Curriculum Vitae

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Dr. Vijendra Kumar Mishra

(H-index: 07, i10 index: 05, Citations: 153)

M.Sc. Ph.D. (Biotechnology)

Assistant Professor

University Department of Biotechnology

Lalit Narayan Mithila University

Kameshwarnagar, Darbhanga-846004,

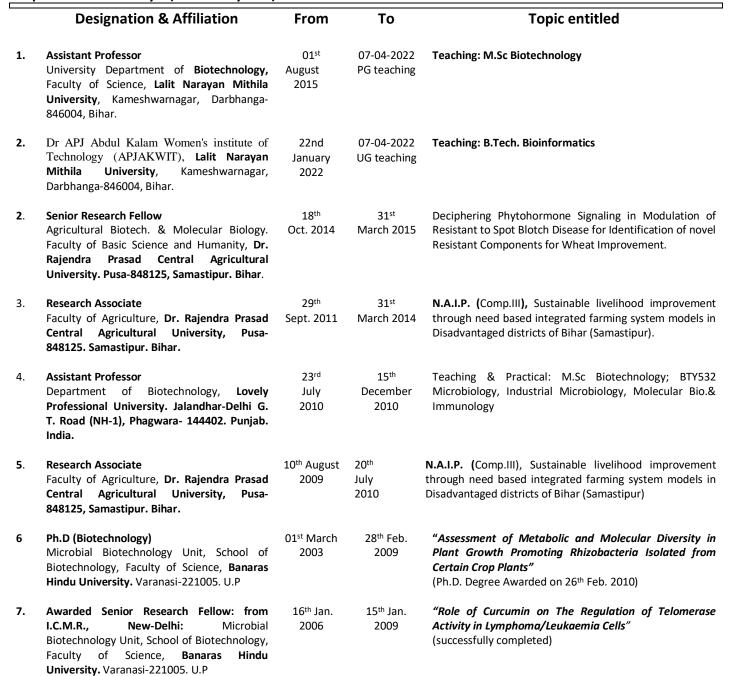
Bihar. India.

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Experience summary:- (Total: 17 years)



Academic Profile:-

- M.Sc. In Biotechnology: 2002, (66%; 1st Class), L. N. Mithila. University, Darbhanga-4, India.
- B.Sc. In Chemistry (H): 1994, (62%; 1st Class), L. N. Mithila. University, Darbhanga-4, India.
- Qualified in GATE: (2002); 74.67 percentile, (Life Science), All India Rank: 0654; Conducted by Ministry of Human Resource & Development New Delhi.
- Qualified in CSIR-UGC: National Eligibility Test: (2002); (Life Science), Conducted by C.S.I.R-H.R.D.G. New Delhi.

Bioinformatics:

- > One Month Online "INDUSTRIAL TRAINING IN PYTHON AND BIOPYTHON" from 5th July 2020 to 5th August 2020 and secured "A2 grade" from "RASA Life Science Informatics", 4TH Floor, Shakuntal Building, near Pastry Corner, Nal Stop, Law College Road, Erandwane, Pune-411004, Maharastra, India.
- Six Month "RESEARCH TRAINING IN NGS DATA ANALYSIS" from 5th May 2020 to 5th November 2020 and secured "A2 grade" from "RASA Life Science Informatics", 4TH Floor, Shakuntal Building, near Pastry Corner, Nal Stop, Law College Road, Erandwane, Pune-411004, Maharastra, India.
- Two Month Online "INDUSTRIAL TRAINING IN BIOINFORMATICS" from 5th May 2020 to 5th July 2020 and secured "A2 grade" from "RASA Life Science Informatics", 4TH Floor, Shakuntal Building, near Pastry Corner, Nal Stop, Law College Road, Erandwane, Pune-411004, Maharastra, India.
- One week Online Lab. Workshop on "COMPUTATIONAL SYSTEM BIOLOGY, MATLAB", from NPTEL Online Certification, HRD, Govt. of India from 24th to 27th August 2020.
- Training (Dissertation) given to M.Sc. students of various Universities/ Institutes in this lab during Ph.D. Period Total no..:09

Total Manuscript reviewed (International Journals): 28 (AJMR; AJAR; Adv.in Res.; JEAI; Sc. Domain Int.: JAERI: AJRCS; J Of Biol. & Res.; Int.; J. of Plant and Soil Sc.; Asian Res. J. of Agric.; J. of Experimental Agric. Int. e.t.c.).

