

Academic Profile

1. Name : Surendra Singh Bargali
 2. Designation : Professor
 3. Email : surendrakiran@rediffmail.com
 4. Qualification : M.Sc., Ph.D.
 5. Area of Specialization/ Research field: Ecology, Agroforestry
 Ecorestoration and
 Biodiversity Conservation



6. Awards/ Recognition:

- Research Associateship C.S.I.R. New Delhi 1992.
- Best research paper award IGKV & CG Govt., Raipur (CG) 2008.
- Letter of Appreciation for overall performance in the Academics, Dean Faculty / College of Agriculture, IGKV, Raipur (CG)-2009.
- Letter of Appreciation for overall performance in the Academics. Dean Faculty / College of Agriculture, IGKV, Raipur (CG)- 2010.
- FELLOW, National Institute of Ecology, (FNIE), New Delhi 2010.
- Honoured by **Collector**, Janjgir-Champa, (CG) for the work done for the welfare of farmers – 2010.
- Letter of Appreciation for overall performance in the Academics. Dean Faculty / College of Agriculture, IGKV, Raipur (CG) 2011.

7. Number of Research Projects :

i) Completed

S.N.	Title of the project	Funding Agency	Amount (Rs.)	Year (From-to)
1	Effect of traditional agroforestry systems on different crops in Chhattisgarh plains.	ICAR, New Delhi	7 lacs	2001- 2006
2	Domestication and commercialization of high quality plant material of <i>Jatropha curcus</i> .	DBT, New Delhi	27 lacs	2005-2008
	Impact of Land Use on Vegetation and Soil Carbon, Net Primary Productivity and Nitrogen Budget in Tropical Dry Deciduous Forest of Barnawapara Wildlife Sanctuary.	MOEn & F, New Delhi	37 lacs	2006- 2009
3	Development of National Forest fire danger rating and ecological damage assessment using multi-sensor satellite data and ground based data	NRSA, Hyderabad	6 lacs	2009- 2012
4	Assessment of structure and diversity of herbaceous flora in mining area of Rawghat, Chhattisgarh.	BSP, Bilai	4 lacs	2009-2011

ii) On- going

S.N.	Title of the project	Funding Agency	Amount (Rs.)	Year (From-to)
1.	Carbon sequestration potential of agroforestry systems in Kumaun Himalaya: implication for climate change mitigation	UGC, New Delhi	1.9 lacs	2012-2014

8. Number of Ph. Ds awarded- 01

9. Number of candidates working for Ph. D. award- 05

10. Publications:

i) Books-

ii) Research Articles published

Research Publication:

• Technical Reports	12
• Technical Bulletins	04
• Abstracts	45
• Popular Article and Extension Literature	18
• Research Papers	75
• Foreign Journals	22
• Indian Journals	52

List of Publication

RESEARCH PAPERS IN FOREGIEIN JOURNALS

1. **Bargali S S** and S P Singh 1991. Aspect of productivity and nutrient cycling in an 8-year old *Eucalyptus* plantation in a moist plain area adjacent to Central Himalaya, India. *Canadian Journal of Forest Research* 21: 1365-1372. Canada.
2. **Bargali S S**, S P Singh and R P Singh 1992. Structure and function of an age series of eucalypt plantations in Central Himalaya, I. Dry matter dynamics. *Annals of Botany* 69: 405-411. U.K.
3. **Bargali S S**, R P Singh and S P Singh 1992. Structure and function of an age series of eucalypt plantations in Central Himalaya, II. Nutrient dynamics. *Annals of Botany* 69: 413-421. U.K.
4. **Bargali S S**, Mukesh Joshi and Kiran Bargali 1992. Seasonal pattern of total soil respiration in age series of eucalypt plantation and mixed broad-leaved forest in tarai belt of Kumaun Himalaya. *Oecologia Montana* 2: 7-11. Slovakia.
5. **Bargali S S**, R P Singh and Mukesh Joshi 1993. Changes in soil characteristics in eucalypt plantations replacing natural broad leaved forests. *Journal of Vegetation Science* 4: 25-28. Sweden.

