

CURRICULUM VITAE

1. Personal Details

Name : **Dr. MAHENDER SINGH**
 Father's Name : Sh. Man Singh
 Date of Birth : 04-05-1970
 Correspondence : Senior Scientist & I/C, Agrometeorology Section
 Address : Division of Agronomy, FOA, SKUAST-J, Chatha, jammu
 Permanent Address : Dr. Mahender Singh
 S/o Sh.Man Singh V.P.O. Niyana,
 Dist. & Tehsil Hisar-125 001 (Haryana.)
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 Phone No : 9419232209, 0191-2958213 (O)
 Marital Status : Married

2. Educational Qualification: Ph.D in Agricultural Meteorology

Degree	Board/University	Year	Division/OGPA	Examination/Subject
Ph.D. (Agril. Met.)*	CCSHAU, Hisar	2001	1 st (3.50/4.00)	Major:- Agril.Meteorology Minor:- Agronomy
M.Sc. (Agril. Met.)	CCSHAU, Hisar	1998	1 st (3.48/4.00)	Major:- Agril.Meteorology Minor:- Agronomy
B.Sc. (Hons) Agril.	CCSHAU, Hisar	1995	2 nd (2.67/4.00)	All Agricultural, Basic & Animal Sc.courses

* During Ph.D. collaborative work with the HARSAC, Hisar.

Research Thesis Title:

- (i) **Ph.D (Agricultural Meteorology):**“Development of response functions and yield model in wheat under environmental stress by using ground truth radiometer.”
- (ii) **M.Sc. (Agricultural Meteorology)** “Analysis of Rainfall Characteristic for crop planning in arid zone of Haryana.”

3. Employment Record:

Research experience: 20 years

Employers' Address	Post Held	Pay Scale	Period of Service		Description of work
			From	To	
SKUAST-J, Jammu	Professor & I/C, Agrometeorology	Rs. 37400-67000 + AGP of Rs. 10000	25/02/18	Continue	Research, Teaching & extension
SKUAST-J, Jammu	Senior Scientist (Agrometeorology) (Direct selected)	Rs.37400-67000 + AGP of Rs. 9000	04/04/16	24/02/18	Research, Teaching & extension
SKUAST-J, Jammu	Deputy Director Research cum Senior Scientist	Rs.15600-39100/- + AGP Rs. 8000	01/07/15	03/04/16	Research, Teaching & extension
CCSHAU, Hisar	Senior Scientist (Direct selection)	Rs.37400-67000/- + AGP of Rs. 9000	01/10/14	30/06/15	Research, Teaching & extension
SKUAST-J Jammu	Senior Scientist (Direct selection)	Rs.15600-39100/-+ 8000 AGP	23/02/12	30/09/14	Research, Teaching & extension
SKUAST-J Jammu	Asstt. Scientist cum Technical Officer	Rs.8000-275-13500/- Pre revised	09/10/03	23/02/12	Research, Teaching & extension
CCSHAU, Hisar	Research Associate	Rs.12000/- Consolidated	20/06/03	08/10/03	Research
CCSHAU, Hisar	Research Associate	Rs.12000/- Consolidated	7/08/2001	31/03/03	Research

4. A. Membership of Professional Societies:

1. Life membership of Society for community Mobilization for Sustainable Development (MOBILIZATION)
2. Life Membership of Association of Agro Meteorologists, AAU, Anand.
3. Life Member of Indian Society of Remote Sensing, Hissar chapter.
4. Life Member of Indian Meteorological Society, New Delhi.
5. Life member of Society for Integrated Development of Agriculture, Veterinary and Ecological Sciences (SIDAVES)- Jammu, India
6. Member of Academy of Plant Science, Mujaffar Nagar (U.P).
7. Member of Madras Agricultural Journal of Research, Mysore.
8. Member of Ecology and Environment, Kalyani, West Bengal
9. Member Soil and Water conservation, New Delhi.
10. Member of Agricultural Research, Karnal, Haryana.

B. Offices held in professional societies

- Secretary, Association of Agrometeorologist, Jammu Chapter for the year 2017-19.
- Secretary, Association of Agrometeorologist, Jammu Chapter for the year 2019-21.
- Editorial Committee Member of Agricultural Research Journal (formerly Journal of Research PAU), Ludhiana, Punjab.
- Editorial Committee Member of Reviewer of ARCC Journal, Karnal, Haryana
- Editorial Committee Member of Reviewer of Association of Agrometeorologist, Anand, Gujarat
- Member of the National organizing committee of Virtual National Conference on “Strategic reorientation for climate smart agriculture (V-AGMET-2021) organized by Association of Agrometeorologist, Anand Gujarat and Ludhiana chapter of AAM with Department of Climate Change and Agricultural Meteorology of PAU, Ludhiana w.e.f.17th to 19th March, 2021.
- Member of National Organizing Committee in International Symposium on “Advances in Agrometeorology for Managing Climatic Risk of Farmers” held at Jawaharlal Nehru University (JNU), New Delhi, w.e.f: 11-13 Feb, 2019.
- Member of National Organizing Committee in National Seminar on “Agrometeorology for Sustainable Development with special emphasis on Agrometeorological Practices for Climate Resilient Farming and Food Security” held at CCS HAU, Hisar during 12-14 October, 2017.

5. Involvement of Research Projects/Schemes

S. No	Name of project	Time Period		Funding agency
		From	To	
1.	All India Coordinated Research Project on Agrometeorology. Chatha, Jammu Centre (as PI)	04-04-16	Continue	CRIDA, (ICAR)-Hyderabad
2.	National Initiative on Climate Resilient Agriculture (NICRA-AICRPAM) Chatha, Jammu Centre (as PI)	04-04-16	Continue	CRIDA, (ICAR)-Hyderabad
3.	FASAL(Forecasting Agricultural Output using Space, Agrometeorology and Land based observations) funded by India Meteorological Department, Ministry of Earth Sciences, Govt. of India, New Delhi as PI	04-04-16	Continue	IMD, New Delhi
4.	Gramin Krishi Mausam Seva (GKMS) at Chatha as Nodal Officer	04-04-16	Continue	-do-
5.	Gramin Krishi Mausam Seva (GKMS) at Rajouri as Nodal Officer	04-04-16	Continue	-do-
6.	All India Coordinated Research Project on Agrometeorology Hisar Centre (as Co- PI)	01-10-14	30-06-15	CRIDA, (ICAR)-Hyderabad
7.	AICRPAM- NICRA, Hisar Centre	01-10-14	30-06-15	-do-
8.	All India Coordinated Research Project for Dry Land Agriculture, DLRSS, Rakh Dhiansar (as PI)	23-02-12	30-09-14	-do-
9.	National Initiative on Climate Resilient Agriculture- Both On-station and On-farm- DLRSS, Rakh Dhiansar (as PI)	23-02-12	30-09-14	-do-
10.	All India Coordinated Research Project on Agrometeorology, Chatha, Jammu Centre. (as Co- PI)	09-10-03	22-02-12	-do-
11.	Integrated Agromet Advisory Services (Technical Officer)	09-10-03	22-02-12	IMD, New Delhi
12.	Collaborative programme on soil moisture observation and Evapotranspiration with IMD, Pune. (as Liaison Officer)	2007	22-02-12	-do-
13.	FASAL(Forecasting Agricultural Output using Space, Agrometeorology and Land based observations) funded by India Meteorological Department, Ministry of Earth Sciences, Govt. of India, New Delhi as Co-PI	2010	2012	-do-

6. Workshops/Annual Review Meetings/Group meetings attended:

S. No.	Name of seminar //conference	Organizing Institute
1.	National symposium on 'Emerging trends in Agricultural Physics' at IARI, New Delhi from 23-24 April, 2003.	IARI, Pusa, New Delhi
2.	National workshop on Remote Sensing & GIS for rural development with special reference to Haryana, Hisar from 29-30 September, 2003	HARSAC, CCSHAU, Campus, Hissar, Haryana
3.	12 th Annual Review Meeting of Agrometeorology Advisory Service on 11-13 th Nov., 2003	CCS, Haryana Agri.University, Hissar
4.	13 th Annual Review Meeting of Agrometeorology Advisory Service on 25-27 Oct, 2004	Anand Agriculture University Anand Gujarat
5.	1 st J & K Science Congress on 7-9 th Feb. 2005	University of Jammu, Jammu
6.	XIV th Annual Review Meeting of Agrometeorology Advisory Service from 30 th Nov- 2 nd Dec., 2005	Assam Agricultural University Jorhat
7.	National seminar on 'Agrometeorology Services for crop and location specific advisories' from 21-22 June, 2006.	IMD, Pune

