

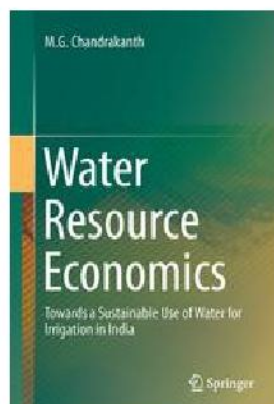


Dr. M.G. CHANDRAKANTH

Director, Institute for Social and Economic Change, Nagarabhavi, Bangalore 560072, Former Dean, College of Agriculture, Leader of Team of Excellence in Natural Resource and Environmental Economics, Professor and University Head of Agricultural Economics, Ciriacy-Wantrup Fellow, DAAD visiting professor, Erasmus Mundus visiting scholar, Member of Academic Council, University of Agricultural Sciences, GKVK, Bangalore - 560 065, Karnataka, India, Ph: 919449486018 mgchandrakanth@gmail.com : 30th January 1955

Book published

MG Chandrakanth, Water Resource Economics: Towards a Sustainable Use of Water for Irrigation in India, 2015, Springer, New York.



<http://www.springer.com/in/book/9788132224785>

Academic Qualifications

Academic degree	Institution	Year of passing	% Marks	CGPA Subjects	Distinctions if any
1. Post Doctoral studies	University of California, Berkeley	1988-90		Institutional Economics	Ciriacy-Wantrup post doctoral fellowship
2. DAAD Visiting scholar	Humboldt Univ of Berlin, Germany	March to May 2010 & Oct 2013- Dec 2013		Institutional Economics, NRE	
3. Erasmus Mundus visiting scholar	Univ of Ghent and Humboldt Univ, Berlin	April 2008 to June 2008		Rural Development	

2. Ph.D	UAS Bangalore	1981	98	3.91/4	Agricultural Economics	UAS Gold medal for distinction
3. MSc(Ag)	UAS Bangalore	1976	90	3.61/4	Agricultural Economics	
4. BSc(Ag)	UAS Bangalore	1974	87	3.49/4	Agronomy, Agricultural Economics	

Employment Record (with post held, scale of pay, employer, year of joining, year of leaving, major responsibilities):

Position	Pay Scale	Employer	Joining Year of Year leaving		Responsibilities
1. Professor and University Head	Rs. 68000 Basic	UAS Bangalore	2006	2017	Teaching, research, extension of Agricultural economics, natural resource and environmental economics, rural development
2. Dean	Rs. 16400-22400	UAS Bangalore	Feb 6 2009	July 2 2009	Technical administration of College of Agriculture, UASB
3. Professor	16400- 450 - 20900 - 500 - 22400 - reached Rs 23400 with 3 stagnation increments	UAS Bangalore	1994	2017	Teaching and / or Research at UG / PG in rural development, agricultural economics, Natural resource and environmental economics, Econometrics, Production Economics, Administration as HOD and University Head
2. Associate Professor		UAS Bangalore	1983	1994	Teaching and /or research at UG / PG in agricultural economics, mathematical economics,
3. Assistant Professor		ISEC, Bangalore	1982	1983	Teaching and / or research in agricultural / rural economics
4. Instructor		UAS Bangalore	1980	1982	Assisting in teaching agricultural economics at UG level

Former Member Editorial Committee of

- 1. Indian Journal of Agricultural Economics**
- 2. Agricultural Economics Research Review**

Coodinator: Student exchange program International Masters in Rural Development, University of Ghent, at UAS Bangalore

Fellowships

- **Post Doctoral Fellowship** from the Ford Foundation for training in forestry economics, 1987-88, deputed by University of Agricultural Sciences, Bangalore
- **Ciriacy-Wantrup Post Doctoral Fellowship** in the institutional economics of natural resources at the **University of California, Berkeley** (1987 - 1990) for studies on natural resource economics, Institutional economics, forestry economics and policy.
- Ph.D. in Agricultural Economics, University of Agricultural Sciences, Bangalore, 1977-1982; (**Gold Medalist**).
- **World Bank Visiting Fellowship**, April - June 2001 in Environmental and Resource Economics at Florida International University, Miami, Florida, USA.
- ICAR Junior Fellowship during M.Sc. (Agri.) in Agricultural Economics, University of Agricultural Sciences, Bangalore, 1974-1976.
- General Merit Scholarship during B.Sc. (Agri.) in University of Agricultural Sciences, Bangalore, 1970-1974 .
- Core course on Integrated Water Resources Management (IWRM), World Bank Institute, Washington DC, July 8-12, 2002.

Academic Administration and Experience

- Dean, College of Agriculture, University of Agricultural Sciences, GKVK, Bangalore from Feb 6 2009 to July 2 2009
- University Professor and Head of Agricultural Economics, UAS, Bangalore from Dec 2006 till date
- Member, Management Board, IMRD, University of Ghent, Belgium
- **Professor and Head of Agricultural Economics**, UAS, Bangalore from 1996 to 2003
- **Professor**, Department of Agricultural Economics, UAS, Bangalore 2003 to 2006 3, 1994 till Oct 2003.
- **Associate Professor**, Department of Agricultural Economics, University of Agricultural Sciences, Bangalore, since December 2, 1983 to February 2, 1994.
- **Assistant Professor**, Institute for Social and Economic Change, Bangalore, February 2, 1982-December 1, 1983.
- **Instructor**, Department of Agricultural Economics, University of Agricultural Sciences, Bangalore from August 1, 1980 - February 1, 1982.