List of Publications:-

Original Research articles (published):-

SI. no.	Authors Name in order and	Year	Topic entitled	Journal; ISSN/ISBN No.	Vol. Pages & API Score	I.F. & Citation
1.	Vijendra Kumar Mishra	2020	Past, Present and Future of Biotechnology: an Overview	World Journal of Pharmacy and Pharmaceutical Sciences. 2278 – 4357	9(4), 206-212	7.7
2.	Vijendra Kumar Mishra	2020	Hazardous side effects of Pesticides on rhizospheric soil organisms, birds, honeybees and human health	American Journal of Research Communication: 2325-4076.	8(4): 1-9	
3.	G. Prasad, Vijendra Kumar Mishra and Nitu Kumari.	2018	Effects of phytohormones on reversing the inhibitory action of aflatoxin B1 on the growth of maize seeds (<i>Zea mays</i> L.)	Int. Journal of Plant and Soil Sci. 2320-7035	22 (5), 1-5.	4.77
4.	Vijendra Kumar Mishra and Ashok Kumar.	2018	Effect of antibiotics on Indole-3 acetic acid production by <i>Klebsiella pneumoniae</i> , <i>Bacillus subtilis</i> and <i>Bacillus amyloliquefaciens</i>	Int. Journal of Agricul. Sci. and Res. 3221- 0087	8(2), 171-174	4.13
5.	Vijendra Kumar Mishra	2018	Plant growth promoting rhizobacteria (PGPR) mediated temperature, drought and pesticide stress tolerance of crop plants, through multidisciplinary approach".	American Journal of Res. Communication.	6(3) 1-9.	
6.	V. K. Mishra and A. Kumar.	2017	"Bioproduction of Indole-3-Acetic Acid in presence of vitamin B6 and B12 by Bacillus subtilis and Bacillus amyloliquefaciens	Int. Journal of Agricul. Sci. and Res. 3221- 0087	7(2),203-208	4.13.
7.	V. K. Mishra and A. Kumar.	2015	Biosynthesis of Indole-3-acetic acid by plant growth promoting rhizobacteria Klebsiella pneumonia, Bacillus amyloliquefaciens and Bacillus subtilis.	African Journal of Microbiol. Res. 1696- 0808	9(16), 1139- 1149.	0.533
8.	V. K. Mishra and A. Kumar.	2015	In vitro assessment of plant growth promoting potential of Klebsiella pneumonia, Bacillus amyloliquefaciens	Int. Journal of Agricul. Sci. and Res. 3221- 0087	5 (3), 69-80.	4.13

			and <i>Bacillus sp.</i>			
9.	V. K. Mishra and A. Kumar.	2012	Plant growth promoting and phytostimulatory potential of <i>Bacillus</i> subtilis and <i>Bacillus</i> amyloliquefaciens.	Journal of Agricul. and Biol. Sci. 1900-6145	7 (7). 509-519.	0.00; 03.
10.	V. K. Mishra and A.Kumar.	2009	Curcumin Induced Cell Death and Inhibition of Telomerase Activity in Mouse Lymphoma P388D1 Cells.	Experimental & Clinical Science Journal. 1611-2156	8:20-29.	2.837, 04.
Revie	w paper:					
11.	V. K. Mishra,	2020	A study of Nanoparticles mediated Siderophore production by Plant Growth Promoting Rhizobacteria (PGPR)	Nano world journal; ISSN: 2379-1101	Scopus ID: 21100926589	(Submitte d)
12.	V. K. Mishra and A. Kumar.	2009	Impact of Metal Nanoparticles on the Plant Growth Promoting Rhizobacteria.	Digest Journal of Nanomat. and Biostruc. 1842-3582	3 (4): 587 – 592.	6.76. 0. 785, 18,12
13.	V. K. Mishra , G. Mohammad and S. K. Mishra.	2008	Down-regulation of Telomerase Activity may enhance by Nanoparticle Mediated Curcumin Delivery.	Digest Journal of Nanomat. and Biostruc. 1842-3582	3 (4); 163 – 169	6.76. 0. 785, 09. 12
14.	G. Mohammad, V. K. Mishra and H. P. Pandey.	2008	Antioxidant Pro-perties of some Nanoparticle may Enhance Wound Healing in T2DM patients.	Digest Journal of Nanomat. and Biostruc 1842-3582	3 (4); 159 – 162.	6.76. 0. 785, 18.
15.	V. K. Mishra, S. K. Mishra and A. Jha.	2008	Application of Nano-materials in Mesenchymal Stem Cell Engineering.	Digest Journal of Nanomat. and Biostruc. 1842-3582	3(4). 203 – 208.	6.76. 0.785, 03. 12
16.	V. K. Mishra, G. Mohammad and A. Jha.	2008	Immunomodulation and Anticancer Potentials of Yogurt Probiotic.	Experimental & Clinical Science Journal. 1611-2156	7:177-184.	2.837, 07.

