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Qualification:

Ph.D. (Horticulture), IARI, New Delhi

Specialization:

Floriculture & Landscaping

Professional Experience:

18 years experience in research and extension in floriculture and 4 years administrative experience as officiating Joint Director, 3 years experience as KVK i/c at ICAR A.P. Centre, Basar and 2½ years experience as i/c, Horticulture Division, ICAR Research Complex for NEH Region, Umiam, 3 months experience as i/c Tissue Culture Section at CPRS, Upper Shillong and presently, continuing as i/c Horticulture Section, NRC for Orchids, Pakyong



Publications:

- a) Research papers: 65
- b) Popular articles: 33
- c) Books: 12
- d) Book chapters: 25
- e) Bulletins: 19
- f) Manuals : 8
- g) Research abstracts: 54
- h) Reports: 20

Training (International): Nil

Training (National):

Title	Duration	Institution	Year
Farm training	March-August	Seed Farm, Susunia, Bankura, West Bengal	1990
54 th FOCARS	23 rd Jan-20 th June	NAARM, Rajendernagar, Hyderabad	1996
Commercialization of Floriculture	24 th January	Agartala, Tripura	1998
Development of Commercial Floriculture in Rural Areas	25 th January	Agartala, Tripura	1999
Development of Commercial Floriculture	24 th January	Agartala, Tripura	2000
Cultivation of high value flowers and ornamental plants	24 th January	Agartala, Tripura	2001
MDP in Agricultural	3 rd -7 th December	NAARM, Rajendernagar, Hyderabad	2012

Research			
MDP on PME of Agricultural Research Projects	18 th -22 nd June	NAARM, Rajendernagar, Hyderabad	2013

Recognition:

- Member of Policy making Body to formulate schemes on Research and Development in Food Processing Sector, Govt of Tripura
- Active participation in meeting with Farmers Commission of India under the Chairmanship, Dr. M.S. Swaminathan for framing time bound programme in agriculture and allied sectors of different states of NEH Region
- Member of the 9th State Level Steering Committee under Mini Mission-II on Horticulture, Govt of Meghalaya
- Member of Steering Review Committee of Mini Mission - I under the Chairmanship of Dr. Mangala Rai, The Secretary, DARE and Director General, ICAR on 'Technology Mission of Integrated Development of Horticulture in the North Eastern States, Sikkim, J&K, H.P. and Uttaranchal'.
- Member of IPR issues, ICAR, Umiam
- Member of Library Advisory Committee, ICAR, Umiam
- Executive Councillor, Indian Society of Ornamental Horticulture, Division of Floriculture and Landscaping, IARI, New Delhi-110012
- Member, IMC, NRC for Orchids, Pakyong, Sikkim w.e.f. 30th July, 2009
- i/c, PME Cell & Technical Cell, NRC for Orchids, Pakyong, Sikkim
- Member Secretary, IRC, NRC for Orchids, Pakyong, Sikkim
- Member Secretary, Orchid Task Force under PPV & FRA(9/2009, 10 /2011, 3/2012)
- Member Secretary, RAC (2012-2014), NRC for Orchids, Pakyong, Sikkim
- Member of Local Organizing and Reception Committee, International Conference on Organic Food held from 15th -17th February, 2004 at ICARRC NEHR, Umiam
- Member of National Organizing Committee, National Symposium on Citriculture, 22nd-24th February, 2006 at ICAR (RC) NEHR, Umiam
- Local Convener, 2ND Indian Horticulture Congress, 18th-21st April, 2007 at ICAR (RC) NEHR, Umiam
- Co-Chairman, Session-V, National Seminar on Orchid-Ecology, Distribution and Conservation held at Almorah from 19th -21st March, 2010
- Member, National Advisory Committee, National Symposium on Floriculture Scenario in the changing Global perspective held from 16th-18th April, 2010 at BCKV, Kalyani
- Convener, National Consultation for Production and Utilization of Orchids held from 18th 21st February,

2011 at NRC for Orchids, Pakyong, Sikkim

- As Co-Chairman, (Session-III)-Propagation and Improvement, Member, Poster Judging Committee, National Conference on Orchids: Conservation, Improvement and Sustainable Development & Orchid Show held at KAU, Trichur, 13-15th March, 2014.
- As Co-chairman in International Conference in Landscape and Urban Horticulture at Kolkata from 12th - 14th September, 2013.
- As invited speaker in International Conference on Agri-Horticultural Sciences at Hyderabad w.e.f 2nd -5th February, 2014.