8.	National Workshop on “Natural Resource Management for Sustainable Hill Agriculture” on 9-10 th November 2006	SKUAST-J
9.	15 th Annual Review Meeting of “Agromet Advisory Services” of NCMRWF, (DST Project) from 4-6 th Jan., 2007	G.B.P Univ. of Agril. Sciences & Technology, Pantnagar
10.	21 st Biennial Workshop of All India Coordinated Research Project for Dryland Agriculture held from 2-5 May, 2007.	SKUAST-Jammu
11.	II nd Annual Review Meeting of Integrated Agromet Advisory Service & National Seminar on “Agrometeorological Services for farmers” (NSASF) from 10 th to 13 th Nov., 2008	Anand Agricultural University, Anand(Gujrat)
12.	Participated in R& D activities of SAC through respond on 18 th August, 2009	University of Kashmir, Hazaratbal Srinagar, Kashmir (J&K)
13.	III rd Annual Review Meeting of Integrated Agromet Advisory Service from 10 th to 12 th Dec., 2009	Indian Institute of Technology (IIT), Roorki
14.	IV th Annual Review Meeting of Integrated Agromet Advisory Service from 20 th to 22 nd Dec., 2010	Acharya N.G.Ranga Agricultural University (ANGRAU), Hyderabad
15.	National seminar on ‘Climate change and Indian Agriculture: Slicing down the uncertainties’ from 22-23 rd Jan.2013.	Central Research Institute for dry land agriculture, Hyderabad
16.	2 nd Annual Review Workshop on AICRPDA-NICRA from 15-17 th December 2013	AICRP on Dryland Agriculture, RARS, Bijapur (Karnatka)
17.	XIII th Biennial workshop of AICRP on Agrometeorology of Hisar centre from 5-7 Nov., 2014	IGKV Raipur
18.	Annual workshop of AICRPAM-NICRA of Hissar centre from 28 to 30 th April, 2015	Agricultural Research Station, Kovilpatti at Agricultural college and Research Institute of TNAU, Madurai.
19.	4 th Jammu and Kashmir Agricultural Science Congress, Organized by J&K state w.e.f. 28-30, October, 2015	SKUAST- Jammu (J&K)-180009
20.	Annual Review Meeting-cum-Farmer Interactive Session and Brain storming meeting on Future thrust and strategies for Agrometeorological Research, Education and Extension in India from 27 th to 30 th April, 2016	CRIDA, Hyderabad
21.	Regional Review meeting of FASAL on 9 th September, 2016.	Rajasthan Agricultural Research Institute, Durgapura, Jaipur
22.	XIV th Biennial Workshop of AICRP on Agrometeorology w.e.f: 5-7 th December, 2016.	Punjab Agricultural University, Ludhiana
23.	10 th ARM on GKMS and 7 th ARM on FASAL w.e.f: 14-17 Dec., 2016.	OUAT, Bhubaneswar, Odisha
24.	National Symposium on Climate Driven Food Production Systems Agrometeorological Interventions “AGMET 2016” w.e.f: December 20-22, 2016.	Tamil Nadu Agricultural University, Coimbatore
25.	Meeting on implementation of Pradhan Mantri Fasal Bima Yojana (PMFBY) in J&K State on 27 th Jan, 2017.	Chanakyapuri, New Dehli
26.	19 th Annual National Conference of Society of Statistics, Computer & Applications (SSCA-17) on “Statistics and Informatics in Agricultural and Allied Sciences” during March 6-8, 2017	SKUAST-J, Chatha, Jammu
27.	Stake holders meeting at SKUAST-K on 23 rd March, 2017.	Srinagar, J&K
28.	Annual Workshop of NICRA-AICRPAM w.e.f: 22-23 rd May, 2017.	Dr.Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli
29.	Brain storm meeting on “Weather forecasting based Dynamic crop calendar formulation” on 03 rd & 04 th August, 2017.	CRIDA, Hyderabad
30.	Meeting of Pradhan Mantri Fasal Bima Yojana (PMFBY) in J&K State under the chairmanship of Financial Commissioner Revenue on 25-09-2017	Srinagar, J&K
31.	National Seminar on Agrometeorology for Sustainable Development with special emphasis on “Agrometeorological Practices for Climate Resilient Farming and Food Security” w.e.f: 12-14 October, 2017.	CCS Haryana Agricultural University, Hisar, India

32	Invited lecture/lead talk in International South Asian Workshop on 25-26 October 2017	CSKHPKV Palampur
33	National Symposium & IPS (NZ)-Meet-2017 on Ecologically Sustainable Plant Disease management under Diversified Farming Situation during November 13-14, 2017	SKUAST-J, Chatha, Jammu
34	National Conference on Innovative Technological Interventions for Doubling Farmers Income (NaCITI-2018) w.e.f. 08-10 Feb., 2018	Society for Integrated Development of Agriculture, Veterinary and Ecological Sciences (SIDAVES), SKUAST-J
35	Third progress review meeting of AICRPAM centres by VII QRT w.e.f.12-13 March, 2018.	Junagadh Agricultural University, Junagadh (Gujarat)
36	Annual workshop of NICRA-AICRPAM w.e.f. 30-31 st May, 2018	Chander Shekhar Azad University of Agriculture & Technology, Kanpur
37	Biennial Workshop of AICRP on Agrometeorology w.e.f. 15-17 th Nov., 2018	Regional Agricultural Research station Vijayapura of University of Agricultural Sciences (UAS) & Technology, Dharwad, Karnataka
38	12 th Annual Review Meeting of GKMS and 09 th Annual Review Meeting of FASAL project, respectively w.e.f: 03 rd -06 th Dec., 2018	Regional Agricultural Research Station, Tirupiti of ANGRAU, Hyderabad, Telegana.
39	National Conference on “Women Empowerment through Agro-entrepreneurship for Livelihood Security (WE-2019)” w.e.f. 07-08 th Feb., 2019	Society for Integrated Development of Agriculture, Veterinary and Ecological Sciences (SIDAVES), SKUAST-J, Chatha
40	International Symposium on “Advances in Agrometeorology for Managing Climatic Risk of Farmers” (INAGMET-2019) organized by Association of Agrometeorologists (AAM), IMD and ICAR-IARI, New Delhi w.e.f: 11-13 th February, 2019	Jawaharlal Nehru University (JNU), New Delhi
41	Annual Workshop of NICRA-AICRPAM w.e.f: 28 th to 30 th May, 2019	CRIDA (ICAR), Hyderabad
42	5 th J&K Agriculture Science Congress on “Climate Change Management for Sustainable Agriculture, Livestock Farming and Ecological Development” during October 14-16, 2019	Main Campus, SKUAST-J, Chatha, Jammu
43	5 th J&K Agriculture Science Congress on “Climate Change Management for Sustainable Agriculture, Livestock Farming and Ecological Development” during October 14-16, 2019	Main Campus, SKUAST-J, Chatha, Jammu
44	Annual Workshop of AICRP on Agrometeorology w.e.f: 04 th to 06 th Dec., 2019.	Zonal Agricultural Research Station (ZARS) of MPKV, Solapur, Maharashtra
45	13 th Annual Review Meeting of GKMS w.e.f: 18 th to 20 th Dec., 2019.	Raj Mata Vijay Raje Scindia Krishi Viswa Vidhalya, Gwalior, Madhya Pradesh
46	National Seminar on “Agrometeorological Innervation for enhancing farmer’s income (AGMET-2020)” organized by Association of Agrometeorologists (AAM) and Kerala Agricultural University, w.e.f: 20-22 nd January, 2020.	College of Horticulture, Kerala Agricultural University, Thrissur, Kerala
47	Annual Workshop of NICRA-AICRPAM w.e.f. 02 to 04 th March, 2020	BACA, Anand Agricultural University, Anand, Gujarat
48	Annual meeting through online mode of GKMS, AMFU of Chatha Centre on 27-04-2020.	IMD (MOES), New Delhi
49	Webinar cum review meeting on discussing the “ Winter weather preparedness, impact based forecast (IBF) and risk based warning, FDP and Fog services” on 20-11-2020 from 1430 to 1630 hrs under chairmanship of respected DGM (IMD), New Delhi.	IMD, New Delhi.
50	Annual meeting through online mode of adhoc project FASAL of Chatha, Centre organized on 03 rd & 04 th Dec., 2020.	Tamil Nadu Agricultural University, Coimbatore in collaboration with IMD (MOES), New Delhi
51	Online training programme on “Addressing Climate and Disaster Stresses in Agriculture: S&T, Innovation and Extension” w.e.f. 09 th to 11 th December, 2020	National Institute of Disaster management, Ministry of Home affairs, GOI and PAU, Ludhiana, Punjab
52	Virtual meeting for discussing the severe weather reporting through croud sourcing interface on 01-02-2021 at 16:00 hrs under chairmanship of respected DGM (IMD), New Delhi.	IMD, New Delhi

53	Webinar cum meeting for discussing the regularly providing the weather service to the farmers of J&K and Ladakh” on 10-03-2021 from 1430 hrs	Director, Meteorological Centre (IMD), Rambagh, Srinagar
54	Online meeting cum training programme on “Dynamic crop weather calendar” on 11-03-2021 from 2:30 to 4:30 P.M.	IMD (MOES), New Delhi
55	Virtual National Conference on “Strategic Reorientation for Climate Smart Agriculture) (V-AGMET 2021) during March 17-19, 2021-	PAU, Ludhiana, Punjab
56	Global Research Initiatives fo Sustainable Agriculture & Allied Sciences (GRISAAS-2021) during 13-15 December 2021	SKRAU Bikaner, Rajasthan

7. Training Programme attended

S. No.	Name of Training Programme	Organizing Institute
1	Training Program on Remote Sensing & GIS for Natural Resources Management <i>w.e.f</i> 11 th to 15 th Dec., 2000	HARSAC, CCS HAU Campus, Hisar, Haryana
2.	Training under Agri-clinics and Agri-business Centres Scheme of Government of India from 24 th Sept to 23 th Nov., 2002	Department of Agriculture and Cooperation, Ministry of Agriculture, Government of India at CCSHAU, Hisar
3.	ICAR sponsored short course on “Weather based Agroadvisories: Value Addition” from Nov. 30 to Dec. 9, 2004	Department of agricultural Meteorology, CCS Haryana Agricultural University, Hisar
4	Training on “Dynamic Crop Simulation Model based Decision Support System and its use in Agromet Advisory Service of NCMRWF” <i>w.e.f.</i> 7-18 th Nov., 2005	GOI, Dept. of Science and Technology, NCMRWF, Noida
5.	4 th SERC School on “Agricultural Droughts-Aspects of Micrometeorology” during 25 th September-15 th October, 2006	CRIDA, Hyderabad
6.	Winter School on “Alternate Land Use Systems for Resource Conservation, Emerging Market Needs and Mitigation of Climate Change in Rainfed Regions” during January 16-February 5, 2009	CRIDA, Hyderabad
7.	DST Training Program on “Advances in Plant-Atmospheric Interactions” during 22 nd October – 11 th November, 2009	AICRP on Agrometeorology, CRIDA, Hyderabad
8.	Training Workshop on “Crop Growth Simulation Model (DSSAT) for wheat crop” from May 23-28, 2011	AICRP on Agrometeorology, PAU, Ludhiana
9	Short Course on “Cropping System Models: Applications in Land Resource Management” during 5-9 December, 2011	ICRISAT, Patancheru, A.P., India
10	In-service Capacity Building on Strengthening the Capabilities in Agromet Data Analysis and modeling” during 3-12 th February, 2015	CRIDA, Hyderabad
11	4 th Capacity building enhancement programme for AICRPAM scientists entitled “Application of Advanced Agrometeorological Tools in Agricultural Production System” <i>w.e.f.</i> 22-03 rd March, 2017.	CCS, HAU, Hisar
12	5 th Capacity building training programme on “Development of Dynamic crop-weather calendar for operationalizing weather forecasting” of AICRPAM during 21 to 28 th Feb, 2018.	JNKVV, Jabalpur
13	6 th Capacity Enhancement Program on “Agrometeorological Applications” of AICRPAM during 16 to 25 th Feb, 2019	Birsa Agricultural University, Kanke, Ranchi

