



Bishnu Prasad Behera, Ph.D. I.A.R.I. (New Delhi)
Associate Professor
Department of Agricultural Structure, Civil and Environmental Engineering

Education

- Ph.D. (Agril. Engg.) in Soil & Water Conservation Engineering, Indian Agricultural Research Institute, New Delhi, (India)- 2003
- M.Tech(Agril. Engg.) in Soil & Water Conservation Engg, College of Agricultural Engineering & Technology, OUAT, Bhubaneswar-751003, Odisha- 1990
- B.Sc. (Ag. Engg. & Tech.), Orissa University of Agriculture and Technology, Bhubaneswar- 1985

Experience

- *Working in the Directorate of Agriculture & Food Production and Directorate of Soil Conservation, Govt. of Odisha for survey, estimation and execution of on farm development works, soil conservation structures as Junior Engineer from 1985 to 1993.*
- *Working in OUAT Bhubaneswar since 1993 in different capacities in teaching, research and extension, present position as Associate Professor, Department of Agricultural Structures, Civil & Environmental Engineering since 2003.*

Projects/ schemes

- Working as Agriculture Engineer in the AICRP on water management at Chiplima centre, Sambalpur, OUAT.
- Engaged in watershed activities, NWDPRAs schemes, wasteland schemes, land leveling of the University farms throughout the State

Other important assignments

- Member, Farm development committee of OUAT, Bhubaneswar-751003.
- Member, Technical Committee on University Civil Constructional work, OUAT.
- Member, Farmer's Commission, Govt. Of Orissa in Soil & Water Conservation

Courses taught

- Strength of Materials (B. Tech.)
- Engineering Mechanics (B. Tech.)
- Surveying & Leveling (B. Tech.)
- Building Materials & Structural Designs (B. Tech.)
- Soil Mechanics (B.Tech)

- Soil and Water Conservation Engineering (B.Tech.)
- Watershed Management (B.Tech.)
- Small dams and reservoirs (B.Tech.)
- Rural water supply and sanitation (B.Tech)
- Environmental Science (B.Tech)
- Environmental Control Engineering (B.Tech)
- Protected Agriculture & Post Harvest Technology (B.Tech)
- Forest Survey and Engineering (B.Sc(forestry))
- Design & Maintenance of Green house (B.Tech)

Students guided

Guided 3 students for M. Tech. in SWCE

Co-Guide for 8 students of M. Tech.in SWCE

Significant research contributions

- Sediment yield modeling of Ib river basin and impact on Hirakud reservoir
- Determination of drainage spacing in rice fields in Hirakud command.
- Assessment of noise pollution in Bhubaneswar city
- Monitoring rain water harvesting works in the KVKs of OUAT
- On farm water management in the adopted villages of Hirakud command
- Solid waste management in Bhubaneswar city and its future prospectus

Present research interests

- Farm development activities
- Soil & water conservation planning and construction of structures
- Watershed development
- Environmental control in farm buildings
- Planning and management of rural structures
- Protected cultivation and green house technology

Honours and Awards

- Best research paper award in 1996 from Orissa Engineering Congress, Bhubaneswar
- Best research paper award in 1996 from Orissa Engineering Congress, Bhubaneswar (awarded cash prize)
- Gold Medal & 1st Prize in 2006 from Orissa Engineering Congress, Bhubaneswar
- URR Patnaik Memorial Award in 2006 from the Institution of Engineers (INDIA), Bhubaneswar
- Gold Medal & 1st prize in 2007 from Orissa Engineering Congress, Bhubaneswar

- K.C.Das Memorial Award in 2007 from the Institution of Engineers (INDIA), Bhubaneswar
- Best research paper award in 2008 from Orissa Engineering Congress, Bhubaneswar
- Best research paper award in 2009 from Orissa Engineering Congress, Bhubaneswar
- Er. R.C.Patro Memorial Award in 2013 from the Institution of Engineers (INDIA), Bhubaneswar, Odisha State Centre
- ISAE Commendation Medal for the year 2013 in the 48th ISAE Convention during 21-23 February,2014 at CTAE, MPUAT, Udaipur from Indian Society of Agricultural Engineers, New Delhi
- Er.R.C.Patro Memorial Award in 2014 from the Institution of Engineers (INDIA), Bhubaneswar, Odisha State Centre
- Er. Govinda Chandra Sahu Award in 2014 from the Institution of Engineers (INDIA), Bhubaneswar, Odisha State Centre

Life Member of Professional Bodies

- Life Member, FIE, The Institute of Engineers (India), Kolkata (F-1134732-140AG)
- Life Member, The Indian Science Congress Association, Kolkata (L-23853)
- Life Member, Indian Association of Soil & Water Conservationists, Dehradun (LM-833)
- Life Member, Indian Society of Remote Sensing, Dehradun.(L-2914)
- Life Member, Indian Society of Coastal Agricultural Research, Canning Town, Kolkata (LM-245-2006)
- Life Member, Indian Society of Technical Education, IIT Campus, New Delhi.(LM 49992/251617-2006)
- Life member, Indian Society of Agricultural Engineers, New Delhi.(LM-7934)
- Life Member, Orissa Vigyan Academy, Bhubaneswar (LM-184)
- Life member, Indian Society of Water Management, Roorkee
- Life member, Soil Conservation Society of India, New Delhi(LM-2144)
- Life member, Orissa Engineering Congress, Bhubaneswar.
- Life member, CAET Alumni Association, Bhubaneswar.
- Life member, IARI Alumni Association, New Delhi.

Peer recognition

- External Evaluator in many SAUs and ICAR institutes and CAU.
- Consultant and resource person to different Govt. and Non-Government organizations
- Evaluation Expert for watersheds under Watershed Mission, Govt. of Orissa, Bhubaneswar
- Evaluator for rural works, engineering works of CAPART, Regional Centre, Bhubaneswar and CAPART, New Delhi through OUAT Consultancy Cell

Publications

Authored 4 book chapters/ 3 course manuals (without ISBN), 28 research papers in peer reviewed journals and more than 72 popular technical articles.

Selected publications

- Behera, B.P. and Panigrahi, B. 2010. Water management practices for producing more crops with less water with reference to Orissa state, **Indian Journal of Power and River Valley Development**, May-June 2010, p.95-101.
- Behera, B.P and Satapathy, R.N.2011. Application of Wireless Sensor Network to Design & Configuration of Network Health Monitoring System, **International Journal of Sustainable Civil Engineering (IJSCE)**, Serials Publications, Vol.3, No.2.2011, p77-84
- Behera, B.P. and Panigrahi, B.2011. Climate Change & its Impact on Crop Production and Food Security, **Journal of Research**, OUAT, Special Issue, Vol-1(1)-2011, pp.218-230.
- Behera, B.P. and Panigrahi, B.2014. Role of check dams in soil, water conservation & mitigation of climate change, **Open Access e-journal, Earth Science India**, www.earthscienceindia.info, popular issue, VII(IV), October, 2014, p.1-9.
- Behera, B.P., Sahoo, N, Panigrahi, B. and Eknath, G.A.2014. Impact of soil and water conservation measures on productivity and ground water recharge in a micro watershed in coastal zone of Odisha, Short communications, **Journal of Indian Society of Coastal Agricultural Research**, 32(2):87-91 (2014).

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