Award:

- HSI Gold Medal in Floriculture in 2011, Best Paper award on 'Post-harvest Technology of Cymbidium Orchids' in 5th IHC, 2012, Fellowship of HSI in 2013 for development in floriculture

Membership/Positions:

Name of the Society	Membership/Positions
Orissa Horticultural Society	Life Member
The Horticultural Society of India	Life Member
Indian Society of Ornamental Horticulture	Patron Member & Executive Councillor
The Orchid Society of India	Life Member
Indian Association of Hill Farming	Life Member
Indian Journal of Plant Physiology	Life Member
Indian Society of Citriculture	Life Member

ORGANISATION OF MEETING/TRAINING PROGRAMMES

Sl.No	TOPIC	PARTICIPANT	VENUE	PERIOD	Organization Level
1	Training on Orange propagation and production technology	Farmers, Tripura	Umiam	27 th -30 th May, 2006	Training Organizer
2	Training on Horticultural crops	Farmers, Meghalaya	Umiam	20 th -22 nd June, 2006	Training Organizer
3	Training on Improved package of practices of	Farmers, Meghalaya	Ranikor, West Khasi Hill,	26 th -28 th June, 2006	Training Organizer

	major horticultural crops				
4	Training on Propagation of Forest trees	Forest trainees, Shillong	Umiam	6 th -8 th July,2006	Training Organizer
5	Review Meeting in Horticulture	Scientists of discipline of horticulture from HQ and Regional Centre	Umiam	28 th October, 2006	Organizing Secretary
6	Training on Improved Production and Post-production Management of high value horticultural crops for NEH Region	Technical Officers (T-6) and SMS, KVK's of NE Region	Umiam	3 rd December to 9 th December, 2006	Training Organizer
7.	Awareness Programme on Value added products from fruits and vegetables in NE Region	50 Farmers, Ri-Bhoi District, Meghalaya	Umiam	4 th –6 th January, 2007	Training Organizer
8.	Training on Production and Post-production Management of Flower Crops	30 Farmers, Meghalaya	Umiam	28 th -29 th March, 2008	Training Organizer
9.	Brainstorming Session on Orchids-Recent Issues and Strategies –as Organizing Secretary	58 (Experts, Deputy Director, Joint Director, Head, Scientists & Progressive Growers	NRC for Orchids, Pakyong, Sikkim	25 th May, 2009	Organizing Secretary
10.	Commercial Cultivation of Cymbidium- As Course Coordinator	28 Farmers of Sikkim	NRC for Orchids, Pakyong, Sikkim	29 th July- 31 st July, 2009	Course Coordinator
11	Commercial Cultivation of Cymbidium- as Course Coordinator	50 Farmers of Sikkim	NRC for Orchids, Pakyong, Sikkim	11 th Aug- 14 th , 2009	Course Coordinator
12	On The Job Training for Horticulture	5 students of Class XII under Vocational Stream, HRDD, Govt. of Sikkim	NRC for Orchids, Pakyong, Sikkim	16 th November- 12 th December, 2009	Training Organizer
13	8 th IRC, NRCO	Chairman, Members and Scientists of NRCO	NRC for Orchids, Pakyong, Sikkim	11 th December, 2009	Member Secretary
14	MTC for 'Recent Trends in Floriculture Improvement'	14 Officers of line Deptt. from Sikkim, Assam, Meghalaya, Orissa, H.P.,	NRC for Orchids, Pakyong, Sikkim	11 th -18 th January, 2010	Course Director

