

Profile of Dr. Bhupendra Singh Naik



Name: Dr. Bhupendra Singh Naik
Designation: Principal Scientist (SWC Engg.), and Ex. Acting Head
Date of Birth: 02/06/1974
Area of Specialization: Soil and Water conservation, Natural Resource Management, Watershed Planning, Development, Management and Evaluation, Watershed Hydrology, Groundwater Recharge and Micro Irrigation.
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Education

Degree	Year of Passing	University/Institution
Ph.D. Agril Engg. (SWC)	2016	OUAT, Bhubaneswar, Odisha
M.Tech. Agril. Engg.(SWC)	1999	OUAT, Bhubaneswar, Odisha
B.Tech.(Agril. Engg.)	1996	OUAT, Bhubaneswar, Odisha

Professional History

Position	Year		Organization
Principal Scientist	31-5-2021 to till date		ICAR-IISWC, RC, Ballari.
Acting Head	23-3-2021	31-3-2023	ICAR-IISWC, RC, Ballari.
Senior Scientist	31.05.2016	30-5-2021	ICAR-IISWC, RC, Ballari.
Scientist (SG)	09.04.2013	30.05.2016	ICAR-IISWC,RC, Ballari. ICAR-IISWC,RC, Koraput (till 30-5-2015).
Scientist (SS)	09.04.2008	08.04.2013	ICAR-IISWC, RC, Koraput
Scientist	09.04.2002	08.04.2008	ICAR-IISWC, RC, Koraput. ICAR-IISWC, Dehradun (till 26-3-2007).

Publications (summary)

S. No	Publication	Number
1	Research Papers	34
	National	27
	International	7
2	Books	6
3	Book chapters	13
4	Training Manual	5
5	Technical bulletin	5
6	Technical report	29

7	Extension material (Folder, leaflet, crop calendar <i>etc</i>)	8
8	Conference Abstracts	48
9	Posters	3
10	Popular articles/E Publications	28
11	Professional Trainings attended	7
12	Consultancy project handled	6
13	No. of training organized	34
14	Seminars/Symposia/Workshops/Summer or Winter School/ Organized	2
15	External project	4

Most important 5 Publications

Naik, B. S., Panda, R. K., Nayak, S.C., Sharma, S.D., 2008. Hydraulics and salinity profile of pitcher irrigation in saline water condition. *Agricultural Water Management*. 95(10), 1129-1134.

Naik, B. S., Panda, R. K., Nayak. S. C., Sharma, S. D and Sahu, A.P. 2013. Impact of pitcher material and salinity of water used on flow rate, wetting front advance, soil moisture and salt distribution in soil in pitcher irrigation- A laboratory study. *Irrigation and Drainage* 62(5): 687–694.

Madhu, M., **Naik, B. S.**, Jakhar, P., HombeGowda, H. C., Adhikary, P. P., Gore, K. P., Barman, D. and Naik, G. B. (2016). Comprehensive impact assessment of resource conservation measures in watershed of eastern region of India. *Journal of Environmental Biology*, 37(3): 391-398.

Jakhar, P., Dass, A., Adhikary, P. P., Sudhishri, S., **Naik, B. S.**, Hombegowda, H. C., Madhu, M., Lenka, N. K., Chaudhary, P. R. and Panda, R.K. (2017). Multitier agroforestry system for integrated resource conservation on uplands of Eastern Ghats region in India. *Agroforestry System*, 91:697–712, DOI: 10.1007/s10457-016-9976-1.

Adhikary, P. P., Barman, D., Madhu, M., Dash, Ch. J., Jakhar, P., Hombe Gowda, H. C., **Naik, B. S.**, Sahoo, D.C. and Beer, K.(2019). Land use and land cover dynamics with special emphasis on shifting cultivation in Eastern Ghats Highlands of India using remote sensing data and GIS. *Environmental Monitoring and Assessment*, 191(5):1-15.

Naik, B. S., Paul, J. C., Panigrahi, B. and Sahoo, B. C. (2015). Soil erosion assessment from farming lands of Eastern Ghat Region of Odisha. *Indian Journal of Soil Conservation*, 43(1): 33-37.

Naik, B.S., Ramesha, M.N.,Prabhavathi, M., Dupdal, R., Ravi, K.N., Kumar, G., Mondal, D., Dogra, P., Kaushal, R and Madhu, M. 2021. Soil erosion status, priority treatment areas and conservation measures for different districts of Karnataka, ISBN-978-81-924624-8-6, 34p.

