

PROFILE

1. Name: **Malaya Kumar Misra**
2. Sex: Male
3. Nationality: Indian
4. Date of Birth: 21st April 1953
5. Designation & Address: Professor & Head (Retired), Principal Investigator, OFSD Project
Post Graduate Department of Botany,
Berhampur University, Berhampur - 760 007, Odisha.

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6. Educational qualifications (From degree onwards)

Degree	School/College/University	Year of Passing the Exam.
B.Sc.	S.K.C.G. College, Paralakhemundi, Berhampur University.	1972
M.Sc. (Botany)	Post Graduate Department, Berhampur University.	1974
Ph.D. (Botany)	Berhampur University	1979
D.Sc. (H.C.)	OIUCM, Colombo, Sri Lanka	1997

7. Awards and honours received

- a. **Post-graduate Merit Scholarship**, Govt. of Orissa, 1972.
 - b. **Fellow of the Indian Association for Angiosperm Taxonomy (FIAT)**. Calicut.
 - c. **D. Sc. degree awarded (H.C.)** by the Open International University for Complimentary Medicine, Colombo, Sri Lanka, 1997.
 - d. **Green-Scientists award 2004**. The Green-life Movement India (TGLMI), Puri, Odisha.
 - e. **Man of the Year Award 2012**. House of Nature, Environment and Society Trust (HONEST), Bhubaneswar, Odisha.
 - f. **Dr. G. Panigrahi Memorial Award in Plant Taxonomy, 2012**. Orissa Botanical Society, Bhubaneswar.
8. Research and field experience: Since 1976 (37 years)
 9. Teaching experience (M.Sc. and M.Phil.)
 - a. Lecturer: 1981-1986
 - b. Lecturer Sr. Gr.: 1986-1994
 - c. Reader: 1994-2002
 - d. Professor: 2002 - 2013
 10. Fields of Specialisation: Plant Taxonomy, Environ. Biology (Ecology) and Ethno-botany.
 11. Research Publications: Research Papers (a) Foreign: 22 (b) India: 85 Total 107
Scientific Articles (a) English: 10 (b) Odia: 36 Total 46
 12. Major Research Projects handled: Seven (BSI, MoEF, DSTE, DST, MoES, OFSDP)
 13. Books authored: Eight
 14. Proceedings edited: Three
 15. Research guidance: Ph.D. : 19 M. Phil. : 47
 16. Seminar/Conferences attended: Sixty five (Two in Foreign countries)
 17. Membership of Professional bodies: Eight

18. Foreign Countries visited: France, Sri Lanka.

PUBLICATIONS OF Dr MALAYA K.MISRA

Research

1. **Misra, M.K.** & B.N. Misra. 1977. Effect of 'Dimecron 100', an insecticide on the germination and seedling growth of mustard seeds (*Brassica juncea* Hook. f. & Thoms.) **Comparative Physiology & Ecology**, 2: 33-34.
2. Panigrahy, A.K., **M.K. Misra** & B.N. Misra. 1978. Effect of sodium chloride stress on the germination and seedling growth of two local varieties of ragi, *Eleusine coracana* Gaertn. **Indian Journal of Ecology**, 5: 98-101.
3. **Misra, M.K.** & B.N. Misra. 1979. Turnover rates of a grassland community. **Comparative Physiology & Ecology**, 4: 150-153.
4. **Misra, M.K.** & B.N. Misra. 1979. Relationship among some structural attributes of a tropical grassland community. **Geobios**, 6: 153-156.
5. **Misra, M.K.** & B.N. Misra. 1979. Biological spectrum of a tropical grassland community at Berhampur. **Indian Journal of Forestry**, 2: 313-315.
6. **Misra, M.K.** & B.N. Misra. 1981. Seasonal changes in leaf area index and chlorophyll in an India grassland. **Journal of Ecology**, 69: 797-805. (U.K.)
7. **Misra, M.K.** & B.N. Misra. 1981. Association and correlation of plant species in a tropical grassland community. **Tropical Ecology**, 22: 88-98.
8. **Misra, M.K.** & B.N. Misra. 1981. Species diversity and dominance in tropical grassland community. **Folia Geobotanica et Phytotaxonomica**, 16: 309-316. (Czechoslovakia).
9. **Misra, M.K.** & B.N. Misra. 1982. Relationship of Photosynthetic structure with biomass and energy content of a grassland community. **Indian Journal of Forestry**, 5(2): 111-115.
10. Bhatta, K.S., **Misra, M.K.** & B.N. Misra. 1982. Community structure and standing crop biomass of a shallow tropical pond of Orissa, - a coastal province of India. **Indian Journal of Ecology**, 9: 130-141.
11. Misra, N. & **M.K. Misra**. 1983. Further addition to the flora of Parlakhemundi (Orissa). **Journal of Orissa Botanical Society**, 5(1): 24-40.
12. **Misra, M.K.** 1984. Ecological approach to afforestation with reference to Orissa. pp. 19-26. In:(eds. S.N. Patro & M.K. Misra) **Proceedings of the Seminar on Environmental Education Curricula and Environment and Natural Resources Management**, Bhubaneswar, 1983, Orissa Environmental Society.
13. Misra, N & **M.K. Misra**. 1984. Weeds of paddy fields and water bodies of Ganjam district (Orissa). **Research Journal of Berhampur University**, 4: 15-20.
14. **Misra, M.K.** 1984. An ecological strategy for conservation of Similipal forest. pp. 24-32. In: (eds. S.N. Patro & M.K. Misra) **Proceedings of the Workshop on Environmental Conservation**. Orissa Environmental Society, Berhampur.
15. **Misra, M.K.** & B.N. Misra. 1984. Biomass and primary production in an Indian grassland. **Tropical Ecology**, 25: 239-147.
16. **Misra, M.K.** & B.N. Misra. 1985. Spatial distribution pattern of certain species in an Indian grassland. pp.153-157. In:(ed. K.C. Misra) **Ecology and Resources Management in Tropics**, Vol. I, Bhargava Book Depot, Varanasi.
17. **Misra, M.K.** & B.N. Misra. 1986. Net primary production and diversity in the grasslands of Berhampur, Orissa. **Indian Journal of Forestry**, 9(2): 146-150.
18. Satapathy, H.K., N.C. Sahu & **M.K. Misra**. 1987. Need and justification for cashew development in Orissa. **The Cashew**, 1: 7-12.

