

**CURRENT DESIGNATION:**

Assistant Professor  
Department of chemistry  
PDUAM, Dalgaon  
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**EDUCATION**

- HSSLC, SEBA, St. Agnes High School, 2000, Percentage (76%)
- HSSLC, AHSEC, G. C. College, 2002, Percentage (65%)
- B. Sc., C. College, Assam University, Silchar, 2005, Percentage (73%)
- M. Sc., Assam University, Silchar, 2007, Percentage (81.1%)
- Ph. D. (Awarded), Assam University, Silchar, 2015

**AWARDS & ACHIEVEMENTS**

- UGC-NET (JRF), 2010
- DST-INSPIRE Fellowship, 2010
- Gajendra Kumar Roy Memorial endowment award, AUS, for securing the 1st position in M. Sc., AUS, 2007
- 1st Class 1st in Chemistry in B. Sc., 2005
- 3<sup>rd</sup> position in HSLC in the district of N. C. Hills (presently known as Dima Hasao District), 2000
- Artist of the month in the home page of ILCS (International Liquid crystal society), May, 2013

**Ph.D.Thesis:**

Title: Synthesis and characterization of organic photovoltaic solar materials and four-ring bent core liquid crystals

**M. Sc. Dissertation:**

Title: Effect of extended functionalized rigid core on the liquid crystalline properties: Synthesis and mesomorphism

## **LIST OF PUBLICATIONS**

- (i) New family of four-ring bent-core nematic liquid crystals with highly polar transverse and end groups

Kalpana Upadhyaya, Venkatesh Gude, Golam Mohiuddin and N. V.S.Rao Nandiraju, Beilstein J.Org. Chem. 2013, 9, 26-35, I. F = 2.820 9 (2013)

- (ii) New family of four-ring bent-core nematic liquid crystals with highly polar end groups  
Venkatesh Gude, Kalpana Upadhyaya, Golam Mohiuddin and V.S.Rao Nandiraju  
Liquid crystals, 2012, I. F = 1.959 (2012)

- (iii) Green Synthesis of Gold and Silver Nanoparticles Using *Achyranthes aspera* L. Leaf Extract

Venkatesh Gude, Kalpana Upadhyaya, M. N. V. Prasad, Nandiraju V. S. Rao, Advanced Science, Engineering and Medicine, Volume 5, Number 3, March 2013, pp. 223-228(6)

- (iv) Dual Activity of amphiphilic Zn(II) nitroporphyrin derivatives as HIV-1 entry inhibitors and in cancer photodynamic therapy

Devashish Sengupta , Uddhav Timilsina , Zeaul Hoque Mazumder , Avinaba Mukherjee , Dibya Ghimire , Manasvini Markandey , Kalpana Upadhyaya , Debdulal Sharma , Nawneet Mishra, Tarun Jha , Samita Basu , Ritu Gaur, Eur. J. Med. Chem., 2019,174, 66-75

- (v) Development of nematic and orthogonal smectic phases in short-core fluorinated hockey-stick shaped liquid crystal compounds

Kalpana Upadhyaya, Sharmistha Ghosh, Raj Kumar Khan, R. Pratibha, N.V.S. Rao, Journal of molecular liquids, 2019

## **WORK EXPERIENCE**

- Lecturer in Tura Don Bosco College, Meghalaya from 07.09.2007 to 07.03.2009
- Worked as Assistant professor in Department of Chemistry, Tinsukia College, Tinsukia since 01.09.2015 to 14.12.16 under FDP lien vacancy
- Worked as an Assistant professor in department of Chemistry in Digboi college from 02/01/17 to 30/06/17
- Presently working as an Assistant professor in Pandit Deendayal Upadhyaya Adarsh Mahavidyalaya, Dalgaon since 04/08/2017

### **MHRD program**

Visited as a mentor with H.S. 1<sup>st</sup> year students to BHU, Varansi for a 12 days (10.12.16 to 21.12.16) Ishan Vikas Program sponsored by IIT, Guwahati under the initiative of MHRD

### **Academic excursions:**

Teacher-in-charge during the student excursion 2019-20 under the “EK BHARAT SHRESTHA BHARAT SCHEME” by department of higher education, government of Assam.

### **MEMBERSHIPS**

- Life time member of Indian Liquid Crystal society
- Ex-Member of Innovative club, Assam University, Silchar