Accessation Numbers:- (at NCBI): Gene and Protein sequence: 11 (Ten)

Book published:-

1. P. K. Mishra, V. K. Mishra, A. Anand and P. Kumar (Research Associates) and associated scientists (2014)."ACHIEVEMENTS" National Agricultural Innovation Project on Sustainable livelihood improvement through need based integrated farming system models in disadvantaged district Samastipur". K. N. Pathak (Eds). Published by S. P. Singh, Coordinator, publication division on behalf of R.A.U. Pusa, (Samastipur), Bihar).PP.1-17.

Book Chapters published (National Level with ISBN No).:-

- P. N. Jha, V. K. Mishra, M. K. Chaudhary, A. P. Sikarwar, M. B. Tyagi, and A. Kumar. (2004). Diversity in Nitrogen Fixation by Endophytic Bacteria. In: S. P. Gautam, A. Sharma, S. S. Sandhu, A. K. Pandey (Eds.) Microbial Diversity Opportunities and Challenges. Shree Publishers & distributors, New Delhi-110002. pp. 287-307. (ISBN:8183290043)
- 2. A. Kumar, R. P. Sinha, M. B. Tyagi, P. N. Jha, B. Pattanaik, V. K. Mishra and A. Kumar, (2006) Cyanotoxins: Biotechnological Potentials. In: Singh, K. (Eds.) Biotechnological Applications of Cyanobacteria. Academic world Publishers & distributors, Bhopal-462026 (MP). pp. 81-104.

National level publication in Conferences with ISBN No .: (ISBN NO: 978819300373-2)

- 1. P. N. Murthy, V. K. Mishra (2016). "Antidiabetic effect of *Tinospora cordifolia* extract". In National seminar on Cultivation and Conservation of Medicinal and Aromatic plants, held at Department of Botany, S. M. J College, Khajedih, Madhubani, Bihar- 847232 on 07th August 2016; Pp. 49.
- 2. Rajnandini Kumari, V. K. Mishra, A. Kumari (2016). "Allium sativum (Garlic) may act as potent anti-neoplastic agent". In National seminar on Cultivation and Conservation of Medicinal and Aromatic Plants, held at Department of Botany, S. M. J College, Khajedih, Madhubani, Bihar- 847232 on 07th August 2016; Pp. 50.
- 3. A. Kumari, V.K.Mishra (2016). "Identification of interacting partners of SWP1 in *Arabidopsis thaliana* using yeast two hybrid system" In National seminar on Cultivation and Conservation of Medicinal and Aromatic Plants, held at Department of Botany, S. M. J College, Khajedih, Madhubani, Bihar-847232 on **07**th **August 2016**; Pp52.
- 4. **V.K.Mishra**, Anamika, V. Kumar (2016). *Azadirchta indica* (neem) extract acts as hypoglycemic agent" In National seminar on Cultivation and Conservation of Medicinal and Aromatic Plants, held at Department of Botany, S. M. J College, Khajedih, Madhubani, Bihar- 847232 on **07**th August **2016**; Pp51.

5. V. K. Mishra, I. N. Mishra, A. A. Das, A. Rahman (2016). "Medicinal importance of Ashwagandha (*Wichenia somnifera*)" In National seminar on Cultivation and Conservation of Medicinal and Aromatic Plants; held at Department of Botany, S. M. J college, Khajedih, Madhubani, Bihar- 847232 on **07**th **August 2016**; Pp 123.

Full length publication paper in State level Seminar/Conference:

- K. N. Pathank and V.K.Mishra. (2009) "Phytonematode the hidden enemy of medicinal and aromatic plants. In state level seminar cum training on emerging trends in cultivation of medicinal and aromatic plants on 27-28 Oct. 2009 at Dr. Rajendra Prasad Central .Agricultural University. Pusa, Samastipur-848125, p.p. 50-51.
- K. N. Pathak, Nishi Keshri and V.K.Mishra. (2009) "Sugarcane Nematology in Bihar: An overview. In state level seminar on "Sugarcane production and utilization" held on 06-08 Nov. 2009 at Sugarcane Research Institute Dr. Rajendra Prasad Central .Agricultural University Pusa, Samastipur-848125. p.p.114-118.