Project experience

- Economics of cultivation and processing of tree based bio-fuels *Simarouba glauca*, , *Pongamia pinnata*, *Azadirachta indica*, *Madhuca indica*
- Resource and Environmental economics of groundwater and watershed development and has been successful in fund raising for research from Ford Foundation and World Bank.
- Experience in leading research team of diverse cultures and background fulfilling the objectives.
- Experience in institution building activities and in human resource development.
- Have been responsible in shaping the careers of several students to pursue their graduate program and post doctoral program in coveted Universities in US, Europe and Australia

- Economics of rice cultivation under groundwater and surface water irrigation incorporating the cost(value) of surface water and groundwater in different agroclimatic zones of Karnataka
- Economics of rice cultivation in groundwater areas, Economics of SRI (System of Rice Intensification),
- Economics of water management in rice cultivation in command areas.

Teaching Experience: Courses offered:

- **Post graduate courses:** Econometrics, Mathematical Economics, Natural Resource Economics I, Research Methodology in social sciences, Agricultural Production Economics.
- **Under graduate courses:** Introduction to Agricultural Economics, Forestry Economics, Economics of Sericulture, Recent Advances in Agricultural Economics, Agricultural Finance and Credit Institutions.

Special Honours

- DAAD visiting Professor at Humboldt University of Berlin, Germany to teach Institutional economics, March to May 2010.
- Editorial committee member of AERA (Agricultural Economics Research Association Journal)
- **Visiting Professor** at the University of Ghent, Belgium and at Humboldt University of Berlin for the EU's International Masters in Rural Development program to teach the graduate students under ERASMUS MUNDUS fellowship April to June 2008
- Honoured as **Member** of The Water Policy Law Group of the University of South Australia, Adelaide, Australia.
- **Lectures in SANDEE** program funded by Rockefeller Foundation.
- **Nominated as Vice President** of the Indian Society of Agricultural Economics, a Professional body of Agricultural Economists in India) for two years from 2000.
- Nominated as **Chairman / Rapporteur** for the session on "Valuation of environmental and natural resources" for papers submitted during the 61st Annual Conference of the Indian Society of Agricultural Economics, Dec 27-29, 2001, at Gulbarga University, Gulbarga.
- **Principal Investigator**, Team of Excellence in Natural Resource Economics, funded by NATP, World Bank, at UAS, Bangalore for 1999-2003.
- Experience in handling two exclusive research projects relating to groundwater and watershed development funded by the **Ford Foundation**, New York

Projects handled

Regional Crop Planning for Improving Resource Use Efficiency and Sustainability" funded by NIAP (formerly NCAP), ICAR (Rs. 35 lakhs) from 2013 to 2017.

- Sustainable economic empowerment of sc/st, women farmers, through cultivation, harvesting and processing of biofuel crops in Karnataka funded by DBT, Government of India, New Delhi

- Sustainable development of watershed program, by Sujala, World Bank assisted project for Rs. 13 lakhs from Govt of Karnataka
- Team of Excellence in Natural Resource Economics, grant of Rs. 1.10 crores from World Bank. Worked on Economics of groundwater and surface water irrigation
- Ford Foundation, New York: grant of \$ 80,000 to research on "Dynamics of access to water resources - a resource economics study of the watershed development program in Karnataka, 1999-2005
- The Ford Foundation, New York provided \$ 41,000 to research on "Equity issues in groundwater development - an institutional analysis of failed irrigation wells in Karnataka" 1994 to 1998
- The Winrock International, Washington DC, provided \$ 1700 to research on the sustainability of management in rehabilitated irrigation tanks in Karnataka. This is a completed project.

Awards

- **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" (shared with Dr N Nagaraj)
- **Gold Medal of University of Agricultural Sciences, Bangalore** for best performance in Ph.D program, 1981
- **Ford Foundation Post-Doctoral Fellowship** for studies in Agricultural and Natural Resource Economics at the University of California, Berkeley, USA, 1987-88
- **Ciriacy-Wantrup Post-Doctoral Fellowship** offered by University of California, Berkeley in Agricultural and Natural Resource Economics, 1988-1990
- **World Bank Visiting Fellowship**, April - June 2001 in Environmental and Resource Economics at Florida International University, Miami, Florida

Visits Abroad

- DAAD scholar, Humboldt University of Berlin, Mar 2010 to May 2010 and October 2013 to Dec 2013 - Visiting Professor, Institutional Economics, NRE
- University of Ghent, Belgium April to May 2008 - Erasmus Mundus IMRD visiting Professor in Rural development
- Humboldt University of Berlin, July 2008 - Erasmus Mundus IMRD visiting scholar
- World Bank Visiting Fellowship from April-2001 to June 2001, World Bank Institute, **Washington DC, USA.**
- Symposium on Indigenous knowledge systems for plant protection at the Thirteenth International Plant Protection Congress, 2-7th July, The Hague, **The Netherlands** (CIRAN, Amsterdam).
- Research seminar on environmental economics organized by Royal Swedish Academy of Sciences, (Beijer Institute), Stockholm, Sweden during May 16-21, 1995 at **Kota Kinabalu, Malaysia.**
- Seminar on Methods for Social Science Research on Non-Timber Forest Products", organized by Harvard Institute for International Development, May 18-20, 1992 at Regional Community Forestry Training Center (RECOFTC), FAO, at **Kasetsart University, Bangkok, Thailand**