Google Scholar link

<https://scholar.google.co.in/citations?user=SHAZuFwAAAAJ&hl=en>

ResearchGate link

<https://www.researchgate.net/scientific-contributions/B-S-Naik-2181791833>

Awards/Fellowships/Recognitions

S. No.	Name of the Award/Fellowship /Recognition	Awarding organization	Year of Award
1	Vasantrao Naik Award from ICAR for doing outstanding research and application in dryland farming systems	Indian Council of Agricultural Research, Dehradun.	2013
2	Best Research Paper award	Indian Association of Soil and Water Conservationist, Dehradun(UK).	2015
3	PhD (Agril. Engg.)SWC	OUAT, Bhubaneswar,Odisha	2016
4	Best Poster awards in National Conference(FFCSWR-2017)	Indian Association of Soil and Water Conservationist, Dehradun(UK)	2017
5	Certificate of Recognition for acted as reviewer	Journal of Environmental Biology, Triveni Enterprises, Lucknow (UP)	2018
6	First prize in Hindi competition	ICAR-IISC, RC, Ballari, Karnataka	
7	Three Best poster awards in National Conference(FFCSWR-2019)	Indian Association of Soil and Water Conservationist, Dehradun	2019
8	Accolade for the best service	ICAR-IISWC, RC, Sunabeda, Koraput,Odisha	2019
9	Acted as question setter for M.Tech and PhD examinations for the PG students of OUAT.	CAET, OUAT, Bhubaneswar, Odisha.	2017
10	Acted as External examiner for Thesis evaluation and conducting viva-voce for 3 M.Tech (Agril.Engg.) students of IGKV, Raipur	IGKV, Raipur, Chhatisgarh	2019
11	Acted as question setter for M.Tech and PhD examinations for the students of OUAT.	CAET, OUAT, Bhubaneswar, Odisha.	2019
12	Acted as External examiner for Thesis evaluation of 2 nos of M.Tech. students of IGKV, Raipur (Chhatisgarh).	IGKV, Raipur, Chhatisgarh	2020
13	Acted as question setter for M.Tech and PhD examinations for the students of OUAT.	CAET, OUAT, Bhubaneswar, Odisha.	2021

14	Acted as External examiner for Thesis evaluation of 3 nos of M.Tech. students of IGKV, Raipur (Chhatisgarh).	IGKV, Raipur, Chhatisgarh	2021
15	Acted as External examiner for Thesis evaluation of 2 nos of M.Tech. students of IGKV, Raipur (Chhatisgarh).	IGKV, Raipur, Chhatisgarh	2022
16	Acted as ICAR member for SAC meetings of ICAR-KVKs Raichur, Gangavathi and Ballari	ICAR-KVKs i.e Raichur, Gangavathi and Ballari	2022
17	Acted as external examiner for evaluation of one PhD thesis	IGKV, Raipur, Chhatisgarh	2023

Research Projects as PI (On-going)

1. Evaluation of direct recharge filter for revival of defunct and low yielding bore well vis-à-vis augmentation of ground water recharge in semi-arid region of Karnataka.

PI (2017- till date)

Research Projects as PI (Concluded):

1. To find specifications for cost effective design of spurs with regard to their shape, geometry and apron by carrying out laboratory studies (in Hydraulic flume).
PI (2005– 07).
2. Farmers Participatory Action Research Project (FPARP) on “More crop per drop of water”. **PI** (2007– 11) (**Externally funded project**)
3. Conserving resources and augmenting livelihood of small holders through Multi-tier cropping systems in tribal dominated eastern Ghat of Odisha. **PI** (2007-2008).
4. Bio-engineering measures for resource conservation and management in red sloppy lateritic soils of Odisha. **PI** (2008 – 12).
5. Effect of conservation structures on groundwater recharge. **PI** (2008– 11).
6. Evaluation of hydrological behavior and production potential of recommended land use system/ practices under different agro-ecological regions of India. **PI** (2010-11).
7. Improving livelihood security through sustainable IFS model and allied enterprises in Bastar region of Chattisgarh” under component–III NAIP subproject. **PI** (2010-11) (**Externally funded project**)
8. Field evaluation of trenches under different agro-ecological regions. **PI** (2010-12).

9. LachhaputraGhati Model watershed development Project under NWDPRA Programme under direct funded component of Macro management of agriculture, MoA, GOI, New Delhi. **PI** (2010-12) (**Externally funded project**)
10. Agri-consortia research platform on water (Development and Management of Integrated Water Resources in Different Agro-ecological regions of India). **PI** (2016-21). (**Externally funded project**)
11. Assessment of potential soil erosion of India. **PI** (2019-21).

