

BIO-DATA

Name Dr. K. T. Chandy
Date of birth 08 – 2 – 1946
Position held last Director,
Dpt of Agriculture & Environmental Education
Indian Social Institute
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11. ACADEMIC QUALIFICATIONS:

1. 1962-63: S.S.L.C. St. Ephrem's High School, Mannanam, Kottayam Dt. Kerala.
2. 1963-68: Novitiate and Juniorate studies in the Society of Jesus, Christ Hall, Malaparamba, Calicut, Kerala.
3. 1968-69: **Studies in Humanities**, Mt. St. Joseph's Institute, Bangalore, Karnataka.
4. 1969-71: Studies in **Western and Indian Philosophy**, Sacred Heart College, Shembaganur, Kodaikanal, Madurai Dt., Tamil Nadu.
5. 1971-73: Intermediate Agriculture, Allahabad Agricultural Institute, Naini, Allahabad, U.P.; passed in **1st division, distinction in English and Zoology**.
6. 1973-76: **B.Sc. Hon. Agri. & A.H.**, G.B. Pant University of Agriculture and Technology, Pant Nagar, Nainital Dist., U.P.; **passed in 1st division; placed in the University and College merit list**.
7. 1976-80: Studies in Theology (**Studies in Indian and Western Religions and Culture**), D' Nobili College, Pune, Maharashtra.
8. 1980-82: M.Sc. Agronomy, G.B. Pant University of Agriculture & Technology, Pantnagar, Nainital Dist., U.P.; **passed in 1st division; thesis submitted to the University on "Water Management in Summer Fodder Cowpea" based on field level experiments, data collection and statistical analysis**.
9. 2000—03: PhD. Allahabad Agricultural Institute- Deemed University, Allahabad. Thesis submitted on "Income, Saving and Investment of the Tribal Households in

Madhya Pradesh.” Pp 242. **9. 2000—03: PhD. Allahabad Agricultural Institute-Deemed University, Allahabad. Thesis submitted on “ Income, Saving and Investment of the Tribal Households in Madhya Pradesh.” Pp 242. Acclaimed as Best Thesis of the University.**

III. EXPERIENCE

1. 1982-84: Research Officer, Research Department, Indian Social Institute, New Delhi; completed two Research Projects connected with Environment and Forest (1) "**Forests and Forests Dwellers Economy in Orissa**" and (2) **a similar project in Madhya Pradesh. Traveled extensively in the tribal areas of Madhya Pradesh and Orissa.**
2. 1984-88: Consultant to social activists and field level trainers on issues related to environmentally sound agricultural projects.
3. 1984-87: **Director, Vocational Stream in agri. Related subjects**, St. Joseph's College, Jakhama, Nagaland, under the North Eastern Hill University, Shillong; Prepared the syllabus and text books for Animal Husbandry and Horticultural Courses.
4. 1984-87: Teaching “Introductory Animal Husbandry and Swine Production Courses at St. Joseph's College, Jakhama, Nagaland.
5. 1987-88: Training support on environmentally sound agricultural and other land management practices to social activists working in several parts of the country.
6. 1988-1998: Director, Department of Agricultural Education, Indian Social Institute, Lodhi Road, New Delhi.
7. 1988-90: Conducted survey to find out the number and type environmental and agricultural topics on which farmers and social activists are interested to have training programmes and literature and identified over 800 topics on which the social activists and rural farmers require training support.
8. 1989-90: Set up a documentation on environmentally sound rural technologies in Agriculture, Animal Husbandry, Natural Resource Management and Product Value Addition for the benefit of the social activists.
9. 1990-91: Began the preparation of training materials in the form of small booklets on various topics in Environment, Agriculture, Animal Husbandry, Natural Resource Management and Product Value Addition.
10. 1988-92: Director of Training programme of Indian Social Institute, New Delhi; reorganized and streamlined the training programmes of three departments.

11. 1989-93: Director, Project on the preparation of School Education Material consisting of about 30 lessons each on environmental and agricultural topics for classes 1 to 12 at the school level.
12. 1993-94: Established regular residential training programmes at the Institute on various subjects in Agriculture, Animal Husbandry, Environment, Natural Resource Management and Product Value Addition.
13. 1995: Set up a training module on Watershed Management for Ecological & Environmental balance which was recognized and recommended by the Ministry of Agriculture, Government of India to all the Officials of Watershed Management of the States and Union Territories.
14. 1996: Founder Member of an NGO called INSEDA (Integrated Sustainable Energy and Ecological Development Association), New Delhi.
15. 1997: On wards actively associated with "Ekta Parishad" an Indigenous People's Movement for Land Rights to Tribal in Madhya Pradesh where the forest environment and the people depending on the forests are in great peril.
16. 1998 onwards: Worked as Senior Fellow of the Institute, completed the preparation of training material in the form small booklets on various topics Agriculture, Animal Husbandry, Environment, Natural Resource Management and Product Value Addition.

