

PROFILE OF DR. NARAYAN G. HEGDE



Present Occupation: Trustee and Principal Adviser
BAIF Development Research Foundation

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Date of Birth: June 17, 1947

Specialisation

- ? Natural Resource Management: Social Forestry, Horticulture, Agri-Horti-Forestry, Organic Farming, Water Conservation
- ? Sustainable Livelihood and Community Development: Programme Planning, Monitoring and Evaluation
- ? Environmental Education and Conservation: Industrial Greenbelt Development, Wastelands Development, Waste Management, Environmental Awareness, Global Warming
- ? Organisational Development: Strategic Planning, Visioning

Current Positions

1. Member – Scientific Advisory Committee to the Cabinet (SAC-C), Government of India: since February 2008.
2. Member – Scientific Advisory Board, The International Centre for Underutilised Crops (ICUC), Colombo, Sri Lanka: since April 2006.
3. Member – Advisory Committee on Matters related to the Development of Animal Husbandry and Dairy in the States / UTs, Planning Commission (Agriculture

- Division), Government of India: since February 2009.
4. Member – Senate, Shivaji University, Kolhapur: since May 2006.
 5. Guide for Ph.D. and M.Phil. in Environmental Studies, University of Poona: since April 2002.
 6. Member – Task Force on Irrigation, Water Resources Division, Planning Commission: since February 2008.
 7. Member – National Afforestation and Eco-development Board, Ministry of Environment and Forests, Government of India: since February 2008.
 8. Member - Executive Council and General Council of National Institute of Rural Development, Hyderabad, Ministry of Rural Areas and Employment, Government of India: 1998-2000; since September 2004.
 9. Member - Board of Governors, Indian Plywood Industries Research Institute, Bangalore: 1992-97: 2004-07: since 2008.
 10. Member – Executive Committee and General Body, Council for Advancement of People’s Action and Rural Technology: 1995-96; since September 2004.
 11. Member – Sub Committee, Village Knowledge Centre, Council for Advancement of People’s Action and Rural Technology: since July 2008.
 12. Member – Advisory Committee on Agriculture and Rural Lending, Bank of Baroda, Mumbai: since September 2006.
 13. Member – Expert Committee, Department of Science and Technology, Ministry of Science and Technology, Government of India: since October 2005.
 14. Member – Expert Committee for S & T for Women, Department of Science and Technology, Ministry of Science and Technology, Government of India: since December 2007.
 15. Member – Central Advisory Committee for Gosamwardhana, Department of Animal Husbandry, Dairying and Fisheries, Ministry of Agriculture, Government of India: since September 2006.
 16. Member – Advisory Council – CII-ITC Centre of Excellence for Sustainable Development: since November 2005.
 17. Director – Board of Children’s Future, India, Pune: since June 2007.
 18. Member - Steering Committee of the 5th Centre for Media Studies (CMS)

- VATAVARAN 2009 – Environment and Wildlife Film Festival and CMS Environment Forum: since May 2009.
19. Member – Mission on Livelihoods, Administrative Reforms Department, Government of Rajasthan: since September 2004.
 20. Member – Committee on Corporate Social Responsibility, Federation of Indian Chamber of Commerce and Industries (FICCI): since July 2007
 21. Member - Advisory Board on Social Development of JSW Foundation, Mumbai since February 2008.
 22. Member – Management Board, South Asia Pro-Poor Livestock Policy Programme, New Delhi: since May 2007.
 23. Member – Fodder Innovation Policy Working Group, Centre for Research on Innovation and Science Policy, Hyderabad: since September 2008.
 24. Trustee - National Agro Foundation, Chennai, founded under the Chairmanship of Bharat Ratna Late Shri. C. Subramaniam: since April 2000.
 25. Managing Trustee - Nisargopchar Gram Sudhar Trust, Urulikanchan, Pune: since November 1993.
 26. Chairman – BYST Strategic Committee, Pune Region, Bharatiya Yuva Shakti Trust, New Delhi: since October 2006.
 27. Advisor – Centre for Youth Development and Activities (CYDA), Pune: since January 2008.
 28. Member – Regional Consultative Committee on Agriculture and Rural Development, National Bank for Agriculture and Rural Development (NABARD), Pune: since February 2004.
 29. Member – Research Advisory Group, Tropical Forest Research Institute, Jabalpur: since July 2000.
 30. Member - Advisory Management Committee, National Afforestation and Eco Development Board, Regional Centre, Agriculture Finance Corporation, Mumbai: since May 1996.
 31. Member – Yashwantrao Chavan Academy of Development Administration, Pune: since March 2008.