19. Das, P.K. & **M.K. Misra**. 1987. Some medicinal plants used by the tribals of Deomali and adjacent areas of Koraput district, Orissa. **Indian Journal of Forestry**, 10(4): 301-303.
20. Pattnaik, S.K. & **M.K. Misra**. 1987. Morphology and germination characteristics of *Aristida setacea* seeds. **Acta Botanica Hungarica**, 33: 413-420. (Hungari).
21. Das, P.K. & **M.K. Misra**. 1988. Some Ethnomedicinal plants of Koraput district, Orissa. **Ancient Science of Life**, 8(1): 60-67.
22. Satapathy, H.K., N.C. Sahu & **M.K. Misra**. 1988. The Orissa State Cashew Development Corporation Limited-An analysis of working and performance. **Cashew Bulletin**, 25(6):1-13.
23. **Misra, M.K.** & P.C. Tripathy, 1988. Effect of nitrogen fertilizer on plant and earthworm production in a tropical grassland in Orissa. **Tropical Ecology**, 29(2): 61-72.
24. Das, P.K. & **M.K. Misra**. 1988. Some medicinal plants among Kondhas around Chandrapur (Koraput). **Journal of Economic & Taxonomic Botany**, 12(1): 103-109.
25. **Misra, M.K.** & B.N. Misra. 1989. Energy structure and dynamics in an Indian grassland. **Folia Geobotanica et Phytotaxonomica**, 24(1) : 25-35. (Czechoslovakia)
26. Das, P.K., **M.K. Misra** & G. Panigrahi. 1989. Fern Flora of Koraput district, Orissa. **Plant Science Research**, 11: 7-44.
27. **Misra, M.K.**, M. Malana & B.N. Misra. 1989. Effect of burning on the nitrogen dynamics in an Indian grassland. pp. 137-138. In: **Proceedings of the XVI International Grassland Congress**, 4-11. October 1989, Nice, France. The France Grassland Society.
28. Nisanka, S.K. & **M.K. Misra**. 1990. Ecological study of an Indian village ecosystem: Biomass production and consumption. **Biomass**, 23: 117-136. (U.K.)
29. Nisanka, S.K. & **M.K. Misra**. 1990. Ecological study of an Indian village ecosystem: Energetics. **Biomass**, 23: 165-178. (U.K.)
30. Das, P.K. & **M.K. Misra**. 1990. The Flora of Bhanja Bihar and its neighbourhood. **Anusandhan**, 11: 1-46.
31. Nayak, S.P. & **M.K. Misra**. 1991. Dependence of tribals on forest ecosystem - A case study of Bhogibandha village in Orissa. **Journal of Human Ecology**, 2(2): 135-140.
32. Das, P.K. & **M.K. Misra**. 1991. Some new records of Angiospermic taxa from Koraput district of Orissa. **Plant Science Research**, p. 45. Proc. Sixth Annual Conference of Orissa Botanical Society, Bhubaneswer.
33. Sahoo, H.P. & **M.K. Misra**. 1992. Ecological study of an Indian coastal village ecosystem. **International Journal of Environmental Studies**, 39: 257-266. (U.K.)
34. Nisanka, S.K., **M.K. Misra** & N.C. Sahu. 1992. Economics of fuel energy in an Indian village ecosystem. **Bioresource Technology**, 39: 249-261. (U.K.)
35. **Misra, M.K.** & S.K. Nisanka. 1992-93. Vegetation of coastal Orissa - An ecological approach. **Anusandhan**, 14: 27-34.
36. Nayak, S.P., S.K. Nisanka & **M.K. Misra**. 1993. Biomass and energy dynamics in a tribal village ecosystem of Orissa, India. **Biomass & Bioenergy**, 4(1): 23-34. (U.K.)
37. Nisanka, S.K., S.P. Nayak & **M.K. Misra**. 1993. Primary productivity and growth performance of *Casuarina equisetifolia*: A species for social forestry and wastelands development in coastal Orissa. pp. 89-93. In:(ed. N.P. Melkania) **Social forestry and Wastelands Development in mid-eastern India**. Indian Institute of Forest Management, Bhopal.
38. **Misra, M.K.**, M.K. Mohanty & P.K. Das. 1993. Studies on the medico-ethnobotany of *Calotropis gigantea* and *C. procera*. **Ancient Science of Life**, 13 (1 & 2): 40-56.
39. Sahu, N.C., S.K. Nisanka & **M.K. Misra**. 1993. Methods for valuation of non-commercial biomass fuel. **Econosearch**, 1: 1-13.
40. Sahoo, H.P., **M.K. Misra** & S.K. Nisanka. 1994. Environment and socio-economic characteristics of the *Nolias* of coastal Orissa, India. **Journal of Human Ecology**, 5(2):77-83.
41. Sahoo, H.P. & **M.K. Misra**. 1994. Village ecocomplex functioning with common property resources: A case study on coastal Orissa, India. **Environmental Conservation**, 21: 57-61. (Swezerland)
42. **Misra, M.K.**, P.C. Tripathy & S.P. Nayak. 1994. Effect of clipping on the biomass and primary productivity of a coastal grassland in Orissa. **Range Management & Agroforestry**, 15(1): 23-27.
43. **Misra, M.K.** & M. Roy. 1995. Phytosociology and earthworm production in the ground floor of *Casuarina* and *Coconut* plantations in coastal Orissa. pp.165-176. In: (eds. P.C. Misra, N.