- Visiting fellow at ANU, Canberra, Australia, May 1992, Australian National University, **Australia.**
- Second International Ethnobiology Congress, October 21-26, 1990, Kunming Institute of Botany, Kunming, **Republic of China.**
- Nineteenth (XIX) International Union of Forest Research Organizations World Congress (IUFRO), Division 4, August 5-11, 1990, **Montreal, Canada.**
- Annual meeting of the American Agricultural Economics Association at University of Tennessee, Knoxville, July 1988, AAAE, **USA.**
- Ford Foundation Post Doctoral Fellowship and Ciriacy-Wantrup Post-doctoral fellowship from August 1987 to September 1990, University of California, **Berkeley, USA.**
- Second International Conference on Social Science Resource Management, June 1988, University of Illinois, Urbana? Champaign **USA.**
- Eighteenth (XVIII) International conference of Agricultural Economics from August 24, 1982 to September 2, 1982, Jakarta, **Indonesia.**

Services offered

1.IWMI - Karnataka State Water Sector Reform: Current Status, Emerging Issues and Needed Strategies

2. IWMI - Stabilization value of groundwater

3. Training of scientists in the institutes run by Indian Council of Forestry Research and Education, Govt of India, with regard to setting research priority using economic surplus approach.

4. Former Member, Research Advisory committee, Central Sericultural Research and Training Institute, Govt of India, Mysore

5. Review of research project proposals submitted by scientists of Institute of Wood Science and Technology under ICFRE, Govt of India, Bangalore.

6. Review of research proposals submitted to South Asian net work of Development and Environmental Economics (SANDEE), Kathmandu, Nepal.

7. Served as member to improve Karnataka Water sector, Water Resources Department, Government of Karnataka 2011.

Referee for following journals

1. Ecological Economics
2. Agricultural Economics Research Association
3. Water Policy
4. Indian Journal of Agricultural Economics

Other Activities

- Responsible for success of around 35 post graduate students in seeking graduate fellowships at Univ of Idaho, Cornell University, Univ of Gent, Belgium, Agricultural

University of Norway, South Australia University, Adelaide, in the field of Natural resource and environmental economics and management

- Current interests are on water resource economics, economics of **medicinal plants** and their valuation, estimation of negative externalities in **groundwater** use and estimation of existence value of **sacred groves**.
- Hobbies include **Karnatak classical vocal music and Gamaka**. Click here : [KARNATAKA SANGEETHA DHARPANA \(English text of Karnatak Classical Music\)-Part I and Part II by Thirumalai Sisters Gaanakalaabhooshana Dr. T. Sachidevi & Karnataka Kalaashree, VIDHUSHI T. SHARADA \(Retd. Professors of Music\).](#)

Invited

- to present a paper on "*Existence value of sacred groves*", IUFRO, Montreal, 1990.
- to present a paper on "*Temple forests in India's forest development*" - International Ethnobiology Congress, Kunming, China, 1990.
- to participate in a workshop on "*Valuation of Non-Timber Forest Products*" by Harvard Institute for International Development, Bangkok, 1992.
- to be a visiting fellow at ANU, Canberra, 1992.
- to present a paper on "*Marketing of medicinal plants at Malaysia*" by Royal Swedish Academy of Sciences.
 - to present a paper on "*Indigenous knowledge in plant protection*" at The Netherlands, 1995.

40 Publications with NAAS score with downloadable link

SI No.	List of Publications	NAAS Journal ID
1	MS Suneetha and MG Chandrakanth, 2006, Establishing a Multi-stakeholder E Value Index in Medicinal Plants - An economic study on selected plants in Kerala and Tamilnadu States of India, <i>Ecological Economics</i> , Vol. 60, No.1, pp. 36-48. http://www.sciencedirect.com/science/article/pii/S0921800906000863	E009 (8.72)
2	AV Manjunatha, S Speelman, MG Chandrakanth, G Van Huylenbroeck, 2011, Impact of groundwater markets in India on water use efficiency: A data envelopment analysis approach, <i>Journal of Environmental Management</i> , Vol. 30, pp. 1-6. http://www.ncbi.nlm.nih.gov/pubmed/21803479	J165 (8.72)
3	M.G. CHANDRAKANTH, J.K. GILLESS, V. GOWRAMMA and M.G. NAGARAJA, 1990, Temple forests in India's forest development, <i>Agroforestry Systems</i> , 11 (3) : 199-21. http://link.springer.com/article/10.1007%2FBF00045899#page-1	A085 (7.22)
4	MG Chandrakanth, MG Bhat and MS Accavva, 2004, Socio-economic changes and sacred groves in South India: Protecting a community-based resource management institution, <i>Natural Resources Forum</i> , Vol. 28, No.2, pp. 102-111. http://onlinelibrary.wiley.com/doi/10.1111/j.1477-8947.2004.00077.x/abstract	N015 (7.15)
5	MG Chandrakanth and MG Nagaraja, 2014, Payment for ecosystem services for water - case of Cauvery, CURRENT SCIENCE, VOL. 107, NO.9, 10 NOVEMBER 2014, pp. 1375-1376. http://www.currentscience.ac.in/Volumes/107/09/1375.pdf	C155 (6.93)
6	BS Chaitra and MG Chandrakanth, 2005, Optimal extraction of groundwater for irrigation: synergies from surface water bodies in tropical India. <i>Water Policy Journal</i> , 7: 597-611 (Elsevier) http://wp.iwaponline.com/content/7/6/597	W005 (6.83)
7	Woldegebrial Zeweld, Guido Van Huylenbroeck , Assefa Hidgot, M. G. Chandrakanth, and Stijn Speelman, 2015, Adoption Of Small-Scale Irrigation And Its Livelihood Impacts In Northern Ethiopia, IRRIGATION AND DRAINAGE, DOI: 10.1002/ird.1938, http://www.toenre.com/downloads/2015-Wolde-et-al-MGC-article-in-Irrg-and-Drainage.pdf	I264 (6.51)
8	BK Rohith and MG Chandakanth, 2011, Institutional and economic dynamics of water users cooperative (WUC) societies in Cauvery Basin of	A066 (5.68)