6. **Bargali S S**, S P Singh and R P Singh 1993. Pattern of weight loss and nutrient release in decomposing leaf litter in an age series of eucalypt plantations. *Soil Biology and Biochemistry* 25: 1731-1738. Great Britain.
7. **Bargali S S** 1995. Efficient use of N P and K in age series of *Eucalyptus tereticornis* plantations in the tarai belt of Central Himalaya. *Journal of Tropical Forest Science* 7(3): 383-390. Malaysia.
8. **Bargali S S** 1995. Litter fall, nutrient return and leaf decomposition in an age series of eucalypts in Central Himalaya. *Oecologia Montana* 4: 31-38. Slovakia.
9. **Bargali S S** and S P Singh 1995. Dry matter dynamics, storage and flux of nutrients in an aged eucalypt plantation in Central Himalaya. *Oecologia Montana* 4: 9 - 14. Slovakia.
10. **Bargali S S** 1996. Weight loss and nitrogen release in decomposing wood litter in an age series of eucalypt plantation. *Soil Biology and Biochemistry* 28: 699-702. Great Britain.
11. Joshi Mukesh, Kiran Bargali and **S S Bargali** 1997. Changes in physico- chemical properties and metabolic activity of soil in poplar plantations replacing natural broad leaved forests. *Journal of Arid Environment* 35: 161-169. Great Britain.
12. **Bargali S S** and R P Singh 1997. *Pinus patula* plantations in Kumaun Himalaya. I. Dry matter dynamics. *Journal of Tropical Forest Science* 9(4): 526-535. Malaysia.
13. **Bargali S S** and R P Singh 1997. *Pinus patula* plantations in Kumaun Himalaya II. Nutrient dynamics. *Journal of Tropical Forest Science* 10(1): 101-104. Malaysia.
14. Usman S, S P Singh, Y S Rawat and **S S Bargali** 2000. Fine root decomposition and nitrogen mineralization patterns in *Quercus leucotrichophora* and *Pinus roxburghii* forests in Central Himalaya. *Forest Ecology and Management* 131: 191-199 Netherland.
15. Bargali Kiran and **S S Bargali** 2000. Nutrient utilization efficiencies of two Central Himalayan tree species. *Journal of Tropical Forest Science* 12(3): 450-458 Malaysia
16. Bargali Kiran and **S S Bargali** 2005. Growth of *Acer oblongum* Wall. Seedlings in relation to resource availability. *Nepal Journal of Forestry* 15(3): 25-31 Nepal.
17. **Bargali S S**, S P Singh, S K Shrivastava and S S Kolhe 2007. Forestry plantations on rice bunds: Farmers' perceptions and technology adoption. *International Rice Research Notes*. 32(2): 40-41. Philippines.
18. Bargali Kiran and **S S Bargali** 2009. *Acacia nilotica*: a multipurpose leguminous plant. *Nature and Science*. 7(4):11-19. USA.
19. **Bargali S S**, K Pandey, Lalji Singh and S K Shrivastava 2009. Participation of rural women in rice based agroecosystem. *International Rice Research Notes* 33 (1): 1-2 Philippines.
20. Bargali Kiran and **S S Bargali** 2009. Effect of phosphorus nutrition on growth and mycorrhizal dependency of *Coriaria nepalensis* seedlings. *Nature and Science*. 7(6): 19-24 USA.
21. K Pandey **S S Bargali** and S S Kolhe 2011. Adoption of technology by rural women in rice based agroecosystem. *International Rice Research Notes* Vol 36: 1-4 Philippines.
22. Bargali Kiran, **S S Bargali** and Y S Rawat 2012. Carbon stock and shade tolerance in seedlings of some early and late successional tree species of Central Himalaya. *Journal of Environmental Engineering*. USA.
23. Kittur B, S L Swamy, **S S Bargali** and M K Jhariya 2012. Effect of fire intensity on Tropical Moist Deciduous forest of Achanakmar–Amarkantak Biosphere Reserve of Chhattisgarh. *Journal of Forestry Research* (Submitted).