- Behera, B.K. Senapati & B.C. Guru), **Advances in Ecology and Environmental Sciences**, Ashish Publishing House; New Delhi.
44. Naidu, S.J. & **M.K. Misra**. 1995. Distribution of ABO blood groups among *Suddha Saura* and *Lanjia Saura* of Eastern Ghats of Orissa. **J. Human Ecology**, 6(1): 49-51.
 45. **Misra, M.K.**, N.C. Sahu, B. Govind Rao & S.K. Nisanka. 1995. Domestic fuel energy consumption in an Indian urban ecosystem. **Biomass & Bioenergy**, 9: 473-486. (U.K.)
 46. Girach, R.D., Aminuddin, M.Ahmed, M.Brahmam & **M.K.Misra**. 1996. Native phtytherapy among rural population of district Bhadrak, Orissa. In:(ed. S.K.Jain) **Ethnobiology in Human Welfare**, Deep publications, New Delhi, pp. 162-164.
 47. Das, S.S. & **M.K. Misra**. 1996. Tribal uses of plants from Narayanpatna region of Koraput district, Orissa. **Ancient Science of Life**, 15: 230-237.
 48. **Misra, M.K.** & S.K. Nisanka. 1997. Litterfall, decomposition and nutrient release in *Casuarina equisetifolia* plantations on the sandy coast of Orissa, India. **Tropical Ecology**, 38: 109-119.
 49. Das, R.C. and **M.K. Misra**. 1997. Biodiversity: Third world's Asset and Capital. pp. 201-207. In: (eds. S.N. Das and R.S. Thakur.) **Changes in Global Climate Due to Natural and Human Activities**. Allied Publ., New Delhi.
 50. **Misra, M.K.** & S.S. Dash. 1997. Medicinal plants used by the tribals of Koraput district, Orissa. pp. 160-182. In: (eds. P.M. Mohapatra and P.C. Mahapatro) **Forest Management in Tribal Areas: Forest Policy and Peoples Participation**. Concept Publishing Company, New Delhi.
 51. **Misra, M.K.**, D.K. Mahapatra & S.K. Nisanka. 1997. Comparative dimensional analysis of plantations of five pines at Kalinga Hills of Orissa. **J. Hill Research**, 10(2): 113-120.
 52. Girach, R.D., M.Brahmam & **M.K.Misra**. 1997. Some less known plant foods from Bhadrak district of Orissa. **J. Economic & Taxonomic Botany** 21(1): 107-111
 53. Girach,R.D.,Aminuddin, M.Brahmam & **M.K.Misra**. 1997. Observations on ethnomedicinal plants of Bhadrak district,Orissa, India. **Ethnobotany** 9: 44-46
 54. Naidu, S.J. & **M.K. Misra**. 1998. Production and consumption of wild date palm sap and country liquor in two tribal village ecosystems of Eastern Ghats of Orissa, India. **Bioresource Technology**, 63(3): 267-273. (U.K.)
 55. Sahu, N.C. & **M.K. Misra**. 1998. Role of common property resources in sustainable development of the rural economy of Orissa, pp. 69-77. In: (ed. B. Satyanarayan) **Social Sciences and Planning for Sustainable Development**, Himalayan Publishing House, Mumbai.
 56. **Misra, M.K.** & S.S. Dash. 1998. Veterinary use of plants among tribals of Orissa. **Ancient Science of Life**, 17(3): 214 - 219.
 57. Girach, R.D., M. Brahmam, **M.K. Misra** & M. Ahmad. 1998. Indigenous Phytotherapy for filariasis from Orissa. **Ancient Science of Life**. 17 (3): 224 - 227.
 58. Girach, R.D., M. Brahmam, **M.K. Misra**. 1998. Folk veterinary herbal medicine of Bhadrak district, Orissa, India. **Ethnobotany**, 10: 85 – 88
 59. Girach, R.D., S. Singh, M. Brahmam, **M.K. Misra**. 1998. Euphobiaceae in native health practices of Bhadrak district, Orissa, India. **Fitoterapia**, 69(1): 24 – 28.
 60. **Misra, M.K.** 1998. Conservation of Ethnobotanicals and Intellectual Property Rights, pp. 156-161. In: (ed. H.K. Patra) **Biodiversity Conservation: Problems and Prospects**. Department of Botany, Utkal University, Bhubaneswar.
 61. Girach, R.D., S. Singh, M. Brahmam, **M.K. Misra**. 1999. Traditional treatment of skin diseases in Bhadrak district, Orissa. **J. Economic & Taxonomic Botany**, 23(2): 499-504.
 62. **Misra, M.K.** 1999. Need for conservation of indigenous medicinal knowledge and the herbs. **J. Human Ecology**, 10(5-6): 403-406
 63. Dash, S.S. & **M.K. Misra**. 1999. Plant diversity and sustainable development in a tribal village Eco-complex on the Eastern Ghats of Orissa. **J. Human Ecology**, 10(5-6): 415-419.
 64. **Misra, M.K.**, S. S. Dash & P.K. Das. 1999. Additions to the Flora of Orissa. **Rheedea**, 9: 163-172.
 65. Dash, S.S. & **M.K. Misra**. 1999. Taxonomic survey and systematic census of economic plants of S Narayanpatna Hills of Koraput district, Orissa. **J. Economic & Taxonomic Botany**, 23(2): 473-498.
 66. **Misra, M.K.** & S.S. Dash. 2000. Biodiversity conservation and sustainable utilization of minor forest products in a cluster of tribal villages on the Eastern Ghats of Orissa. pp. 133 – 143. In:

- (eds. M. Sivadasan & P. Mathew) **Biodiversity, Taxonomy & Conservation of Flowering Plants**. Indian Association for Angiospermic Taxonomy, Calicut
67. **Misra, M.K.** & S.S. Dash. 2000. Biomass and energetics of non-timber forest resources in a cluster of tribal villages on the Eastern Ghats of Orissa, India. **Biomass & Bioenergy** 18:229-247. (U.K.)
 68. Das, P.K. & **M.K. Misra**. 2000. Vegetation and Floristic studies on Koraput of Orissa. In: **Higher Plants of Indian Sub-continent** (Add. Ser. **Indian J. Forestry** XI) IX: 115-130.
 69. **Misra, M.K.** & B. Patra. 2000. Earthworm population in a mango orchard and a fallow land in coastal Orissa. In: (eds. Thukral, A.K. & G. S. Virk) **Environmental Protection**. Scientific Publishers, Jodhpur. pp. 364-371.
 70. Girach, R.D., M. Brahmam, **M.K. Misra** and M. Ahmed. 2000. Some less known medicinal plants in relation to Unani system of medicine from district Bhadrak, Orissa. **Hamdard Medicus**, 43(4): 113-118. (Pakistan)
 71. Panda, K.K., S. Mahapatra, L.N. Das, **M.K. Misra** & B.B. Panda 2000-2001. Optimal utilization of kewda, *Pandanus fascicularis* to ameliorate economy and ecology of coastal India. **J. Medicinal & Aromatic Sciences**, 22-24: 679-682.
 72. Dash, S.S. & **M.K. Misra**. 2001. Ecological and socio-economic profile of three *Kondh* villages of Phulbani district of Orissa, India. **J. Human Ecology**, 12(2): 101-107.
 73. Dash, S. S. & M. K. Misra. 2001. Studies on hill agro-ecosystems of three tribal villages on the Eastern Ghats of Orissa. **Agriculture, Ecosystems & Environment**, 86: 287-302. (The Netherlands).
 74. **Misra, M.K.** 2001. Environmental protection through wasteland management: A case study of coastal Orissa. In: (eds. A.K. Roy & S.K. Verma) **Wasteland Management and Environment**, Scientific Publications, Jodhpur, pp.95-102.
 75. S.K. Senapati, **M.K. Misra** and T.C. Kara. 2001. Ethnomedicinal studies of Mahendragiri range of hills, Eastern Ghats: A case study of Jeerango Gram Panchayat. **EPTRI –ENVIS Newsletter**, 7 (1) :2-4.
 76. **Misra, M.K.** & S.S. Dash. 2002. Ethno-medicinal plants of Koraput district, Orissa and their conservation. In: (ed. A. P. Das) **Perspectives of Plant Biodiversity**, pp 621-634. Bisen Singh and Mahendra Pal Singh, Dehradun.
 77. **Misra, M.K.** 2002 & 2003. Kandha tribe of Orissa: An ecological perspective. **Adibasi**, 42 & 43 : 110-125
 78. **Misra, M.K.** & S. K. Nisanka .2003. Photosynthetic pigments and surface area in *Casuarina equisetifolia* Linn. plantations of Orissa coast. **J. Science & Technology**, 14 & 15(A): 10-20.
 79. Pattnayak, P.K. & **M. K. Misra**. 2003. Energetic and economics of traditional gur preparation: A case study in Ganjam district of Orissa, India. **Biomass & Bioenergy**, 26: 79 – 88. (U.K.)
 80. Nayak, S., S. K. Behera, **M. K. Misra**. 2004. Ethno-medico-botanical survey in Kalahandi district of Orissa. **Indian J. Traditional Knowledge**, 3(1): 72-79.
 81. **Misra, M. K.** 2004. Ethnomedico-Botany of Orissa - A Review. pp. 82 – 115. In: (Eds. P. C. Trivedi & N. K. Sharma) **Ethnomedicinal Plants**. Pointer Publishers, Jaipur.
 82. **Misra, M.K.** 2004. Energy flow through ecosystems, pp. 374-392. In: (eds. N.C. Sahu & A.K. Choudhury). **Dimensions of Environmental and Ecological Economics**. University Press (India), Hyderabad.
 83. Behera, S. K. & **M. K. Misra**. 2005. Indigenous phytotherapy for genito-urinary diseases used by the Kandha tribe of Orissa, India. **J. Ethnopharmacology**, 102: 319 –325. (The Netherlands)
 84. Behera, S. K. & **M. K. Misra**. 2006. Aboveground tree biomass in a recovering tropical sal (*Shorea robusta* Gaertn.f.) forest of Eastern Ghats, India. **Biomass & Bioenergy**, 30:509-521. (U.K.).
 85. Behera, S. K., A. Panda, S. K. Behera & **M. K. Misra**. 2006. Medicinal plants used by the *Kandhas* of Kandhamal district of Orissa. **Indian J. Traditional Knowledge**, 5(4): 519-528.
 86. Behera, S. K. & **M. K. Misra**. 2006. Floristic and structure of the herbaceous vegetation of four recovering forest stands in the Eastern Ghats of India. **Biodiversity & Conservation**, 15: 2263 – 2285. (U.K.).
 87. Sahu, D & **M. K. Misra**. 2007. Ecology and traditional technology of screw pine perfume industry in coastal Orissa. **Indian J. Traditional Knowledge**, 6(2): 253-261.