Publications in International/ National conference/symposium without ISBN No.:-

- 1. Vijendra Kumar Mishra (2021) "A study of Nanoparticles mediated Siderophore production by Plant Growth Promoting Rhizobacteria" International E- Conference on Multifunctional Materials and Environment (E-ICMME-21) on 01st_2nd February 2021 at University Department of Chemistry, Lalit Narayan Mithila University Darbhanga-846004 Bihar INDIA, p.p.....
- 2. Vijendra Kumar Mishra (2021) "Deleterious impact of microplastic on Human health" National e-Conference on Bioremediation and detoxification of environmental pollutants on 28th-29th January 2021 at University department of Zoology, L. N. Mithila University, Kameshwarnagar, Darbhanga, Bihar-846004.p.p.-75.
- 3. Vijendra Kumar Mishra (2021) "Mixed Inoculum of PGPR and Blue Green Algae as an alternate source of Fertilizer for sustainable Agriculture" National e-Seminar on Algae and Human Welfare on 19th January 2021 at University department of Botany, L. N. Mithila University, Kameshwarnagar, Darbhanga, Bihar-846004.p.p.-....
- 4. Vijendra Kumar Mishra (2020). "Microplastics in food and their Implications for Human Health". National seminar cum training programme on propagation, management and value addition of bamboo plants for socio economic development. On 26th-27th February 2020, organized by Dept. of Botany and Zoology, BSS College, Supaul-852131, Bihar (a constituent unit of B.N.M.U., Madhepura) and dept. of environment, forest and climate change, Govt, of Bihar, Patna. Pp:70.
- 5. Vijendra Kumar Mishra (2019). ""Biosynthesis of antibiotics by PGPR triggers Induced Systemic Resistance (ISR) of crop plants against plant diseases"" in the National seminar entitled" Recent trends in plant disease management on 29TH -30TH March 2019 at University department of Botany, L. N. Mithila University, Kameshwarnagar, Darbhanga, Bihar-846004.p.p.-42..
- 6. Vijendra Kumar Mishra (2019). "Potential of PGPR as potent biocontrol agent against plant diseases" in the National seminar entitled" Recent trends in plant disease management on 29TH -30TH March 2019 at University department of Botany, L. N. Mithila University, Kameshwarnagar, Darbhanga, Bihar-846004.p.p.-38..
- 7. **Vijendra Kumar Mishra (2019).** Deleterious impact of persistent pesticide on soil and environment. National seminar cum training programme on present status and sustainable prospects of wetlands with special reference to Bihar. On 02nd March 2019, organized by Dept. of Botany and Zoology, BSS College, supaul-852131, Bihar (a constituent unit of B.N.M.U., Madhepura) and dept. of environment, forest and climate change, Govt, of Bihar, Patna. Pp:33.
- 8. **Vijendra Kumar Mishra (2019).** Deleterious impact of persistent pesticide on soil organisms. National seminar cum training programme on present status and sustainable prospects of wetlands with special reference to Bihar. On 02nd March 2019, organized by Dept. of Botany and Zoology, BSS College, supaul-852131, Bihar (a constituent unit of B.N.M.U., Madhepura) and dept. of environment, forest and climate change, Govt, of Bihar, Patna. Pp:35.
- 9. Vijendra Kumar Mishra (2017). Plant growth promoting rhizobacteria (PGPR) mediated temperature and drought tolerance of crop plants through multidisciplinary approach. International Symposium on "stress resilient wheat in the regime of climagte change. 22-24 April 2017 Dr. Rajendra Prasad Central .Agricultural University, Pusa, Samastipur-848125.PP:40.
- 10. Rajeev Kumar, Surendra Kumar, Bhavya P.Mishra, V.K.Mishra, Kiran Kumari, Harsh Kumar and Mithilesh Kumar (2017) Confounding effect of heat and spot blotch stresses on wheat genotypes". International Symposium on "stress resilient wheat in the regime of climagte change. 22-24 April 2017 Dr. Rajendra Prasad Central .Agricultural University, Pusa, Samastipur-848125.PP:12.
- 11. V. K. Mishra, A.Kumar, S. Jha and I. N. Mishra (2015)."Effect of antibiotics on Indole-3-Acetic Acid production by plant growth promoting Rhizobacteria".In International conference on the recent trends in Biotechnology and Biodiversity held at Tej Narayan Banaili College, Bhagalpur from 27-29th July 2015. Pp:155.
- 12. V. K. Mishra, A. Kumar and I. N. Mishra (2015). "Effect of EDTA on Indole-3-Acetic Acid production by plant growth promoting Rhizobacteria" In International conference on the recent trends in Biotechnology and Biodiversity held at Tej Narayan Banaili College, Bhagalpur from 27-29th July 2015. Pp:154;
- 13. P. Prasoon, V. K. Chaudhary, V. K. Mishra and Rajeev Kumar (2014). "Molecular validation of heat tolerance and Spot Blotch resistance in wheat genotypes using SSR marker". In International Scientific Conference on "Environmental Research Issues, Challenges and Strategies for Sustainable Development and Livelihood Security held at Lumbini, Nepal from 01-03 November 2014. Organized by Eurasian academy of environmental sciences and association for the advancement of Biodiversity science. P.P:22.
- 14. A. Kumar, R. P. Sinha, M. B. Tyagi, P. N. Jha, and V. K. Mishra. (2004) Impacts of ultraviolet–B radiation on cyanobacteria: the current status. In: Proceedings of the National Symposium on Recent Trends in Algal Biology and Biotechnology. Department of Botany, Punjabi University, Patiala, India. p.p. 43-44.
- 15. V. K. Mishra. (2007) "Inhibition of Telomerase Activity and Induction of Apoptosis by Curcumin in P388D1 cells" In 26th Annual Convention of Indian Association for Cancer Research and International Symposium on Translational Research in Cancer. 17-19th Feb. 2007. Institute of Life Science, Bhubaneswar, India.p.p:47.

