

*Personal Details*

Date of Birth : 12<sup>th</sup> March, 1988  
Age : 36 years  
Gender : Female



Field of Specialization : *Horticulture (Floriculture and Landscape Architecture)*

Title of M.Sc. Research work : Effect of corm dip treatment on the postharvest qualities of Gladiolus cv. Red Candyman

Title of Ph. D Research work : Efficacy of biologically and chemically synthesized Silver Nanoparticles for enhancing the shelf life of cut flowers

*Achievements/Awards*

- 1<sup>st</sup> prize for best paper at International Symposium on “Next generation Approaches for sustainable development of Hill and upland horticulture” organized by Sikkim University, Gangtok, Sikkim, India.
- 1<sup>st</sup> prize for best poster & paper at National Seminar on Integrated Development of Horticulture in Sub Tropical and Hill Region organized by Central Institute of Horticulture, Medziphema, Nagaland, India at Kahikuchi, Guwahati, Assam.
- 1<sup>st</sup> prize for best poster & paper at Silver Jubilee National Conference on Floriculture & Landscaping for Urban & Rural Prosperity organized by Indian Society of Ornamental Horticulture (ISOH) & Division of Floriculture and Landscaping, ICAR-Indian Agricultural Research Institute, New Delhi.
- 1<sup>st</sup> prize for best paper presentation on the National Conference on Advances in Indian Floriculture with Focus on North-East & Hill Region organized by Indian Society of Ornamental Horticulture (ISOH) and Central Institute of Horticulture at Medziphema, Nagaland.

*Training/ Workshops/Seminars/Conferences attended:*

1. Presented a paper on the title “**Application of Radiation Technology and Radioisotopes in the field of Agriculture, Food and Health**” on the Thematic

Meeting (A National Programme for Peaceful use of Atomic Energy held at Assam Agriculture University, Jorhat, Assam during 28<sup>th</sup> to 30<sup>th</sup> May, 2014.

2. Participated in the “**27<sup>th</sup> Annual Horticultural Show & Competition**”, 2015 organized by the Department of Horticulture, Assam Agricultural University, Jorhat, Assam on 28<sup>th</sup> January, 2015 and secured 3<sup>rd</sup> position in cut flowers.
3. Presented a Poster on the title “**Effect of corm dip treatment with GA<sub>3</sub> and BA on physiological and biochemical changes in Gladiolus Cut Flower cv. Red Candyman**” on the 60<sup>th</sup> Annual Technical Session of Assam Science Society: Harnessing Science for Social Development held on 21<sup>st</sup> March, 2015 organized by Assam Science Society, AAU Branch, Jorhat (Assam).
4. Presented a Poster on the topic “**Next Generation Approach for improvement of postharvest quality of Anthurium cut flower cv. ‘Fire’ by biologically synthesized Silver nanoparticles**” on the International Symposium on Next Generation Approaches for Sustainable Development of Hill and Upland Horticulture held on 5<sup>th</sup> – 7<sup>th</sup> November, 2015 organized by Sikkim University, Gangtok, India and secured the 1<sup>st</sup> position for Best paper presentation.
5. Presented a Poster on the topic “**Green synthesis of Silver nanoparticles using *Curculigocapitulata* extract for improvement of postharvest quality of cut flower Gerbera cv. ‘Antibes’- A Novel study**” on the National Seminar on Integrated Development of Horticulture in Sub Tropical and Hill Region held on 17<sup>th</sup> – 19<sup>th</sup> February, 2016 organized by Central Institute of Horticulture, Medziphema, Nagaland, India and secured the 1<sup>st</sup> position in Best poster presentation.
6. Presented a Poster on the topic “**Biosynthesis of silver nanoparticles using *Perilla ocimoides* for improvement of postharvest quality of cut flower Anthurium cv. ‘Fire’**” on the Silver Jubilee National Conference on Floriculture & Landscaping for Urban & Rural Prosperity held on 28<sup>th</sup> & 29<sup>th</sup> February, 2016 organized by Indian Society of Ornamental Horticulture (ISOH) & Division of Floriculture and Landscaping, ICAR-Indian Agricultural Research Institute, New Delhi and secured the 1<sup>st</sup> position in Best poster presentation.
7. Presented an oral presentation on the topic “**Nanotechnology- A next generation dynamic approach for post harvest improvement of cut flowers in India and NER**” on the National Conference on Advances in Indian Floriculture with Focus on North-East & Hill Region held on 13<sup>th</sup> to 15<sup>th</sup> January, 2017 organized by Indian Society of Ornamental Horticulture (ISOH) and Central Institute of Horticulture and secured the 1<sup>st</sup> position in Best oral presentation.
8. Presented an oral presentation on the topic “**Isolation and Characterization of bacteria from cut flowers during storage**” on the National Conference on Advances in Indian Floriculture with Focus on North-East & Hill Region held on 13<sup>th</sup> to 15<sup>th</sup> January, 2017 organized by Indian Society of Ornamental Horticulture (ISOH) and Central Institute of Horticulture and secured the 1<sup>st</sup> position in Best oral presentation.