IV. EXPERIENCE WITH NGOS

I work mainly through the Non- Governmental Organizations (NGOs) who are working for the welfare of the rural poor farming classes: such as scheduled classes, scheduled tribes, small and marginal farmers, landless agricultural labourers and the women belonging to these classes. I provide them with consultancy, technical help, training, evaluation of projects, plans for training centers, training modules etc. to promote environmentally sound agricultural, animal husbandry and land resource management projects and programmes. The following are some of the important projects and programs I was involved with the NGOs.

1. Prepared environmentally sound master plan for Sabha Matha Dairy Farm, Pariyaram, Kannoore Dist., Kerala, 1976.
2. Evaluation of the Sustainability of Bihar Water Development Programme, 1982.
3. Set up a Social Forestry Project under the joint forest management programme for the people of a few villages in Denkanal Dt, Orissa, 1983-84.

4. Design development and establishment of environmentally sound biological treatment of partially digested septic tank effluent, at St. Thomas Seminary, Imphal, Manipur, 1985.
5. Set up a model for ecologically sound organic farming model for small and marginal farmers with six different kinds of animal units and three agricultural units (nine-in-one), Loyola School tribal student's hostel land, Jakhama, Nagaland, 1986.
6. Established a modal forestry for arid region, Meghnagar, Jabua Dist., Madhya Pradesh, 1987.
7. Developed an environmentally sound piggery design for 50,000 pigs with inbuilt provision for the recycling of all the piggery waste, a piggery project to be submitted to funding agencies by an entrepreneur from Nagaland, 1986.
8. Prepared a model for a (design and establishment) piggery cum rabbitry for the Teachers Training School, at Phasama, Nagaland, 1986.
9. Prepared Farm Plans for sustainable management of the five parish lands of Indore Diocese, Madhya Pradesh, 1986-88. Some of the farm plans included animal husbandry with recycling of animal waste for better environment and sanitation, 1989.
10. Developed a general design model for the recycling of organic and water for the proper ecological management of land re-sources on the small and marginal farms, 1990.
11. Consultancy for the management of land and natural resources of Agricultural Training Centre, Namkum, Ranchi, Bihar, 1985.
12. Design development based on the ecological principles and setting up of Environmental & Agricultural Training Centre, Chandrapur, Ganjam Dt, Orissa, 1991-92.
13. Design development and establishment of fixed battery system of Rabbit rearing with provision for environmentally sound waste management and recycling, Pulpally, Wayanad Dist, Kerala, 1994.
14. Design development of “dismantling and refitting” type of rabbit housing, Kalady, Kerala, 1993.
15. Consultancy and design development for a commercial piggery unit based on the recycling of cassava waste at Kalady, Kerala, 1994.
16. Establishment of Agricultural Training Centre on the principle of Watershed management for Ecological Balance for the Wayanad Social Service Society, Mananthawady, 1992.

17. Consultancy to remodel, based on the principle of ecological balance, the land use pattern of Agricultural Training Centre of Trichy Social Service Society, Tiruchirappally, Tamil Nadu, 1993.
18. Consultancy and Staff Training Programmes on ecological management of land and other natural resources of ten Diocesan Social Service Societies in Tamil Nadu, 1989-94.
19. Consultancy and Staff Training for ecologically balanced farm management to Multipurpose Social Service Society, Tuticorin, Tamil Nadu, 1991-93.
20. Consultancy and design development for Eco-friendly Rural Development Programme, for the Diocese of Nagapur, Maharashtra, 1991.
21. Preparation of Plan for Environmental & Agricultural Education Programme for Karnataka Social Service Societies, Bangalore, 1991.
22. Setting up of Environmental & Agricultural Training Centre for staff development of PREM (NGO) working for the tribal people of Ganjam district, Orissa, 1991.
23. Consultancy and staff training on ecologically sound management of the hill slopes of high ranges of Kerala to the staff of Peerumadu Social Service Society, High Ranges, Kerala, 1991-92.
24. Consultancy and staff training for the ecological management of the water logged and low lying areas of Kerala to staff of Quilon Social Service Society, 1991-92.
25. Training Programme on proper farm waste management to the staff of Bathery Social Service Society, Wayanad dist., Kerala, 1991-92.
26. Programme Planning for the Vocational Education on environment, agriculture and animal husbandry at the school level for the Nepali Migrants of few villages of Darjeeling Dist., West Bengal, 1996.
27. Consultant to Krishi Vigyan Kendra, Hazaribagh, Bihar, 1990-92.
28. Organisation of Farmers Clubs, Wayanad District, Kerala, for the spread of organic farming among the farmers of that region, 1991-93.
29. Planning and setting up of training centre, Puthukottai, Tamil Nadu, for training local farming classes in environmentally sound farming systems, 1993-95.