14	7 th Capacity Enhancement Programme of AICRPAM during 4-7 th March, 2020	BACA, Anand Agricultural University, Anand, Gujarat
15	Online Training Programme on “Addressing Climate and Disaster Stresses in Agriculture; S & T, Innovations and Extension” 09-11 December 2020	National Institute of Disaster Management, Ministry of Home Affairs, GOI and PAU, Ludhiana, Punjab
16	International Webinar on “Building Climate Resilience in Agriculture through Agrometeorology and other Technological Interventions” during 15-17 th December, 2020	Centre for Advance Studies on Climate Change, Dr. Rajender Prasad Central Agricultural University, Pusa
17	Training Programme on “National and International Agricultural Higher Education Opportunities” during 15-18 th February, 2021	Mahatma Phule Krishi Vidyapeeth, Rahuri (Maharashtra)
18	Massive Open Online Course (MOOC) on Digital Teaching Techniques during 1-31 st December, 2021	ICAR-National Academy of Agricultural Research Management

8. Research

A. Publications:

Research Paper Published in referred journal	:	81
(National + International = 64 +17 = 81)		
Proceedings Papers	:	13
Book Chapter	:	07
Manual/Scientific Report	:	07
Abstract published	:	32
Project Reports	:	32

B. List of Publication according to NAAS rating

A. Research papers Published in the referred journals:						
S. No.	Year of Pub.	Name of Authors	Title of Research Paper	Journal Name & Volume No.	Page No	Jr ID & NAAS Rating 2015
1.	2002	Singh, Mahender; Niwas, Ram; Yadav, M and Bishnoi, O.P.	Effect of nitrogen levels on spectral indices in relation to Chlorophyll, wax content, grain yield of wheat genotypes in different sowing environment	ISPRS Journal of Photogrammetry and Remote Sensing 34 (7)	357-362	I 003 8.90
2	2020	P. Vijaya Kumar, S.K.Bal, R.K. Dhakar, M.A. Sarath Chandran, A.V.M. Subba Rao, V.M. Sanddep, V.P. Pramod, S.N. Malleswari, G. Sudakar, N.S. Solanki, H.S. Shivaramu, M.M. Lunagaria, K.K. Dakhore, V.M. Lodhe, Mahender Singh, Pragyani Kumari, S. Subbulakshmi, M.H.Manjunatha and N.J. Chaudhary	Algorithms for weather –based management decisions in major rainfed crops of India: Validation using data from multi locations field experiments	Agronomy Journal	01-15	A114 7.81
3	2020	Singh, Mahender; Sharma,Charu; Sharma,B.C.; Vikas Vishaw and Singh Priyanka	Weather based yield prediction model at various growth stages of wheat crop in different Agro Climatic Zones of Jammu region.	Journal of Agrometeorology 22 (sp)	80-84	J033 6.64
4	2020	Singh, Mahender ; Sharma, Charu; Sharma, B.C.; Srivastava, R.K.; Dadhich, Sushmita M.; Singh J.P, and Gupta Vikas	Rainfall probability analysis for crop planning of Jammu region.	Journal of Agrometeorology 22 (sp)	24-32	J033 6.64
5	2020	Gupta, Vikas; Gupta,Meenakshi; Singh, Mahender and Sharma,B.C.	Thermal requirement for phenophases and yield of wheat varieties under various sowing environments and nitrogen levels in sub tropics of Jammu	Journal of Agrometeorology 22 (sp)	170-177	J033 6.64
6	2020	Reena, Amandeep Kaur, Mahender Singh, B.K. Sinha, Anil Kumar and Sahid Ahmad	Impact of Abiotic factors on population dynamics of Bacterocera dorsalis Hendel and Bacterocera zonata(Saunders) at different ecological zones in NW plains of India	Journal of Agrometeorology 22 (3)	250-257	J033 6.64
7	2012	Singh, Mahender and Khushu, M.K.	Growth and yield prediction of wheat in relation to agroclimatic indices under irrigated and rainfed condition	Journal of Agrometeorology 14 (1)	63-66	J 020 6.6
8	2012	Khushu, M.K; Singh, Mahender , Sharma, V; Sharma, C. and Koushal, S.	Temperature trends across the different zones of Jammu region	Journal of Agrometeorology 14 (1)	85-87	J 020 6.6

9	2013	Singh, Mahender ; Khushu, M.K.;Gupta, V.;Kumar,J; Salgotra, R.K. and Dadhich,S.M.	Efficient crop planning in rainfed areas of sub tropical zone of J & K through weather based forecasting	Journal of Agrometeorology 15 (1)	170-173	J 023 6.6
10	2013	Gupta,V; Singh, Mahender ; Kumar, J;Kumar, A;Singh,B.N. and Jamwal B.S	Agrometeorological indices for predicting growth and yield of chickpea for use in agromet advisory services	Journal of Agrometeorology 15 (1)	174-177	J 023 6.6
11	2013	Kour, M.; Singh, K.N.; Singh, Mahender ; Thakur, N.P; Kachroo, D. and Sharma,R.	Assesment of climate change and its impact on growth and yield of wheat under temperate and sub tropical condition through DSSAT4.0	Journal of Agrometeorology 15 (1)	1-6	J 023 6.6
12	2012	Gupta,V; Singh, Mahender ; Kumar, J;Kumar, A;Singh,B.N. and Jamwal B.S.	Screening of post emergence herbicides in chickpea (<i>Cicer arietinum</i>) under rainfed condition of Jammu	Legume Research 35(4)	320-326	L 008 6.6
13.	2001	Singh, S.P; Bishnoi, O.P; Niwas, Ram and Singh, Mahender	Relationship of wheat grain yield with spectral indices	Journal of the Indian Society of Remote Sensing 29 (1&2)	93-96	J 446 6.53
14.	2003	Singh, Mahender ; Ram Niwas; Yadav M. and Rao, V.U.M.	Prediction models for growth & yield of wheat using crop profile characteristics	Journal of the Indian Society of Remote Sensing	127-134	J 446 6.53
15.	2006	Singh, Mahender ; Ram Niwas; Khhicher, M.L.and Yadav,M.K.	Spectral models for estimation of chlorophyll content, growth and yield of wheat crop.	Journal of the Indian Society of Remote Sensing 34 (1)	1-6	J 446 6.53
16	2018	Mahender Singh , Charu Sharma Lobzang Stanzen Rohit Sharma and B.C. Sharma	Rainfall variability over Jammu region in India	Journal of Agrometeorology 20 (2)	180-181	J028 6.40
17	2021	Sultan Singh, A. K. Gupta, Mahender Singh , N. P. Thakur And Lalichetti Sagar	Growth and yield of basmati rice under different crop establishment methods and sowing environment	Mausam, 72, 2	25-434	M026 6.37
18	2021	Yogesh Kumar, Mahendra Singh Raghuvanshi, Kaneez Fatima, Manjeet Singh Nain, Jasbir Singh Manhas, Dorjey Namgyal, Maheshwar S Kanwar, Mehrajuddin Sofi, Mahender Singh , Sonam Angchuk	Impact assesment of weather based agro-advisory services of Indus plain farming community under cold arid Ladakh	Mausam, 72, 4	897-904	M026 6.37
19	2017	Charu Sharma, Mahender Singh , , Rohit Sharma and Veena Sharma	Analysis of rainfall characteristics for crop planning under low altitude sub tropical agro ecological zone of Jammu region	Journal of Agrometeorology19 (Sp. Issue)	60-66	J026 6.36
20	2017	Disket Dolkar, Parshant Bakshi, V.K. Wali, M.K. Khushu, Mahender Singh , and Rafiq Ahmad Shah.	Effect of climate variability on the yield and the quality of kinnow mandarin	Journal of Agrometeorology19 (Sp. Issue)	67-74	J026 6.36
21	2017	Meenakshi Gupta, Charu Sharma, B. C. Sharma, and Mahender Singh	Influence of weather conditions on phenology, thermal indices and yield of wheat cultivars under sub-tropical conditions of Jammu	Journal of Agrometeorology19 (Sp. Issue)	92-97	J026 6.36
22	2020	Reena, M.Sharma, S. Jamwal, Anil Kumar, Mahender Singh and B.K. Sinha	Managing chickpea wilt <i>Fusarium oxysporum</i> through use of biorationals.	Legume research 45(3)	452-457	L011 6.34
23	2020	Vikas Gupta, Meenakshi Gupta, Rajeev Bharat, Mahender Singh and B C Sharma	Performance of wheat (<i>Triticum aestivum</i>) varieties under different thermal regimes and N-levels	Indian Journal of Agricultural Sciences, 90(4)	775-79	I030 6.25
24	2021	Jai Kumar, A.P.Singh, Anil Kumar, Vikas Gupta, Brinder Singh, Mahender Singh, Permendra Singh, reena Sonika Jamwal	Rainfall characteristics and probability analysis for crop planning of Samba district of jammu and Kashmir (U.T.), India	Agricultural Mechanization in Asia, Africa and Latin America 52 (03)	4561-4567	A093 6.17
25	2000	Sharma, K; Niwas, Ram and Singh, Mahender	Effect of sowing on radiation use efficiency of wheat cultivars	Journal of Agrometeorology 20 (2)	166-169	J 026 6.16
26	2004	Singh, Mahender ; Singh, Ram and Ram Niwas.	Dry spells during summer monsoon in South-Western Haryana	Journal of Agrometeorology 6 (2)	257-259	J 026 6.16
27	2008	Khushu, M.K.; Rahman, N.U.; Singh, Mahender , Prakash, Arvind , Tiku, A.K. and Bali A.S.	Thermal time indices for some mustard genotypes in the Jammu region.	Journal of Agrometeorology 10(2)	224-227	J 026 6.16
28	2010	Kour, M.;Singh, K.N.; Singh, Mahender ; Thakur, N.P. & Kachroo, D.	Phenophase prediction model for wheat (<i>triticum aestivum</i>) growth using agrometeorological indices sown under different environments in temperate region of Kashmir	Journal of Agrometeorology 12 (1)	33-36	J 026 6.16
29	2003	Singh, Mahender , Singh, Ram, Niwas, Ram and Sahrawat, K.D.	Study on South-West monsoon rainfall characteristics in arid zone of Haryana	Mausam. 54(4)	837-842	M 019 6.15
30	2014	Gupta,V; Singh, Mahender ;Kumar, Anil; Singh,BC. and Kher, Deepak	Effect of different weed management practices in urdbean (<i>Vigna mungo</i> L. Hepper) under sub tropical rainfed condition of Jmmu,India	Legume Research 37(4)	424-429	L 008 6.09
31	2014	Gupta,V., Sharma, Anil., Kumar, Jai, Abrol, V., Singh, B. and Singh, Mahender	Effect of integrated nutrient management on growth and yield of maize (<i>Zea mays</i> L.) –Gobhi sarson (<i>Brassica napus</i> L) cropping system in sub tropical region under foothills of North –West Himalayas	Bangladesh Journal of Botany 43(2)	147-155	B018 6.00
32	2014	Gupta,V., Singh, Mahender Kumar, Jai Kumar, A., and Singh, B.N.	Performance of different weed management treatments on heat use efficiency of chickpea crop (<i>Cicer arietinum</i>) under rainfed condition of Jammu	Indian Journal of Agricultural Sciences.84(9)	1082-87	I022 6.0
33	2021	Gupta Vikas; Gupta ,Meenakshi; Bharat, Rajeev; Singh, Mahender ;	Effect of sowing environments and N-levels on wheat varieties under irrigated region of Jammu	<i>Indian Journal of Agricultural Sciences</i> 91	515–20	