RESEARCH PAPERS IN INDIAN JOURNALS

24. **Bargali S S**, J C Tewari, Y S Rawat and S P Singh 1987. Woody vegetation in high elevation blue-pine mixed oak forest of Kumaun Himalaya, India. In Y P S Pangty and S C Joshi (eds.) *Western Himalaya: Environment, Problems and Development*. Gyanodaya Prakashan, Nainital pp 121-155.
25. **Bargali S S**, B S Rana, H C Rikhari and R P Singh 1989. Population structure of Central Himalayan blue pine (*Pinus wallichiana*) forest. *Environment and Ecology* 7: 431-436.
26. Rikhari H C and **S S Bargali** 1989. Shrub layer composition in different forest ecosystems of Kumaun Himalaya. *Vegetos* 2(2): 195-200.
27. Chandra R, V P Upadhyay and **S S Bargali** 1989. Analysis of herbaceous vegetation under oak and pine forests of Central Himalaya. *Environment & Ecology* 7: 521-525.
28. Tripathi B C, H C Rikhari, **S S Bargali** and Y S Rawat 1991. Species composition and regeneration in disturbed forest sites in the oak zone in and around Nainital. *Proceedings of Indian National Science Academy* B57: 381-390.
29. Joshi Mukesh and **S S Bargali** 1992. Floristic composition and life forms of relatively undisturbed and disturbed *Quercus floribunda* Lindl. forests in Central Himalaya. *Journal of Ecobiology* 4(3): 183-186.
30. Joshi M and **S S Bargali** 1992. Certain microclimatic features under oak, conifer and mixed oak conifer canopies in parts of Kumaun Himalaya. *Environment and Ecology* 10(4): 874-877.
31. Joshi Mukesh and **S S Bargali** 1992. Root respiration: Effect of biomass and moisture. *Environment and Ecology* 10(4): 930-933.
32. Pathak M C, **S S Bargali** and Y S Rawat 1993. Analysis of woody vegetation in a high elevation oak forest of Central Himalaya. *The Indian Forester* 119(9): 722-731.
33. **Bargali S S** 1994. Forest floor development in *Eucalyptus tereticornis* Sm. plantations in a part of Central Himalayan tarai belt. *Rangeland Management and Agroforestry* 15 (1): 61-68.
34. **Bargali S S**, M Joshi, K Bargali and S Chandra 1994. Folk art and human adjustment with plant life in Central Himalaya. In B R Pant and M C Pant (eds.) *Glimpses of Central Himalaya: A Socio economic and ecological perspectives*. Radha Publications New Delhi pp 398-421.
35. Zobel D B, Jeet Ram and **S S Bargali** 1995. Structural and physiological changes in *Quercus leucotrichophora* and *Pinus roxburghii* associated with stand disturbance in the Kumaun Himalaya, India. *International Journal of Ecology and Environmental Sciences* 21: 45-66.
36. Bargali K, **S S Bargali** and R P Singh 1998. Ecological relationship of *Bidens biternata* and *Galingsonga ciliata* in open and closed habitats. *Indian Journal of Ecology* 25 (2): 107-113.
37. Bargali Kiran and **S S Bargali** 1999. Comparative growth response of two contrasting species of Central Himalaya in relation to light and nutrient availability. *Journal of Environmental Biology* 20 (2): 183-187.
38. **Bargali S S** and Kiran Bargali 1999. Variation in the major element content in *Eucalyptus tereticornis* foliage with season, crown position and plantation age. *Indian Journal of Ecology* 26 (2): 106-112.
39. **Bargali S S** and Kiran Bargali 2000. Diversity and biomass of the under story vegetation in an age series of *Eucalyptus tereticornis* plantation. *International Journal of Ecology and Environmental Sciences* 26: 173-181.
40. **Bargali S S** 2000. Comparative study of nutrient accumulation ratios of leaf to wood in *Eucalyptus* and other forests and plantations of adjacent areas. In M K Rai (ed) *Proceeding of the Integrated management of Plant resources*. Scientific Publishers, Jodhpur pp 407-410.