	Karnataka, <i>Agricultural Economics Research Review</i> , Vol 24, July-Dec 2011, pp. 235-242. http://ageconsearch.umn.edu/bitstream/118231/2/6-BK-Rohit.pdf	
9	N Nagaraj, MG Chandrakanth, PG Chengappa, HS Roopa and Pramod M Chandakavate, 2008, Contract Farming and its Implications for Input-supply, Linkages between Markets and Farmers in Karnataka, <i>Agricultural Economics Research Review</i> , Vol. 21, pp. 307-316. http://ageconsearch.umn.edu/bitstream/47880/2/1-N-Nagaraj.pdf	A066 (5.68)
10.	H Lokesha* , TN Prakash , MG Chandrakanth and Chandarshekar, 2008, Economic Analysis of Transaction Cost on Kolaramma Tank Watershed in Eastern Dry Zone of Karnataka, <i>Agricultural Economics Research Review</i> , Vol. 21, pp 293-296 http://ageconsearch.umn.edu/bitstream/47685/2/17-H-Lokesha.pdf	A066 (5.68)
11.	M.G. Chandrakanth, C.N. Priyanka, P. Mamatha and Kiran Kumar Patil, 2013, Economic Benefits from Micro Irrigation for Dry Land Crops in Karnataka, <i>Indian Journal of Agricultural Economics</i> , Vol. 68, No.3, July-Sept. 2013, pp. 326-338. http://www.toenre.com/downloads/2013_IJAE_Econ_benefits_from_micro%20irrigation_for_dryland_crops_of_Karnataka.pdf	I020 (5.04)
12	Kiran Kumar R. Patil, GR Manjunatha and MG Chandrakanth, 2013, Economic Impact of Institutions on the Consumption of Forest Products in India, <i>Indian Journal of Agricultural Economics</i> , Vol. 68, No.2, April-June 2013, pp. 155-168. http://www.toenre.com/downloads/2013_IJAE_Kiranpatil_impact_of_institutions.pdf	I020 (5.04)
13.	Channaveer, MG Chandrakanth , PS Srikanthamurthy and N Nagaraj, 2012, Governance of Benefits from Developmental Programmes to Farmers in Karnataka, <i>Indian Journal of Agricultural Economics</i> , Vol.67, No.3, July-Sept. 2012, pp. 476-486. http://www.toenre.com/downloads/2012_07_IJAE_paper_Governance_of_benefits_from_dev_programs_Channaveer_MGC.pdf	I020 (5.04)
14.	BK Rohith and MG Chandrakanth, 2011, Economic Scenario of Farmers in Water Users Co-operatives Across Levels of Water Governance in Cauvery Basin of Karnataka, <i>Indian Journal of Agricultural Economics</i> , Vol.66, No.4, Oct-Dec. 2011, pp. 619-637. http://www.toenre.com/downloads/2011_IJAE_WUCs_article_by_BK_Rohith_and_MG_Chandrakanth_Vol66_No4_OctDec2011_pp_617-637.pdf	I020 (5.04)
15.	N Nagaraj, MG Chandrakanth, David Acker, PG Chengappa, HR Shruthi, CG Yadava, and Ramesh Kanwar, 2009, Economic Performance of Self	I020