30. Design development for incorporating the environmental aspects of land and cropping management into the tribal agricultural practices through the ongoing training programmes of “*Jagrut Kisans*” of Raigarh and Ambikapur dioceses of Madhya Pradesh, 1993-96.
31. Development of training module for training of NGOs in environmentally sound agriculture and related topics, 1993.
32. Set up a vocational course on environment and agricultural training at Loyola school, Mondgod, Hubbly Dt. , Karnataka, for the children of the Sidhi tribals who are originally from Africa, 1993.
33. Based on the principle of organic matter cycle and water cycle set up a model farming system consisting of home level cattle, poultry and rabbit rearing units with biogas plant and vegetable garden, at Prem Ashram, Una, Himachal Pradesh. 1994-95.
34. Prepared a syllabus and text book material for environmentally friendly management of animal units and vegetable production for the handicapped children of Vocational Education Centre at Prem Ashram, Una, Himachal Pradesh. 1996-97.
35. Set up an environment friendly home level rabbit rearing unit at NTPC school, Badarpur, Haryana, 1996.
36. Planned a Rural Environmental and Agricultural Technology Research, demonstration and Training Centre (REATRDT) at Katni, Madhya Pradesh to provide demonstration and training to the tribals of Madhya Pradesh on environmentally sound management of their land and forests, 1997.

V. PUBLICATIONS

A. Books and Reports

1. Written and edited **615 booklets in English** out of the 800 planned on various topics on “Environment, Agriculture, Animal Husbandry, Natural Resource Management and Product Value Addition; published by the Indian Social Institute, New Delhi.
2. General editor of 284 Hindi Version of the English Booklets mentioned above.
3. Text book written for the two year Intermediate Course, under Nagaland University (originally North Eastern Hill University Shillong) on “Introductory Animal Husbandry” published by the Indian Social Institute, 1985.
4. Text book on “Swine Production” for the two year Intermediate Course, under the Nagaland University (originally North Eastern Hill University Shillong, published by Indian Social Institute, 1985.

5. "Paddy Production", published by Indian Social Institute, New Delhi, 1987.
6. "Rabbit Rearing", published by Indian Social Institute, New Delhi, 1987.
7. " Matching Poverty Alleviation with Sustainable Land Use" published by ICCO / DGIS, the Hague, Netherlands, 1993.
8. "Evaluation Report" of the organization "VIKAS; Rural Technology Centre, Bhubaneswar, Orissa, 1995.
9. Edited a book on " Future of Indian Farming: Contract or Cooperative" published by Indian Social institute, New Delhi, 1998.
10. Prepared Text Book Material for classes one to twelve for Agricultural and Environmental Education at the school level, to be published.
11. Household Economy in Tribal India, Uppal Publication, New Delhi, 2004.

B. Articles

1. "Inequality and Injustices in Agricultural development, planning and policies" in Walter Fernandes (ed), Inequality, It's Basis and Search for Solutions (New Delhi, Indian Social Institute, 1986) Pp 101-127.
2. "Ecological Development with Justice to Man and Nature." In Trivedi (edtd) Global Environmental Education: Visions of 2001, (New Delhi, Indian Institute of Ecology and Environment, 1993) Pp171-187.
3. " Laws of Inheritance and Land Reforms:" Injustices Invisible I," Invisible Injustices Series in Legal News and Views, Sept 1990.
4. "A Dialogue: Injustice Invisible II," Invisible Injustices Series in Legal News and Views, Oct 1990.
5. "A Case Study of a Fishing Village: Injustice Invisible III," Invisible Injustices Series in Legal News and Views, Nov. 1990.
6. "A Case Study of a Social Forestry Programme: Injustice Invisible IV," Invisible Injustices Series in Legal News and Views, Dec 1990.
7. "Analysis of a Poultry Project: Injustice Invisible V," Invisible Injustices Series in Legal News and Views, Jan 1991.
8. "Survey on Environmental Awareness: Injustices Invisible VI" Invisible Injustices Series in Legal News and Views, Feb 1991.

