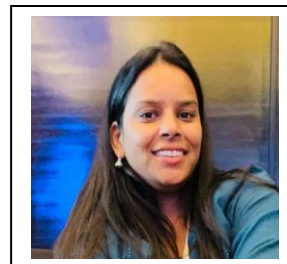


CURRICULUM VITAE

Kumari Nisha

Email : nisha.kumar91@csir.res.in
nishasolanki124@gmail.com



Mobile : *****

Permanent Address: Ward No.1 Rama Enclave,
Opp P.W.D Rest House,
Dadri Road Jhajjar
Pin Code- 124103
Dist. – Jhajjar, State- Haryana

Objective:

To leverage my agricultural expertise to enhance farm productivity and improve farmers' livelihoods through innovative solutions. Committed to continuous learning and delivering exceptional results that drive organisational success while making farming operations more efficient and sustainable.

Academic Credentials:

Division/Remark	Board / University	Year of Passing	% of Marks/OGPA
M.Tech (Farm Machinery & Power Engineering)	CCS Haryana Agricultural University, Hisar	2023	*****
Project Title:- Study on tillage-induced soil compaction using an embedded microprocessor-based cone penetrometer.			
B.Tech (Agricultural Engineering)	CCS Haryana Agricultural University, Hisar	2015	*****
Project Title:- Biogas enhancement using spent mushroom substrate as an additive			
12 th	CBSE (Kendriya Vidyalaya)	2010	*****
10 th	CBSE (Kendriya Vidyalaya)	2008	*****

Industrial Exposure:

- Working as a Scientist (agricultural engineering) in CSIR-IHBT, Palampur, Himachal Pradesh, from March 2026 to date.
- Senior Application Technology Specialist-AMEA | Syngenta India Private Limited, May 2023 – February 2026
- DGCA Certified (Govt. of India) UAV RPAS/Drone Pilot (First female Drone Pilot of Haryana) & UAV RPAS/Drone instructor.
- Trained Agriculture Drone Pilot with approx.150 hrs of flying.
- Having work experience to conduct demonstration of various agro inputs like fertilisers, bio-fertilisers, insecticides, & fungicide at farmers' fields (600 ha) in various crops like vegetables, wheat, corn, paddy, etc. in Haryana state under ICAR-Agri Drone Project.
- Two years and six months of work experience (1st January 2018 to 25th June 2020) with Potato Technology Centre, Shamgarh, Karnal, as a Micro Irrigation Expert in a project along with the International Potato Centre (CIP) under RKVY, Quality seed potato production using Aeroponics and short duration potato varieties at PTC.
- ❖ Type of Work: Manage all irrigation and Fertigation in the seed production of potatoes of various stages, like PTCMT, foundation, and certified seeds.
- ❖ Management of different types of Greenhouses, like anti-insect net houses, Poly houses, & Hi-Tech Green Houses (Cooling fan Pad System), aeroponics, etc
- ❖ Seed production in soil-less media at PTC.
- ❖ Farm management: Having experience to manage farm skills like labour management, agri-inputs procurements, Government compliance, such as health and safety of workers, etc.
- Nine-month work experience with Axis Bank as Agri. RM.

Academic Trainings:

- Six-week online training on “SolidWorks” from 20th Oct to 30 Nov, 2021
- One month of training at “Northern Region Farm Machinery Training & Testing Institute, Hisar” from 3rd to 28th June, 2013, during the 4th semester of B.Tech Agril. Engg.
- Four weeks of training in “Experimental Dairy” of “National Dairy Research Institute (NDRI), Karnal” from 3rd to 30th July, 2014

Extramural Activities, Academic Achievements

- Participated in "*Blood Donation Camp*" held at University Campus, Hisar and also at Syngenta India Pvt. Ltd. in Pune, 2025.

- Received **Second Prize** in Oral Presentation Award at "*International Conference on Climate Resilient Agriculture for Food Security and Sustainability*" held February 17-19, 2023, at Chaudhary Charan Singh Haryana Agricultural University, Hisar, Haryana.
- Received **Third Prize** in essay writing competition on the topic "*The Role of Women in Indian Agriculture*" organised by Agri Meet Foundation on the occasion of International Women's Day (8th March, 2022).
- Won numerous prizes in sports at the school, District, Zonal, and National levels.
- Winner at various sports events, including 100m, 200m, Hurdles, Long Jump, High Jump, and Badminton.
- Successfully completed 7-day "*Annual NSS Camp*" held at Arya Nagar, Hisar from 28th December to 3rd January 2012.
- Active NSS Volunteer for two years.

Publications:

Sr. No.	Research Papers			
1.	Kumari Nisha , Ganesh Upadhyay, Naresh, Bharat Patel, Swapnil Choudhary and Vijaya Rani	A tractor, a hydraulic-assisted, embedded microprocessor-based penetrometer for soil compaction measurement	ISSN: 0022-4898	Journal of Terramechanics
2	Kumari Nisha , Ganesh Upadhyay, Bharat Patel, Naresh Sihag, Swapnil Choudhary and Vijaya Rani	Analysis of soil compaction induced beneath the working depth due to tilling action of different active tillage machinery	eISSN: 2171-9292	Spanish Journal of Agricultural Research