Earlier Positions

1. Member - Search Committee for finalising a Panel for the position of Member, Agricultural Scientists' Recruitment Board (ASRB), Ministry of Agriculture, Department of Agricultural Research and Education, Government of India: 2007.
2. Member – Working Group on Animal Husbandry and Dairying for Eleventh Five Year Plan (2007-2012), Planning Commission (Agriculture Division), Government of India: 2006-2007.
3. Chairperson – Public -Private Participation and NGOs for Eleventh Five Year Plan, Planning Commission, Government of India: 2006-2007.
4. Member - Working Group on Forests for the Environment and Forests Sector for Eleventh Five Year Plan (2007-2012), Planning Commission, Government of India: 2006-2007.
5. Member – Committee for Formulation of 11th Five Year Plan on Biotech based Programmes for Societal Development, Department of Biotechnology, Government of India: 2006-2007.
6. Member – Task Force on Biotech-based Programmes for SC/ST and Rural Population, Department of Biotechnology, Government of India: 2006.
7. Member – Core Advisory Group, Rural Technologies – Development and Dissemination for India's Growth, Office of the Principal Scientific Adviser to the Government of India: 2003-2007.
8. Member – Working Group of the Sub-Committee of the National Development Council on Agriculture and related issues in Animal Husbandry, Dairying and Fisheries, Planning Commission, Government of India; 2005-2006.
9. Member – Research Advisory Committee of Indian Grassland and Fodder Research Institute, Jhansi: 2001-2005.
10. Member – Consultative Group on Poverty Elimination and Rural Employment, Planning Commission, Government of India: 2004.
11. Member – Expert Committee on “Reforming CAPART / NGO-GO Interface” – Action Points emerging from MTA of Tenth Plan, Planning Commission, Government of India: 2005.
12. Member – Task Group on Revamping and Refocusing of National Agricultural Research, Planning Commission, Government of India: 2004.
13. Member Secretary, National Consultative Committee for preparation of a country report on State of World's Animal Genetic Resources (SoWAnGR), Ministry of Agriculture, Department of Animal Husbandry and Dairying, Government of India: 2004.
14. Member – Sustainable Livelihoods Working Group Forum, CEESP - Commission on Environmental, Economic and Social Policy World Conservation Union - IUCN, Tehran, Iran: 2003-2006.
15. Member - Programmes Committee, Indian Association of Social Science Institutions, New Delhi: 2002-2005.
16. Member - Steering Committee for National Project for Cattle and Buffalo Breeding,