9. Presented an lead paper on the topic “**Floriculture in North East India- Scope and Scenario**”on the National Conference on Advances in Indian Floriculture with Focus on North-East & Hill Region held on 13<sup>th</sup> to 15<sup>th</sup> January, 2017 organized by Indian Society of Ornamental Horticulture (ISOH) and Central Institute of Horticulture.
10. Participated at 8 Days Model Training Course on “**Protected Cultivation and Precision Resource Management for Horticulture crops and Seed Spices**” sponsored by Directorate of Extension, Ministry of Agriculture, New Delhi, organized by ICAR-National Research Centre on Seed Spices, Ajmer, Rajasthan on 19<sup>th</sup> to 26<sup>th</sup> January, 2018.
11. Participated at 3 days National level brainstorming workshop on “Acceleration of commercial horticulture in collaboration” organized by National Horticulture Board (NHB) at Gurugram, Haryana on 23<sup>rd</sup> to 25<sup>th</sup> April, 2018.

#### Publications:

<p><b>Abstract published</b></p>	<ol style="list-style-type: none"> <li>1. <b>Aier S, S. Langthasa, R. K. Goswami, D.N. Hararika, M.K. Kalita and B.P. Gautam. 2015. Effect of corm dip treatment with GA<sub>3</sub> and BA on physiological and biochemical changes in Gladiolus Cut Flower cv. Red Candyman. 60<sup>th</sup> Annual Technical Session of Assam Science Society: Harnessing Science for Social Development. <i>Chemical Sciences. III</i>:113.</b></li> <li>2. <b>ShisarenlaAier, P.K. Borthakur, H. Verma, H. Boruah, G. Goswami and R.C.Boro. 2015. Next Generation approach for improvement of postharvest quality of Anthurium Cut flower cv. ‘Fire’ by biologically synthesized silver nanoparticles. International Symposium on Next Generation Approaches for Sustainable Development of Hill and Upland Horticulture.III:58.</b></li> <li>3. <b>ShisarenlaAier, P.K. Borthakur, P. Dutta, R.C. Boro, H. Boruah, and G. Goswami. 2016. Green synthesis of silver nanoparticles using <i>Curculigo capitulate</i> extract for improvement of postharvest quality of cut flower Gerbera cv. ‘Antibes’- A Novel study.National Seminar on Integrated Development of Horticulture in Sub Tropical &amp; Hill Region.V:40.</b></li> <li>4. <b>ShisarenlaAier, P.K. Borthakur, D.J. Hazarika, A. Parveen &amp; R.C. Boro. 2016. Biosynthesis of silver nanoparticles using <i>Perilla ocimoides</i> for improvement of postharvest quality of cut flower Anthurium cv. ‘Fire’. Silver Jubilee-National Conference on Floriculture and Landscaping for Urban &amp; Rural Prosperity.VIII:160.</b></li> <li>5. <b>ShisarenlaAier, P.K. Borthakur, P. Dutta, H. Boruah, G. Goswami &amp; R.C. Boro. 2016.Biogenic synthesis of silver nanoparticles- A sustainable approach for improvement of post harvest quality of cut flower Rose cv. ‘First Red’. International Symposium on Sustainable Horticulture.V:100.</b></li> <li>6. <b>ShisarenlaAier, P.K. Borthakur, R.C. Boro and Lallan Ram. 2017.Nanotechnology- A next generation dynamic approach for postharvest improvement of cut flowers in India and NER. National Conference on Advances in Indian</b></li> </ol>
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	<p>Floriculture with Focus on North-East &amp; Hill Region.<b>III</b>:48.</p> <p>7. <b>ShisarenlaAier</b>, P.K. Borthakur, R.C. Boro, G. Goswami and Lallan Ram. 2017. <b>Isolation and Characterization of bacteria from cut flowers during storage</b>. National Conference on Advances in Indian Floriculture with Focus on North-East &amp; Hill Region.<b>II</b>:45.</p> <p>8. <b>ShisarenlaAier</b> and Lallan Ram. 2017. <b>Floriculture in North East India- Scope and Scenario</b>. National Conference on Advances in Indian Floriculture with Focus on North-East &amp; Hill Region.<b>I</b>:4.</p>
<b>Book chapter</b>	<p>1. <b>ShisarenlaAier</b>, S. Langthasa, D.N. Hazarika, R.K. Goswami, M.K. Kalita and B.P. Gautam. 2015. Effect of pretreatment of corms with GA<sub>3</sub> and BA on corm and cormel production in gladiolus cv. Red Candyman. Innovative Horticulture: <i>Concepts for Sustainable Development: Recent Trends</i> (New Delhi Publishers, New Delhi). <b>3</b>:223-227. <b>ISBN No: 978-93-81274-85-9</b></p> <p>2. <b>ShisarenlaAier</b> and Lallan Ram. 2017. Floriculture in North East India- Scope and Scenario. Advances in Floriculture &amp; Landscape Gardening. Central Institute of Horticulture (Medziphema, Nagaland). <b>7</b>:55-59. <b>ISBN No: 978-93-5267-683-5</b></p> <p>3. IngudamBhupenchandra, L. Devarishi Sharma, SoibamSinyorita, H. Lembisana Devi, Pranab Dutta, Rahul Sadhukhan, W. Elizabeth Devi, Lalrinsangpui, W.S. Philanim, Sonika Yumnam, N. Surmina Devi, <b>ShisarenlaAier</b>, Seema Bhagawoti &amp; Shri Dhar. 2025. From Soil to Table: The Journey of Organic Produce. <i>Synergizing Tech-Driven Solutions in Natural and Organic Farming: Harnessing Sustainable Agricultural Practices</i>. Ruby Press &amp; Co., Pataudi House Road, Daryaganj, New Delhi. <b>3</b>:29-42. <b>ISBN: 978-81-941226-4-7</b></p>
<b>Research Paper published</b>	<p>1. <b>ShisarenlaAier</b>, S. Langthasa, D. N. Hazarika and R.K. Goswami. 2015. Influence of GA<sub>3</sub> and BA on Morphological, Phenological and Yield attributes in gladiolus cv. Red Candyman. 2015. International Organization of Scientific Research (IOSR), <i>Journal of Agriculture and Veterinary Science</i>. <b>8</b>:37-42</p> <p><b>p-ISSN No: 2319-2372 (Impact factor-1.26)</b></p> <p>2. <b>ShisarenlaAier</b>, D. N. Hazarika, R.K. Goswami, B. P. Gautam and S. Langthasa. 2016. Effect of GA<sub>3</sub> and BA on Biochemical changes in gladiolus cut flower cv. Red</p>