		Punjab & Kerala			
15	Meeting with Dr H.W. Pritchard, Project Leader, OSSSU, RBG, Kew (UK)	Scientists, RA's and SRF's, NRCO, Pakyong	NRC for Orchids, Pakyong, Sikkim	2 nd February, 2010	Director i/c
16	First Seating of Orchid Task Force for DUS Testing on Orchids	Chairman, Members, Registrar and Registrar General, PPV & FRA	NRC for Orchids, Pakyong, Sikkim	24 th -25 th February, 2010	Member Secretary
17	Second Seating of Orchid Task Force for DUS Testing on Orchids	Chairman, Members, Registrar and Registrar General, PPV & FRA	College of Horticulture, KAU, Trichur	22-24 September, 2010	Member Secretary
18	Final Meeting of Orchid Task Force for DUS Testing on Orchids	Chairman, Members, Registrar and Registrar General, PPV & FRA	PPV & FRA, NASC Complex, PDS Marg, New Delhi, Pusa-110012	29 th -30 th August, 2011	Member Secretary
19	10 th IRC	Experts and Members	NRC for Orchids, Pakyong, Sikkim	30 th December, 2011	Member Secretary
19	One Day Training-cum-Awareness Programme on PPV & FR	Dean, CAE & PHT, Joint Director (Floriculture) HCCD, Govt. of Sikkim, Deputy Registrar, PPV & FRA	NRC for Orchids, Pakyong, Sikkim	24 th January, 2012	Nodal Officer
20	Ist Stake Holders Meeting	Dean, CAE & PHT, Joint Director (Floriculture) & Deputy Director, HCCD, Govt. of Sikkim, Representatives from SIMFED, NHB, NABARD, KVK, Darjeeling Garden	NRC for Orchids, Pakyong, Sikkim	26 th March, 2012	Member Secretary
21	1 st Meeting of Orchid Task Force for preparation of DUS test guidelines in <i>Phalaenopsis</i> and <i>Cattleya</i>	Chairman, Members, Registrar and Deputy Registrar, PPV & FRA	Regional Office, PPV & FRA, AAU, Khanapara campus, Guwahati	3 rd -4 th May, 2012	Member Secretary
22	1 st Meeting of 5 th RAC, 2012 of NRCO	Chairman, Members, Special Invitee, IMC Nominee, Progressive Farmers	NRC for Orchids, Pakyong, Sikkim	5 th -6 th June, 2012	Member Secretary
23.	2 nd Meeting of 5 th RAC,	Chairman, Members,	NRC for Orchids,	23 rd -24 th	Member

	2013 of NRCO	Special Invitee,scientists, IMC Nominee, Progressive Farmers	Pakyong, Sikkim	September, 2013	Secretary
24	1 st Meet of Orchid Task Force (3/2012) for preparation of DUS Test Guidelines in <i>Paphiopedilum</i> and <i>Oncidium</i>	Chairman, Members, Registrar , PPV & FRA, NASC Complex, New Delhi	Centre for Orchid Conservation of Eastern Himalayan Region, Hengbung, Senapati Distt. Manipur	20 th -21 st March, 2013	Member Secretary
25	One Day Training-cum-Awareness Programme on PPV & FR Act, 2001	Chairman & Members, Task Force, JD & Scientists, ICAR Manipur Centres, Scientists, Research workers and other staff , Centre for Orchid Gene Conservation of Eastern Himalayan Region, Sylan KVK, Senapati Dist, FEEDS, Hengbung	Sylan KVK/ FEEDS, Senapati Distt. Manipur	21 st March, 2013	Nodal Officer
26	2 nd Meet of Orchid Task Force (3/2012) for preparation of DUS Test Guidelines in <i>Paphiopedilum</i> and <i>Oncidium</i>	Chairman, Members, Registrar , PPV & FRA, NASC Complex, New Delhi	NRC for Orchid, Pakyong, Sikkim	30 th -31 st January, 2014	Member Secretary
27.	One Day Training-cum-Awareness Program on PPV & FR Act, 2001	Chairman & Members, Task Force, JD & Scientists, ICAR Sikkim Centre, Scientists, Research workers and other staff from Spice Board, G.B.Pant Institute, KVK , Ranipool, and Farmers of Sikkim	NRC for Orchids, Pakyong, Sikkim	31 st January, 2014	Nodal Officer
28.	North East Agri-Fair, organized by CAE & PHT (CAU), Ranipool, Sikkim	Scientists, Officers and Farmers of North East Region	Saramsa Garden, Sikkim	25-27 th February, 2014	Organizer
29.	3 rd Meet of 5 th RAC	Chairman, Members, Special Invitee,scientists, IMC Nominee, Progressive Farmers	NRC for Orchids, Pakyong, Sikkim	12 th -13 th June, 2014	Member Secretary