- Ministry of Agriculture, Department of Animal Husbandry and Dairying, Government of India: 2002-2003.
17. Member - National Committee on Agriculture, Confederation of Indian Industry, New Delhi: 1999-2004.
 18. Chairman - Western Region, National Institute of Ecology, New Delhi: 1996-2004.
 19. Member - Committee on Distributive Generation Reforms, Ministry of Power, Government of India: 2002-2003.
 20. Member – Academic Council, FRI. Deemed University, Indian Council of Forestry Research and Education (ICFRE), Dehra Dun: 2000-2003.
 21. Member - General Body, Indian Council of Forestry Research and Education Society, Dehra Dun: 1996-2000.
 22. Member – Planning and Monitoring Board of Tilak Maharashtra Vidyapeeth, Pune: 1999-2003.
 23. Member - Multidisciplinary Monitoring Committee, Shree Maheshwar Hydel Power Corporation Ltd., Indore: 1998-2001.
 24. Member - Working Group on Self-Employment Programmes (IRDP and Rural Credit), Planning Commission, Government of India: 1996-97.
 25. Member - Core Group on Open Education, Planning Commission, Government of India: 1991-1992.
 26. Member - Board of University and College Development, University of Pune: 1996-2001.
 27. Member – Expert Committee on Community Resources Management and Survival and Security, Indira Gandhi National Open University, New Delhi: 2000-2001.
 28. Member - Advisory Committee of Centre for Management in Agriculture, Indian Institute of Management, Ahmedabad: 1999-2002.
 29. Visiting Faculty - College of Agribusiness Management, Govind Ballabh Pant University of Agriculture and Technology, Pantnagar, Uttar Pradesh: 1999-2002.
 30. Member - Executive Committee, Indian Association of Social Science Institutions, New Delhi: 1998-2001.
 31. Director - Board of Directors of Ushdev International Ltd., Mumbai: 1998-2002.
 32. Member - Technical Advisory Committee, National Institute of Hydrology (Government of India Society under Ministry of Water Resources): 1996-2001.
 33. Member – Steering Committee of India Rural Development Report, 2002, National Institute of Rural Development, Hyderabad: 2002-2003.
 34. Member – Working Group on Horticulture Development including Spices, Aromatic and Medicinal Plants and Plantation Crops for formulation of the Tenth Five Year Plan, Planning Commission, Government of India, New Delhi: 2001-2002.
 35. Member – Sub Group on Agricultural Research and Education of the Working Group on Agricultural Research for the Tenth Five Year Plan, Planning Commission,

- Government of India, New Delhi: 2001-2002.
36. Member – Sub-Group on Institutional Restructuring and Linkages of the Working Group on Animal Husbandry and Dairying for the Tenth Five Year Plan, Planning Commission, Government of India: 2001-2002.
 37. Member - Executive Committee, Pune Management Association: 1999-2001.
 38. Member - Executive Committee of Yeshwantrao Chavan Academy of Development Administration (YASHADA), Pune : 1998-2001.
 39. Member - National Wastelands Development Board, Ministry of Rural Areas and Employment, Government of India: 1998-1999.
 40. Member - Resettlement and Rehabilitation Sub Group of the Narmada Control Authority, Government of India: 1995-1997.
 41. Member – Research Grant Board, Indian Council of Forestry Research and Education, Dehra Dun: 2000-2003.
 42. Director - Board of Directors of Brescon Corporate Advisors Ltd., Mumbai: 1998-2002.
 43. Member - National Standing Committee on Rural Technology (NSCRT), Council for Advancement of People's Action and Rural Technology (CAPART), New Delhi: 1996-1998.
 44. Member - Advisory Committee, New Forest Project, Centre for Development Policy, Washington, DC, U.S.A.:1983-1999.
 45. Member - LEUCNET Steering Committee, Canberra, Australia: 1995-1999.
 46. Member - State Level Implementation Committee of the National Voters Awareness Campaign, Government of Maharashtra: 1994-2000.
 47. Director - Indian Renewable Energy Development Agency, (Ministry of Non-conventional Energy Sources, New Delhi): 1994-1997.
 48. Member - Working Group on Application of Electronics for Social and Rural Development (AESRD), Department of Electronics, Government of India, New Delhi: 1996-1997.
 49. Member - Research Committee, MPTS Research Network: Winrock International, F/FRED Coordinating Unit, Bangkok: 1988-93; Member - Steering Committee: 1991, 1993.
 50. Director - Board of the Nitrogen Fixing Tree Association (NFTA), Hawaii, U.S.A.: 1992-94. International Associate of NFTA: 1983-1992.
 51. Member - Monitoring Committee, Centre for Application of Science and Technology for Rural Development, Pune: 1991-1996.
 52. Member - National Committee on the Development of Methods for Gainful Utilisation of Municipal and Industrial wastes. Central Board for the Prevention and Control of Water Pollution, Government of India, New Delhi: 1985-1988.
 53. Secretary - Bio-Energy Society of India, Maharashtra Chapter: 1986-1988.
 54. Member - Executive Committee, Indian Institute of Tree Scientists, Solan, Himachal