88. Panda, A & **M. K. Misra**. 2007. Traditional methods of mollusc shell collection for lime preparation in East coast of India. **Indian J. Traditional Knowledge**, 6(4): 549-558.
89. Sahoo, D. & **M.K. Misra**. 2007. Kewada Plantation and Village Eco-complex Functioning: A Case Study of Coastal Orissa. In: (Ed. S.N. Padhy) **Ethno-Ecology, Genetics and Economics of Kewda Plant (*Pandanus fascicularis* Lam.)**. Government Science College, Chatrapur, Orissa.
90. S.K. Behera & **M.K. Misra**. 2007. Floristic analysis of the regenerating forest stands in the Eastern Ghats of Orissa, India. **Indian J. Forestry**, 30(3):343-348.
91. S.K. Behera & **M.K. Misra**. 2007. Floristic analysis of the regenerating forest stand in the Eastern Ghats of Orissa, India. **Indian J. Forestry** 30(3): 343-348.
92. Panda, A & **M.K. Misra** 2007. Traditional lime preparation – A case study in Coastal Orissa. **Indian. J. Traditional Knowledge**, 6(2): 262-269.
93. Sahu, D, Panda, A. & **M.K. Misra**, 2008. Studies on medico-ethnobotany of *Elephantopus scaber* L. **Anusandhan** 14: 1-9.
94. S.K. Behera, A. Panda & **M.K. Misra**. 2009. Survey and conservation of Homeopathic medicinal plants of Orissa, India. **J. Economic & Taxonomic Botany**, 33(Suppl.):39-58.
95. Sahu, D & **M.K. Misra** 2010. Flora of sandy coast of Ganjam district, Orissa, India, Journal of Bombay Nat. Hist. Soc. 107 (3):213-219.
96. Rath,P., G. Pradhan & **M.K. Misra**. 2010. Effect of sugar factory distillery spent wash (DSW) on the growth pattern of sugarcane (*Saccharum officinarum*) crop. **J. Phytol.** 2(5):33-39.
97. Panda, A. & **M.K. Misra**. 2010. Vegetation ecology of Mahendragiri hills with special reference to altitude pp .105-119. In: S.N. Patro (ed.) **Mahendragiri**. Orissa Environment Society, Bhubaneswar.
98. Alam, M. R.D.Girach, M. Brahmam & **M.K.Misra**. 2010. Ethnobotanical uses of wetland and aquatic plants from Bhadrak – a coastal district of Orissa. **Hippo. J. Unani Med.** 5(4):205-212.
99. Panda, A., D. Sahu & **M.K. Misra**. 2011. Plant biodiversity and ecology of some aquatic vegetation of Odisha, India. **Proc. Nat. Acad. Sci. (Sec. B)** 81 pt.I: 134-147.
100. Rath, P., G. Pradhan & **M.K. Misra**. 2011. Effect of distillery spent wash (DSW) and fertilizer on growth and chlorophyll content of sugarcane (*Saccharum officinarum* L.) plant. **Recent Research in Science and Technology** 3(4):169-176.
101. Panda, A. & **M.K. Misra**. 2011. Ethnomedicinal survey of some wetland plants of south Orissa and their conservation. **Indian J. Traditional Knowledge** 10 (2); 296-303.
102. Panda, A., D. Sahu & **M.K. Misra**. 2011. Plant biodiversity and ecology of some aquatic vegetation of Odisha, India. **Proc. Nat. Acad. Sci. (Sec. B)** 81 pt.I: 134-147.
103. Rath, P., G. Pradhan & **M.K. Misra** 2011. Effect of distillery spent wash (DSW) and fertilizer on growth and chlorophyll content of sugarcane (*Saccharum officinarum* L.) plant. **Resent Research in Science and Technology** 3(4):169-176.
104. Panda, A., D. Sahu & **M. K. Misra**. 2011. Wetland flora of Malkangiri district, Odisha, India. **J. Econ. Tax. Bot.** 35 (4):798-808.
105. **Misra, M.K.**, A. Panda & D. Sahu. 2012. Survey of useful wetland plants of South Odisha, India. **Indian J. Traditional Knowledge** 11(4): 658-666.
106. Sibangini Misra & **M.K. Misra**. 2013. Leafy vegetable plants of South Odisha, India. **Int. J. Agricul. Food Sci.** 3(4):131-137.
107. D. Sahu & **Misra, M.K** 2013.Coastal phytodiversity of Puri district, Odisha, India. **Nelumbo (Bull. Bot. Surv. India)** (In Press).

Encyclopaedia Chapter

108. Nisanka, S. K. and **M. K. Misra**. 1995. Ecological Energetics of Ecosystems. In: (Ed. W.A. Nierenburg) **Encyclopedia of Environmental Biology**. Vol. I, pp. 529-548, **Academic Press, USA**

Proceedings edited (in collaboration with S.N. Patro)

1. **Environmental Eduction Curricula and Nature and Natural Resources Management (1983)**. Orissa Environmental Society, Bhubaneswer.