Radio talks / TV shows (Title and date)

1. Title: Enhanced Productivity of Horticulture Crops through better Management Practices (TV Shows)
Date: D/R 21/6/2006 (D/T 7/7/2006)
2. Title: Orchids: Flowers that smile (Radio talks):
Date : D/R 20/8/2010 (D/T 24/08/2010)

Monitoring of Projects /Schemes

- Standardization of agrotechniques for cut flowers and their post-harvest handlings
- Collection, evaluation and standardization of agrotechniques in gerbera, gladiolus and rose
- NATP on "Development of IPNS for vegetable and fruit production system.
- Technology mission on "Integrated Development of Horticulture in North East India including Sikkim."
- Evaluation of tropical and subtropical fruit trees for mid hills of Arunachal Pradesh"
- Evaluation of multipurpose trees to develop agro-forestry based farming systems"
- Introduction, evaluation and multiplication of improved varieties of tropical and subtropical vegetables and ornamental'
- Assessment of Technology on watershed based Integrated Farming System in NEH Region
- Collection, evaluation and standardization of agrotechniques in gerbera, gladiolus and rose
- Post-harvest Technology of Orchids
- DUS Testing & Mega Seed Project on Orchids (ongoing)
- Production Management of Tropical & Subtropical Orchids

Brief Achievements :

- **Identification of rootstocks for budding of mandarin oranges and Rejuvenation of citrus through pruning for North Eastern Hill Region:** 14 varieties of sweet oranges, 8 varieties of mandarin, 10 species of citrus rootstocks, one variety each of acid lime and Assam lemon evaluated. *Citrus medica* (Tanyum) as early bearing and dwarf rootstocks for hill mandarin, khasi mandarin, Sikkim orange and nagpur santra, *C. latipes* for hill mandarin and *C. volckamariana* for khasi mandarin were identified and tested. In Rejuvenation (dehorning) trials of Khasi mandarin and Acid lime, pruning at 1.0m, 1.5m primary branches have been found effective and plants started bearing fruits (100-220/tree and 185-237, respectively) in third year.
- **Collection, evaluation and post-harvest utilization of indigenous fruits of NE Region:** Out of 21 species of local fruits collected, physiochemical characteristics of 14 local fruits were analysed, Taktir, buri and Tader were exploited for squash preparation and Belam, Doglie, citron, Dogyo as medicinal plants.
- **Development IPNS for Vegetable Production System:** Trend in productivity of bhindi and tomato upon application of organic sources found as FYM>NPK>cowpea straw> Gliricidia leaf under tiland of Tripura
- **Production management of tropical and sub-tropical orchids:** Orchid hybrids of *Cymbidium*, *Dendrobium*, *Vanda*, *Phalaenopsis*, *Cattleya*, *Mokara*, *Oncidium* and *Aranda* suitable for different altitudes identified. Pot mixes suited for commercial cultivation of *Cymbidium* (Cocochips + Cocopeat + Brick pieces + Slow release fertilizer (3: 3: 1: 1g), *Dendrobium* (Coco peat + brick pieces + tree bark (1: 1: 1) and *Cattleya* (Cocochips + brick piece + leaf mould/ leaf fern (1:1:1) standardized. Techniques for round the year cultivation of *Dendrobium* developed by selecting different hybrids developed.