- Pradesh, India: 1986-90; Regional Coordinator 1991-1997.
55. Member - Executive Committee, Range Management Society of India, Jhansi: 1987-1992.
 56. Member - Fodder & Fuel Study Group, Planning Commission, Government of India, New Delhi: 1987-1988.
 57. Member - Study Group on Environment, Government of Maharashtra, Bombay: 1990-1993.
 58. Member - Management Committee, Centre for Social Forestry. Indian Institute of Forest Management, Bhopal: 1989-1992.
 59. Member - Policy Advisory Group on Energy Conservation, Ministry of Environment & Forests, Government of India, New Delhi: 1990-1991.
 60. Member - Task Force on Food & Agriculture for Rural Development, Government of India, New Delhi: 1990-1991.

Academic Qualifications

- ? Ph.D. - Economics (Social Forestry) - University of Pune, Pune (1991);
- ? M.S. (Horticulture) - University of Hawaii, Honolulu, Hawaii (1983);
- ? Programme for Management in Agriculture (PMA) - Indian Institute of Management, Ahmedabad (1974);
- ? M.Sc. (Agri.) - Major: Horticulture; G.B. Pant University of Agriculture and Technology, Pant nagar, Uttarakhand (1971).

Awards and Fellowships

- ? 2008 – Nominated as a Champion of Environment by Coca-Cola India Pvt. Ltd. and invited to participate as an Olympic Torch bearer for the Olympic Torch Relay held in New Delhi on April 17, 2008.
- ? 2008 – Vocational Service Award by Rotary Club of Poona West for outstanding professional achievement.
- ? 2006 - Skoch Grassroots Man of the Year Award by Skoch Consultancy Services Pvt. Ltd., New Delhi in recognition of the impact of various watershed initiatives undertaken in the tribal belt of South Gujarat.
- ? 2004 - Community Welfare Award by Indian Merchants' Chamber Diamond Jubilee Endowment Trust Award 2003, Mumbai.
- ? 2001 - Selected as an Expert in Community Development by Asian Productivity Organization, Tokyo, Japan for participation in the Working Party Meeting on

Resource Management and Development Planning for Community Development in Tehran, Islamic Republic of Iran from July 15-19.

- ? 2000 - Nominated by National Productivity Council, Government of India, New Delhi to participate in the Asian Productivity Organization, Tokyo, Japan Seminar on Comparative Study on Planning Process of Community Development: Component of People's Participation in Ulaanbaatar, Mongolia from August 21-26.
- ? Fellow, Maharashtra Academy of Sciences, Department of Physics, University of Poona, since January 2002.
- ? 1999 - Award for the Case Study "Enriching Community Pastures: villagers of Kavlas in Rajasthan take the lead" at the Annual Case Study Award Competition Scheme by the Indian Institute of Public Administration, New Delhi.
- ? 1997 - Selected among Ninety Illustrious Alumni over the 90 years of University of Hawaii, Honolulu, Hawaii.
- ? 1996 - Subject Expert award at the 8th UGC-CEC Educational Video Competition Awards 1995 for the film 'Industry and Environment : A peaceful co-existence'.
- ? 1993 - Fellow of the National Institute of Ecology (FNIE), Jawaharlal Nehru University, New Delhi.
- ? 1991 - National Award by the National Council of Educational Research and Training, Government of India, New Delhi for the book 'Mother Nature' under the category of 'Best Literature for Children'.
- ? 1981 - East-West Graduate Fellowship; East West Center, Honolulu, Hawaii.
- ? 1978 - Fellowship under the Scientists' Exchange Program by the Philippines Council for Agricultural and Resource Development and Indian Council of Agricultural Research, Government of India, New Delhi to review research on Leucaena in Philippines.