2. **Environmental Conservation (1984)**. Orissa Environmental Society, Bhubaneswer.
3. **Conservation of Similipal in Wilderness (1985)**. Orissa Environmental Society, Bhubaneswer.

Books authored:

1. Misra, B.N. and **M.K. Misra**. 1983. **Introductory Practical Biostatistics**. Naya Prokash, Calcutta (1989, 1992, 1998 reprinted).
2. Misra, N. and **M. K. Misra**. 1985. **Udvida Parichaya** (in Oriya). Taratarini Publishers, Berhampur.
3. Das, R. C., J. K. Baral, N. C. Sahu & **M. K. Misra**. 1998. **The Environmental Divide: Dilemma of Developing Countries**. A.P.H. Publications, New Delhi.
4. **Misra, M.K.** 2003. **Udvida Sangraha** 2nd edition (in Oriya). Published by M. Misra, Berhampur.
5. **M.K. Misra** & A. Panda. 2008. Wetlands: Status, Utilization and Protection. Department of Botany, Berhampur University. (Booklet).
6. **Misra, M.K.**, P. K. Das & S. S. Dash. 2009. **Phytodiversity and Useful Plants of Eastern Ghats India (A special reference to the Koraput region)**. International Book Distributors, Dehra Dun.
7. Sahu, D. & **M.K. Misra**. 2010. Ecology, energetic and economics of Kewda (Screwpine) industry. Lambert Academic Publishing, Saarbrücken, Germany.
8. Misra, M.K and A. Panda. 2011. **Illustrated Wetland Plants and Their Utilization (with special reference to Odisha, India)**. International Book Distributors, Dehra Dun.

Scientific Popular Articles:

a. In English

1. Misra, B.N. & M.K. Misra (1977). Deforestation - an ecological catastrophe. **Biosouvenir** 2: 8-10.
2. Misra, M.K. (1984). Conserving grasslands. **Science Reporter**, 147-148.
3. Misra, M.K. (1993). The State of Environment of Bhanja Bihar. In: **Souvenir**. Symposium on Conservation of Biodiversity, Orissa Botanical Society, Berhampur. pp. 4-7.
4. Misra, M.K. (1995). Biodiversity: Awareness through media. pp.33-45. In: **The Bhanja Bihar Reporter** (special issue), **Media and Environmental Communication in Orissa**. Vol. XXI. Berhampur University, Berhampur, Orissa
5. Misra, M.K., N.C. Sahu, S.K. Nisanka and S.P. Nayak. (1996). Women in rural ecosystems. pp. 12-19. In: (ed. D. Misra) **Women, Environment and Communication** (Bhanja Bihar Reporter, 22), Berhampur University, Berhampur.
6. Misra, M.K. 2004. Flora and Fauna. In: (eds. G. Mohanty et al.) **The Cultural Heritage of Ganjam**. pp.26 – 33. State Level Vyasakabi Fakir Mohan Smruti Sansad, Bhubaneswer.
7. Misra, M.K. 2004. The Flora and Fauna. In: (Eds. G. Mohanty et al.) **The Cultural Heritage of Gajapati**. pp.35 – 45. State Level Vyasakabi Fakir Mohan Smruti Sansad, Bhubaneswer
8. Misra, M.K. and Sarita Misra. 2004. Medicinal plant resources and their uses by tribals. In: (eds. G. Mohanty et al.) **The Cultural Heritage of Gajapati**. pp.63-70. State Level Vyasakabi Fakir Mohan Smruti Sansad, Bhubaneswer
9. Misra, M.K. and Anima Panda 2004. The flora and vegetation. In: (eds. G. Mohanty *et al.*) **The Cultural Heritage of Orissa. Vol. IX Rayagada District** pp.14-22. State Level Vyasakabi Fakir Mohan Smruti Sansad, Bhubaneswer
10. Misra, M.K. & A. Panda. 2008. The Flora and vegetation. In (eds G. Mohanty et al.) **The Cultural Heritage of Orissa, Vol. XI Koraput district** pp11-18. State level Vyasakabi Fakir Mohan Senapati Sansad, Bhubaneswar.

b. In Oriya

1. Misra, M.K. (1983). Role of plants in fuel energy production. **Vigyanalok** 5: 32-37.
2. Misra, M.K. (1985). Food Adulteration and its poisonous affects. **Vigyanalok** 7: 58-62.
3. Misra, M.K. (1986). Noise pollution. **The Dainika Asha**. 14 & 22 December 1986.

4. Misra, M.K. (1987). Poisonous reactions in diet. **The Sambada**, 4 May, 1987.
5. Misra, M.K. (1987). Environmental problems in south Orissa. pp. 16-18. In: **Effect of Flood and Drought in Deteriorating Environment**.
6. Misra, M.K. (1988). Conservation of nature in changing environment. **The Samaj**, 17 April 1988.
7. Misra, M.K. (1989). Role of natural environment in the control of flood and drought. **The Sambada**, 14 March 1989.
8. Misra, M.K. (1989). Carnivorous plants. pp. 8-10 **Sajaphula** (Bimonthly Children's Magazine), 2(5) : June - July.
9. Misra, M.K. and S.P. Nayak (1989). Tribals and ethno-medicine. pp. 46-48. In: **Vigyan Bivaba**, Orissa Vigyan Prasar Parishad, Berhampur.
10. Misra, M.K. (1990). Our food problem and environment preservation. **The Sambada**, 28 Feb. 1990.
11. Misra, M.K. (1990). Desertification: Causes and abatements. pp. 35-42. In: **Paribesh Pradushan Parichaya**. Ganjam District Environmental Society.
12. Misra, M.K. (1990). Environmental protection and Bishnoy community. **The Sambada**, 20 Oct.1990.
13. Misra, M.K. (1990). Palm oil plant. pp. 29-31. In: **Vigyan Bithika**. Orissa Vigyan Prasar Parishad, Berhampur.
14. Misra, M.K. (1993). Geenhouse effect. pp. 54-59. In: **Vigyan Bani**. April 1993 (Ed. Kulamani Samal). Orissa Vigyan Academy, Bhubaneswar.
15. Misra, M.K. (1993). Man and Biosphere. pp. 1-7. In: **Biosphere and Environment**. Orissa Vigyan Prasar Parishad, Behrhampur.
16. Misra, M.K. (1993). Environment conservation and awareness. pp. 24-25. In: **Souvenir**. Gajapati Samaj Kalyan Samity, Paralakhemundi.
17. Misra, M.K. (1994). Sagu plant. **Vigyan Diganta**. April-July, 1994. pp.15-17
18. Misra, M.K. (1995). Cutch (Catechu) Tree. **Vigyan Diganta**, Jan. – Feb. 1995. pp. 12 – 14.
19. Misra, M.K. (1996). Energy Plantation. **Vigyana Diganta**. May-June, 1996. pp. 29-30.
20. Misra, M.K.(1997).History of medicinal plants and need for their conservation **Pragatibadi**. July 14.
21. Misra, M.K. (1997). Biowaste and fuel energy. **Vigyan Diganta**.Sept. – Oct. 1997. pp. 41 – 42.
22. Misra, M.K. (1998). Wasteland management. **Vigyan Diganta**, Jan.-Feb. 1998. pp. 7-8.
23. Misra, M.K. (1998). History of medicinal plant and need for their conservation. **The Samaj**, 13 Dec.
24. Misra, M.K. (1998). Conservation of traditional medicinal knowledge. **Vigyan Diganta**, Nov.-Dec.
25. Misra, M.K. (1998). Conservation of medicinal plants. **Yojana**, September.
26. Misra, M.K. (1999). How different colours possible in flowers, **Vigyan Diganta**, 6(2): 12-13.
27. Misra, M.K. (1999). Management of wastelands. **Yojana** 6 (9): 16-18.
28. Misra, M.K. (2003). Medicinal plants of Ganjam district. In: (eds. P.K. Panda & P.K. Mahapatra) **Ganjam (part I)** Berhampur Book Exhibition Committee.
29. Misra M.K. (2004). Opium plant. **Vigyan Diganta**. 11(1):4-6. Orissa Vigyan Academy, Bhubaneswar.
30. Misra, M.K. (2004). Plant wealth of Ganjam – Kia. In: (Eds. P.K. Panda & P. Mahapatra) **Souvenir, Book Fair 2004**, , Berhampur Book Fair Samiti. Berhampur.
31. Misra M.K. (2005). Use of opium and its complicacies. **Vigyan Diganta**. April 2005. Orissa Vigyan Academy, Bhubaneswar.
32. Misra M.K. (2007). Medicinal Plant Ashok. **Vigyan Diganta**. May 2007:11-12. Orissa Vigyan Academy, Bhubaneswar.
33. Misra M.K. (2007). Medicinal Plant Arakha. **Vigyan Diganta**. June 2007, 12-15. Orissa Vigyan Academy, Bhubaneswar.
34. Misra, M.K. (2007). Medicinal Plant Akanabindhi. **Vigyan Diganta**. September2007, 7-9. Orissa Vigyan Academy, Bhubaneswar.
35. Misra, M.K. (2009) Benefits of wetlands. **Vigyan Diganta**. August 2009, 3-5. Orissa Vigyan Academy, Bhubaneswar.
36. Misra, M.K. (2009) Loss of wetlands and their conservation. **Vigyan Diganta**. August 2009, 3-5.