	<p>Candyman. The Bioscan, <i>International Quaternary Journal of Life Sciences (Supplement on Agronomy)</i>.<b>11(2)</b>:1211-1214</p> <p><b>ISSN No. 0973-7049 (NAAS Ratings: 4.57)</b></p> <p><b>3. ShisarenlaAier, P.K. Borthakur, R.C. Boro, H. Boruah, G. Goswami and Lallan Ram. 2017. Improvement in post-harvest quality of cut flowers of Rose hybrid cv. ‘First Red’ using biologically synthesized Silver Nanoparticles. <i>Journal of Ornamental Horticulture</i>. 20(1&amp;2):21-33.</b></p> <p><b>ISSN No. 0972-0499(NAAS Ratings: 4.63)</b></p>
<b>Folders published</b>	<ol style="list-style-type: none"> <li>1. ShisarenlaAier, MeribeniShitiri and Lallan Ram. 2017. Dry flower arrangement. Central Institute of Horticulture.</li> <li>2. ShisarenlaAier, MeribeniShitiri and Lallan Ram. 2017. Package of practices of Lilium. Central Institute of Horticulture.</li> <li>3. ShisarenlaAier. 2019. Scientific cultivation of Kiwi for more income generation. Krishi Vigyan Kendra, Tuensang.</li> <li>4. ShisarenlaAier. 2019. Package of practices of Cole Crops. Krishi Vigyan Kendra, Tuensang.</li> <li>5. ShisarenlaAier. 2019. Package of practices of Tomato. Krishi Vigyan Kendra, Tuensang.</li> <li>6. ShisarenlaAier. 2019. Package of practices of Carrot. Krishi Vigyan Kendra, Tuensang</li> <li>7. ShisarenlaAier. 2020. INM of Kharif and Rabi Crops. Krishi Vigyan Kendra, Tuensang</li> <li>8. ShisarenlaAier. 2020. Nursery Management Techniques of Horticulture Crops. Krishi Vigyan Kendra, Tuensang</li> <li>9. ShisarenlaAier. 2021. Principles of Flower Arrangement. Krishi Vigyan Kendra, Tuensang</li> <li>10. ShisarenlaAier. 2021. Basics of Flower Arrangement. Krishi Vigyan Kendra, Tuensang</li> <li>11. ShisarenlaAier. 2021. Production Technology of High-Value Floriculture. Krishi Vigyan Kendra, Tuensang</li> </ol>