	<p>Help Groups in Karnataka with special reference to Venkatelahalli in South India, <i>Indian Journal of Agricultural Economics</i>, Vol. 64, No. 4, Oct-Dec 2009, pp. 604-617.</p> <p>http://www.toenre.com/downloads/2009_10_paper_on_SHG_NN_MGC_IJ_AE.pdf</p>	(5.04)
16.	<p>M Gireesh, N Nagaraj and MG Chandrakanth, 1997, Rehabilitation of irrigation tanks in Eastren Dry Zone of Karanataka, <i>Indian Journal of Agricultural Economics</i>, Vol. 52, No.2, April-June 1997, pp. 231-243.</p> <p>http://www.toenre.com/downloads/1997_IJAE_paper_Economics_of_Tank_desiltation_Gireesh_NN_MGC.pdf</p>	I020 (5.04)
17.	<p>MG Chandrakanth and V Arun, 1997, Externalities in Groundwater Irrigation in Hard Rock Areas, <i>Indian Journal of Agricultural Economics</i>, Vol. 52, No.4, Oct-Dec 1997, pp. 761-771.</p> <p>http://www.toenre.com/downloads/1997_10_paper_negative_externalities_MGC_Arun_IJAE.pdf</p>	I020 (5.04)
18.	<p>N Nagaraj and MG Chandrakanth, 1995, Low Yielding Irrigation Wells in Peninsular India - An Economic Analysis, <i>Indian Journal of Agricultural Economics</i>, Vol. 50, No. I, Jan-March 1995, pp. 47-58.</p> <p>http://www.toenre.com/downloads/1995_IJAE_paper_on_low_yilelding_bor_ewells_NN_MGC.pdf</p>	I020 (5.04)
19.	<p>N Nagaraj, MG Chandrakanth and Gurumurthy, 1994, Borewell Failure in Drought-Prone Areas of Southern India: A Case Study, <i>Indian Journal of Agricultural Economics</i>, Vol. 49. No.1. Jan-March 1994. pp. 101-106.</p> <p>http://www.toenre.com/downloads/1994_IJAE_NBD_application_paper_on_borewell_failire_NN_MGC_Gurumurthy.pdf</p>	I020 (5.04)
20.	<p>GK Vani, PS Srikantha Murthy, MG Chandrakanth, GM Gaddi, H Chandrashekar, N Nagaraj and M Bhattarai, 2015, Employment Generation, Labour Migration and MGNREGP Intervention: Evidences from a Village Level Study, <i>Agricultural Economics Research Review</i>, Vol. Vol. 28 (Conference Number) 2015 pp 267-274</p> <p>http://ageconsearch.umn.edu/bitstream/229328/2/26-GK-Vani.pdf</p>	A066 (5.68)

Sl. No.	List of Publications	NAAS Journal ID
21.	GB Lokesh, PP Muthappa, and MG Chandrakanth, 2004, Economics of cultivation and marketing of passion fruit in Karnataka, <i>Agricultural Economics Research Review</i> . Vol.17 January-June 2004 pp 131-138.	A066 (5.68)
22.	MG Chandrakanth, JV Venkataram, KNR Sastry, R Ramanna, S Bisalialah, and KSA Kumar, 1979, Consumption of Forest Products in India - A Quantitative analysis, <i>Indian Journal of Agricultural Economics</i> , Vol. 34, No. 3, Jul-Sep 1979, pp. 51-60	I020 (5.04)
23.	N Nagaraj and MG Chandrakanth, 1997, Intra and Inter-Generational equity effects of irrigation well failures - Farmers in hard rock areas of India, <i>Economic and Political Weekly</i> , Vol. 32, No. 13, March 29, 1997 (Review of Agriculture) pp. A 41-44 http://www.toenre.com/downloads/1997_03_EPW_NN_MGC_Intra_and_Inter_Generational_Equity_Effects_of_Irrigation_Well_Failures.pdf	E024 (4.66)
24.	MG Chandrakanth, Bisrat Alemu, Mahadev G Bhat, 2004, Combating Negative Externalities of Drought Groundwater Recharge through Watershed Development Programme, <i>Economic and Political Weekly</i> , Vol. 39, No. 11, 13 Mar 2004, pp. 1164-1170. http://www.toenre.com/downloads/2004_03_combating_neg_externalities_MGC_Bisrat_EPW.pdf	E024 (4.66)
25.	MG Chandrakanth and Jeff Romm, Groundwater Depletion in India-Institutional Management Regimes, <i>Natural Resources Journal</i> , Vol. 30, Summer 1990, pp.485-501. http://lawschool.unm.edu/nrj/volumes/30/3/03_chandrakanth_groundwater.pdf	Thomson Reuter Impact factor 0.21
26.	MG Chandrakanth and Jeff Romm, Sacred forests, secular forest policies and People's actions, <i>Natural Resources Journal</i> , Vol 31, No.4, pp. 741-756, Fall 1991 http://lawschool.unm.edu/nrj/volumes/31/4/02_chandrakanth_sacred.pdf	Thomson Reuter Impact factor 0.21
27.	H Diwakara and MG Chandrakanth, 2007, Beating negative externality through groundwater recharge in India: a resource economic analysis, <i>Environment and Development Economics</i> (Cambridge University Press), Vol. 12, pp. 271-296. http://www.toenre.com/downloads/2007_EDE_article_MGC_Diwakara.pdf	Thomson Reuter Impact Factor 1.19
28.	N Nagaraj, K Shankar and MG Chandrakanth, Pricing of Irrigation Water in Cauvery Basin Case of Kabini Command, <i>Economic and Political Weekly</i> , Vol. 38, No. 43, 25 Oct 2003, pp.4518-4520 http://www.toenre.com/downloads/2003_10_EPW_article_pricing_MGC_Shanker.pdf	E024 (4.66)