9. “ Cruelty to Animals or to Human Beings? Injustices Invisible VII” Invisible Injustices Series in Legal News and Views, Mar 1991.
10. “Case Study of a Social Action: Injustices Invisible VIII”, Invisible Injustices Series in Legal News and Views, Apr 1991.
11. “Analysis of Social Action in the Present Agricultural Situation: Injustices Invisible IX” Invisible Injustices Series in Legal News and Views, May 1991.
- 12.”Green Revolution a Myth or a Reality- An Analysis: Injustices Invisible X” Invisible Injustices Series in Legal News and Views, Jun 1991.
13. “Are We self-sufficient in Food grains: Injustices Invisible XI” Invisible Injustices Series in Legal News and Views, Jul 1991.
14. “Analysis of a Dairy Project: Injustices Invisible XII” Invisible Injustices Series in Legal News and Views, Aug 1991.
15. “A Matter of Conscientisation: Injustices Invisible XIII” Invisible Injustices Series in Legal News and Views, Sept 1991.
16. “ Poverty Line: Injustices Invisible XIV” Invisible Injustices Series in Legal News and Views, Oct 1991.
17. “ Pigs in Politics: Injustices Invisible XV” Invisible Injustices Series in Legal News and Views, Nov 1991.
18. “Social Justice and Basic Requirements for Existence: Injustices Invisible XVI” Invisible Injustices Series in Legal News and Views, Dec 1991.
19. “ Social Justice and Requirements for Development: Injustices Invisible XVII” Invisible Injustices Series in Legal News and Views, Feb 1992.
20. “ Land for the Landless?: Injustices Invisible XVIII” Invisible Injustices Series in Legal News and Views, Mar 1991.
21. “ Justice for the Illiterate?: Injustices Invisible XIX” Invisible Injustices Series in Legal News and Views, May 1992.
- 22.” Who Makes the Rich Richer?: Injustices Invisible XX” Invisible Injustices Series in Legal News and Views, Jun 1992.
23. “Environmental Fever for Money: Injustices Invisible XXI” Invisible Injustices Series in Legal News and Views, Aug 1992.

24. “ Diabolic Dairy Programme: Injustices Invisible XXII” Invisible Injustices Series in Legal News and Views, Oct 1992.
25. “Face the Issues Squarely:- A challenge to NGOs”: Injustices Invisible XXIII” Invisible Injustices Series in Legal News and Views, Nov 1992.
26. “*Prakritiyile Maranavum Udhanavum (The Death and Resurrection in the Nature)*” Satya Deepam (Malayalam Weekly), 14th July 1993, P 1.
27. “*Karshika Prathisandhiyude Karanangal (The Reasons for the Stagnation in Agriculture)*” Satya Deepam (Malayalam Weekly), 14th July, 1993, p 2.
28. “*Jaiva Vala Ulpadanan (Production of Organic Manure)*” Satya Deepam (Malayalam Weekly), 5th Jan 1994, p 4.
29. “ *Keralathil Kudivellathine Varuthiyo (Is There Shortage of Drinking Water in Kerala)*” Satya Deepam (Malayalam Weekly), 23rd Feb. 1994, p 4.
30. “*Sasyangalude Aharam (Plant Nutrition)*” Satya Deepam (Malayalam Weekly), 3rd Aug 1994, p14.
31. “ *Sastriyamaya Kalithozhuthu (Scientific Cattle Housing)*” Satya Deepam (Malayalam Weekly), 17th Aug 1994, p14.
32. “ *Mannum Manushianum (Man and the Soil)*” Satya Deepam (Malayalam Weekly), 29th Jun 1994,p14.
33. “*Samuhya Pravarthanam Karshika Mekhalayil (Social Action in the Agricultural Sector)*” Kerala Jesuit (Malayalam Publ) Dec 1994 p 15.
34. “ Sustainable Land Use: The Role of NGOs”, ILEIA News Letter, Netherlands, Volume 9, No. 4, 1993.
35. “For Those Who Think Agriculture is not Important”, Asia Focus, 24th Oct. 1993.
36. “ Agricultural Situation in India”, ISI Bulletin, Vol. 2, No. 1, Jan-Mar 1994.
37. “ My Art Life” , *Sahrdya (Art Magazine)* Sept 1994.
38. “ Development of Hill Agriculture” in Kainath G.S. (ed) Developing Hill Agriculture, Regency Publications, New Delhi
39. “Population and Poverty: Malthus Revisits”, Indian currents, 15-21 Nov 1999.
40. “ Real thing Behind the Rumpus” India currents, 13-19 Dec. 1999.