Professional Experience

- ? BAIF Development Research Foundation: President and Managing Trustee November 1993 – June 2009; Executive Vice President (1992 to 1993); Vice President (1986 to 1992); Executive Secretary (1974 to 1986).
- ? Indian Leaf Tobacco Development Co. Ltd., (presently a division of ITC Ltd.): Leaf Superintendent (November 1971 to March 1973) to promote the cultivation of

tobacco.

Significant Contributions

1. Organisational Development

- ? Coordinating Forestry and Wastelands Development programme of BAIF since 1974.
- ? Involved in promotion of Agroforestry, Wastelands development and control of Environmental Pollution through projects funded by the Ford Foundation, IDRC, Winrock International, DANIDA, SIDA and Government of India.
- ? Provided Advisory Services to NGOs and private enterprises on afforestation, agroforestry and industrial greenbelt development;
- ? Evaluated Social Forestry projects sponsored by the National Wastelands Development Board, Ministry of Environment & Forests, Government of India;
- ? Organised over 50 Training Programmes on Agroforestry for field extension workers in several states.
- ? Leader of the Forestry and Watershed Development Group of a joint project launched by Agriculture and Food Development Authority, Ireland and ISRA, Senegal for implementing components of the natural resources in the Sahel; 1993-97.
- ? Team Leader for Consultancy to Government of West Bengal, Department of Animal Husbandry under the World Bank Forestry Project on Forage Production and Utilisation, 1995-96.

2. Documentation

1. Documentary Films

1. Provided technical expertise in production of the following documentary films on technology development for extension and training.
 - ? Low Cost Technology for Wastelands Development
 - ? The Boon: A film on Agroforestry
 - ? Gokak goes Green
2. Developed the script for a documentary film on Industry and Environment: A peaceful co-existence. The film **“Industrial Greenbelt: A War on Urban Pollution”** demonstrated the efficient use of effluents at the NOCIL factory; establishment of a carbon dioxide sink resulting in improved micro-climate and promotion of eco-tourism; Conferred the Subject Expert Award at the 8th UGC-CEC Educational Video Competition Awards 1995.

3. Developed the theme and script for an animated educational film **“Our Environment – Let Us Protect It”** to create awareness and to motivate children to initiate eco-friendly activities in rural and urban areas.

2. Books and Workshop Proceedings

1. Hegde, N.G. 1987. 'Handbook of Wastelands Development' BAIF, Pune. Also translated in Hindi, Kannada and Marathi languages. (Revised edition in 1993).
2. Hegde, N.G. 1987. 'Mother Nature' (Story book for children), BAIF, Pune. Translated in Hindi, Marathi, Gujarati and Kannada.
3. Hegde, N.G. 1988. 'Bio-Energy - A Dependable Source for the Future'. Information Booklet for children. BAIF, Pune. Translated in Hindi and Marathi.
4. Hegde, N.G. 1990. 'Rural Development and Social Forestry: Lessons from China' BAIF, Pune.
5. Hegde, N.G. 1990. 'Let Us Protect Our Environment' - booklet for Children. BAIF, Pune. Translated in Marathi, Hindi, Gujarati and Kannada.
6. Hegde, N.G. 1992. 'Appu and his pet Puppy'. A science book in the form of comic strips for children. BAIF, Pune. Translated in Marathi and Hindi.
7. Hegde, N.G. 1993. 'Niru and her Baby Mango Tree'. Booklet for Children. BAIF, Pune. Translated in Marathi, Hindi, Gujarati and Kannada.
8. Hegde, N.G. 1992. 'Low Cost Technology for Afforestation on Wastelands'. BAIF, Pune. Translated in Marathi.
9. Hegde, N.G. 2006. 'Positive Attitude for Good Health and Happiness'. Nature Cure Ashram, Urulikanchan, Pune.
10. Hegde, N.G. and Abhyankar, P.D. (Ed.). 1986. 'The Greening of Wastelands', Proc. of the National Workshop on Wastelands Development, BAIF, Pune.
11. Hegde, N.G. and Adhikari, P.C. 1992. 'Nate Nisargashi', BAIF, Pune.
12. Hegde, N.G. and Daniel, J.N. 2002. 'Ber: A Boon for Wastelands', BAIF, Pune. Translated in Marathi, Gujarati and Kannada.
13. Hegde, N.G. and Daniel, J.N. 1991. 'Multipurpose Tree Species for Small Farmers', BAIF, Pune.
14. Hegde, N.G. and Daniel, J.N. 1992. 'Promotion of Non-wood Forest Produce through Social Forestry', BAIF, Pune.
15. Hegde, N.G. and Daniel, J.N. 1993. 'The Role of Women in Promotion of Multipurpose Tree Species', BAIF, Pune.
16. Hegde, N.G. and Daniel, J.N. 1994. 'Multipurpose Tree Species for Agroforestry in India', BAIF, Pune.
17. Hegde, N.G. and Kelkar, V.D. (Ed.). 1987. 'Agroforestry: Selected Readings', BAIF, Pune.
18. Hegde, N.G., Relwani, L.L. and Kelkar, V.D. 1989. 'Promotion of Fodder and