		Sarabdeep Kour and Sharma, B. C.		(4): April 2021		
34	2022	Vikas Gupta, Meenakshi Gupta, S. S. Sandhu, Mahender Singh , Sarabdeep Kour, Rajeev Bharat, A. P. Singh, Permendra Singh, Brinder Singh	Evaluation of wheat varieties and their validation through CERES-Wheat model under lower foothills of Shivalik range of N-W Himalayas	<i>Agricultural Mechanization in Asia</i> (AMA), V.53(02), February, 2022	6051-65	
35	2022	Rakshit Bhagat, Mahender Singh and BC Sharma	Growth and productivity of gobhi sarson (<i>Brassica napus</i>) cultivars under diverse sowing environments	<i>Indian Journal of Agricultural Sciences</i> 92 (10), October 2022	1202–1207	
36	2023	Rakshit Bhagat, Mahender Singh , BC Sharma and Gurinder Singh	Influence of sowing date on growth and productivity of rapeseed-mustard: a review	<i>Journal of Oilseed Brassica</i> , 14 (1), January 2023	1-10	
37	2023	Rakshit Bhagat, Mahender Singh and BC Sharma	Crop weather relationship in oilseed rape (<i>Brassica napus</i>) for north-west foothills of Himalayas, India	<i>Indian Journal of Agricultural Sciences</i> 93 (4), April 2023	409–414	
38	2019	Vikas Gupta; Daleep Kachroo; Meenakshi Gupta; B.C. Sharma; Anil Kumar; R. Punia; Mahender Singh ; Neeraj Gupta and Monica Banotra	Different alternate land-use systems for livelihood security under sub- tropical conditions of lower shivaliks hills- a review	The Pharma Innovation Journal: 8 (3)	3514-3522.	I190 5.38
39	2020	Rohit Sharma, Vishaw Vikas, Mahender Singh, Vikas Sharma, Vishal Sharma and Deepak Kumar	Sunshine and wind speed effect on COVID-19 cases in mid hill region of Rajouri and Jammu districts of Jammu & Kashmir, Union Territory, India	The Pharma Innovation Journal: 9 (8)	164-166	T201 5.38
40	2020	Mahender Singh, Vishaw Vikas, Rohit Sharma and Charu Sharma	Impact of weather on COVID-19 pandemic in various locations of Jammu division of Jammu & Kashmir, Union Territory, India	International Journal of Current Microbiology and Applied Sciences 9 (9)	1751-1756	I201 5.38
41	2018	Vikas Gupta, Anil Kumar, Meenakshi Gupta, B.C. Sharma, Mahender Singh , Monica Banotra, Sapna Bhagat and Ashu Sharma	Astrological Interventions and their utilization prospects for soil and water conservation in Hill Agriculture- a review	International Journal of Current Microbiology and Applied Sciences. 7 (1)	71-73	I190 5.38
42	2022	Rakshit Bhagat, Mahender Singh , BC Sharma and Uma Shankar	Effect of sowing environments on yield attributes and yield of Gobhi Sarson (<i>Brassica napus</i> L.) cultivars under sub-tropics of Jammu region	<i>Journal of Oilseed Brassica</i> , 13 (1) : January 2022	7-10	
43	2020	Rohit Sharma, Vishaw Vikas, Mahender Singh, Deepak Kumar, Vikas Sharma and Vishal Sharma	Diurnal variation in Soil Temperature during Lockdown amid COVID-19 pandemic in mid hill region of Rajouri district of Jammu & Kashmir, Union Territory, India	Current Journal of Applied Science and Technology 39 (30)	83-88	C178 5.32
44	2020	Rohit Sharma, Vishaw Vikas, Mahender Singh, Manish Kr Sharma, Narinder Panotra, Charu Sharma and Deepak Kumar	Analyzing the Effect of lockdown on weather parameters amid COVID-19 pandemic on mid hill region of Rajouri districts of Jammu & Kashmir, Union Territory, India	British Journal of Environment and Climate Change 10(9)	133-153	B167 5.29
45	2020	Veena Sharma, Mahender Singh and B.C.Sharma	Analysis of weather forecast of intermediate zone of Jammu region to issue biweekly Agromet Advisory	International Journal of Agriculture Sciences 12 (15)	10114 - 10117	B167 5.29
46	2020	Mahender Singh, Vishaw Vikas, Charu Sharma and Rohit Sharma	Effect of lockdown amid COVID-19 pandemic on weather parameters of mid hill region of Jammu district of J&K, UT	British Journal of Environment and Climate Change 10(9)	53-77	B167 5.29
47	2020	Mahender Singh , Vishaw Vikas, Sushmita M. Dadhich and Rohit Sharma	Impact of lockdown amid Covid-19 pandemic on Temperature and Rainfall in sub Himalayan ranges of Jammu and Kashmir Union Territory, India	<i>British Journal of Environment and Climate Change</i> 10(12)	110-125	B167 5.29
48	2020	Vishaw Vikas, J.P. Sharma, Mahender Singh, Manish Kr Sharma, Rohit Sharma, Vinod Gupta, Balbir Dhotra, Amitesh Sharma, Satish Kumar and Aarushi Singh	Air quality changes during weekend lockdown amid coronavirus (COVID-19) pandemic: Case study of Jammu district (J&K) India	Chemical science review and letters 9 (36)	1020-1025	C069 5.21
49	2017	Mahender Singh , Lobzang Stanzen, Charu Sharma, BC Sharma & Rohit Sharma	Effect of Sowing environment on growth and yield of wheat (<i>Triticum aestivum</i> L.) varieties	Journal of Pharmacognosy and Photochemistry. 6 (6)	2522-2525	J 359 5.21
50	2020	Mahender Singh, Vishaw Vikas and Rohit Sharma	Temporal change in carbon dioxide levels in atmospheric during weekend lockdown restrictions amid COVID-19 pandemic in Jammu city of Jammu & Kashmir, Union Territory, India	International Journal of Ecology and Environmental Sciences 2 (4)	42-44	I209 5.18
51	2020	Veena Sharma and Mahender Singh	Agromet Advisory in Subtropical Zone of Jammu – Accuracy of Rainfall Forecast.	<i>Journal of soil and water conservation</i> . 19(4)	404-408	J477 5.08
52	2020	Brinder Singh; Anil Kumar; Vikas Gupta, Vikas Abrol ; A.P. Singh; Jai Kumar; Mahender Singh ; Hemant Dadhich and Permendra Singh	Effect of organic and inorganic nutrients on pearl millet (<i>Pennisetum glaucum</i>)- gobhi sarson (<i>Brassica napus</i> var. <i>napus</i>) cropping sequence.	Indian Journal of Agricultural Sciences; 90(2)	458-505.	T049 5.03
53	2013	Gupta Vikas, Singh Mahender , Kumar Anil, Sharma B. C. and Kher Deepak.	Influence of different weed management practices on weed dynamics and yield of Urdbean (<i>Vigna mungo</i>) under rainfed conditions of Jammu	<i>Indian Journal of Agronomy</i> , 58 (2)	220-225	I025 5.00
54	2016	Gupta, Neeraj; Wali, V.K.; .Singh, V.B; Singh, Mahender and Kumar, Vijay	Effect of seasonal variations and weather parameters on yield, quality and disease incidence in Guava cultivars under rainfed condition of Jammu region	The Bioscan 11(1)	627-633	T017 4.57
55	2005	Khushu, M.K. and Singh, Mahender	Thermal response of mustard under rainfed condition of Jammu	Environment and Ecology. 23(3)	683-686	E 054 4.09
56	2007	Rahman, N.U; Sastri, A.S.R.A.S.; Patel, S.R. and Singh, Mahender .	Water requirements of different wheat genotypes in Chhattisgarh Plains.	Environment and Ecology. 25(4)	745-747	E 054 4.09
57	2007	Singh, Mahender ; Sharma, B.C.;	Performance of maize cultivars as affected by	Environment and Ecology. 1099-		E 054

