

CURRICULUM VITAE OF PROF. B. C. MAL

Name : Dr. Bimal Chandra Mal
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Date of Birth : July 11, 1950



Academic Record:

Degree	Institution	Year of passing	Division/class	Subjects
B. Tech. (Hons.)	IIT Kharagpur	1971	1 st class	Agricultural Engineering
M. Tech.	IIT Kharagpur	1973	First rank	Soil & Water Cons. Engg.
Ph. D.	IIT Kharagpur	1984	-----	Ground Water Engineering

Post-doctoral course on Water Management from Colorado State University, USA.

Professional Experience:

Posts held	Employer	Period	Nature of work
Vice Chancellor	Govt of Chhattisgarh	Since February 11, 2010	Administrative
Head of the Dept	IIT Kharagpur	September 2005 to August, 2008	Teaching, administration, research, consultancy and extension
Professor	IIT Kharagpur	Nov 29, 1996 to Feb 10, 2010	Teaching, research, consultancy, extension
Associate Professor	-Do-	Sept 2, 1991 to Nov 28, 1996	-Do-
Assistant Professor	-Do-	March 30, 1987 to Sept 1, 1991	-Do-
Associate Professor & Sr. Scientist	Rajendra Agril Univ, Pusa, Bihar	Nov 20, 1979 to March 29, 1987	Teaching, research on water management, extension in farmers' fields with their participation, etc.
Research Officer	IIT Kharagpur (Ford Foundation project)	June 22, 1976 to Nov 19, 1979	To conduct research on water management, in farmers' fields with their participation, training etc.
Lecturer	B. C. Agril Univ, Mohanpur, W. B.	March 10, 1976 to June 21, 1976	Teaching
Assistant Agril Engineer	Central State Farms, Pusa, New Delhi	Nov 30, 1975 to March 8, 1976	Land development & soil conservation works, construction of wells, pipelines & channels, administrative works.
Assistant Engineer (Agri-Mechanical)	Dept of Agriculture, Govt of West Bengal	Sept 25, 1973 to Nov 27, 1975	Installation & maintenance of lift irrigation projects, land development works, command area development, administration & management of the office involving 300 field staff & about 50 office & workshop staff

Areas of Expertise:

- Watershed management
- Irrigation Engineering
- Ground water development

- Design and construction of aquacultural farms
- Design of aquacultural facilities and equipment
- Intensive aquaculture in ponds and tanks
- Coastal aquaculture

Foreign Visits:

- i. Visited the International Institute of Land Reclamation and Improvement, Wageningen, the Netherlands to study the drainage network of the country.
- ii. Visited the Asian Institute of Technology, Bangkok, Thailand for scientific discussion with the Water Management and Aquaculture group.
- iii. Visited different Universities and USDA research stations in USA.
- iv. Stuttgart University, Germany as a Visiting Professor
- v. Worked as a Visiting Professor at Alemaya University, Ethiopia from January 2002 to June, 2003 under a World Bank funded project (ARTP).
- vi. Visited Portland, USA in 2006 to present a research paper in the international meeting of the American Society of Agricultural and Biological Engineers.
- vii. Visited the Aquaculture Centre of Ohio State University, Columbus in 2006.
- viii. Visited Reno, USA in 2009 to present a research paper in the international meeting of the American Society of Agricultural and Biological Engineers.
- ix. Visited University of California, Davis to have discussion with the Aquaculture and Water Management Group.
- x. Visited Dubai in 2011 for Vice Chancellors' conference.

Members of Professional Societies

Member	American Society of Agricultural and Biological Engineers.
Life member	Institution of Engineers (India)
Life member & Fellow	Indian Society of Agricultural Engineers.
Life member	Indian Association of Soil and Water Conservationists
Life member	Indian Society of Water Management

Contribution for the Professional Development

- i. I along with few other colleagues established a College of Agricultural Engineering at Rajendra Agricultural University, Pusa in December 1983. I took the leading role for the development of the college through establishments of laboratories, curriculum design and worked as In-Charge Students' Cell of the new college.
- ii. In the field of water management, I contributed in the form of development of various technologies, such as low cost tubewells, energy efficient diesel engine pumps, ground water exploration and development, watershed management, improved irrigation methods, publication of text book and manuals etc.
- iii. Since 1987, I was constantly striving for the development of a new discipline, namely, Aquacultural Engineering at IIT Kharagpur. Facilities and Laboratories have been

developed through various Research and Consultancy grants. Teaching materials have been prepared for the newly introduced discipline as text books are not available.

- iv. I was regularly making efforts for placements of these Engineering Post Graduates at suitable positions. My efforts resulted in inclusion of the subject of Aquacultural Engineering in Agricultural Research Service (ARS) from the year 2001. Many of the state fisheries colleges have also started recruiting Aquacultural Engineers for teaching Engineering subjects to the Fishery Science students.
- v. While teaching at Alemaya University, Ethiopia, teaching materials were prepared on three subjects namely Advanced Irrigation Engineering, Soil and Water Conservation Engineering and Land Evaluation and Watershed Management as good text books are not available in a less developed country like Ethiopia.
- vi. As the Vice Chancellor of the Technical University, I am making efforts to introduce new syllabus for Engineering, Management and Pharmacy disciplines. For imparting quality education to the students of the 90 affiliated colleges of the university, regular training programmes are being arranged for the faculty members of the colleges, academic inspections are being carried out wherein labs are visited, interaction is made separately with the students and the teachers and feedback is given to the college managements. Other necessary steps for upgradation of education quality are being adopted.