- Fuelwood Trees', BAIF, Pune.
19. Brewbaker, J.L., Hegde, N.G. and others 1985. 'Leucaena Forage Production and Use', NFTA, Hawaii.
 20. Hegde, N.G. (one of the Principal Authors) 2002. 'Tamarind : Homestead Tree to Commercial Orchards', BAIF, Pune. Translated in Marathi, Gujarati and Kannada.
 21. Hegde, N.G. (one of the Principal Authors) 2004. 'Jatropha and Other Perennial Oilseed Species', BAIF, Pune.
 22. Hegde, N.G. (one of the Principal Authors) 2007. 'Underutilised Fruit Species for Food-Nutrition Security and Enhanced Rural Livelihood', BAIF, Pune.
 23. Hegde, N.G. (one of the Principal Authors) 2007. 'Promotion of Sustainable Livelihood in Desert Areas of Western India'. A Report on the Brain Storming Workshop on Desert Area Development, Jodhpur. Task Force of the Department of Biotechnology and BAIF.
 24. Hegde, N.G. (One of the Associate Writers) 1989. 'Sesbania Manual', NFTA, Hawaii.
 25. Hegde, N.G., (one of the authors) 1993. 'Other Uses in *Erythrina*: Production and Use'. A field manual. NFTA: 26-28.
 26. National Research Council (One of the Associate Writers). 1984. 'Leucaena: Promising Forage and Tree Crop for the Tropics', 2nd Edn. NAS, Washington, D.C.
 27. Sharma, R.N., Vimal, O.P., Hegde, N.G. and Madan, Meera (ED.). 1987. Proc. of the Bio-Energy Society Third Convention and Symposium 1986: BESI, New Delhi.

3. Thesis Titles

- ✍ Ph.D. - 'Impact of Afforestation Programme on Socio-Economic Transformation of Rural Poor'. (1991)
- ✍ M.S. - 'Improving the Yield and Quality of Leucaena'. (1983)
- ✍ M.Sc. - 'Seasonal Changes in Lemon (*Citrus lemon Burm*) Cultivar Euraka. (1971)

4. Scientific and Technical Papers

1. Hegde, N.G. 1971. How to Preserve Carrots. Indian Farmers Digest, 4(2); 35,39.
2. -- 1971. You too can prepare these Carambola Products. Indian Farmers Digest, 4(3): 50,53.
3. -- 1979. Agroforestry: Introduction of Leucaena (Subabul). Proc. of the National Seminar held in Bangalore, on 'Integrated Approach to Agricultural Development' -

AFPRO, New Delhi: 126-127.