41. **Bargali S S** and S K Shrivastava 2002. Exploration of valuable medicinal vegetal wealth from tribal belt of Bastar district in Chhattisgarh. *The Botanica* 52: 75-82.
42. **Bargali S S**, S K Shrivastava, V K Dixit and Kiran Bargali 2003. Some less known ethno botanical plants of Jagdalpur district of Chhattisgarh state. *The Botanica* 53:192-197.
43. **Bargali S S**, S P Singh and K S Pandya 2004. Effects of *Acacia nilotica* on gram crop in a traditional agroforestry system of Chhattisgarh plains. *International Journal of Ecology and Environmental Sciences* 30(4):363-368.
44. Bargali K, **S S Bargali** and S P Singh 2005. Growth and competition between *Pinus roxburghii* and *Quercus leucotrichophora* seedlings as affected by nutrient and moisture availability. *Bulletin of National Institute Ecology* 15:180-190.
45. Pandey K, N Pathak, S K Shrivastava **S S Bargali** and A Verma 2005. Experiment on safe seed storage of paddy on the farmwomen's field. *Bhartiya Krishi Anusandhan Patrika* 20: (2&3) 58-62.
46. Shrivastava S K and **S S Bargali** 2005. *Pongamia glabra* Vent. A multipurpose tree of tropical forest. *The Botanica* 55: 117-132.
47. Pandey C B, D K Sharma and **S S Bargali** 2006. Decomposition and nitrogen release from *Leucaena leucociphala* in Central India. *Tropical Ecology* 47(1):149-151.
48. Singh S P, S K Shrivastava, J R Patel and **S S Bargali** 2006. Impact of Front Line Demonstrations on rice for technological dissemination in district Durg. *Environment and Ecology* 24 S (2): 482-483.
49. Singh Lalji, **S S Bargali** and S L Swamy 2006. Production practices and post-harvest management in *Jatropha*. Proceeding of papers presented on the *Biodiesel Conference Towards Energy Independence-Focus on Jatropha* (Eds.) B Singh *et.al* at Rastrapati Nilayam, Bolaram, Hyderabad on 9-10 June 2006 p.252-267.
50. Pandey K, N Pathak, **S S Bargali** and S K Shrivastava 2006. Experiment on preservation of vegetables on farmwomen's field and its assessment. *Bhartiya Krishi Anusandhan Patrika* 21(2): 178-183.
51. Singh Lalji, **S S Bargali**, S Puri and L Ghosh 2006. For sustainable development ...Cultivating *Jatropha*: a promising green fuel- and raw material- yielding plant. *Indian Horticulture*.51 (5): 13-15.
52. Pandey K, **S S Bargali** and S K Shrivastava 2006. Comparative study on low cost traditional methods and advance technology for safe storage of gram seeds. *Environment and Ecology*.24S (4): 1202-1203.
53. **Bargali S S** 2006. Variation in composition, biomass, net primary productivity and nutrient status of shrub layer in an age series of *Eucalyptus tereticornis* plantation. *Bulletin of National Institute Ecology* 17: 9-16.
54. Singh Lalji, S Puri and **S S Bargali** 2006. Biodiversity and importance of some lesser- known woody species of Moist Deciduous Forest of Achanakmar-Amarkantak Biosphere Reserve. *The Botanica*. 56: 97-103.
55. **Bargali S S**, C B Pandey and D K Sharma 2006. Weight loss and nitrogen release pattern in leaf and wood litter of *Gliricidia sepium* (Jacq.)Walp. *Bulletin of National Institute Ecology* 17: 25-29.