Participation in Local/University level Seminar/ Workshop/Conferences:-

- 1. Workshop on "Agricultural and Environmental Biotechnology" Indo-German Cooperation Program in Science and Technology, under the supervision of Prof. Anton Hartman, GSF, Munich, Germany & Prof. Bhavanath Jha, From April, 17 22, 2000 at L. N. Mithila. University, Darbhanga (India).
- 2. Workshop on "Agricultural and Environmental Biotechnology" Indo-German Cooperation Program in Science and Technology, under the supervision of Prof. Anton Hartman, GSF, Munich, Germany & Prof. Bhavanath Jha, From Nov., 27 29, 2001 at L. N. M. University, Darbhanga.
- Participated in "International Conference on Radiation Biology" (8th Annual Meeting of the Indian Society of Radiation Biology (ISRB) and 5th LOWRAD (Low Radiation) International Conference on Low Dose Radiation Effects on Human Health and Environment). November 20-22, 2006, at B.H.U. Varanasi, (India).
- 4. Participated in "International Conference on Science, Technology & Society 21st century perspective" on November 23rd, 2006 at United College of Engineering & Research, Naini, Allahabad. (India).
- 5. Workshop on "National Conference & Workshop on High Performance Computing & Applications" on 25-27th February, 2008, at Department of Computer Science, B.H.U, Varanasi.
- 6. Training on "Bioinformatics" learned various tools BLAST, FASTA, Several software etc. Scientist visited from France to teach the Research Scholars, for two months in 2003, at Department of Computer Science, B.H.U, Varanasi.
- C and C⁺⁺ from Education and Training Division, Uttar Pradesh Development Systems Corporation Ltd. (A Govt. of U.P. undertaking, UPDESCO"9, Sarojni Naidu Marg, Lucknow) S. M. Technology, Park, Center Varanasi from 22nd May 2007 to 30th July 2007 with grade "A".
- 8. MS OFFICE from authorized training center of Tata Infotech Education, Darbhanga from 30th July 2001 to 24th August 2001,

Editorial Board:-

Technical editor: Current Research Journal in Biological Science (Print ISSN:2041-076X), Online ISSN: 2041-0778; (Maxwell Scientific Organization) Indexed in :DOAJ, Chemical abstracts services, the American chemical society, Airiti library, Taiwan.

Life Member:-

- 1. Biotechnological Society of India (B.S.I). New Delhi.
- 2. Indian Association of Cancer Research (I.A.C.R).Navi Mumbai.