Sponsored Research Projects Handled

- i. All India coordinated Research Project on Water Management sponsored by Indian Council of Agricultural Research (ICAR). 1980 – 87.
- ii. Hydrologic and Geomorphic Studies of Watersheds using Uncertainty Analysis and Principle of Maximum Entropy sponsored by ICAR. 1994 - 97
- iii. Standardisation of the Design Parameters of Surface Aerators for Pond Culture Practices sponsored by ICAR. 1996 - 2000
- iv. Development of a Farm Effluent Control and Treatment System for Environment Friendly Aquaculture sponsored by ICAR. 2002 – 05.
- v. Artificial Recharge of groundwater for Sustainable Water Resources Utilisation in Midnapore District of West Bengal sponsored by ICAR. 2002 – 05.
- vi. Techno-Economic Feasibility of Integrated Aquaculture Options within Irrigation Systems sponsored by ICAR. 2005 – 08.
- vii. Development of Recirculatory Aquaculture System Based on Bioremediation and Integrated Bioplastic Production sponsored by the Department of Biotechnology, Govt of India. 2007-2010.
- viii. Design and Development of a Novel Low Cost Gravity aeration System sponsored by DST, Govt of India. 2008-2012.
- ix. Technology Dissemination for Saving of Fuel in Small Diesel Engine Operated Centrifugal Pumpsets, NABARD, 2009-2011.

Consultancy Projects

- i. Status Report on Kopili River Catchment, Meghalaya 1988. Agricultural Finance Corporation (AFC), Calcutta.
- ii. Status Report on Dhaleswari River Catchment, Mizoram. 1989. AFC, Calcutta.
- iii. Status Report on Tuivai River Catchment, Mizoram. 1989. AFC, Calcutta.
- iv. Status of Surface and Ground water Potential of Jalpaiguri District for Irrigation Planning. 1997. Jalpaiguri Zilla Parishad (District Council)
- v. Evaluation of soil and Water Conservation Program in Chhotanagpur Plateau. 1999. Society for Promotion of Wastelands Development (SPWD), New Delhi.
- vi. Evaluation of Soil and Water Resources Management Structures as a Technical Advisor in KRIBHCO area of Eastern Region. 2001. Indo-British Rainfed Farming Project, Ranchi.
- vii. Advisor for Water Management Aspect of the EUROCONSULT (1995-96), an organization of the Netherlands engaged in North Bengal Terai Development Project.
- viii. Status Report for the Development of Paschimanchal. 2006-08. Government of West Bengal
- ix. Irrigation Planning for Binpur-I and Binpur-II Blocks of Paschim Medinipore District, West Bengal. 2009-11. Government of West Bengal

Publication and Research:

a) Book/Book chapter	02
b) Publication in referred journals	82
c) Publication in Proceedings, Conference	104
d) Guidance at Doctoral level	
i) Completed:	14
ii) On-going:	05
e) Guidance at Master level	50
f) Sponsored Research Projects	09
g) Consultancy Projects	09

Award and Honours:

- i. Ford foundation Fellowship for Post Doctoral Training at Colorado State University, USA.
- ii. Most outstanding text book award 1995 by ISAE.
- iii. Commendation award 1998-99 by ISAE for outstanding contribution in Agricultural Engineering Education.
- iv. Honorary appointment in the Research Board of Advisors for the year 1999 by the American Biographical Institute.
- v. Fellow, Indian Society of Agricultural Engineers.

Members of National Committees

1. Member of the AICTE Expert committee-2008 for accreditation of UG and PG courses of University Institute of Chemical Technology, Mumbai.

2. ICAR Quequennial Review Team (QRT) member for evaluation of the research activities of Central Institute of Freshwater Aquaculture (CIFA), Bhubaneswar for the period 2003-2008.
3. Chairman of the ICAR peer review committee for National fund on Basic and Strategic Research in Agriculture (NFBSRA) on “A comprehensive study on Argulosis”.
4. ICAR Quequennial Review Team (QRT) member for evaluation of the research activities of Central Institute of Fisheries Education (CIFE), Mumbai for the period 2004-2009.
5. Expert Committee Member of the Department of Science and Technology for evaluation of project proposal “Establishing –Centre for Precision Farming Machinery (CPFM)”.

Reviewers of National and International Journals & Books

1. Reviewed the suitability of publication of the book “Effluent Management in Land-based Aquaculture” to be published by the Wiley-Blackwell, Oxford, United Kingdom.
2. Acted as the Reviewer for Aquacultural Engineering (Elsevier) Journal, Transactions of the ASABE, Journal of Indian Water Resources Society, IIT Roorkee, Journal of the Institution of Engineers (I), Hydrological Processes Journal, Aquaculture (Elsevier) Journal, Environmental Technology, African Journal of Agricultural Research, ASCE Journal of Hydrologic Engineering, etc.

Administrative Experience:

- i. Head, Soil and Water Engineering Department, Rajendra Agricultural University, Pusa, 1983-87.
- ii. NSS Programme Co-ordinator, IIT Kharagpur, 1991-1996.
- iii. Chairman, IIT Water Works and Horticulture activities, 2000-2001.
- iv. President, IIT Teachers` Association, 2003-2004.
- v. Chairman, Commercial Establishments and Licensing Authority, IIT Kharagpur, 2004-2005.
- vi. Head, Agricultural and Food Engineering Department, IIT Kharagpur, 2005-2008.
- vii. Chairman, Technology Cooperative Credit Society, IIT Kharagpur 2007-2010.
- viii. President of Science Centre, Midnapore 1990-2010. The Centre received Nehru Award in 2002 Indian Science Congress from the Prime Minister of India due to science popularization in rural areas of West Bengal.
- ix. Vice Chancellor, Chhattisgarh Swami Vivekanand Technical University, Bilai, Chhattisgarh. Since February, 2010.

(B. C. Mal)