56. Pandey K, A Verma and **S S Bargali** 2007. Assessment of training adoption and preserved materials of tomato for the economic uplift of rural women. *Bhartiya Krishi Anusandhan Patrika* 22(1): 76-80.
57. Singh S P, **S S Bargali**, J R Patel and R N Singh 2007. Technique of rice (*Oriza sativa*) seed selection in salt solution- an evaluation under real farm situation. *Environment and Ecology* 255(2): 461-463.
58. Singh S P, S K Shrivastava, S S Kolhe, J R Patel and **S S Bargali** 2007. Prospects of biofertilizers and organic manure utilization: a case study from Durg district. *Agricultural Science Digest*. 27(3): 157-161.
59. Singh Lalji, Anshu Singh, **S S Bargali** and V P Upadhyay 2007. Leaf litter decomposition and nutrient release pattern in multipurpose tree species of central India. *Journal of Basic and Applied Biology*. 1(4): 14-21.
60. Singh S P, J R Patel, S K Shrivastava, and **S S Bargali** 2008. Rice production constraints in district Durg of Chhattisgarh plains. *Journal of Maharashtra Agricultural Universities*. 33(1): 111-113
61. Singh Lalji, L Ghosh, **S S Bargali** and R R Saxena 2008. Response of paddy planted under *Butea monosperma* trees in Chhattisgarh. *International Journal of Ecology and Environmental Sciences*. 34(1): 63-66.
62. Singh Lalji, L Ghosh, **S S Bargali** and R R Saxena 2008. Influence of naturally occurring trees on field bunds and their impact on yield parameters of paddy crop. *Range Management & Agroforestry*. 29(2): 134-137.
63. **Bargali S S**, Kiran Bargali, Lalji Singh, L Ghosh and M L Lakhera 2009. *Acacia nilotica* based traditional agroforestry system: effect on paddy crop and management. *Current Science* 96 (4): 581-587.
64. Rathiya P S, R Lakpale, G K Shrivastava and **S S Bargali** 2010. Effect of nutrient blending with FYM on biomass production and economics under hybrid cotton-soybean intercropping system. *Journal of Plant Development Sciences*. 2(1&2): 9-18.
65. Swamy S L, C B S, Dutt, M S R Murthy, Alka Mishra and **S S Bargali** 2010. Floristics and Dry matter dynamics of Tropical Wet Evergreen Forests of Western Ghats, India. *Current Science* 99 (3): 353-364.
66. Alka Mishra, S L Swamy, **S S Bargali** and A K Singh 2010. Tree growth, biomass and productivity of wheat under five promising clones of *Populus deltoids*. *International Journal of Ecology and Environmental Sciences* 36(2-3):167-174.
67. Arora V P S, **S S Bargali** and J S Rawat 2011. Climate change: challenges, impacts, and role of biotechnology in mitigation and adaptation (Theme Paper) Souvenir published during ICLDBT-2011 by Hi- Tech Horticultural Society, Meerut. 8-15.
68. Singh J, Rekha Singh, **S S Bargali** and Sarita Sahu 2011. Cultivating *Colocasia* for food security. *OAKS*. 7: 37-40.
69. Lodhiyal Neelu, L S Lodhiyal and **S S Bargali** 2011. Significance of forest ecosystem services in conservation and sustainable development. *OAKS*. 7: 41- 45.
70. **Bargali S S** and Kiran Bargali 2012. Climate change and its effect on biodiversity. Annual report of UCCC (2011-12) 30-34.

71. Bargali Kiran and **S S Bargali** 2012. Mycorrhizal inoculation effect on growth responses and dry mass production of *Mimosa himalayana* Gamble seedlings. *Journal of Plant Development Sciences*, 4(1): 69-72
72. Jhariya M K, **S S Bargali**, S L Swamy and B Kittur 2012. Vegetational structure, diversity and fuel load in fire affected areas of Tropical Dry Deciduous forests in Chhattisgarh. *Vegetos* 25(1): 210-224.
73. **Bargali S S**, Swati Yadav and Kirtika Padalia 2012. Forest Fire – a threat or a problem for Biodiversity conservation. *Oaks* 8: 75-86.
74. **Bargali S S**, Kiran Shukla, Lalji Singh and Lekha Ghosh 2012. Leaf litter decomposition and nutrient dynamics in four tree species of Dry Deciduous Forest. *Tropical Ecology* (Accepted).
75. **Bargali S S**, V P Pandey and Kiran Bargali 2012. Floristic composition and diversity pattern along with disturbance gradient in Dry Deciduous Forests. *Vegetos* (Submitted).