Summer Training (Dissertation): -

Nine week's project work (May-July, 2001) on the topic entitled "Preparation of Phosphoramidite Reagent for the Solid Phase Synthesis of 5`- Aminoalkylated Oligonucleotide", at the C.S.I.R lab. Centre for Biochemical Technology, C.B.T./IGIB, (CSIR), New Delhi, under the supervision of **Dr. K. C. Gupta**.

Personal Information:-

> Gender : Male

Fathers Name : Prof. Shobha Kant. Mishra

Permanent Address : Ramanand path, New Balbhadrapur, Laheriasarai, Darbhanga-846001.

Date of Birth : 15th Jan 1974

Mother tongue : Hindi
 Nationality : Indian
 Marital Status : Married
 Languages Known : English, Hindi

Technical Skills:-

Microbiology & Molecular Biology:

Isolation, characterization and maintenance of rhizobacterial, endophytic and cyanobacterial cultures. Physiological and biochemical tests for the identification of Bacterial strains. Characterization of Bacteria including biolog carbon utilization test. Isolation of genomic and plasmid DNA, Extraction of RNA, Agarose gel Electrophoresis, PCR mediated amplification of 16S *rDNA*, *nifH*, *ipdc* gene amplification, RT-PCR, and other bacterial fingerprinting techniques such as REP-PCR, ERIC-PCR, BOX-PCR, LINEs-PCR, ARDRA, RAPD, Single Specific Primer-PCR, (SSP-PCR), Inverse PCR (IPCR), Rapid Amplification of Genomic DNA Ends (RAGE PCR) and Targeted Gene Walking (TGW-PCR). Sequence based primer designing, Gene cloning of 16S rDNA in DH5-α, DNA Sequencing, Online preparation of Dendrogram using NCBI, whole cell protein extraction and Quantitation, SDS-PAGE, Native-PAGE, Western blotting, Chromatography techniques such as paper chromatography and TLC. Gas Liquid Chromatography.

Immunology:

DNA laddering, % DNA fragmentation, TRAP assay, RNI, ROS determination, MTT assay, Cell proliferation and culture in DMEM as well as in RPMI medium. Caspase 3/8 activity. Isolation of RNA from mouse thymus cells. Multiplex RT-PCR. Western immunoblotting of P53, Bcl-2 and NFκB.

Bioinformatics:

MS office, C & C⁺⁺, Origin, SPSS, NTSYS, UPGAMA, Sigma Plot, Biolog, Quantity One (BIORAD), Chromas, DNA STAR, Adobe Photoshop and Corel draw. Biological sequence analysis (Bioinformatics), NCBI, BLAST- search, FASTA. Pair-wise and Multiple alignment of protein and DNA sequences using ALIGN software and clustal W 1.83, clustal X 1.64 & 2.1, MEGA4.1, Homology modeling, protein docking, protein-protein interactions and threading of proteins and 3-D structure prediction using software like RASMOL, CHIME,

Finding Domains (using INTERPRO), Motifs and signature sequences (using SMART), Rasmol, Pymol, Swiss PDB viewer, GOLD, Auto Dock, Molegro, (Docking Software's Modeller 9v5 (Homology Modeling software), Cn3D, Rasmol, Mercury, Pymol (Visualization software) and Ligbuilder (Denovo Drug Designing software).

> Agricultural extension:

Rural development, Agricultural innovations, three tier vegetable production, mushroom production, Vermicompost production, bee keeping and honey production, integrated farming system, eco-hatchery, SRI & SWI, polytunnel for early vegetation, Fish production and capacity building. Work in multi-cultural and multi-disciplinary environments and sustainable livelihood improvement through improved technology/varietal replacement/high yielding crop/Agricultural methods to Landless, marginal and poor farmers of rural communities of six villages of Pusa & Rosera cluster (As per ICAR-NAIP project mandate) under NAIP (Samastipur).

References:-

- 1. Prof. Ashok Kumar, School of Biotechnology, Faculty of Science, Banaras Hindu University, Varanasi-221 005 (India).
- 2. Prof. S. M. Singh, School of Biotechnology, Faculty of Science, Banaras Hindu University, Varanasi-221 005 (India).

Declaration:-

I do hereby declare that the particulars of information and facts stated herein above are true, correct and complete to the best of my knowledge and belief.

PLACE: Darbhanga DATE: 06/05/2022

(Vijendra Kumar Mishra)

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