29	U C Ramalinge gowda, M G Chandrakanth, P S Srikanthamurthy, C G Yadav, N Nagaraj, channaveer, 2012, Economics of Peri-Urban Agriculture (4.66) Case of Magadi Off Bangalore, <i>Economic and Political Weekly</i> , Vol. 47, No. 24, 16 Jun 2012, pp. 75-80. http://www.toenre.com/downloads/2012_Jun_EPW_article_on_periurban_agriculture_UAS_Bangalore.pdf	E024 (4.66)
30	VM Rao and MG Chandrakanth, 1984, Resources at the Margin: Tank irrigation program in Karnataka, <i>Economic and Political Weekly</i> , Vol.13, No. 26, June 1984, pp A54-57 http://www.toenre.com/downloads/1984_06_EPW_article_VMRao&MGC.pdf	E024 (4.66)
31	Vikram Patil, MG Chandrakanth, NR Gangadharappa, AV Manjunatha and B Shivanagouda, 2014, Economic Impact of Forest Management Institutions on Groundwater Recharge in Karnataka, India, <i>Indian Forester</i> , Vol. 140, No. 11, pp.1095-1106 http://www.toenre.com/downloads/2014_Economic_Impact_Forest_Management_Institutions.pdf	T023 (4.27)
32	K Suresh and MG Chandrakanth, 2015, Total factor productivity and returns to investment in Ragi (finger millet) crop research in Karnataka state, India, <i>Indian Journal of Economics and Development</i> , Vol 3, No. 3, pp. 199-205, March 2015 http://www.toenre.com/downloads/2015-Total-factor-productivity-and-returns.pdf	I044 (4.01)
33.	U Divyalekshmi, Gayathri Mohan, KR Hamsa, S Subramanya and MG Chandrakanth, 2015, Estimation of payment for ecosystem services of GKVK: A resource economics study, <i>Mysore Journal of Agricultural Sciences</i> , Vol. 49 No.4, pp. 738-743.	T041 (2.91)
34	Kolla Sravanthi and MG Chandrakanth, 2013, Transaction cost analysis of benefits received from Governmental programs by farmers in Krishna District of Andhra Pradesh, <i>Mysore Journal of Agricultural Sciences</i> , Vol. 47, No.2, pp. 368-373. http://www.toenre.com/downloads/2013_MJAS_Transaction_cost_analysis_benefits_received_in_AP.pdf	T041 (2.91)
35.	Kolla Sravanthi and MG Chandrakanth, 2013, Utilization of benefits from Government programs or schemes by farmers in Andhra Pradesh - An institutional economic analysis, <i>Mysore Journal of Agricultural Sciences</i> , Vol. 47, No.1, pp. 138-146.	T041 (2.91)
36.	KR Hamsa, GV Rohith, KS Rashmi, PS Srikanthamurthy and M G	T041

	Chandrakanth, 2015, Recreational use Value of Tourism Using Metadata, Mysore Journal of Agricultural Sciences, Vol. 49, No.3, pp. 548-552 http://www.toenre.com/downloads/2015_Recreation_%20use_value_of_%20tourism_in_%20Karnataka.pdf	(2.91)
37.	GB Lokesh and MG Chandrakanth, 2004, Economics of production, marketing and processing of turmeric in Karnataka, <i>Indian Journal of Agricultural Marketing</i> Vol.18 No.2 pp.32-44.	I021 (2.89)
38.	MG Chandrakanth, 2012, Irrigation and Efficient Use of water, Letter to the Editor, Economic and Political Weekly, Vol. 47, No.24, June 16, 2012, pp. 4-5. http://www.toenre.com/downloads/2012_Jun_Letter_to_EPW_on_Groundwater_from_MGC.pdf	E024 (4.66)
39.	MG Chandrakanth, 2015, Role of Technology, Institutions and Irrigation in Agricultural Development, <i>Indian Journal of Agricultural Economics</i> , Vol. 70, No.3, July-Sept. 2015, pp. 454-469. http://www.toenre.com/downloads/2015-MGChandrakanth-Chairman-report-of-SessionII-IJAE-Jul-Sep2015.pdf	I020 (5.04)
40.	MG Chandrakanth, 2002, Valuation of Natural and Environmental Resources: Methodology and Estimation, <i>Indian Journal of Agricultural Economics</i> , Vol. 57. No. I. Jan-Mar 2002, pp. 23-30.	I020 (5.04)

Other Significant Publications

- MG Chandrakanth, Irrigation and Efficient use of Water, Letter to the Editor, **Economic and Political Weekly**, Vol XLVII, No. 24, June 16, 2012, pp. 4-5.
- **MG Chandrakanth** et al, Micro irrigation : Economics and outreach in Karnataka, in Palanisami (Edited), Micro Irrigation, Economics and Outreach, IWMI, AERA and Macmillan, 2012, pp. 27-54.
- **MG Chandrakanth**, Karnataka state water sector reform: Current status, emerging issues and needed strategies, , ITP RESEARCH SERIES - 2009 No.3, IWMI, Icrisat, Andhra Pradesh, pp. 1-47.
- **Organized Session by MG Chandrakanth** at the 2008, European Association of Agricultural Economics Conference at Ghent, Belgium for the following paper Shalet K.Varghese, Manjunatha, A.V., Poornima, K.N., Akarsha, B.M., Rashmi, N., Tejaswi, P.B. Saikumar, B.C.,Jeevarani, A.K., Accavva, M.S., Amjath Babu, T.S., Suneetha, M.S., Unnikrishnan, P.M., Deshpande, R.S., Nagaraj, N., Chandrashekar, H., Mahadev G Bhat, Chengappa, P.G.,Mundinamani, S.M., Shanmugam, T.R., and Chandrakanth, M.G, (2008), organized session Valuation of externalities in water, forests and Environment for sustainable development, Organized Session, *Proceedings of the 12th Congress of the European Association of Agricultural Economists*, pp.131-138.
- 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.