RESEARCH GUIDANCE

a. Doctor of Philosophy (Ph. D.)

1. Sundar Narayan Patro. 1989. Ecological Studies on shifting cultivation (*podu*) with special reference to the vegetation cover and nutrient budget in south Orissa.
2. Purna Chandra Tripathy. 1990. Effect of clipping and fertilization on the structure and function of a grassland ecosystem.
3. Pradeep Kumar Das. 1992. Flora of North-East Koraput District (Orissa)
4. Surendra Kumar Nisanka. 1992. Biomass, primary productivity and nutrient cycling in the *Casuarina equisetifolia* plantations in the coastal belt of Orissa.
5. Hemanta Kumar Satapathy. 1993. Ecological and economic aspects of Cashew plantations in Orissa.
6. Hara Prasad Sahu. 1994. Ecological Studies on Indian coastal village ecosystems.
7. Satis Prasad Nayak. 1995. Studies on plant and earthworm in a grassland of Phulbani Hills of Orissa.
8. Sudhansu Sekhar Dash. 1997. Studies on floristics, biomass and energetics in tribal village ecosystem of Eastern Ghats of Orissa.
9. Bijayalakshmi Dash. 1998. A study on Ethnobotany of the *Kondhs* of Ganjam district.
10. S. Jammi Naidu. 2000. Impact of deforestation on the structure and functioning of two village ecosystems on the Eastern Ghats of Orissa -A comparative study.
11. Dilip K. Mahapatra. 2000. Biomass production and litter decomposition in tropical pine plantations at Kalinga, Orissa.
12. Girach, R D. 2002. Floristic and Ethnobotanical Studies on District Bhadrak, Orissa, India.
13. Prafulla K.Pattnayak.2002. Productivity, Energetics and Environmental Cost analysis of sugarcane crop ecosystem.
14. Madhumita Devi. 2004. Native food and fibre plants used by tribals of Gajapati and Ganjam districts of Orissa : Its management and conservation.
15. Santosh Kumar Senapati. 2005. Ethnobiological studies of Mahendragiri range of hills of Eastern Ghats, Orissa.
16. Anima Panda 2008. Floristic, Ecology and Plant Resources Utilization and Management of Fresh Water Bodies of South Orissa.
17. Deenabandhu Sahu 2011. Floristics and Ecology of sand-dune communities of coastal Ganjam and Puri districts of Orissa, India.
18. Ganeswar Pradhan 2012. Environmental impact of Sugarcane cultivation in and around Aska area of Ganjam Distrricts of Odisha.
19. Abhay Kant Pathak 2012. Impact of Joint Forest Management programme in forestry, biodiversity and tribal development in Koraput region of Orissa, India.
20. Rama Chandra Sahoo. 2013.

b. Master of Philosophy (M. Phil.)

1. Purna Chandra Tripathy, 1985. Effect of N-fertilizer on the primary and secondary production of a grassland ecosystem.
2. Sudhir Kumar Patnaik. 1985. Ecophysiology of germination of seed of a native grass, *Aristida setacea* Retz.
3. Pradeep Kumar Das, 1986. Fern Flora of Koraput District (Orissa)
4. Surendra Kumar Nisanka, 1988. Ecological study of a village ecosystem with special reference to biomass and energy.
5. Satis Prasad Nayak, 1989. Biomass energy production and consumption in a tribal village ecosystem.
6. Manasi Ray. 1989. Ecological study of ground vegetation of *Casuarina* and coconut plantations in the coastal belt of Orissa.
7. Sangeeta Padhy. 1990. Ecological study of the temporary water bodies of Berhampur, Orissa.
8. Bhagyalata Patra. 1990. Structure and productivity of plants and earthworms in two monsoon communities of coastal Orissa.
9. B.Govinda Rao.1990.Biomass energy consumption pattern in urban area: Berhampur - A case study.
10. Dilip Kumar Mahapatra. 1991. Litter production and decomposition in tropical pine plantations in Kalinga Hills of Orissa.
11. Mamata Kuari Dash. 1992. Ecophysiological study on *Evolvulus alsinoides* L. and *Evolvulus*

nummularius L.