- **Post-harvest Technology of orchids:** A number of hybrids of *Cymbidium*, *Dendrobium*, *Vanda*, *Mokara*, *Oncidium* and *Aranda* orchids evaluated for their vase life. Stages of harvest of different classes of *Cymbidium* (Two buds open stage) and *Dendrobium* (50% bud open stage) orchids standardized for improved vase life. Chemical preservatives for pulsing (5% sucrose), impregnation (1000 ppm CoCl₂), bud opening (4% sugar +200 ppm salicylic acid) and vase solutions (2% sucrose + 200ppm 8-HQC) of *Cymbidium* and *Dendrobium* orchids identified for enhanced vase life. Suitable packaging materials (cellophane papers) identified for packaging of *Cymbidium* orchids.
- **Development of DUS Test Guidelines of commercial orchids under PPV & FRA:** The three genera of orchids viz. *Cymbidium Sw.*, *Dendrobium Sw.* and *Vanda Jones ex R. Br.* are eligible for registration under Act upto 26th March, 2015. Guidelines of two genera : *Cattleya Lindl.* and *Phalaenopsis Blume* are finalized and published in PVJ of India and notified during April, 2014 for registration. 2nd Meet of Orchid Task Force (3/2012) was held at NRC for Orchids, Pakyong, Sikkim on 30th -31st January, 2014 and morphological descriptors of *Paphiopedilum* (76) were finalized and DUS Test Guidelines of *Oncidium* finalized and submitted to Plant Authority. DUS test Guidelines of *Oncidium* is published in PVJ of India, April, 2014 issue.
- **Round the year cultivation of tuberose, gladiolus and marigold under agro-climate of Tripura:** by using varied genotypes, management of climatic requirements and agronomic practices. Out of 21 genotypes, Friendship, Her Majesty, Jester Gold, Pusa Archana, Pusa Sagun, White Prosperity and Novalux were found promising.
- **Protected cultivation of gerbera for NEH Region:** Out of 21 cultivars, Piton, Monarch, Rosalin, Pink Elegance, Black Heart and Alsmeera were found promising under 50% shade net.

Selected Publications

Research Papers

Sl. No.	Author(s)	Year	Title	Journal
1.	De, L.C. and R.L. Misra	1993	Genetic diversity in gladiolus	<i>Indian J. Plant Genet. Resources</i> , 6(1) : 9-14.
2.	De, L.C. and R.L. Misra	1994	Variability studies in gladiolus	<i>Indian J. Plant Genet. Resources</i> , 7(2) : 189-92
3.	De, L.C. and R.L. Misra	1994	Studies on correlation and path. -coefficient analysis in gladiolus.	<i>J. Orn. Hort.</i> 2 (1/2): 14-19
4.	Sharma, C.K., D. Barman,, I.P. Singh and L. C. De	1995	Effect of spacing on tuberose (<i>Polianthes tuberosa</i> L.)	<i>J. Hill Research</i> 8 (2): 271-27

5.	De, L. C., S, K. Bhattacharjee and R.L. Misra	1995	Evaluation of promising gladiolus germplasms on the basis of post-harvest life and quality of cut spikes	<i>Progr. Hort.</i> , 27 (3/4): 183-189
6.	Barman D., C.K. Sharma I.P.Singh, S.Sardana and L.C. De	1995	Genetic variability in exotic lines of tomato (<i>Lycopersicon esculentum</i>) in off-season.	<i>International J. Trop. Agric.</i> , 13 : 265-268.
7.	De, L. C., S, K. Bhattacharjee and R.L. Misra	1996	Pulsing and impregnation of gladiolus spikes with sucrose and other chemicals.	<i>Orissa J, Hort.</i> , 24 : 10-17.
8.	Barman D., L.C. De, C.K. Sharma and I.P.Singh	1996	Correlation and path coefficient analysis of some quantitative characters in tomato (<i>Lycopersicon esculentum</i> Mill.).	<i>J. Hill Research.</i> 9 (2):414-418.
9.	Barman D., L.C.De, C.K. Sharma and I.P.Singh	1996	Effect of growth regulators on garlic.	<i>Ann. Plant Physiol.</i> , 10 (2): 210-211.
10.	De, L.C., S.R. Chatterjee, T.V.R. Nair and S.K Bhattacharjee	1996	Influence of bud opening solutions on the biochemical changes occurring in cut roses of varying maturity	<i>Plant Physiol. & Biochem.</i> , 23 (2): 173-178.
11.	De, L. C., S, K. Bhattacharjee and R.L. Misra	1996	Post-harvest life of pulsed gladiolus spikes as affected by different chemicals	<i>J. Orn. Hort.</i> , 4 (1/2):18-22.
12.	Barman D., L.C. De, C.K. Sharma and I.P. Singh	1997	Efficacy of split application of nitrogen on growth and yield of tuberose var. 'Single'.	<i>J. Hill Res.</i> , 10 (1): 67-68
13.	De, L.C. and S. K. Bhattacharjee).	1997	Effect of chemicals for full expansion of cutroses var. 'Eiffel tower' and	<i>Orissa J. Hort.</i> 25 (1): 1-4.