		Sharma, Neetu, Bali, A.S. and Khushu, M.K.	Solar Radiation under Jammu condition.	25S (4)	1102	4.09
58	2008	Sharma, B.C.; Singh, Mahender ; Sharma, Neetu, Khushu, M.K. and Gupta, N.K.	Growth parameters and yield of maize cultivars affected by Transpiration Rate at moisture sensitive stages.	Environment and Ecology. 26 (1A)	437-440	E 054 4.09
59	2011	Singh, Mahender and Khushu, M.K.	Estimation of Evapotranspiration in Mustard Using Campbell Diez Model.	Environment and Ecology 29 (3A)	1281-82	E 054 4.09
60	2012	Gupta, V; Singh, B.N; Kumar, J; Singh, Mahender and Jamwal B.S	Effect of Imazathypar on weed control and yield in chickpea under kandi belt of low altitude sub tropical zones of Jammu	Madras Agricultural Journal 99 (1-3)	81-86	M 002 3.98
61	2016	Rashid, G; Khushu, M.K; Raza, Nazia; Singh, Mahender and Khar, Sanjay	Potential climate change impacts on water resources in Jammu	Journal of Soil and water conservation 15 (2)	155-159	J405 3.68
62	2020	Mahender Singh, Vishaw Vikas, Rohit Sharma Charu Sharma and Sushmita M. Dadhich	Impact of lockdown measures during COVID-19 pandemic on water vapors in sub temperate and sub tropical zone of Jammu region of Jammu & Kashmir, Union Territory, India	Chemical Sciences International Journal	28-54	C068 3.67
63	2013	Singh Mahender, Khushu, M. K., Gupta Vikas and Kumar Jai.	Biomass partitioning and water use efficiency of mustard cultivars sown under different environments	<i>Annals of Plant and Soil Research</i> , 15 (1)	9-14	A155 3.66
64	2012	Gupta, V; and Singh, Mahender;	Effect of seed priming and fungicide treatment on chickpea (<i>Cicer arietinum</i>) sown at different sowing depths in khandi belt of low altitude sub tropical zone of Jammu	Applied Biological Research 14 (2)	187-192	A153 3.60
65	2006	Ram Niwas; Singh, Mahender and Khhicher, M.L.	Effect of Sowing environments and nitrogen levels on light interception and its efficiency of dry matter production in wheat cultivars	Annals of Agricultural Research. 27(3)	271-276	A139 3.02
66	2003	Sharma, K; Niwas, Ram and Singh, Mahender	Photo thermal indices in relation to phenology of wheat	Agri. Sci. Diget. 23 (4)	279-281	A 062 3.0
67	2002	Singh, Mahender ; Singh, Ram and Niwas, Ram.	Study on onset and withdrawal of South -West monsoon over Hisar region (Haryana)	Annals of Biology. 18 (10)	49-51	A 142 2.98
68	2005	Singh, Baljeet; Lakra, B.S; Ram Niwas & Singh, Mahender .	Influence of depth of planting on development of Black Scurf in Potato (<i>Rhizoctonia solani</i>)	Annals of Biology. 21(2)	241-244	A 142 2.98
69	2005	Singh, Baljeet; Lakra, B.S; Ram Niwas, & Singh, Mahender	Effect of planting time on Black Scurf development in Potato	Annals of Biology. 21(2)	245-248	A 142 2.98
70	2014	Kumar, Parveen, Singh, Mahender and Singh, B.	Extension strategies for diversification of agriculture in Jammu region of Jammu and Kashmir state	Trends in Biosciences 7(13)	1377-80	T072 2.74
71	2008	Khushu, M.K.; Singh, Mahender ; Gupta, Vikas, and Rahman, N.U.	Prediction of phenology from thermal indices in maize sown under different environments	Advances in Plant Sciences 22(1)	175-179	A052 2.72
72	2005	Ram Niwas; Sastry, C.V.S; Khhicher, M.L. and Singh, Mahender	Influenced of thermal indices of crop growth and yield of Pearl Millet cultivars.	Forage Research. 31 (3)	192-196	F 060 2.58
73	2012	Gupta, V., Kumar, A., Sharma, B.C. Singh, Mahender and Kumar, Jai	Legume intercropping and in-situ green manuring as well as FYM application in maize along with inorganic fertilizers in wheat for sustainability of maize – wheat system under rainfed condition	Haryana Journal of Agronomy 28(1&2)	19-24	H002 2.28
74	2003	Singh, Mahender , Niwas, Ram, Bishnoi, O.P. and Sharma, K.	Phenology of wheat cultivars in relation to thermal indices under different management practices.	HAU Journal of Research 33	23-28	H002 2.28
75	2003	Sharma, K; Niwas, Ram and Singh, Mahender .	Heat use efficiency of wheat cultivars under different sowing environments	HAU Journal of Research 33	103-106	H002 2.28
76.	2012	Sharma, N, Singh, Mahender , Sharma, B.C. and Kumar, Anil	Impact of climate change on food security in India	Rashtriya Krishi 7(1)	33-36	R009 2.07
77.	2006	Khushu, M.K; Singh, Mahender ; Tiku, A.K. and Bali, A.S.	Yield prediction model of mustard under rainfed condition of Jammu	Journal of Research SKUAST-J. 5(2)	159-164	J 340 1.8
78.	2008	Khushu, M.K.; Gupta, Vikas; Rahman, N.U.; Singh, Mahender and Tiku, A.K.	Biomass portioning of Maize crop under different microclimatic conditions	Journal of Research SKUAST-J7(2)	232-237	J 340 1.8
79.	2011	Khushu, M.K., Tiku., A.K and Singh Mahender	Photosynthetically active radiation (PAR) distribution in mustard canopy	Eucarpia Cruciferae Newsletter 30(22)	9-10	
80.	2012	Khushu, M.K., Tiku., A.K , Rao, B.B., Rao, V.U.M, Singh Mahender and Sharma, Charu	Transpiration responses to vapour pressure deficit in mustard (<i>Brassica juncea</i> L.)	Eucarpia Cruciferae Newsletter 31(22)	34-36	
81.	2017	Veena Sharma, Mahender Singh and Rohit Sharma	Accuracy of Rainfall Forecast in Issuing Agromet Advisory for Low Intermediate Agro- Climatic Zone of Jammu region	Journal of Safe Agriculture 01 2)		

C. Book Chapters

S.No.	Year	Authors	Title	Publisher
1.	2006	M.K.Khushu, Vikas Gupta, A.K.Tiku, Mahender Singh and Naseer-U-Rahman	Validation of Campbell Diez model in maize for use in crop management in hill region of Jammu. In Resource Management for North Western Himalayas	Soil conservation society of India Jammu Chapter
2.	2007	M.K.Khushu, Mahender Singh , A.K.Raina, Vikas Gupta, and A.S.Bali.	Rainfall analysis of Jammu region for use in Agromet Advisory Services. In National Resource Management for Sustainable Hill Agriculture	Soil conservation society of India Jammu Chapter
3.	2010	M.K.Khushu, Mahender	Impact of Climatic Change on Agriculture	Climate Change and

		Singh & Anil Sharma	over Jammu & Kashmir (Eds VUM Rao, G.S.L.H V. Prasada Rao & G.G.S.N.Rao)	Agriculture over India PHI Learning, New Delhi
4.	2010	Mahender Singh, Pursotum Kumar Sharma and Brij Nandan	Rain water management for efficient crop planning in rainfed areas. (Eds Sharma B.C, Sharma, Anil. Sharma, Vikas)	Technology Innovation in dry land farming system. IBDC Publishers
5.	2019	Mahender Singh, Charu Sharma and Bharat Singh Ghanghas	Climate Change Impacts in Agriculture over Jammu and Kashmir. In Climate Change and Agriculture. Ed. GSLHV Prasada Rao, V.U.M. Rao, DVS Rao. pp.315-340.	Publisher New India Publishing Agency. New Delhi.
6	2019	Mahender Singh, Rohit Sharma, Charu Sharma and Bharat Singh Ghanghas	Weather Forecasting and Advisory: An aid for Sustainable Agricultural Transformation. In Integrated Transformation of Agriculture. Ed. Jag Paul Sharma. pp.345-370.	Publisher New India Publishing Agency. New Delhi.
7	2019	Veena Sharma, Mahender Singh, Vikas Sharma, Vishaw Vikas and Narender Panotra	Remote Sensing: A vital approach for transforming Indian Agriculture. In Integrated Transformation of Agriculture. Ed. Jag Paul Sharma.. pp.391-406.	Publisher New India Publishing Agency. New Delhi

D. Manuals and Technical Bulletins

S.No	Year	Authors	Title	Publisher
1.	2011	Sharma, Neetu; Singh, Mahender, Kumar, Anil and Sharma, B.C	Manual of Rainfed Agriculture	State Agricultural Management and Extension Training Institute, Directorate of Ext.Edu., SKUAST_J
2.	2014	Singh, D; Singh, Mahender; Singh, Raj; Singh, S. and Rao, V.U.M	Climatic variability and its periodicity at Hisar (Haryana)	AICRP on Agrometeorology, Department of Agril. Meteorology, CCSHAU, Hisar
3.	2015	Singh,D; Mehnaj,TA Singh, Mahender; Singh, S; Singh, Raj and Rao, V.U.M	El Nino and SW Monsoon dynamics vis-a- vis agricultural productivity in Haryana, India	AICRPAM-NICRA Centre, Department of Agril. Meteorology, CCSHAU, Hisar
4.	2015	Kour, Sarbadeep, Singh, Mahender & Gupta, Meenashi	Course manual on Disaster Management	
5.	2017	Singh, Mahender, Sharma, Rohit, Sharma, Charu, Sharma, Rajeev, Sharma, Veena & Gupta, Vinod	Meteorological Handbook for Jammu Region.	Agrometeorology Section, of SKUAST-J, Chatha, Jammu
6.	2018	Singh, Mahender, Sharma, Charu, Sharma, B.C.Sharma Rajeev, Lobzang Stanzen, P.Vijaya Kumar & S.K.Bal	Climatic Variability/Change in Jammu Province of J&K State	Agrometeorology Section, of SKUAST-J, Chatha, Jammu
7.	2020	Singh, Mahender, Sharma, Rohit, Veena Sharma and B.C.Sharma	Agromet Advisory Services for Planning Farm Operations in Jammu Region	Agrometeorology Section, of SKUAST-J, Chatha, Jammu

E. Paper Published Proceedings/Seminars/Conferences/winter/summer schools (13 Nos.)

1. L.K. Bishnoi; Meena Sewhag, and **Mahender Singh**,.2002. Role of cultural practices in IPM in Cotton. Proceeding in State level training course on IPM cotton at IATTE, Kisan Asharm CCS HAU, Hisar from Nov.12-16, 2002.pp:63-65.
2. L.K. Bishnoi.; A.P. Sharma; B.P.S. Lather; **Mahender Singh**, and Meena Sewhag.2002."Role of abiotic factors on Cotton. Productivity and how to manage them. Proceeding of Crop improvement for Tolerance to abiotic stresses. Deptt. Pl. Breeding CCS HAU, Hisar on Jan.4, 2003.pp: 130-134.