41. "1000 Years: Plummeting Hopes and Soaring Fortunes: Third Millennium" Indian Currents 27th Dec 1999. Judged best among the requested articles by India Currents.

C. Papers Presented

1. "Ecological Development with Justice to Man and Nature" International Environmental Symposium Organized by the Indian Institute of Environment, New Delhi, 1993.

2. "Sustainable Farming and Farmer", International Workshop on sustainable Farming and Environment, organized by UPASI research and Development Centre, Kottayam, 28th to 30th April 1993.

3. "Development with Justice", Workshop of Agriculture and Ecology, organized by Kerala Social Service Societis Forum , Nagambadam, Kottayam, 4th to 6th Nov 1992 at Mananthawady, Wayanad Dist. Kerala.

4. "Social Justice, Environment and Agriculture", Paper presented at the staff meeting of Indo-German Social Service Society, New Delhi, Sept 1991.

5. "Poverty Alleviation and Sustainable Land Use", ICCO and ICCO Partners, National Workshop, Anantapur, 9th to 11th march, 1994.

6. "Perspectives of Environmental Ethics" Symposium on Environmental Ethics, Sathya Nilayam: College of Philosophy, Madrass, Aug 1994.

7. "Forest Workers in India; Status, Problems, Laws and Policies & Movements" (A Perspective Plan Paper for Improving Their Conditions: A Concept of Just Family Wage), organized by the National Centre for Labour , New Delhi.

8. "Food Security and Ecological Security", Seminar on Crisis of Agriculture and Food Security organized by the research Foundation for Science, Technology and Ecology, New Delhi, 1998.

9. "Coordination Between Different Developmental Agencies for a Unified Participatory Watershed Management", National Workshop on Watershed Management: Towards a Unified Participatory Approach, organized by the Indian Social Institute, New Delhi, 1999.

10. "water shed Management for Rural Development: Based on the Experience of Maharastra watershed Management Programme, by the Social Centre, Ahmednagar and Indo-German Watershed Development Programme, at the International Conference on Population and Poverty, New Delhi, 1999.

VI. SEMINARS, WORKSHOPS & TRAINING PROGRAMMES

1. Conducted about 530 training programs, seminars and workshops, (average 30 per year) for the last 18 years (1982-1999) to the NGOs spread throughout the country. They were conducted at the local, regional and national level on various topics related to Environment, Agriculture, Animal husbandry, Natural Resource Management and Product value addition. The duration of these programmes vary from three days to two months: the participants were consisting of field level animators to the directors of organizations and project managers of NGOs, Government Officials and academicians.

2. During the last 18 years of my work at Indian Social Institute I conducted about 100 awareness and motivation programmes on environmental problems, sustainability of environment, environmental impact on agriculture and animal husbandry practices, rural marketing, environmental exploitation and poverty, forest and environment, management of natural water resources, organic matter preservation, soil and water management for sustainable environment, soil-water-air-light-heat-microorganisms-plants-animals and human relationship, ecosystems, environmental pollution, safe use of pesticides, land use patterns for ecological balance, maintenance of percolation tanks, air pollution, water pollution, environmental sanitation in the villages, efficient use of crop and animal wastes, integrated pest management for ecological balance, integrated nutrient management for ecological balance, organic matter recycling, waste water recycling etc. for social activists and developmental workers in various parts of India.

3. Conducted National Seminar on "Contract Vs Cooperative Farming", at Indian Social Institute, New Delhi, 1996.

4. Conducted two day workshop on "Sustainability of the Present Agricultural Systems", Mahatma Gandhi University, Kottayan, Kerala, 1999.

VIII. INTERNATIONAL SEMINARS & WORKSHOPS PARTICIPATED

1. International Environmental Symposium organized by the Indian Institute of Environment, New Delhi, 1993.

2. International Workshop on Sustainability Management, Nijenrode University, Netherlands, 1995.

3. International Workshop on Biogas Technology, Bio-gas Research Technology Centre, Chengudu, China, 2nd to 26th October 1995.

4. International Workshop on Sustainable Timber Production, Rabual, Papua New Guinea, Organised by ICCO, Netherlands and Asia Pacific Foundation, Rabual. Papua New Guinea, 1996.