Research Projects as Co-PI:

1. Hydrological evaluation of recommended forest trees in Himalayan foot hills. **Co-PI** (2004 - 07).
2. Bicropping of *Stylosanthesis hamata* in maize wheat rotation for their Impact on resourceconservation, soil health and productivity. **Co-PI** (2005– 07).
3. Conserving resources and augmenting livelihood of small holders through Multi-tier cropping systems in tribal dominated eastern Ghat of Odisha. **Co-PI** (2008-2010).
4. LachhaputraGhati Model watershed development Project under NWDPRA Programme under direct funded component of Macro management of agriculture, MoA, GOI, New Delhi. **Co-PI** (2008-10) (**Externally funded project**)
5. Improving livelihood security through sustainable IFS model and allied enterprises in Bastar region of Chattisgarh” under component–III NAIP subproject. **Co-PI** (2008-10) (**Externally funded project**)
6. Evaluating the different crop combinations for strip cropping in terms of soil, nutrient losses and their productivity in uplands of Eastern Ghat (Newly approved project). **Co-PI** (2009-11).
7. Multiple decision criteria for identifying suitable Integrated Farming Systems in different agro-ecological regions for optimizing resource conservation and productivity. **Co-PI** (2009-11).
8. Erosion- productivity relationships for evaluating vulnerability and resiliency of soils under different agro-climatic regions of India. **Co-PI** (2009-11)
9. Performance of tamarind near S&WC structures with different mulches in Vertisols of SAT region. **Co-PI** (2015-16).
10. Refining methodologies for data validation, planning, monitoring and evaluation of watersheds. **Co-PI** (2016-2021)

11. Assessing farmer's knowledge, vulnerability and adoption capacity of soil and water conservation technologies under changing climate scenario. **Co-PI** (2017-2020)
12. Valuation of eco system services from natural resource conservation and management interventions in different agro-ecological regions in India. **Co-PI** (2018-2021)
13. Economic impact assessment of water harvesting structures –Farm pond in the semi-arid regions of Karnataka. **Co-PI** (2018- till date)
14. Erosion productivity relationships for evaluating vulnerability and resiliency of soils under different agro-climatic regions of India. **Co-PI** (2021- till date).
15. Impact assessment of database driven site-specific watershed management: A multi stakeholder analysis. **Co-PI** (2021- till date).
16. Carbon sequestration potential of prevailing and recommended land uses in reclaimed degraded ecosystems in different agro-ecological regions of India. **Co-PI** (2021- till date).
17. Regulated deficit irrigation and canopy architecture management for fig (*Ficus carica* L.) in semi-arid vertisols. **Co-PI** (2021- till date).
18. Effect of Natural Farming Practices on Resource Conservation and Productivity in different Agro Ecological Regions of India. **Co-PI** (2022- till date).
19. Assessment of variability and trend of climatic parameters at various time scales in different regions of India. **Co-PI** (2022- till date).

Other important responsibility

a) Acting Head : 23-3-2021 to 31-3-2023

Looking after Centre's administration, scientific research activities, facilitating Scientists, Technical and other administrative staffs for smooth running of office and completion of assigned duties, keeping liaison and coordination with the local line departments' officials and stake holders for the overall development of Centre.

b) OIC (B&M): 2015- till date.

Looking after regular civil and electrical maintenance and repair works of office buildings, guest house, residential quarters and Research farm of Centre).

c) OIC (Training): 2017- till date

To conduct regular summer training on soil and water conservation/watershed management for B.Tech.(Agril. Engg.) students, organization of agricultural educational programmes, study tour /field visits and etc. for farmers, students, line departments officials. Evaluation of trainings, and making necessary correspondences regarding various training programmes.

d) CPIO: 2018- till date

Providing information under RTI, doing relevant works and time to time correspondences on RTI.

e) OIC (Hindi): 2019- 2023(August)

English translation of official letters written in Hindi and conducting programmes related to Hindi.

f) Welfare Officer: 2019- till date

To look after the proposals of compassionate appoints of Centre, appointment of AMAs and other staff welfare activities.

g) OIC(Vehicle): 2020- 2023(March)

Allotment of vehicles for office works, and regular maintenance of vehicles.

Consultancies:

1. Impact assessment/evaluation study of watershed projects in 6 distressed districts of Karnataka (Consultancy project externally funded by NABARD)
Co-PI (2015-16). Budget: Rs. 23.81 lakhs
2. Refining methodologies for data validation, planning, monitoring and evaluation of watersheds. (Consultancy project externally funded by World Bank through KWDD under Sujala-III)
Co-PI (2016-2021), Budget: Rs 134 lakhs
3. Soil and Water Conservation Treatment Plan for Mincheri Reserve Forest. Cost Rs. 102038/-
4. Soil and Water Conservation Treatment Plan for Mincheri Reserve Forest. Cost Rs. 102038/-
5. Soil and Water Conservation Treatment Plan for Ramanam alai Reserve Forest. Cost Rs. 102038/-
6. Preparation of Watershed Development Plan for Micro Watersheds Within 10 KM radius from Chitravathi Pumped Storage Hydroelectric Project at Andhra Pradesh, Cost Rs.2645653/-
7. Preparation of Watershed Development Plan for Micro Watersheds Within 10 KM radius from Gandikota Pumped Storage Hydroelectric Project at Andhra Pradesh, Cost Rs.2626829/-