3. M .K.Khushu and **Mahender Singh**. 2004. Recent techniques for measuring plant water status Porometer and Infra Red Thermometer. In Summer school on Sustainable and Integrated Nutrient Management for North Western Himalayas from 27th Sept. to 17th Oct., 2004.pp.299-304.
4. **Mahender Singh**, Charu Sharma, Rajeev Sharma, Veena Sharma and B C Sharma (2006). Rainfall variability and its impact on different crops over Jammu region. National symposium-AGMET 2016, Climate Driven Food Production system: Agrometeorological Interventions. Dec 20-22, TNAU, Coimbatore.
5. Disket Dolkar, Parshant Bakshi, V.K. Wali, M.K. Khushu, **Mahender Singh**, and Rafiq Ahmad Shah (2006) . Effect of climate variability on the yield and the quality of kinnow mandarin. National symposium-AGMET 2016, Climate Driven Food Production system: Agrometeorological Interventions. Dec 20-22, TNAU, Coimbatore.
6. **Mahender Singh**, and M.K. Khushu. 2009. Recent trends in agro meteorological research for better agricultural planning. In ICAR sponsored winter school on “ Conservation farming through efficient use of resources to sustain livelihood of dry land farmers of North –West Himalayas” organized by Division of Agronomy SKUAST-J, Chatha, Jammu from 16th Jan. to 05th Feb.,2009.pp.321-324.
7. M.K. Khushu and **Mahender Singh**. 2009. Crop modeling for optimum climatic parameters for higher productivity in rainfed area. In ICAR sponsored winter school on “ Conservation farming through efficient use of resources to sustain livelihood of dry land farmers of North –West Himalayas” organized by Division of Agronomy SKUAST-J, Chatha, Jammu from 16th Jan. to 05th Feb.,2009.pp.318-320.
8. M.K. Khushu, **Mahender Singh**, V. Koul., and G.Rasid, 2009.Impact of climate change on Insect Pest current perspectives. Proceedings of summer school on “ Ecologically based integrated Pest Management under Eco fragile Hill Ecosystem” organized by Division of Entomology SKUAST_ J from 14th July to 3rd Aug.,2009. pp 301-305.
9. M.K. Khushu and **Mahender Singh**. 2011.Agomet advisory services: Formulation and dissemination in Jammu. Proceedings of Training course on “Advanced production technologies for kharif cereal crops in Jammu division” organized by SAMETI, SKUAST-J, Chatha, Jammu. pp. 80-83
10. Veena Sharma; Vikas Sharma; **Mahender Singh**, Abhijit Samanta; VM Arya and Peeyush Sharma (2019). Carbon farming to mitigate climate change. In the Souvenir of 5th J &K Agriculture Science congress on Climate change Management for Sustainable Agriculture, Livestock Farming and Ecological Development organized by SKUAST-J during 14-16th Oct., 2019. Pp. 25-35.
11. V.B. Singh; Vijay Kumar; Rakesh Kumar; A. K. Singh and **Mahender Singh** (2019). Influence of climate change on Disease Interactions in Fruit Crops under Rainfed condition. In the Souvenir of 5th J &K Agriculture Science congress on Climate change Management for Sustainable Agriculture, Livestock Farming and Ecological Development organized by SKUAST-J during 14-16th Oct., 2019. Pp. 36-38.
12. Vikas Vishaw; **Mahender Singh**; Vikas Abrol; Narinder Panotra and Balbir Dhotra (2019). Geospatial technologies for climate resilience in Agriculture. In the Souvenir of 5th J &K Agriculture Science congress on Climate change Management for Sustainable Agriculture, Livestock Farming and Ecological Development organized by SKUAST-J during 14-16th Oct., 2019. Pp. 86-91.
13. **Mahender Singh**, Charu Sharma, B.C. Sharma and Rohit Sharma (2021). Analysis of monthly temperature and rainfall trends for Kathua districts of Jammu region. In virtual National Conference on “Strategic reorientation for Climate Smart Agriculture” (V-AGMET-2021), organized by Association of Agrometeorologist, Anand and Punjab Agricultural University, Ludhiana from 17-19th March. 2021 Pp. - 283-286.
14. Veena Sharma, **Mahender Singh**, Sonam Lotus and B.C.Sharma (2021). Usability of weather forecast to issue agromet advisory for Jammu district. In virtual National Conference on “Strategic reorientation for Climate Smart Agriculture” (V-AGMET-2021), organized by Association of Agrometeorologist, Anand and Punjab Agricultural University, Ludhiana from 17-19th March. 2021 Pp. - 154-157.
15. Vikas Gupta; Meenakshi Gupta; S.S.Sandhu; **Mahender Singh** and Sarabdeep Kour (2021). Calibration and validation of CERES-Wheat model for wheat varieties under lower foothills of Shivalik range of Himalyan region. In virtual National Conference on “Strategic reorientation for Climate Smart Agriculture” (V-AGMET-2021), organized by Association of Agrometeorologist, Anand and Punjab Agricultural University, Ludhiana from 17-19th March. 2021 Pp. - 172-175.

Abstract Published Proceedings/Seminars/Conferences/winter/summer schools (32 Nos.)

1. **Mahender Singh** and M.K. Khushu. 2010. Acquaintance with automatic weather station and other state of art of meteorological instruments “Integrated Farming for High Hills” on 10th Feb.2010 organized by Division of Agronomy SKUAST-J, Chatha, Jammu from 05th to 25th Feb., 2010.
2. V.K.Razdan, Bikram.Singh, Vikas Sharma,, Mahender Singh, R.Peshin, B.Sharma, and D.Kumar, 2015.Souvenir & Abstract of 4th Jammu & Kashmir Agricultural Science congress on "Technological Innovations, Opportunities and Challenges for Sustainable Rainfed Agriculture for Food and Livelihood security" organized by SKUAST-J, Chatha, Jammu from 28th to 30th October, 2015.

3. H.Dadhich, S.M. Dadhich, and Mahender Singh. 2015. Evaluation of resource conservation machineries under Maize cultivation. 4th Jammu & Kashmir Agricultural Science congress on organized by SKUAST-J, Chatha, Jammu from 28th to 30th October, 2015, pp113.
4. Meenaxshi Gupta, Charu Sharma, Rajeev Sharma, Mahender Singh and Jagjiwan Ram. 2015. Prediction of Phenology based on Agro meteorological Indices of maize sown under different environments. 4th Jammu & Kashmir Agricultural Science congress on organized by SKUAST-J, Chatha, Jammu from 28th to 30th October, 2015; pp.201.
5. Mahender Singh and Ram Niwas. 2015. Impact of weather parameters on growth and yield of wheat varieties sown under Different nitrogen levels and environments. 4th Jammu & Kashmir Agricultural Science congress on organized by SKUAST-J, Chatha, Jammu from 28th to 30th October, 2015; pp.254.
7. Dadhich, H., Dadhich, S.M. and Singh, Mahender. 2015. Evaluation of resource conservation machineries under Maize cultivation. 4th Jammu & Kashmir Agricultural Science congress on organized by SKUAST-J, Chatha, Jammu from 28th to 30th October, 2015, pp113.
8. Gupta, M., Sharma, Charu, Sharma, R., Singh, Mahender and Jagjiwan Ram. 2015. Prediction of Phenology based on Agro meteorological Indices of maize sown under different environments . 4th Jammu & Kashmir Agricultural Science congress on organized by SKUAST-J, Chatha, Jammu from 28th to 30th October, 2015; pp.201.
9. Singh, Mahender and Ram Niwas. 2015. Impact of weather parameters on growth and yield of wheat varieties sown under Different nitrogen levels and environments. 4th Jammu & Kashmir Agricultural Science congress on organized by SKUAST-J, Chatha, Jammu from 28th to 30th October, 2015; pp.254.
10. Veena Sharma and Mahender Singh 2016. "Usability of weather forecast in issuing Agromet advisory" presented in International Agronomy Congress organized at IARI, ICAR, New Delhi from 22nd to 26 Nov.,2016.
13. Charu Sharma, **Mahender Singh**, Rajeev Sharma and Veena Sharma, 2016. Analysis of rainfall characteristics for crop planning under low altitude sub-tropical agro-ecological zone of Jammu region. National symposium-AGMET 2016, Climate Driven Food Production system: Agrometeorological Interventions. Dec 20-22, TNAU, Coimbatore
14. **Mahender Singh**, Rohit Sharma, Charu Sharma and B C Sharma 2017. Climate Change and its impact on Agriculture with special reference to Jammu region. National Seminar on Agrometeorology for Sustainable Development with special emphasis on Agrometeorological Practices for Climate Resilient Farming and Food Security held at CCS HAU, Hisar during 12-14 October, 2017. pp. 15.
15. Charu Sharma, **Mahender Singh**, B C Sharma and Rohit Sharma. 2017. Analysis of changes in Rainfall trends by Mann-kendall trend and Sen's slope estimator statistical test in Jammu. National Seminar on Agrometeorology for Sustainable Development with special emphasis on Agrometeorological Practices for Climate Resilient Farming and Food Security held at CCS HAU, Hisar during 12-14 October, 2017. pp.109.
16. Rohit Sharma, **Mahender Singh**, Anil Bhushan, Charu Sharma and Vinod Gupta 2017. Role of Agromet Advisories for optimizing production of Vegetable Crops in Intermediate Zone of Jammu Region. National Seminar on Agrometeorology for Sustainable Development with special emphasis on Agrometeorological Practices for Climate Resilient Farming and Food Security held at CCS HAU, Hisar during 12-14 October, 2017. pp.151.
17. **Mahender Singh**, Lobzang Stanzen, Charu Sharma and B C Sharma 2017. Effect of weather parameters on development of stalk rot disease and their influence on yield of maize cultivars. National Symposium on Ecologically Sustainable Plant Disease Management under Diversified Farming Situation held at SKUAST-Jammu, Main Campus Chatha (J&K) during 13-14 November, 2017. pp. 83.
18. Lobzang Stanzen, **Mahender Singh**, Charu Sharma and Veena Sharma 2017. Impact of Yellow rust on seed yield and growth stages in wheat under different sowing environments in Jammu region. National Symposium on Ecologically Sustainable Plant Disease Management under Diversified Farming Situation held at SKUAST-Jammu, Main Campus Chatha (J&K) during 13-14 November, 2017. pp. 89.
19. **Mahender Singh**, Lobzang Stanzen, Charu Sharma, B C Sharma and Rohit Sharma 2018. Heat unit requirement of wheat cultivars sown under different environments in sub tropical region of Jammu. National Agronomy Congress-2018 on Redesigning Agronomy for Nature Conservation and Economic Empowerment held at GBPUAT, Pantnagar, Uttarakhand during 20-22 February, 2018. pp 359.
20. Lobzang Stanzen, **Mahender Singh**, Charu Sharma, B C Sharma and Rohit Sharma 2018. Effect of sowing dates on growth and yield attributes of different Maize cultivars sown under Sub tropical condition in the foothills of NW Himalayan Region. National Agronomy Congress-2018 on Redesigning Agronomy for Nature Conservation and Economic Empowerment held at GBPUAT, Pantnagar, Uttarakhand during 20-22 February, 2018. pp 599.
21. **Mahender Singh**, Lobzang Stanzen, Veena Sharma, Charu Sharma, Rohit Sharma and B C Sharma. 2018. Influence of Weather Variables on Growth and Productivity of Wheat Crop in Subtropical Region of Jammu. National Conference on Innovative Technological Interventions for Doubling Farmers' Income (NaCITI - 2018)