12. Sudhajt Hota. 1993. Ecological studies on *Acacia auriculaeformis* plantations of Ganjam district, Orissa.
13. Sudhansu Sekhar Dash. 1994. Ethnobotanical study in the Narayanpatna area of Koraput District, Orissa.
14. Prabhakar Padhi. 1995. Ethnobotanical studies on Similipal forest of Mayurbhanja district of Orissa.
15. Chintamani Sahu. 1995. Energetics of some crop plants.
16. Barabarnini Sahu. 1997. Energetics of women in a rural ecosystem: Khallikote - A case study.
17. Sarita Misra. 1997. Studies on ethnobotany and folk medicine of Gajapati district, Orissa.
18. Prafull Kumar Pattnaik. 1998. Ecology, energetics and economics of gur production in Ganjam district, Orissa.
19. Devdutta Pradhan. 1998. Comparative study of forest and coastal-based village ecosystem of Balasore district of Orissa
20. Jyoti Kanchan, A.S. 1999. Medicinal plants used for jaundice and liver ailments.
21. Mahapatra, Trupti. 2000. Medicinal plants used for skin diseases
22. Nayak, Sobhagini. 2000. Ethnobotanical studies of some tribal villages of Southern Kalahandi district, Orissa.
23. Jnanendra Rath. 2002. Community ecology of some of the islands of Chilika lake, Orissa, India.
24. Dibyendu Sekhar Meska. 2002. Biodiversity of Berhampur City: Trees and Birds.
25. Soumit Kumar Behera. 2003. Ecological Studies on the Regenerating Sal Forest of Eastern Ghats (Kandhamal district), Orissa.
26. Pragya Paramita Das. 2004. Ecophysiological studies on germination of some medicinal plants.
27. Deenabandhu Sahu. 2004. Ecology, energetics and economics of kewda (*Pandanus fascicularis* Lam.) industries in Ganjam district, Orissa.
28. Anima Panda. 2004. Ecology, energetics and economics of lime industry in and around Berhampur, Orissa.
29. Sangita Maharana. 2005. Plant resources and their utility in Chikiti area of Ganjam district, Orissa.
30. Smita Ranasingh. 2006. Ecology of some medicinal plants.
31. Arpita Choudhury. 2006. Structural analysis of a regenerating plantation after complete devastation in super cyclone of 1999 at Bhanja Vihar.
32. Smita Kumari Rath. 2006. Ecology and phyto-diversity of some aquatic bodies of Berhampur, Orissa.
33. Puspanjali Choudhury. 2007. Effect of Flyash on the germination and seedling growth of some plant species.
34. Priyadarsini Nayak. 2008. Ethnobotanical study on the Kutia Kandha tribe of Baliguda area of Kandhamal district of Orissa.
35. Manisha Kumari Panda. 2009. Biomolecular changes under stress condition of a Plant. (Env. Sciences).
36. Ishani Guru. 2009. Efficiency improvement of Biological system treating tarry water from coal gasification plant. (Biotechnology).
37. Sudip Kumar Sen. 2009. Phytochemical extraction from medicinal plants surrounding Gunupur area. (Biotechnology).
38. Bholanatha Durga 2010. Ecological and Economic study on coconut plantation and its bio-resources: A case study in Ganjam coast, Odisha.
39. Sibangini Misra 2010. Medicinal plants used in traditional systems for dental and mouth diseases.
40. Tapaswini Dash 2010. Environmental (Air) pollution in and around Indian Rare Earths Limited Matikhalo, Ganjam, Orissa.
41. Swapna Lisha Mishra 2010. Livelihood and food security of fisher folk of Chilika lake, Orissa.
42. Durga Prasad Biswal 2011. In situ conservation of Black Buck (*Antelope cervicapra* L.) in Naikani palli panchayat, Ganjam, Odisha: Habitat, food and constraints.
43. Arundhati Ojha 2011. Ethno-Botanical plants: Euphorbiaceae and Asclepiadaceae.
44. Smruti Sancharita Jena 2011. Diversity of cultivated crop plants in and around Kundra of Koraput district, Odisha.
45. Bijayinee Samal 2011. Studies on riverine crop ecosystems at Balibil, Jajpur, Odisha.
46. Sairendri Moharana 2012. Ecological study of an agriculture based village ecosystem: A case study in Basudevpur village, Ganjam, Odisha.
47. Abhipsa Mahapatra 2013. Minor plant Resource in and around Berhampur.

RESEARCH SCHEMES UNDERTAKEN

- 1) District Flora Survey-Koraput. Botanical Survey of India, Department of Environment and Forests, Govt. of India, Howrah. (June 1984 – June 1987).
- 2) Biomass, Energy capturing efficiency and nutrient cycling in the *Casuarina* plantations in the coastal belt of Orissa. **Department of Environ. & Forests**, Govt. of India, New Delhi. (Aug.1985- Aug. 1998).
- 3) State of Environment - Flora of Orissa- an inventory of economic plants / germplasm. **Department of Science Technology & Environment**, Govt. of Orissa, Bhubaneswar (as co-investigator).
- 4) Ecological studies on grassland communities of South Orissa. **Department of Environment & Forests**, Govt. of Orissa (as co-investigator).
- 5) Studies on biomass and energy flow in Tribal village ecosystems of South Orissa. **Department of Science & Technology**, Govt. of India. New Delhi. (May1994 – Oct.1996)
- 6) Floristic survey and assessment of plant resources of wetlands of South Orissa, India. **Department of Environ. & Forests**, Govt. of India, New Delhi. (April 2005 – Continuing)
- 7) Phytodiversity and Ecology of Sandy Coastal Ecosystems of Orissa, India, **Ministry of Earth Sciences (MoES)**, Govt. of India, New Delhi. (July 2007 – July 2010).

MEMBERSHIP OF ASSOCIATIONS AND INSTITUTIONS

1. International Society for Tropical Ecology, Varanasi.
2. Indian Association for Angiosperm Taxonomy, Calicut (Life member)
3. Orissa Environmental Society, Bhubaneswar (Life member)
4. Orissa Botanical Society, Bhubaneswar (Life member)
5. Orissa Vigyan Prasara Parishad, Berhampur (Life member).
6. Orissa Vigyan Academy, Bhubaneswar (Life member)
7. Peace and Health Research Centre, Rangailunda, Ganjam, Orissa.

ORIENTATION COURSE, REFRESHERS COURSES, CONTINUING EDUCATION PROGRAMME UNDERTAKEN

- 1) Intensive course in Plant collection and Preservation, Central National Herbarium, Botanical Survey of India, Howrah, January 10-24, 1978.
- 2) Workshop on Plant Exploration and Herbarium techniques, Central National Herbarium, Botanical Survey of India, Howrah, 27th March to 7th April, 1978
- 3) Workshop on System Ecology, Ecodevelopment and Planning. Dept. of Botany Dr. Hari Singh Gour Vishwavidyalaya, SAGAR, (M.P.), 7th to 17th June 1984.
- 4) Orientation course in Remote Sensing Applications to Forestry, Indian Institute of Remote Sensing, Dehradun, July 4-17, 1984.
- 5) National School of Conservation Biology, Centre for Ecological Sciences, Indian Institute of Science, Bangalore, November 10-22, 1986.
- 6) Refreshers Course in Botany on Recent Advances in Botany, Calcutta University, March 4-28, 1991
- 7) Refreshers Course in Recent Advances in Botany and Biotechnology, Berhampur University, October 03 – 30, 1994.
- 8) Refreshers Course in Environment: Pollution, Protection and Preservation. Berhampur University, 15 March – 11 April, 1995.