- 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
-
- 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**, IWMI-TATA Water Policy Program, 5th Annual IWMI-TATA partnerships meet, Feb 2005
- Nagaraj, N., Suvarna Kumar, A.H. and **Chandrakanth, M.G.**, (2005) Economic Analysis of Groundwater Markets in Central Dry Zone of Karnataka, **Water Policy Research Highlight No. 13**, IWMI-TATA Water Policy Program, 5th Annual IWMI-TATA partnerships meet, Feb 2005.
- Chandrakanth, M.G. India hit by domestic water disputes, *Water 21(Magazine of the International Water Association)*, Aug 2004, p. 4.
- Lokesh G.B. and **Chandrakanth M.G.**, (2003). Cultivation of Sweet flag (*Acorus calamus*): Economic Study of an Endangered Medicinal Plant, *Journal of Medicinal and Aromatic Plant Sciences*, **25** (2002).
- **Chandrakanth M.G.** (2002), Valuation of Natural and Environmental Resources: Methodology and estimation, Summaries of Group Discussion, *Indian Journal of Agricultural Economics*, **57**(1) : 23-30.
- **Chandrakanth M.G.** and Mahadev G. Bhat (2002), Institutions, Markets and the Management of Common Property Sacred Groves in India, Paper presented at World Congress of Environmental and Resource Economists, Monterey, California, June 24 - 27.
- Suneetha M.S. and **Chandrakanth M.G.** (2002), Trade in medicinal plants in Kerala - Issues, problems and prospects. *Journal of Medicinal and Aromatic Plant Sciences*, **24** (2002) : 756-761
- **Chandrakanth M.G.**, Shivakumaraswamy, B., Sathisha K.M., Basavaraj, G., Sushma Adya, Shyamasundar M.S. and Ananda K.K., (2002), Negative Externality Due to Cumulative Interference of Irrigation Wells in Groundwater Irrigation in Hard Rock Areas of Peninsular India, Paper presented at **World Congress of Environmental and Resource Economists**, Monterey, California, June 24 - 27.
- **Chandrakanth, M.G.**, Ravishankar A, Rangesh Paramesh and Suneetha M.S. (2002), Medicinal plants - A Resource economics study, in DK Marothia (Ed) Institutionalizing Common Property Resources, Concept Publishing House, New Delhi.
- Bisrat Alemu, **Chandrakanth, M.G.** and Mahadev G. Bhat, (2002), Impact of watershed development program in augmenting groundwater resource in drought situation. in K Palanisami, D Suresh kumar and B Chandrashekarana (Ed), Watershed Management, Associated Publishing Company, New Delhi, pp. 192-210.
- **Chandrakanth M.G.**, (2001). Valuation of Natural and Environmental Resources, Methodology and estimation, Rapporteurs Report, Indian Journal of Agricultural Economics, **56** (3) : 564-579.

- **Chandrakanth, M.G.**, Shivakumaraswamy, B and Ananda, K.K., (1998), *Economic implications of unsustainable use of groundwater in hard rock areas of Karnataka*, Report submitted to The Ford Foundation, New Delhi, Dept of Agri Economics, UAS, Bangalore, March 1998, pp. 1-30.
- **Chandrakanth, M.G.**, Shyamasundar, M.S. and Ananda, K.K., (1998), *Interplay of markets, externalities, institutions and equity in groundwater development - An economic study in the hard rock areas of Karnataka*, Report submitted to The Ford Foundation, New Delhi, Dept of Agri Economics UAS, Bangalore, March 1998, pp. 1-45.
- **Chandrakanth, M.G.**, Sathisha, K.M. and Ananda, K.K., (1998), *Resource economics study of valuation of well interference externalities in Central dry zone of Karnataka*, Report submitted to The Ford Foundation, New Delhi, Dept of Agri Economics UAS, Bangalore, March 1998, pp. 1-30.
- **Chandrakanth, M.G.**, Sushma Adya and Ananda, K.K. (1998), *Scarcity of groundwater for irrigation : Economics of coping mechanisms in hard rock areas*. Report submitted to The Ford Foundation, New Delhi, Dept of Agri Economics UAS, Bangalore, March 1998, pp. 1-40.
- **Chandrakanth, M.G.** and Nagaraja, M.G. (1997), Existence value of Kodagu sacred groves: Implications for policy, in Anil Agarwal (Ed), *The challenge of the Balance: Environmental Economics in India*. Center for Science and Environment, New Delhi, 1997, pp. 217-224.
- Nagaraja, M.G. and **Chandrakanth, M.G.** (1997), Karnataka: Culture of Keres and Kattes, in Anil Agarwal and Sunita Narain (Ed) *Dying Wisdom-State of India's Environment - A Citizen's Report 4*, Center for Science and Environment, New Delhi, pp. 204-205.
- John M. Kerr, **Chandrakanth, M.G.** and Deshpande, R.S. (1997), Managing Groundwater Development in Karnataka, 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. 421-443.
- Chengappa, N. Nagaraj, **Chandrakanth, M.G.**, H. Chandrashekar, D.S. Gundurao, B. Shivakumaraswamy, V.K. Arunakumar, K.S. Nagaprasad, M. Girish and TJ Lakshminarayana, (1996), *Economic viability of small farmers in Karnataka*. Karnataka State Planning Board, Government of Karnataka, Bangalore, Jan 1996.
- **Chandrakanth, M.G.**, H. Ramachandra Reddy, A.L. Siddaramaiah, B. Padmodaya, S. Jagirdar and N. Basavaradhya, (1995), *Plant protection practices in India based on Indigenous knowledge*, invited paper presented to the symposium on 'Indigenous knowledge systems' at the 13th International Plant protection Congress, 2-7 July 1995, The Hague, The Netherlands.
- **Chandrakanth, M.G.**, (1995), *Market imperfections, transaction costs and economic scarcity of forest based medicinal plants and plant products in Karnataka, India*, invited paper presented at the research seminar on environmental economics, organized by Beijer Institute, The Royal Swedish Academy of Sciences, at Kota Kinabalu, Malaysia, May 16-May 19, 1995.
- Nagaraj, N and **Chandrakanth, M.G.**, (1995), Low yielding irrigation wells in peninsular India - An economic analysis, 1995, *Indian Journal of Agricultural Economics*, Vol. 50, No. 1, Jan-Mar 1995, pp. 48-58. (Won the Best Full Length Paper