- organized by Society for Integrated Development of Agriculture, Veterinary and Ecological Sciences (SIDAVES) held at SKUAST-J during 8-10th Feb., 2018. pp. 12/LWB.
22. Veena Sharma, **Mahender Singh** and Rohit Sharma. 2018. Accuracy of Rainfall Forecast in Issuing Agromet Advisory for Low Intermediate Agro-climatic Zone of Jammu Region. National Conference on Innovative Technological Interventions for Doubling Farmers' Income (NaCITI - 2018) organized by Society for Integrated Development of Agriculture, Veterinary and Ecological Sciences (SIDAVES) held at SKUAST-J during 8-10th Feb., 2018. pp. 11/AGRI.
 23. Veena Sharma, **Mahender Singh** and Lobzang Stanzen. 2018. Verification of Medium Range Weather Forecast for Jammu District of J&K. National Conference on Innovative Technological Interventions for Doubling Farmers' Income (NaCITI - 2018) organized by Society for Integrated Development of Agriculture, Veterinary and Ecological Sciences (SIDAVES) held at SKUAST-J during 8-10th Feb., 2018. pp. 25/AGRI.
 24. Lobzang Stanzen, **Mahender Singh**, Charu Sharma, Veena Sharma and B.C. Sharma. 2018. District Level Wheat Yield Forecasting based on Weather Variables in diverse Agro-Climatic Region of Jammu. National Conference on Innovative Technological Interventions for Doubling Farmers' Income (NaCITI - 2018) organized by Society for Integrated Development of Agriculture, Veterinary and Ecological Sciences (SIDAVES) held at SKUAST-J during 8-10th Feb., 2018. pp. 62/AGRI
 25. Veena Sharma, **Mahender Singh**, B.C. Sharma and Vishaw Vikas. (2019). Accuracy of Rainfall Forecast in issuing Agromet Advisory for Low Intermediate Agroclimatic Zone of Jammu Region in 5th J&K Agriculture Science Congress on Climate Change Management for Sustainable Agriculture, Livestock Farming and Ecological Development held at SKUAST-J during 14-16 October, 2019 P.p-51.
 26. Rohit Sharma; **Mahender Singh**; Deepak Kumar; Vikas Sharma; Sunil Mishra; Narinder Panotra; Charu Sharma Vishaw Vikas and Vishal Sharma (2019). Agrometeorological Advisory Services- A boon for farmers in Indian Agriculture. In 5th J&K Agriculture Science Congress on Climate Change Management for Sustainable Agriculture, Livestock Farming and Ecological Development held at SKUAST-J during 14-16 October, 2019 P.p- 52.
 27. Vishaw Vikas; Jag Paul Sharma; **Mahender Singh**, Rohit Sharma; Charu Sharma and Veena Sharma (2019). Remote Sensing: An effective space tool in field of Agriculture. In 5th J&K Agriculture Science Congress on Climate Change Management for Sustainable Agriculture, Livestock Farming and Ecological Development held at SKUAST-J during 14-16 October, 2019 P.p- 50.
 28. Vikas Gupta; Meenakshi Gupta; **Mahender Singh** and Rajeev Bharat (2019). Application of DSSAT Model for Agronomic adaption strategy for wheat varieties under changing climatic condition. In 5th J&K Agriculture Science Congress on Climate Change Management for Sustainable Agriculture, Livestock Farming and Ecological Development held at SKUAST-J during 14-16 October, 2019 P.p- 43.
 29. Vikas Gupta; A.P.Singh; Brinder Singh; **Mahender Singh** and Sanjeev Kumar (2019). Decadal trend analysis of temperature variability and its impact on Monsoon system under Shivalik foothills of Jammu and Kashmir. In 5th J&K Agriculture Science Congress on Climate Change Management for Sustainable Agriculture, Livestock Farming and Ecological Development held at SKUAST-J during 14-16 October, 2019 P.p- 21.
 30. **Mahender Singh**, Charu Sharma, Vishaw Vikas and Veena Sharma (2020). Thermal requirement for growth and yield of Basmati rice cultivars under different growing environments. National Seminar on Agrometeorological interventions for enhancing farmer's income (AGMET-2020), organized by Association of Agrometeorologist, Anand and Kerala Agricultural University, Thrissur from 20-22 January. 2020 Pp.- 215.
 31. **Mahender Singh**; Charu Sharma; Vishaw Vikas; Veena Sharma; B.C. Sharma, Rohit Sharma and Vikas Gupta (2019). Variability in rainfall and effective onset of the growing season over Jammu region. In 5th J&K Agriculture Science Congress on Climate Change Management for Sustainable Agriculture, Livestock Farming and Ecological Development held at SKUAST-J held at SKUAST-J during 14-16 October, 2019. P.P- 73
 32. Veena Sharma and **Mahender Singh** (2020). Accuracy of weather forecast to issue agromet advisory for Jammu district. National Seminar on Agrometeorological interventions for enhancing farmer's income (AGMET-2020), organized by Association of Agrometeorologist, Anand and Kerala Agricultural University, Thrissur from 20-22 January. 2020 p.p- 262.
 33. **Veena Sharma and Mahender Singh, 2021**. Agromet Advisory Services under Gramin Krishi Mausam Sewa in Farmers Decision Making in two days Training Programme in "Agromet Advisory Services to Mitigate Climate Change" under State Agricultural Management and Extension Training Institute (SAMETI) at SKUAST-J, Chatha, w.e.f 23 to 24th Sept., 2021. Pp. 4.
 34. **Mahender Singh, Veena Sharma and Charu Sharma, 2021**. Role of Weather Forecasting in Crop Production in two days Training Programme in "Agromet Advisory Services to Mitigate Climate Change" under State

- Agricultural Management and Extension Training Institute (SAMETI) at SKUAST-J, Chatha, w.e.f 23 to 24th Sept., 2021. Pp. 30.
35. **Mahender Singh, Veena Sharma and Charu Sharma, 2021.** Climate risk management for crop production under climate change Scenario in two days Training Programme in “Agromet Advisory Services to Mitigate Climate Change” under State Agricultural Management and Extension Training Institute (SAMETI) at SKUAST-J, Chatha, w.e.f 23 to 24th Sept., 2021. Pp. 46.
 36. **Veena Sharma and Mahender Singh, 2021.** Agromet Advisory Services and Mobile Apps in Farmers Decision Making for Climate Smart Agriculture in two days Training Programme in “Climate Resilience and Adaptation Vision 2021” under State Agricultural Management and Extension Training Institute (SAMETI) at SKUAST-J, Chatha, w.e.f 27 to 28th Sept., 2021. Pp. 4.
 37. **Mahender Singh, 2021.** Climate smart agriculture and agro advisory service in compendium in training on “Climate Smart Agriculture : Soil health and carbon farming organized under State Agricultural Management and Extension Training Institute (SAMETI) at SKUAST-J, Chatha, w.e.f 01 to 03rd Nov., 2021. Pp. 53-64.
 38. **Mahender Singh, Charu Sharma, B.C. Sharma and Vikas Gupta, 2022.** Effect of weather parameters on growth and yield of basmati rice varieties direct seeded on different sowing environments in International Web Conference on Global Research Initiatives for Sustainable Agriculture & Allied Sciences (GRISAAS-2021) and organized by Astha Foundation, Meerut in Collaboration with CSAUAT, Kanpur; IGKV, Raipur; UAHS, Shivamogga; BAU Ranchi; & SSDAT, Meerut (UP) India at SKRAU, Bikaner, Rajasthan during 13-15 December 2021. Pp 42.
 39. **Mahender Singh, Monika Banotra, Charu Sharma, B.C. Sharma and Veena Sharma (2022).** Yield forecasting of Maize (*Zea Mays*) crop in five districts of Jammu region using statistical model in Union Territory of J&K. In National Conference on Managing Weather and Climate Risks in Agriculture-Adapting Crops to Climate Variability and Uncertainty (AGMET-2021) and organized by Sher-e-Kashmir University of Agricultural Sciences & Technology of Kashmir (SKUAST-K), Shalimar & Association of Agrometeorologists, Anand Gujarat-Kashmir Chapter at SKUAST-K, Shalimar, Srinagar, Kashmir, (J&K). Srinagar during 24-26 March, 2022.
 40. **Mahender Singh, Charru Sharma, Monika Banotra, B.C Sharma and Lobzang Stanzin (2022).** Effect on growth and radiation use efficiency of maize varieties sown in different sowing environments under NW Foothills of Himalayan Region. In National Conference on Managing Weather and Climate Risks in Agriculture-Adapting Crops to Climate Variability and Uncertainty (AGMET-2021) and organized by Sher-e-Kashmir University of Agricultural Sciences & Technology of Kashmir (SKUAST-K), Shalimar & Association of Agrometeorologists, Anand Gujarat-Kashmir Chapter at SKUAST-K, Shalimar, Srinagar, Kashmir, (J&K). Srinagar during 24-26 March, 2022.
 41. Charu Sharma, **Mahender Singh, Monika Banotra and B.C. Sharma (2022).** Estimating of wheat growth and yield using DSSAT-CERES model under Subtropical region of Jammu. In National Conference on Managing Weather and Climate Risks in Agriculture-Adapting Crops to Climate Variability and Uncertainty (AGMET-2021) and organized by Sher-e-Kashmir University of Agricultural Sciences & Technology of Kashmir (SKUAST-K), Shalimar & Association of Agrometeorologists, Anand Gujarat-Kashmir Chapter at SKUAST-K, Shalimar, Srinagar, Kashmir, (J&K). Srinagar during 24-26 March, 2022.
 42. Monika Banotra, **Mahender Singh, Charru Sharma, B.C. Sharma and Rohit Sharma (2022).** Forecasting yield of wheat (*Triticum aestivum*) at three different stages through statistical model in Jammu district of Jammu and Kashmir. In National Conference on Managing Weather and Climate Risks in Agriculture-Adapting Crops to Climate Variability and Uncertainty (AGMET-2021) and organized by Sher-e-Kashmir University of Agricultural Sciences & Technology of Kashmir (SKUAST-K), Shalimar & Association of Agrometeorologists, Anand Gujarat-Kashmir Chapter at SKUAST-K, Shalimar, Srinagar, Kashmir, (J&K). Srinagar during 24-26 March, 2022.