5. International Consultancy on Rural Development Strategies, Organized by Christian Aid, London, England, 1997.

IX. RESEARCH & DEVELOPMENT OF ENVIRONMENTALLY SOUND APPROPRIATE TECHNOLOGIES

To evolve environmentally sound appropriate rural technologies in a participatory way informal research seems to be the best methodology. Informal Research is the type of research done at the people's level with their participation to study a specific problem or situation, to find solution to any problem, to improve some farm practices or to evolve some improved environmental and agricultural rural technologies. This is more suitable for the rural people as it involves less of finance, man power and complicated statistical analysis. The people themselves evaluate the out come of such research projects. Most of the informal researches are published under the Programme for Agricultural Education, Indian Social Institute (ISI), New Delhi.

1. "Planting & Care of Trees (1985) Booklet No. 21, Indian Social Institute, New Delhi, 1991.
2. "Rabbit Housing", (1984) Booklet No. 204, Indian Social Institute, New Delhi, 1993.
3. "Rabbit Feeding", (1984) Booklet No. 45, Indian Social Institute, New Delhi, 1991.
4. "Better Methods of Terracing the Slopes", (1985) Booklet No. 133, Indian Social Institute, New Delhi, 1992.
5. "Home Level Poultry Keeping", (1985) Booklet No.135, Indian Social Institute, New Delhi, 1992.
6. "Sustainable Kitchen Garden", (1986) Booklet No.144, Indian Social Institute, New Delhi, 1993.
7. "Composting for Village Sanitation", (1986) Booklet No. 146, Indian Social Institute, New Delhi, 1993.
8. "Pig Housing", (1986) Booklet No. 191, Indian Social Institute, New Delhi, 1993.
9. "Pig Breeding", (1986) Booklet No. 193, Indian Social Institute, New Delhi, 1993.
10. "Social Justice and Basic Needs", (1990) Booklet No. 233, Indian Social Institute, New Delhi, 1993.
11. "Problems of Sustainable Farming", (1991) Booklet No. 238, Indian Social Institute, New Delhi, 1993.

12. "Social Forestry Model", (1991) Booklet No. 2, Indian Social Institute, New Delhi, 1991.
13. "Nursery Techniques", (1991) Booklet No. 5, Indian Social Institute, New Delhi, 1991.
14. "Forest Situation in India", (1991) Booklet No. 9, Indian Social Institute, 1991.
15. "Indian Farmer at Cross Roads", (1992) Booklet No. 243, Indian Social Institute, 1993.
16. "Alternatives to Shifting Cultivation", (1991) Booklet No.248, Indian Social Institute, 1993.
17. "Farm Forestry", (1991) Booklet No. 257, Indian Social Institute, 1993.
18. " Intensive Rabbit Breeding." (1985), Booklet No. 205, Indian Social Institute 1993.
19. "Agricultural Technology for Small and Marginal Farmers", (1990).Booklet No. 253, Indian Social Institute, 1994.
20. "Quail Housing", (1991) Booklet No. 309, Indian Social Institute, 1994.
- 21."Organic Matter in the Ecosystem", Booklet No. 388, Indian Social Institute. 1994.
22. "A Model for the Land Reform India", (1993) Booklet No. 352, Indian Social Institute, 1994.
23. "Right to Subsistence Level Diet", (1993) Booklet No. 351, Indian Social Institute, 1994.
24. "Water in the Ecosystem" (1993) Booklet No. 334, Indian Social Institute, 1994.
25. "Natural Hatching of Eggs", (1992), Booklet No. 321, Institute Social Institute, 1994.
26. "Coconut Based Cropping System", (1993) Booklet No. 261, Indian Social Institute, 1994.
27. "Increasing Food Production to Feed One Billion", (1991) Booklet No. 24, Indian Social Institute, 1992.
28. "Multiple Cropping", (1992), Booklet No. 136, Indian Social Institute, 1993.
30. "Agro-Forestry", (1993) Booklet No. 138, Indian Social Institute, 1994.
31. "Models for Small and Marginal Farmers", (1992) Booklet No. 137, Indian Social Institute, 1994.