4. -- 1981. Subabul for Afforestation. Proc. of the National Seminar on '*Leucaena leucocephala* in India'. Ministry of Agriculture, Government of India, New Delhi: 189-195.
5. -- 1982. Use of Gibberellin for Accelerating Growth of *Leucaena* Seedlings. *Leucaena Research Reports*, 3:83.
6. -- 1983. *Leucaena* Forage Management in India. Proc. of the workshop '*Leucaena* Research in Asia-Pacific Region', held in November 1982, in Singapore, IDRC, Ottawa: 73-78.
7. -- 1983. Community Forestry in India. *Bio-Energy re-news*, 2(1-2): 30-32.
8. -- 1984. What is gummosis of *Leucaena*? *Leucaena Research Reports*, 5: 31-32.
9. -- 1985. *Leucaena* for Energy Plantation. Proc. of the First National Convention of the Bio-Energy Society of India held in New Delhi, October 14-16, 1984: 62-69.
10. -- 1985. Agroforestry: Experience of BAIF. Proc. of the Workshop on Agroforestry Curriculum. Society of Promotion of Wastelands Development, New Delhi.: 22-30.
11. -- 1985. Livestock Management: Need for Rational Approach. *Economic Times*, Aug. 4: 5.
12. -- 1985. Planning for an integrated approach for rural energy management. Background papers for the Workshop on Rural Energy Management: NIRD, Hyderabad, August 20-23: 64-72.
13. -- 1986. Wastelands Development and related issues. The Greening of Wastelands – Proc. of the National Workshop on 'Utilization of Wastelands for Bio-Energy. BAIF, Pune: 61-65.
14. -- 1986. *Leucaena* for Agroforestry. Paper presented at the first All India ICAR Workshop on Agroforestry, University of Agricultural Sciences, Dharwad. October 3-5, 1985. Reprinted in *Selected Readings on Agro-Forestry (First Edition)*. BAIF, Pune: 89-94.
15. -- 1986. Role of Non-Government Organisations in Agroforestry Research Programme. Report of the working group meeting, Agroforestry Research in the Semi-arid tropics, at ICRISAT, Hyderabad, on August 5-6, 1985: 40- 42.
16. -- 1986. Increasing the profitability of Biomass Production. Proc. of the second convention of the Bio-Energy Society of India, Hyderabad, October 13-15, 1985: 52-59.
17. -- 1986. Grow Subabul on Contour bunds. *Indian Farming* 36 (5) : 21-23.
18. -- 1986. Wastelands Development : Alternatives to *Prosopis juliflora*. Proc. of the workshop on the role of *Prosopis* in wastelands development, Jivrajbhai Patel Agroforestry Centre, Surendrabag. NGH 1-3.
19. -- 1987. Scope for Increasing the profitability of Social Forestry Programme. In 'Social Forestry for Rural Development', Edited by P.K. Khosla and R.K. Kohli. ISTS, Solan: 68-85.

20. -- 1987. Marketing Avenues for Agroforestry Produce. Proc. of the International Workshop on Agroforestry for Rural Needs, New Delhi, February 22-24, 1986, ISTS, Solan: 273-288
21. -- 1987. Physiology of *Leucaena*. In Tree Crop physiology, Edited by Sethuraj. Elsevier, Netherlands: 319-342.
22. -- 1988. Introduction of Agave on Wastelands, Primary Step in Silvipastoral Development. Paper presented at the Third International Rangeland Congress, New Delhi. Nov. 7-11.
23. -- 1988. Economic viability of using *Leucaena* Wood for Newsprint Production. Indian J. Forestry Vol. II (I) : 89- 90.
24. -- 1988. Ecological aspect of Environment with emphasis on Forestry: Presented at the Workshop on Environment impact assessment guidelines: at the Bhaba Atomic Research Centre, Bombay; July 11-15.
25. -- 1988. Multipurpose Trees for Small Farmers in India. In Multipurpose Tree Species for Small Farm Use. Proc. of the International workshop held on November 2-5, 1987, Pattaya, Thailand, Winrock International and IDRC, 1988: 56-64. (Reprinted in Advances in Forestry Research in India. VII. 1992. Int. Book Distributors, Dehra Dun: 1-29).
26. -- 1989. Use of Sewage Water for Afforestation. Presented at the Seminar on Energy Recovery from Municipal Wastes, August 27-28. Indian Water Works Association, Pune: 1-6.
27. -- 1989. Increasing Biomass Production on Wastelands. Proc. Symposium on Inputs of Science and Technology for the development of wastelands. National Academy of Sciences, Allahabad: 103 - 112.
28. -- 1989. Agroforestry under Indian Conditions. In Advances in Forestry Research in India, Vol. III. Edited by Ram Prakash. International Book Distributors, Dehra Dun.
29. -- 1989. Super Subabul. Science Today 2001, September: 32-34.
30. -- 1989. Rural Development : Appropriate Technology. Economic Times, Oct. 23.
31. -- 1990. Extension and Training Needs to motivate small-scale farmers. Proc. of the International Conference on Strategies and Methods for orienting MPTS Research to Small Farm Use, Jakarta, November 20-23, 1989. F/FRED & IDRC: 98-102.
32. -- 1990. Multipurpose Trees for Agroforestry: Regional Perspective, Inventory and Current Status. Presented at the National Workshop on Multipurpose Trees for Agroforestry Systems. IGFRI, Jhansi, February 1-3.
33. -- 1990. Fuelwood Crisis: Need for a Change in Approach. The Economic Times, Feb. 21.
34. -- 1990. Multipurpose Tree Species for rural development in Asia and the Pacific. Presented at the Third National MPTS Research National Meeting, Thailand. March 21-24.