ACADEMIC ACTIVITIES

1. Fellowships/ Awards/ received

- I. Fellow of the International Society for Tropical Ecology (FTE)
- II. Fellow of the Indian Association for Angiosperm Taxonomy (FIAT)

III. D.Sc.degree (H.C.) received from the Open International University for Complimentary Medicine, Colombo, Sri Lanka in 1997.

2. As Resource Person in various workshops/ Refresher courses;

- 1) UGC sponsored Refresher Course in Environmental Sciences, Organized by the Department of Environmental Sciences, Sambalpur University, Jyoti Vihar, February 7-8, 1995.
- 2) UGC sponsored Refresher Course in Advances in Modern Economics, Post Graduate Department of Economics, Berhampur University, 25,28 &29 December 1995.
- 3) Four Weeks Training Course in Remote Sensing & its applications to Oceanography, Marine Sciences & Marine Fisheries. 12 August,1996. Orissa Remote Sensing Application Centre, Bhubaneswar.
- 4) UGC sponsored Refresher Course on "Community Dynamics" Organized by the School of Environmental Biology, A. P. S. University, Rewa, (M.P.), 13 - 14 September, 1996.
- 5) UGC sponsored Refresher Course in Instrumentation and Quantitative methods in Biology, School of Life Sciences, Sambalpur University,15 -16 March 1999.
- 6) Central Pollution Board sponsored Training Programme on public participation in Environmental Management organized by CENDERET, Xavier Institute of Management, Bhubaneswer , 7th Sept.1999.
- 7) UGC sponsored Refresher Course in Botany, Academic Staff College, Utkal University, Bhubaneswer, July 24, 2000.
- 8) GC sponsored Refresher Course in Life Sciences on Biodiversity, Academic Staff Collage, Sambalpur University, 14-15 Sept. 2001
- 9) UGC sponsored Refresher course in Botany, Academic Staff College, Utkal University, October 5, 2001.
- 10) UGC sponsored Refresher Course in Environmental Sciences, Organised by the Department of Environmental Science, Fakir Mohan University, Balasore, September 24-25, 2004
- 11) UGC sponsored Refresher Course on Coastal Marine Ecology and Pollution, Organised by the P.G. Department of Marine Sciences, Berharpur University, 16th & 18th Feb.2005.
- 12) UGC sponsored Refresher Course in Environmental Sciences, Organized by the Department of Chemistry, Pt. Ravisankar Shukla University, Raipur. March 9-11, 200
- 13) UGC sponsored Refresher Course in Life Science, Organized by the Academic Staff College, Sambalpur University, Jyoti Bihar. 29th & 30th August 2005.
- 14) UGC sponsored Refresher Course in Botany, Organized by the Academic Staff College, Utkal University, Bhubaneswer. July 17-18, 2006.
- 15) UGC sponsored Refresher Course in Recent Advances in Environmental Sciences, Academic Staff Collage, Sambalpur University, 21-23 Dec. 2005.
- 16) Pollution Control Board, Orissa sponsored, Teachers training Programme on Environment and Pollution Control, Regional state Pollution Control Board, Berhampur. 29-30 August, 2007.
- 17) UGC sponsored Refresher Course on Coastal Marine Ecology and Pollution, Organised by the P.G. Department of Marine Sciences, Berharpur University, 1st & 4th October2007.
- 18) UGC sponsored orientation course on Science society and culture, Academic Staff College, Sambalpur University, 10th & 11th April 2009.
- 19) UGC sponsored orientation Course on Sustainability & Environment ASC, Sambalpur University. 19&20 August 2009.

3. Chaired 2 Scientific Sessions of the National Symposium / Conference.

4. Delivered talks in local (Oriya) language in village level meetings, Schools and Colleges on environment related problems, biodiversity, and so on.
5. Revised and updated courses of studies in M.Sc. Botany during the session 1996-1998.
6. Chairman of the Board of Studies in Botany: Berhampur University during 2000- 2001 and 2001-2002.
7. Chairman of the Board of Studies in Forest Ecology: Berhampur University during 2002-2003.

8. Chairman, BOS in Environment Sciences, B.U.2008-09 and 2009-10.

9. Member Board of Studies in Botany

- 1) Sambalpur University, Burla, Sambalpur, during 2000- 2001 and 2001- 2002
- 2) S.K.C.G. (Autonomous) College, Paralakhemundi (Ganjam) during 2002- 2003, 2003-2004, and 2004-2005.
- 3) Government College, Phulbani (Autonomous) during 2004-2005.
- 4) Deb College, Jeypore (Autonomous), Orissa during 2004-2006.
- 5) Government (Autonomous) College, Rourkela, Orissa, 2003 – 2004.
- 6) Government (Autonomous) College, Bhawanipatna, Orissa, 2005 – 2006.
- 7) Utkal University, 2007-2008, 2008-'09, 2009-'10.

10. Extra-curricular activities

- 1) In-charge (as Superintendent / Asst. Supt.) of hostels – 4 terms of 2 years each (2 Ladies' hostels and one Boys' hostel.)
- 2) As Vice-President of Athletic Association of Post Graduate Departments-3 times. (one year each)
- 3) As Associated Vice-President of Students Union, P.G. Departments-2 times (one year each)
- 4) In charge of NSS unit of Post Graduate Departments of Berhampur University for one year and organized one day Environment, Health and Literacy Awareness Campaign in Coastal Villages of Ganjam district, Orissa.
- 5) In-charge of Administration of the P.G. department of Botany as Head of the Department since June 2000 and 2002.

CONTRIBUTIONS

Scientific Research

The main object of research is to explore the bio-resources (Plant) of South Orissa and its utilisation and management. This was done by conducting studies and publishing the findings on **Plant taxonomy, Ethnobotany and Tribal health care, Biodiversity resources** utilisation in **village ecosystems, Energy flow** in village ecosystem, **Grassland ecology** and fodder production, **Primary productivity** and nutrient cycling in plantations and regenerating forest, **Coastal resources and Fisher folk** livelihood, **Shifting cultivation** and tribal sustenance, **Rural fuel energy** and its economics.

Teaching:

Utilisation of research findings for teaching, writing Review articles (e.g. Encyclopaedia of Environmental Science, Academic Press), writing Books, editing Proceedings, framing Courses of studies in Botany, Environmental Science and Forest Ecology.

Popularisation of Science:

Writing and publishing popular scientific articles in English, Oriya, and publishing in Newspapers and Magazines; delivering talks on science and environment in schools, colleges and public meetings particularly in villages, through radio and television.

Administration:

As Head of the Department of Botany, Superintendent of P.G. Hostels, Vice- President in Athletic Association, Student Union, in charge of N.S.S.Unit