Sr. No.	Popular Articles			
1.	Kumari Nisha , Aman Mor, Parveen Dhanger and Ajay Kumar	भारतीय कृषि में ड्रोन प्रौद्योगिकी	PUNHIN/2011/28964	Modern Kheti(Hindi),
2	Parveen Dhanger, Aman Mor, Kumari Nisha and Arvind Dhaloyia	लेजर लैंड लेवलर का कार्यर विशेषताएँ लाभर कीमत की संपूर्ण जानकारी	PUNHIN/2011/28964	Modern Kheti (Hindi), 20(19)
3	Kumari Nisha , Parveen Dhanger and	पावर वीडर कृषि क्षेत्र में कैसे सहायक है ः	ISSN : 0970-6518	Haryana Kheti 55 (6), 2022

	Aman Mor			
4	Kumari Nisha , Ajay Kumar and Sachin Ghanghas	Promotion of Agricultural Drone Technology: Role of Government and Institutions	ISSN: 2581-8317	Agriculture & Food E-Newsletter 05(04) April,2023
5	Sapna Birania, Sachin Ghanghas, Ajay Kumar and Kumari Nisha	Plasma Technology in Food Engineering: Advancements, Applications, and Challenges	ISSN: 2581-8317	Agriculture & Food E-Newsletter 05(05) May,2023

Sr. No.	Abstract Published			
1.	Kumari Nisha , Ganesh Upadhyay, Swapnil Choudhary, Bharat Patel, Naresh, and Vijaya Rani	Investigations on Freshly Induced Soil Compaction Due to the Tilling Action of Different Active Tillage Machinery	INTCLIMATE-2023	International conference on climate resilient agriculture for food security and sustainability, February 17-19,2023
2	Parveen Dhanger and Kumari Nisha*	Role of Government and Institutions in Promotion of Agricultural Drones	DRONE CONFERENCE - 2023	National conference cum workshop on Drone: A boom for agriculture, 27th- 29th January,2023
3.	Kumari Nisha and Dr S. K. Yadav	Role of adopting Precision Agriculture	SABCD-2022	5 th International conference on Advances in smart agriculture and biodiversity conservation for sustainable development, March 04-06,202
4	Kumari Nisha and Nitin Kumar	Impact of automation in agriculture using artificial intelligence	ETBSC-2022	Virtual international conference on “Emerging trends in biotechnology and sustainable chemistry (ETBSC-2022)

Sr. No.	Book chapters
1.	Vinita Rajput, Sunil Kumar, Jyoti Jangra and Kumari Nisha (2024) Precision agriculture with drones: Enhancing efficiency and yield. Foundations And Frontiers In Horticulture, Akinik publication, Rohini, Delhi, pp. 71-85. ISBN 978-93-6135-882-1

Sr.No.	Patent
1.	Patent on " <i>Agriculture Drone for Spraying Nutrients</i> " with Design No. 400457-001 on March 7th, 2024.

Achievements and appreciations:

- Received appreciation for Professional Drone demonstrations at *INDO-ISRAEL Centre of Excellence for Vegetables, Ghraunda, Karnal*, Haryana in collaboration with Syngenta Foundation India (SFI) - from **the Israeli Embassy** on March 11th, 2024, and during the Israeli Agriculture Minister's visit on April 10th, 2025.
- Recognised by Syngenta Global as *India's Pioneering Female Drone Pilot*, featured on Syngenta's Global Platform during International Women's Day 2025.
- Received **Star Innovator Award** at the 24th Unnat Bharat Sewashree Awards in August 2024.
- Awarded "*Operational Excellence in Health, Safety and Environment*" (HSE) during the Annual Data Review Meeting at Syngenta India in 2024.
- Received **Young Professional Award** in "*National Conference cum Workshop on Drone: A Boom for Agriculture*" from January 27th to 29th, 2023, at CSJM University, Kanpur, Uttar Pradesh.
- Recognised for "*advancing women's empowerment and excellence in drone operation*" by *Drone Imaging and Information Services of Haryana Limited (DRIISHYA)*, Government of Haryana. December 20th, 2023.
- Honoured with the title "First Female Drone Pilot of Haryana" in 2022, and received appreciation from Prime Minister Mr **Narendra Modi**.
- Received appreciation from the *Vice Chancellor of Maharana Pratap Horticulture University*, Karnal, for the implementation of drone technology demonstration under the ICAR Drone Project and for being the top scorer in the ICAR project, covering 250 ha of land in Haryana state. November 12th, 2022.
- Acknowledged by *International Potato Centre (Karnal)* for *pioneering work on potato apical rooting and implementation of aeroponic technology under the RKVY project at PTC Shamgarh, Karnal*, in March 2020.

- Received official commendation from the *Deputy Director of Horticulture, Haryana*, for outstanding contribution to organising the 1st Potato Expo-2019 at Potato Technology Centre, Karnal.

Competencies :

- An analytical mind with the ability to think clearly and logically.
- Good spoken & written communication skills, problem-solving, and leadership skills.
- Capable of grasping new technical concepts quickly and utilising them in a productive manner.
- Well-versed in the concept of various agricultural machinery.

Technical and Field Skills:

- Packages known – MS Office.
- Exposure to field preparation, planting, harvesting, and data collection of field crops.
- Sample collection for testing soil properties.
- Embedded system

Personal Dossier:

- Name : Kumari Nisha
- Father's Name : Shri Bhagwan
- Gender : Female
- Nationality : Indian
- Marital Status : Unmarried
- Languages Known : Hindi, English

Declaration:

I hereby declare that all the information provided above is true to the best of my knowledge, and if proven wrong, I will be responsible for any further action taken against me.

Place: Jhajjar

Date:

, Yours Faithfully
(Kumari Nisha)