35. -- 1990. Perennial *Sesbania* in Western India, a case study. Proc. of the Workshop on Perennial Sesbania species in Agroforestry Systems. ICRAF and NFTA: 100-202.
36. -- 1990. Fodder from Tree Species. In Dairy Cattle Production - Selected Readings, BAIF, Pune: 171-181.
37. -- 1990. Urban Forestry. SCAVENGER, Society for Clean Environment, Vol.21 No.4, October 1990:3-6.
38. -- 1990. Agroforestry for meeting Fodder Needs of India. Range Mgmt. & Agroforestry 11(1), 1990: 103-108.
39. -- 1990. Market for Tree Products Needed. ILEIA Newsletter. Vol. 6 (2): 18-19.
40. -- 1990. Environmental Pollution by Mismanagement of Livestock. Encology Vol. 5. (7): 25-29.
41. -- 1991. On-Farm Agroforestry Research in Extension Programmes - Methods by BAIF in India. Agroforestry Systems 15 (2-3): 203-216.
42. -- 1991. Environmental Protection beyond Agitation. J. Ecological Society, Vol. 4: 55-61.
43. -- 1991. Neem: Silviculture, Production and Uses. Presented at the International Neem Symposium at the XVII Pacific Science Congress, Honolulu, Hawaii. May 26-29. (Reprinted in Promotion of NWFP through Social Forestry (1992) BAIF).
44. -- 1991. Agroforestry in India: Scope and Strategies. Published in Agroforestry in Asia and the Pacific. RAPA Publication. Vol. 5.: 47-63.
45. -- 1991. Fodder Production: A Case Study. YOJANA, September 15: 27-29.
46. -- 1992. Orientation of Forestry Research to Small Farm Needs. In Advances in Forestry Research in India, VII. IBD Dehra Dun: 136-145.
47. -- 1992. Afforestation to restore ecological balance and to meet the community needs. Proc. of the Commission of European Communities coordination Workshop, IAC, Wageningen, Netherlands: 52-62
48. -- 1992. Role of NGOs in promoting agroforestry. Range Management and Agroforestry. 13 (2):191-197
49. -- 1992. NGOs in Social Forestry in India. In NGOs and Tree growing programmes: Working between farmers and Government. Report of an International Workshop. Winrock International, Bangkok: 15-17.
50. -- 1992. Socio Economic Criteria for Selection of Tree Species for Agroforestry. Proc. of the national workshop on MPTS for Small Farmers. BAIF, Pune: 35-39.
51. -- 1992. A new strategy for improving multipurpose tree species. Report of the workshop 'Research on Farmers' objective for tree breeding. WI, Bangkok. 30-31.
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