10. Conference/ Seminars organized: -

S.N.	Status as organizer	Title of Conference/ Seminars	Year and Dates

11. Academic/ Administrative positions held

S.N.	Chairman/Member/Secretary	Committee/Board	Year (from-to)
1	Member-Scientist	Chhattisgarh Biofel Board, Govt. of Chhattisgarh	July 2007-March 2011
2	In - Charge Academic/ Student Section/OSD to Dean	College of Agriculture, IGKV, Raipur (CG)	March 2008 to March 8, 2011
3	Member/ Member secretary UG/ PG Counseling (Ag. stream)	Indira Gandhi Agricultural University, Raipur	2008-2010
4	Member Secretary, for modifying the 'Norms & Guidelines' for Affiliation and Recognition of Private affiliated colleges- 2001	Indira Gandhi Agricultural University, Raipur	2008-2009
5	Member Secretary for modifying the “Academic Regulations for UG, Master and Ph.D. degree programmes” as per recommendation of 4th Dean's committee/ICAR-2009	Indira Gandhi Krishi Vishwavidyalaya, Raipur	2008-2010
6	Chairman/Member/Secretary of different committees at University level	Indira Gandhi Agricultural University, Raipur	1994-2011
7	Member, Evaluation of Exams	K. U., Nainital	2011
8	SS Main Exams	DSB Campus, K. U., Nainital	2012, 2013

9	Assistant DSW	DSB Campus, K. U., Nainital	from 2012
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12. Membership to professional Organizations/Associations

S.N.	Organizations/Associations	Status of membership
1	National Institute of Ecology	Life member
2	Delhi University Botanical Society	Life Member
3	The American Biographical Institute	Member Research Board of Advisors
4	Bhartiya Krishi Anusandhan Samiti	Life member
5	Bhartiya Krishi Anusandhan Patrika (2005-2007)	Member, Editorial Board
6	The Indian Science Congress Association	Life member
7	Journal of Agricultural Extension and Rural Development	Member, Editorial team
8	OAKS, Department of Botany, Kumaun University, Nainital	Life Member and Editor
9	Society for Plant Research	Life Member

13. Any other information:

A) Short term courses:

- *Management of Wasteland*-Tamil Nadu Agricultural University, Coimbatore (TN) November 1996.
- *Recent Advances in Forest Seed Technology* -G. B. Pant University of Agriculture & Technology (Uttaranchal) November - December 2001.
- *Recent Trends in Plant Sciences*- Kumaun University, Nainital (Uttaranchal) June 2002.
- *Application of Computer in Veterinary and Allied Sciences* - Indira Gandhi Agricultural University, Raipur, Chhattishgarh, May 2001.

B) Employment Held:

- **Professor/ Principal Scientist**, Department of Forestry, Indira Gandhi Agricultural University, Raipur, Chhattishgarh 2009-2011
- **Senior Scientist/Associate Professor** (Forestry), Indira Gandhi Agricultural University, Raipur, Chhattishgarh 2003-2009
- **Scientist** (Forestry), Indira Gandhi Agricultural University, Raipur, Chhattishgarh 1994-2003
- **Research Associate** (CSIR), New Delhi, in the Department of Forestry, Kumaun University, Nainital 1992-1994
- **Senior Research Fellow** in the DNES sponsored project, Department of Forestry, Kumaun University, Nainital 1989-1991

- **Junior Research Fellow** in the DNES sponsored project, Department of Forestry, Kumaun University, Nainital 1987-1989