			'Dr B.P.Pal' during winter season	
14.	De, L.C. and S. K. Bhattacharjee	1997	Post harvest life of gladiolus spikes as affected by cold storage.	<i>Ann. Plant Physiol.</i> , 11 (1):39-44.
15.	De, L.C. , S. K. Bhattacharjee, S,R.Chatterjee and M.K.Roy	1997	Postharveast life and quality of cut roses as affected by gamma irradiation.	<i>Indian J. Plant Physiol.</i> 2(3): 237-238
16.	Barman D., L.C. De, and C.K. Sharma	1997	Allelopathic effects of <i>Acacia auriculiformis</i> on germination of aster and chrysanthemum.	<i>Ann. Plant Physiol.</i> 11 (2):212-213.
17.	Barman D. and L.C. De	1997	Genetic variability and character association analysis in <i>Chrysanthemum morifolium</i> Ramat	<i>J. Hill Research</i> , 10 (2):197-199.
18.	De, L.C. and Barman, D	1997	Growth and flowering of chrysanthemum (<i>Chrysanthemum morifolium</i> Ramat) as affected by nitrogen and genotypes.	<i>Indian J. Hill Farming</i> , 10 (1/2):51-55.
19.	Barman, D., C.K. Sharma, I.P. Singh and L.C. De	1997	Performance of different garlic genotypes under agroclimate of Tripura.	<i>Indian J. Hill Farming</i> , 10 (1/2): 113-114.
20.	De, L.C. and S. K. Bhattacharjee	1998	Post harvest life of cut roses cv 'Raktagandha' as affected by pulsing with various chemicals.	<i>The Horticultural J.</i> , 11 (2): 93-99.
21.	De, L.C. and D. Barman	1998	Vase life of cut tuberose spikes as affected by stalk length, stage of harvest and sucrose	<i>Orissa J. Hort</i> , 26 (1): 66-69.
22.	De, L.C. and D. Barman	1998	Pulsing and impregnation of cut tuberose flowers.	<i>Indian Farmers Digest</i> , 31 (2): 32-33.

23.	De, L.C. and D. Barman	1998	Post harvest behaviour of cut tuberose spikes as affected by chemicals.	<i>J. Orn. Hort.</i> , New Series, 1 : 66-68.
24.	De, L.C. and K.R.Dhiman	1998	Ornamental resources of Tripura	<i>J. Hill Research</i> , 11 (2): 242-243
25.	De, L.C. and K.R.Dhiman	1998	Effect of N, P, and K on the production of cut flowers of chrysanthemum under Tripura conditions.	<i>Progressive Hort.</i> , 30 (3/4):111-114.
26.	De, L.C. and S. K. Bhattacharjee	1999	Post harvest life and association analysis for different parameters of cut roses.	<i>Orissa J Hort.</i> , 27 : 8-10
27.	De, L.C. and S. K. Bhattacharjee	1999	Biochemical changes of cutroses as affected by pulsing treatments	<i>Indian Agriculturist</i> , 42 : 223-228.
28.	De, L.C. and S. K. Bhattacharjee	1999	Effect of different chemicals for tight bud opening of rose cv. 'Super Star' at different stages of maturity.	<i>Ann. Agril. Research</i> , 20 (2): 206-211
29.	S. K. Bhattacharjee and De, L.C.	1999	Influence of pulsing with different chemicals on post-harvest life and biochemical constituents of cut roses.	<i>P.K.V. Research J.</i> , 22 : 183-187.
30.	De, L.C., S. D. Wahi and S. K. Bhattacharjee	1999	A post harvest study of genetic divergence in cut roses	<i>Indian J. Genetics and Plant Breeding</i> , 59 (3): 351-356
31.	De, L.C. and S. K. Bhattacharjee	2000	Methods for prolonging vase life of cut flowers-a review .	<i>Orissa J. Hort.</i> , 28 (1): 73-87.
32.	De, L.C., S. K. Bhattacharjee and M. K. Roy	2000	Influence of antimicrobial compounds on longevity of cut roses.	<i>The Horticultural J.</i> , 13 (2): 87-89.