32. "Goat Housing", (1992) Booklet No. 209, Indian Social Institute, 1994.
33. "Use of Roof Water (1986) Booklet No.542, Indian Social Institute, 1997.
34. " Design of Eel Culture Ponds", (1996), Booklet No.558, Indian Social Institute, 1998.
35. "Eight in One Integrated Farming System: Five Animal Units, Fish, Compost and Kitchen Garden one each Unit", (1986), to be published.
36. " Cultivation of Vegetable on the Terrace of the House, (1994) Booklet No. 595, Indian Social Institute, 1998.
- 37."Height Difference Finder", to determine the height variations between various points spread out in an area. (1993) to be published.
38. "Multipurpose Topographical Survey Instrument", (1988) to be published.
39. Organic Matter and Water Cycle", (1995) to be published.
- 40."PEACE MODELS"" Popular, Environmental and Agricultural Community Education for Mobilizing and Organizing to Develop Environmental Living Systems (1995-1998), to be published.
41. "Low Cost Semi-automatic Rabbit Feeders for Home Level Rabbit Rearing.", (1995), to be published.
42. "Low Cost Feeders for Home Level Poultry Keeping." (1995), to be published.
43. "Home Level Domestic Waste Water Recycling for Home Level Vegetable Production." (1992), to be published.
44. "Protective Measures for Percolation Tanks Against Silting. (1997), Booklet No. 576, Indian Social Institute, 1998.
45. "Minimum Time-Motion Housing System for Small Scale Poultry" (1996) to be published.
46. " Designs for Frog Ponds" (1996) Booklet No. 561. Indian Social Institute, 1998.
47. "Designs for Crab Culture" (1997) to be published
- 49."Design for Digestion of Domestic Sewage for Fuel and Environmental Sanitation" (1996) to be published.
- 50."Designs for Crab Culture" (1997) to be published.

51. " Preservation Natural Water Resources (1997), Booklet No. 607, Indian Social Institute, 1999.

52. " Silo-Method of Composting for Environmental Sanitation and Organic Manure." (1997), to be published.

53." Design for Village Level Environmental Sound Biomass Decomposition Unit cum Village Level Animal Units for Efficient Utilization of Liquid and Solid Animal Wastes" (1998), to be published.

54. "Design for Efficient Core Wall for Small Earthen Dams. 1997), Booklet No. 579, ISI, 1998.

X.BIOGRAPHICAL REFERENCES

1. Indian Directory of Environment, Edited. Prof. P.R. Trivedi, Indian Institute of Environment, 1991, page 112.

2. Reference India, Vol 2, Biographical Note about Men & Women of Achievement of Today & Tomorrow, Edited., Ravi Bhushan, Rifacimento International publications, Delhi, 1993, page 77.

3. ILEIA-LEISA-Network in India, ILEIA & ETC India, 1994, p 35.

4. Indo-American Who's Who, Vol 1, ETD., Ravi Bhushan, FI Publications, Delhi, 1994, page 116.

5. Indo-European Who's Who, Vol 1, ETD., Ravi Bhushan, FI Publications, Delhi, 1996, page 135.

6. The Organic Farming Source Book, The Other India Press, Goa, India & Third World Net Work, Penang, Malaysia, 1996, page 191.

7. International Programmes on the Management of Sustainability Participant Directory, ETD. Ida Koppen, Sustainability Challenge Foundation, Hague, Netherlands, 1997, pages 1994 batch.

8. World Directory of Environmental Organizations, Shiva Vandana, Indian Institute of Ecology and Environment, New Delhi, A.P.H. Publishing Corporation, New Delhi, 1997, page 177.

9. Indian Directory of Environmental Organizations, Shiva Vandana-Delhi 1997, Page 153.

11. Reference Asia, Vol 11, Asia's who's who of Men & Women of Achievement, edited. Ravi Bhushan, Rifacimento International, New Delhi, 1998, Page 55.
12. Dictionary of International Biography, International Biographical Centre, Cambridge, England, 1998.
13. Directory International Biography, American Biographical Institute, United States of America, 1998.
14. Indo-American Who's Who, Vol 20 ETD., Ravi Bhushan, FI Publications, Delhi, 1999, page 141.
15. Asian-American Who's Who, Vol.1, ETD. Ravi Bhushan, Refacimento International, 1999, page 127.
16. Curriculum Vitae International: world's Who's Who of Men & Women of Distinction, Asia Edition, International Biographical Research Foundation, Nagapur, 1997, p 254.
17. International Book of Honour, 5th Edition, American Biographical Institute, USA, 1998, p51,.
18. Millennium Hall of Fame: Premier World Edition, American Biographical Institute, USA, 1999, p62.
19. Best Citizen of India Award, 1999, International Publishing House, New Delhi, P 34.

