru 502 324, Telangana, India pp. 1-12.
- N. Nagaraj, G. Basvaraj, P. ParthasarthyRao and Cynthia Bantilan, (2011), Future Outlook and Options for Targeted Crops of ICRISAT: The Sorghum and Pearl millet economy of India
- N. Nagaraj, A.H. Suvarna Kumar and M.G. Chandrakanth, (2005), Economic Analysis of Groundwater Markets in Central Dry Zone of Karnataka, Water Policy Research IWMI-Tata Water Policy Programme, Institute of Rural Management, Anand, Gujarat
- S. C. Deepak, M.G. Chandrakanth and N. Nagaraj (2005) Groundwater Markets providing efficiency in water use in agriculture in Karnataka, Water Policy Research IWMI-Tata Water Policy Programme, Institute of Rural Management, Anand, Gujarat
- N. Nagaraj, M.G. Chandrakanth and Prathima, (2008), Impact of water harvesting on Groundwater recharge, productivity and Net Returns with Integrated Farming System Approach, IWMI-Tata Water Policy Research Programme, Vol-2, ICRISAT, Hyderabad
- H. M. Seema, M.G. Chandrakanth, N. Nagaraj (2008), Equity in Distribution of Benefits from Water Harvesting and Groundwater Recharge, IWMI-Tata Water Policy Research Programme, Vol-2, ICRISAT, Hyderabad

- Varuni, C.N., Chandrakanth, M.G., **Nagaraj, N.** and Srikanthmurthy, P.S., (2006), Externalities of groundwater contamination due to pollution and effects on agriculture and health in Karnataka, 5th IWMI-TATA Annual partners' meet, March 2006

POSTERS:

1. **Nagaraj N,** Bantilan Cynthia, Deb Uttam, Anusha R and Namrata SR 2015. Pattern of agricultural transformations in VDSA villages of Karnataka. Poster presented at Annual Review Meeting on " Village Dynamics in South Asia: Raising the Voices of the Poor for Evidence-based Policy Making held at ICRESAT, Hyderabad on 2-3 April 2015
2. **Nagaraj N,** Deb Uttam, BhattaraiMadhu, Padmaja R, Rao P Parthasarathy, Bantilan Cynthia and Singha Roy Namrata. 2014. Structural Change in Rural Labor Market: Macro Level Trends. Poster presented at National Symposium on "Dynamics of Rural Labor Markets: Implications for Agricultural Growth and Rural Transformation, 15-16 Sept 2014, Delhi.
3. **Nagaraj N,** Deb Uttam, BhattaraiMadhu, Padmaja R, Rao P Parthasarathy and Bantilan Cynthia 2014. Rural Labor Market: Insights from Village Dynamics Studies. Poster presented at National Symposium on "Dynamics of Rural Labor Markets: Implications for Agricultural Growth and Rural Transformation, 15-16 September 2014, New Delhi.
4. **Nagaraj N,** Deb Uttam, BhattaraiMadhu, Padmaja R, Rao P Parthasarathy, Bantilan Cynthia and Singha Roy Namrata. 2014. Major Challenges and Implications for Research and Development Strategy. Poster presented at National Symposium on "Dynamics of Rural Labor Markets: Implications for Agricultural Growth and Rural Transformation, 15-16 September 2014, New Delhi.

PEER REVIEWED MONOGRAPHS

- Reddy D. Narasimha, Reddy Amarender A, **Nagaraj N** and Bantilan Cynthia. 2014. Emerging Trends in Rural Employment Structure and Rural Labor Markets in India, Working Paper Series No. 56. Patancheru 502 324, Telangana, India: International Crops Research Institute for the Semi-Arid Tropics. 26 pp.
- Reddy DN, Reddy Amarender A, **Nagaraj N** and Bantilan C. 2014. Rural Non-Farm Employment and Rural Transformation in India: Working Paper Series No. 57. Patancheru 502 324, Telangana, India: International Crops Research Institute for the Semi-Arid Tropics. 28 pp.
- Reddy D Narasimha, Reddy A Amarender, **Nagaraj N** and Bantilan Cynthia. 2014. Impact of Mahatma Gandhi National Rural Employment Guarantee Act on Rural Labour Markets, Working paper series no. 58. Patancheru-502324, Andhra Pradesh, India: International Crops Research Institute for the Semi- Arid tropics. 40 pp.
- **Nagaraj N,** More Sachin, Haldar Surajit, Cynthia Bantilan and Chandrakanth MG. 2013. Baseline Scenario of Post-rainy Season Sorghum Economy in Marathwada Region of Maharashtra. Working paper series no. 38. Patancheru 502 324, Andhra Pradesh, : International Crops Research Institute for the Semi-Arid Tropics. 28 pp.

- **Nagaraj N**, Pokharkar V, SurajitHaldar Cynthia Bantilan and Chandrakanth MG. 2013. Baseline Scenario of Postrainy Season Sorghum Economy in western Maharashtra Region of Maharashtra. Working paper series no. 39. Patancheru 502 324, Andhra Pradesh, India: International Crops Research Institute for the Semi-Arid Tropics. 25 pp.
- **Nagaraj N**, Kundu K K, HaldarSurajit, Cynthia Bantilanand Chandrakanth MG. 2013. Baseline Scenario of Rainy Season Pearl Millet in Haryana. Working paper series no. 40. Patancheru 502 324, Andhra Pradesh, India: International Crops Research Institute for the Semi-Arid Tropics. 27 pp.
- **Nagaraj N**, Ardeshta NJ, SurajitHaldar, Cynthia Bantilan and Chandrakanth MG. 2013. Baseline Scenario of rainy Season Pearl Millet in Gujarat. Working paper series no. 41. Patancheru 502 324, Andhra Pradesh, India: International Crops Research Institute for the Semi-Arid Tropics. 28 pp.
- **Nagaraj N**, Singh I P, Surajit sHaldar, Cynthia Bantilan, Shirish Sharma and Chandrakanth MG. 2013. Baseline Scenario of Rainy Season Pearl millet Economy in Rajasthan. Working paper series no. 42. Patancheru 502 324, Andhra Pradesh, India: International Crops Research Institute for the Semi-Arid Tropics. 26 pp.
- Bhagavatula S, Parthasarathy Rao P, Basavaraj G and Nagaraj N. 2013.Sorghum and Millet economies in Asia – Facts, Trends and Outlook. Patancheru 502 324, Andhra Pradesh, India: International Crops Research Institute for the Semi-Arid Tropics. 80pp.

OTHER ACADEMIC ACTIVITIES:

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- Serving as a referee for the research articles and books for Indian Journal of Agricultural Economics, Agricultural Economic Research Review, Journal of social and Economic development, EPW, SAT Journal and other International Journals
- Serving as a member in the selection committees for selection of faculty in Agril Economics/Economics, of Agril. Universities and Research Institutes, Commercial Banks.