33.	Dhiman, K. R., L.C. De and M. Datta	2000	Utilisation of indigenous resources for sustainable and eco-friendly development of Tripura.	<i>International Conference on Managing Natural Resources for Sustainable Agricultural production in the 21st Century, New Delhi, 14th –15th Feb, Vol.3:1146</i>
34.	De, L.C., B.K.Bhattacharya and K.R. Dhiman	2000	Effect of bio mulches on growth and flowering of chrysanthemum cv. 'Yellow Anemone' under Tripura condition	<i>Progressive Horticulture,32(2):200-201</i>
35.	Misra, R.L., L.C. De and H. C. Saini	2001	Manifestation of heterosis in Exotic x Indigenous crosses of gladiolus	<i>J. Orn. Hort., New Series Vol. 4(1): 1-6.</i>
36.	De, L. C. and K.R. Dhiman	2001	Effect of leaf manures, potassium and GA ₃ on growth, flowering and longevity of tuberose	<i>J. Orn. Hort., New Series Vol. 4(1):50-52</i>
37.	De, L. C	2001	Opening of tight bud cut flowers.	<i>Indian Farmers Digest, 34(3): 20-21</i>
38.	De, L. C. and K.R. Dhiman	2001	Exploring floriculture potential in Tripura	<i>Indian Horticulture, 46(3): 19-21.</i>
39.	De, L. C. and S. K. Bhattacharjee	2002	Vase life of cut roses cv. 'Queen Elizabeth' as affected by aquatic fungi and bacteria	<i>The Indian Rose Annual, 18: 86-90.</i>
40.	De, L. C. and K.R. Dhiman	2002	Growth, flowering and corm production of gladiolus as influenced by grades, season and chemicals.	<i>The Horticultural Journal, 15 (2): 69-74</i>
41.	Barman, D., M. Datta, L.C. De and S. Banik	2003	Efficacy of phosphate solubilizing and phytohormone producing bacteria on growth and	<i>Indian J. Hort.,60(3): 303-306</i>