XI. Citations & Awards Received

1. Certificate of inclusion in Curriculum Vitae International "World's Who's who of Men and Women of Distinction", Asia Edtn., Vol 1. by International Biographical Research foundation, New Delhi, 1997.
2. Letter of Recognition of training by the Ministry of Agriculture, Government of India, on Watershed management, Constituted and Conducted by me as Head of the Department Agricultural Education, Indian Social Institute, New Delhi. dated 22-12-1997.
3. Distinguished Leadership Award, issued by American Biographical Institute, U.S.A., as being included in the "The International Directory of distinguished Leadership", 8th Edition., for Outstanding contributions to the Teaching Profession. 1998.
4. Pictorial Testimonial of Achievement and Distinction, International Biographical Centre, Cambridge, England, as included in the Dictionary of International Biography, 26th Edtn., dated 5-2-1998.

5. Outstanding People of 20th Century, for the Outstanding Contribution to Agricultural & Environmental Education, issued by International Biographical Centre, Cambridge, England, dated 17th Feb 1998.

6. A Medal from the same organization inscribed on it "Outstanding People of 20th century. Fr. K.T. Chandy S.J."

7. Citation of Meritorious Achievement for the Recognition of achievement in Agricultural Education, as included in the Dictionary of International Biography, by the International Biographical Centre, Cambridge, England, dated 29th Jan 1998.

8. Inclusion into the "Millennium Hall of Fame" for the significant contributions to the international society during the twentieth century, as being included in the "1998 World Premier Edition of the Millennium Hall Fame", dated 10th Mar 1998.

9. **Best Citizens of India Award: 1999** with citation " For his creative and exceptional contribution to the field of Popular Agricultural Training and Extension, as an Agricultural Scientist, Agricultural & Environmental Educationist besides being a Social Worker, ultimately helping the poor farmers.

10. **Gold Medal Inscribed " 2000 Millennium Medal of Honour**, Fr. K.T.Chandy S.J. from American Biographical Institute, USA.

XII. VISION OF MY WORK

Since 1968, I am interested in Agricultural Education for the benefit of the rural poor farming classes in India. Agricultural Education basically is an extension programme providing training, consultation and distance learning on various topics in environment, agriculture, animal husbandry, natural resource management and product value addition. A total of more than 800 topics have been identified from the farmers and from people who work among them. All these topics can be grouped under the main subject ENVIRONMENT and hence I took at every human activity from the environmental point of view.

The impetus for this Environmental programme come first of all from the critical understanding of socio-economic and political situation of the rural poor farming classes. The rural poor farming classes consists of tribal, scheduled castes, dalits, small and marginal farmers, agricultural laborers and the women folk of these classes. Socially and economically they are in worst conditions in the society and are the victims of various kinds of social injustices. Secondly the massive environmental destruction that is happening progressively in the use of the land and other natural resources. Social injustices in the rural areas have an intimate linkage with the present situation of the environmental and agricultural sector precisely because of the following reasons.

1. Man's basic requirements for his existence and development are derived from agriculture and his environment.

2.Vast majority of the rural families are directly depending on agriculture and their immediate environment: especially the women folk who are doing most of the works related to agriculture and animal rearing.

3.Vast majority of the school children drop out from the schools by the time they reach the 10th standard and turn to agriculture and allied activities for their subsistence. In this process irreparable damage is being done to the environment. Hence it is very important to provide them with education in agriculture and allied subjects from the point of view of the sustainability of environment.

5.India has very high potential for agricultural production; yet the productivity of most of the crops and animals still remain very low (one of the lowest in the world) and, the families involved in farming are ignorant of the improved scientific and technical know-how and are struggling to make a living. Their struggle on the land and the low productivity are intimately related to the environment and the ecosystem in which we live and move. We need to conduct agricultural education programmes for these people at the grass root level in order to improve the productivity of the crops and animals and at the same time maintain the sustainability of the environment.

Through a comprehensive environmental and agricultural education programme I am promoting a Popular Environmental Agricultural Community Education to Mobilize and Organize to Develop Environmental Living Systems (PEACE MDDELS) so that people learn to live in Peaceful Coexistence with Nature.

Finally I hope to promote the idea of natural resource management including Sustainable Production, Processing and Marketing (PPM) by the local people by combining the principles and practices of Environmentally Sound Watershed Management and Panchayati Raj System managed by the people.

XII. HOBBY

1. Drawing and Painting
2. Reading biographies, philosophy, religion and culture
3. Study of Nature and the Universe, Eternal Cosmic Energy and Cosmic Communion of all Things in Nature.

Dr.K. T. Chandy
New Delhi
01 -01 - 2004