award for 1995, from Indian Society of Agricultural Economics, awarded at the Annual Conference of Indian society of Agricultural Economics, Peechi, Jan 1997).

- **Chandrakanth, M.G.** and Nagaraja, M.G. (1994), Sacred groves of Coorg, *Forest, Trees and People*, Newsletter No. 23, Feb 1994, pp.57-59.
- Arun, V. and **Chandrakanth, M.G.** (1993), Valuation of Externalities in Borewell irrigation in Hard Rock Areas of Karnataka - An empirical study, *Water Management: India's groundwater challenge*, VIKSAT/Pacific Institute Collaborative Groundwater Project, Ahmedabad, Dec 14-16, 1993.
- Nagaraj, N. and **Chandrakanth, M.G.**, (1993), Electricity pricing for groundwater irrigation in hard rock areas of the Deccan Plateau: Estimation of Willingness to Pay, *Water Management: India's groundwater challenge*, VIKSAT/Pacific Institute Collaborative Groundwater Project, Ahmedabad, Dec 14-16, 1993.
- Prakash, T.N. and **Chandrakanth, M.G.**, (1993), Sustainability in Groundwater resource development - policy implications on the subsidy for promoting positive externalities, *Water Management: India's groundwater challenge*, VIKSAT/Pacific Institute Collaborative Groundwater Project, Ahmedabad, Dec 14-16, 1993.
- **Chandrakanth, M.G.** and Nagaraja, M.G., (1993), Green Deities, *The Times of India* Vol. 8, No.90, Jan 16, 1993, p. 15.
- **Chandrakanth, M.G.**, (1993), Ground rules for water, *The Times of India*. Vol 8, No. 79, Jan 2, 1993, p. 15.
- Narasimha, N, **Chandrakanth, M.G.** and Jayaramaiah, K.M. (1994), Gathering and processing activity analysis in forest based edible oil seed tree - A case study of *Garcinia cambogia*, *Journal of Non Timber Forest Products*, Vol 1 Nos 1 and 2, pp. 56-59.
- **Chandrakanth, M.G.** and Lokamanya, D.S. (1994), Market imperfections in forest based medicinal tree parts - A case study, *Journal of Non Timber Forest Products*, Vol 1 Nos 1 and 2, pp. 6-14.

Departmental publications from TEAM OF EXCELLENCE IN NRE, World Bank

- Chinnappa, B., Nagaraj, N. and **Chandrakanth, M.G.** (2004), Valuation of irrigation induced soil degradation in Tungabhadra Project area of Karnataka - An economic analysis.
- 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.
- Hemalatha, A.C., and **Chandrakanth, M.G.**(2003), Estimation of externalities due to sand mining in water streams in affected riparian areas of Karnataka.
- Shankar, K., Nagaraj, N., and **Chandrakanth, M.G.**, (2003), Pricing of irrigation induced land degradation effects in Kabini Command, Karnataka.
- Ravi, B.M., Suryaprakash, S. and **Chandrakanth, M.G.**, (2002), Pricing of surface water in Bhadra command area - A resource economic study.
- Rohith, B.K., Prakash, T.N. and **Chandrakanth, M.G.**, (2002), Economics of tank irrigation in Western Ghats of Karnataka.
- Accavva, M.S., Chengappa, P.G. and **Chandrakanth, M.G.**, (2002), Preservation of Devaraka Kadu in Kodagu district - A resource economic study.
- Chaitra, B.S. and **Chandrakanth, M.G.**, (2002), Valuation of Synergistic role of canals and tanks in groundwater recharge in the framework of optimal control theory.

- Sripadmini, R., **Chandrakanth, M.G.**, and Chandrashekar, H. (2001), Relative economic performance of watershed development projects under different management protocols in Karnataka.
- Bisrat Alemu Mengesha and **Chandrakanth, M.G.**, (2001), Economic access to groundwater irrigation in watershed development in Karnataka.
- Lokesh, G.B. **Chandrakanth, M.G.**, (2001), A resource economic study of sweet flag (*Acorus calamus*) in Tumkur district, Karnataka.
- **Chandrakanth, M.G.** and Diwakara, H. (2001), Synergistic effects of watershed treatments on farm economy through groundwater recharge - A resource economic analysis.
- Suneetha, M.S. and **Chandrakanth, M.G.**, (2001), Demand for and valuation of medicinal plants and products in the western ghats of Kerala - A resource economics study.

References

1. Professor RS Deshpande, former Director, Institute for Social and Economic Change, Nagarabhavi, Bangalore 560072, India. deshpande@isec.ac.in
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