			yield of tuberose in acid soil of Tripura.	
42.	De, L.C, K.A. Singh, B.Saloi and G. Bagra	2004	Commercial farming of unpopular fruit tree species of Arunachal Pradesh	<i>Indian Farming</i> , 53 (10): 22-23, 29.
43.	De, L.C, I. Nyori and G. Bagra	2004	Yield and Quality of Khasi Mandarin of Arunachal Pradesh as Affected by Macro and Micronutrients	<i>Journal of Hill Research</i> , 17 (2): 36
44.	Patel, R.K., K.D. Babu, Akath Singh, D.S. Yadav and L. C. De	2007	Soft Wood Grafting in Mandarin (<i>C. reticulata</i> Blanco): A Novel Vegetative Propagation Technique	<i>International Journal of Fruit Science</i> , 7 (2): 31-41
45.	Sanwal, S.K., R.K. Yadav, N. Rai, L.C. De and J. Buragohain	2007	Performance of cabbage genotypes under Mid Hills of Meghalaya	<i>Environment & Ecology</i> , 25S (4A): 1262-1264
46.	Patel, R.K., A. Singh, L.C. De , R.S. Patel, R.M. Yadav, J. Buragohain & M.Bhuyan	2007	Tree Health, Yield and Fruit Quality Attributes of some Citrus Species/Types at mid altitude of Khasi Hills of Meghalaya	<i>International J. Trop. Agric.</i> , 25 : 927-932
47.	Sanwal, S.K., R.K. Yadav, P.K. Singh, L.C. De & J. Buragohain	2007	Stability Analysis for yield and yield attributes in turmeric (<i>Curcuma</i> spp.)genotypes	<i>International J. Trop. Agric.</i> , 25 : 877-882
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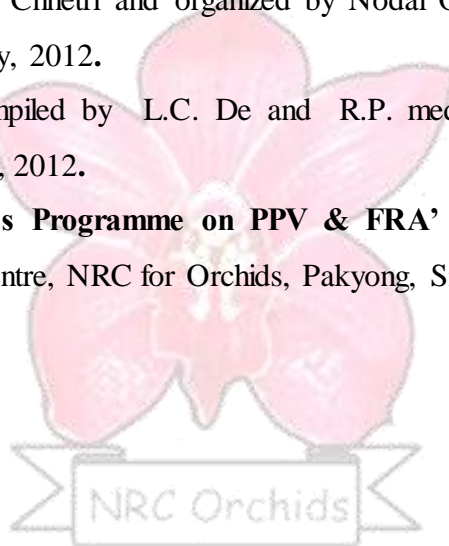
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 4. **Commercial Cultivation of Cymbidium** Compiled & edited by L.C. De, organized by NRC for Orchids, Pakyong held from 29 -31st July, 2009
 5. **Model training Course for ‘Recent Trends in Floriculture Improvement’** Compiled & edited by L.C. De, organized by NRC for Orchids, Pakyong and sponsored by Directorate of Extension (DA & C), Ministry of Agriculture, Govt of India held from 11th -18th January, 2010
 6. **‘One Day Training-cum-Awareness Programme on PPV & FRA’** Compiled and Edited by L.C. De, N.G. Debnath, H. Pokhrel and Geetamani Chhetri and organized by Nodal Officer, DUS Centre, NRC for Orchids, Pakyong, Sikkim held on 24th January, 2012.
 7. **Ist Stake Holders Meeting** compiled by L.C. De and R.P. medhi and organized by NRC for Orchids, Pakyong, Sikkim held on 26th March, 2012.
 8. **‘One Day Training-cum-Awareness Programme on PPV & FRA’** Compiled and Edited by L.C. De and organized by Nodal Officer, DUS Centre, NRC for Orchids, Pakyong, Sikkim held on 31st January, 2014.



Evaluation of Research Project

Sl No.	Name of Project	Submitted by	Address	Evaluation Level
1.	Application of Biotechnological Tools for improvement of livelihood for rural population of unnao district	Dr. Gyan Prakash Singh, SMS, Plant Protection	VKS KVK, Dhaura, Unnao	Referee
2.	Orchid cultivation for income generation in rural areas of Assam	Dr. G.U. Ahmed, Professor,	Department of Biotechnology, Gauhati University	Referee
3.	Entrepreneurship development and sustainable livelihood for SC/ST women through Floriculture	Dr. K. Ajith Kumar Associate Professor	Kerala Agricultural University, Thrissur, Kerala	Referee

4.	Popularization of Floriculture for Economic Enhancement of rural Farmwomen in Imphal East District, Manipur through training and demonstration	Dr. Lisham Sangita Devi, Project Manager	Institute for Human Development, Porompat, East District, Manipur	Referee
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Evaluation of Thesis

Sl No.	Name of Thesis Title	Submitted by	Address	Evaluation Level
1.	Studies on varietal Performance and Standardization of Vase Preservatives for gladiolus and tuberose	Subhasis Mukherjee	Deptt. of Floriculture and Landscaping, BCKV, Mohanpur, West Bengal	Thesis Examiner
2.	Identification, Evaluation and Conservation of Orchid Diversity of Mizoram and West Bengal	Vanlalruti	Deptt. of Floriculture and Landscaping, BCKV, Mohanpur, West Bengal	Ph.D. Thesis Examiner(2013)