F. Awards in Oral/Poster Presentation

1. Best poster presentation award in International Symposium on “**Agrometeorology and Food Security**” held at Central Research Institute for Dryland Agriculture, Hyderabad, India during 18-21 February, 2008
2. Best poster presentation award for the research paper entitled “Assessment of Climate Change and its impact on growth and Yield of Wheat under temperate and sub-tropical condition through DSSAT 4.0” in National Symposium on “**Climate Change and Indian Agriculture: Sliding Down the Uncertainties**” held at Central Research Institute for Dryland Agriculture, Hyderabad, India during 22-23 January, 2013

3. Best oral presentation award in National Seminar on “**Agrometeorology for Sustainable Development with special emphasis on Agrometeorological Practices for Climate Resilient Farming and Food Security**” held at CCS HAU, Hisar during 12-14 October, 2017
4. Best poster presentation awards in National Symposium on “**Ecologically Sustainable Plant Disease Management under Diversified Farming Situation**” held at SKUAST-Jammu, Main Campus Chatha (J&K) during 13-14 November, 2017
5. Best Oral Presentation award for research paper entitled “Conditional Probability for Rainfall Analysis of Wet and Dry Spell for Crop Planning under different Agro climatic Zone of Jammu Region.” in the International Symposium on “**Advances in Agrometeorology for Managing climatic Risks of Farmers (INAGMET-2019)**” held at Jawaharlal Nehru University (JNU), New Delhi, w.e.f: 11-13 Feb, 2019.
6. Best Oral Presentation award in National Conference on “**Climate Change Management for Sustainable Agriculture, Livestock Farming and Ecological Development**” held at SKUAST-J, Main Campus, Chatha, Jammu during October 14-16, 2019

Research Papers Reviewed for different journal as reviewer:

28

9. TEACHING:

a. Courses taught : Actively involved in courses offered for teaching of UG and PG by Division of Agronomy

- i. Disaster Management (PGS-506)
- ii. Agrometeorology and crop weather forecasting (Agron 505)
- iii. Crop production and system modelling (Agron 603)
- iv. Principal of agronomy including Agril. Met (Agron 112)
- v. Environment Studies and Disaster Management (**For 112**)
- vi. Rainfed Farming (Agron 413)
- vii. Introduction to Agricultural Meteorology and Climate Change (Agron 223)

b. Student Guided/Guiding (PG) : 09

Major Guide (M.Sc.) as major: : 03

Mr. Rakshit Bhagat, Reg. No J-18-M-541-A during 2018-19

Ms. Tyashi Tolma, Reg. No J-19-M-610-A during 2019-20

Mr. Jaskaran Sagar, Reg. No J-22-M-882-A during 2022-23

Major Guide (Ph.D.) as major: 02

Mr. Asif Ali Reg. No J-21-D-432-A during 2021-22

Mr. Shesh Narayan Reg. No J-22-D-493-A during 2022-23

Member of advisory committee : 07

As expert thesis evaluated of M.Sc & Ph.D. (other universities) : 12

c. Papers sets for other institutes for Job

- As examiner for setting of paper of course no. AGR-314 (Introductory Agrometeorology & Remote Sensing) for College of Temperate Sericulture and Research Institute, SKUAST-K, Srinagar, J &K in Jan., 2020.
- As Question paper setter for the post of Subject Matter Specialist (Agro- Meteorology) for the KVK, Baramulla of ICAR under CITH, Srinagar (J&K).
- As Question paper setter for written Competitive Examination in respect to Recruitment to the posts of T-01 and T-02 advertised by CSIR-IIM, Jammu.

d. As expert for viva voce of M.Sc. & Ph.D. Students (other universities)

- Act as External Examiner for conduct of M.Sc. Student namely Mr. Divyajyoti Majumder of School of Climate Change & Agril. Meteorology, PAU, Ludhiana on 20-08-2015.
- Act as External Examiner for conduct of Ph.D. Student namely Mr. Divesh Choudhary of Department of Agril. Meteorology, CCSHAU, Hisar on 24-03-2016.
- Act as External Examiner for evaluation of Ph.D thesis of Deptt. Agril Metereology, CCSHAU-Hisar of **Mr. Abhilash**, Admn. No.2016A55D vide letter no.: PGS/A6/dated 17-09-2020.

- Act as External Examiner for conducting the Preliminary/ comprehensive oral examination of the Ph.D student **Mr. Mohit Kamboj**, admission no.2018A5D of Deptt. Agril Metereology, CCSHAU-Hisar vide letter no.: PGS/A7/486-87 dated 14-08-2020 and conducted on 28.09.2020 at 10:00 A. M.
- Act as External Examiner for conducting the Preliminary/ comprehensive oral examination of the three (03) Ph.D student Mr. Pankaj Dahiya, admission no.2018A7D, Ms. Harsana (2019A11D) and Mr. Mohit Kamboj, 2018A5D of Deptt. Agril Metereology, CCSHAU-Hisar vide letter no.: PGS/A7/54-55 dated 12-02-2021 and PGS/A7/121-122 dated 06-03-2021 and conducted on 22.03.2021 at 10:30 A.M., 11:30 A.M and 2:30 P.M., respectively.
- Act as external examiner to evaluate the Ph.D. thesis of Ms. Ranu Pathania, adm. No A-2014-40-006 of COA, CSK, H.P.Krishi Vishvavidyalaya, Palampur, H.P.

10. EXTENSION ACTIVITIES

A. Participation as Resource person during training programme for field functionaries, farmers awareness camps, short duration training courses, KVK programmes, Village Visit and Revisit programme demonstrations at Kisan Melas, Field demonstrations, Referral Hospital Service, individual consultation, Clinical camps/ radio, T.V. talk etc.

S. No	Place/ Village/ District	Activity	Role (Resource/ Organizer)	Date	Number of beneficiaries
1	Kissan Mela-2022 SKUAST-J, Chatha, Jammu	Demonstrate the Agrometeorological work to the farmers	Participated	7-11 th March, 2022	
2	Kissan Mela-2022 SKUAST-J, Chatha, Jammu	Farm Implements distribution programme under SC-SP (Capital head) of NICRA-AICRPAM	Organizer	10 March, 2022	48
3	Village-Keso Manhasan, Distt. Samba	One day farmer awareness programme under SC-SP of NICRA-AICRPAM and also distribute the input to farmer	Organizer	18 th Feb., 2022	130
4	Village Ranjri, Vijaypur, District Samba	One day farmer awareness programme under SC-SP of AICRPAM and also distribute the input to farmer	Organizer	9 th Feb., 2022	150
5	Village Rathana, R.S.pura, Jammu	One day farmer awareness programme under SC-SP of AICRPAM and also distribute the input to farmer	Organizer	06 Dec., 2021	150
6	Village Fatehpur Salaharian, R.S.pura, Jammu	One day farmer awareness programme under SC-SP of NICRA-AICRPAM and also distribute the input to farmer	Organizer	24 Nov., 2021	102
7	Kissan Mela-2021 SKUAST-J, Chatha, Jammu	Demonstrate the Agrometeorological work to the farmers	Participated	7-11 th October, 2021	
8	Village Jinder Mehlu, R.S.pura, Jammu	One day farmer awareness programme under SC-SP of NICRA-AICRPAM and also distribute the input to farmer	Organizer	24 Aug., 2021	188
9	FSR centre (AICRP-IFS), SKUAST-Jammu	Invited lecture delivered on on the topic of "Impact of Climate Change on Oilseed Crops with special reference to J&K" in the Two days training programme on 'New Technologies and Development in Oil Seed cultivation' w.e.f. 23-24 th March, 2021.	Resource person	24 th March., 2021	

10	Kissan Mela-2021 SKUAST-J, Chatha, Jammu	Demonstrate the Agrometeorological work to the farmers	Participated	16 th to 20 th March, 2021	
11	Godhan Akhnoor, District Jammu	One day farmer awareness programme under SC-SP of NICRA-AICRPAM and also distribute the input to farmer	Organizer	3 rd March 2021	83
12	SAMETI, DEE, SKUAST-J, Chatha, Jammu	Deliver lecture on “Microclimatic modification to manage extreme weather vulnerability and climatic risks in crop production in 2 days Training Programme on “Climate Change, Agriculture and food Security” organized by State Agricultural Management and Extension Training Institute	Resource person	06-07 th Jan. 2021	40
13	Department of Environment Science, University of Jammu, Jammu	Invited lecture delivered through online on the topic of “ Weather forecasting and its applications” in the refresher course of Two weeks on ‘Environmental Science (Interdisciplinary) for university and college lecturers’ y w.e.f. 18 th to 31 st Dec., 2020.	Resource person	30 th Dec., 2020	
14	Village Kanachak, R.S.pura, Jammu	One day farmer awareness programme under SC-SP of AICRPAM and also distribute the input to farmer	Organizer	18 Dec., 2020	80
15	Panch Peer, Suchetgarh R.S.Pura, District Jammu	One day farmer awareness programme under SC-SP of NICRA-AICRPAM and also distribute the input to farmer	Organizer	18 th Dec., 2020	124
16	SKUAST-J, Chatha, Jammu	Five days training programme for newly appointed SMS (KVK Kathua & Reasi) and also for T.O.s of AMFU Chatha & Rajouri	Organizer	02 to 05 th Nov., 2020	04
17	Village Kotli Mirdian, R.S.pura, Jammu	One day farmer awareness programme under SC-SP of AICRPAM and also distribute the input to farmer	Organizer	16 Oct., 2020	160
18	Village Sherepur, Hiranagar Block. Distt. Kathua	One day farmer awareness programme under SC-SP of NICRA-AICRPAM and also distribute the input to farmer	Organizer	14 th Oct., 2020	250
19	Village Mangal, Bishnah Block. Distt. Jammu	One day farmer awareness programme under SC-SP of AICRPAM and also distribute the input to farmer	Organizer	20 th Feb., 2020	165
20	Village Laswara, Bishnah Block. Distt. Jammu	One day farmer awareness programme under SC-SP of NICRA-AICRPAM and also distribute the input to farmer	Organizer	18 th Feb., 2020	172
21	Training Hall of SAMETI, SKUAST-J	Deliver lecture on Climate Change and adaption strategies for Rain fed Agriculture in Diploma in Agricultural extension services for Input Dealers	Resource person	15 th Feb., 2020	49
22	Village Mangal, Bishnah Block. Distt. Jammu	One day farmer awareness programme under SC-SP of AICRPAM and also distribute the input to farmer	Organizer	20 th Feb., 2020	165
23	Training Hall of SAMETI, SKUAST-J	Deliver lecture on Agro ecological situation and agro eco system approach in Diploma in Agricultural extension services for Input Dealers	Resource person	08 th Feb., 2020	49
24	Division of Agronomy, SKUAST-J, Chatha, Jammu	Deliver expert lecture on “Conservation agriculture vis-à-vis changing climatic scenario “in ICAR sponsored short course on “Conservation agriculture practices for enhancing productivity and resource use efficiency in major cropping systems” during 04 th – 13 th February, 2020	Resource person	08 th Feb.,2020	25
25	Village Panjgrain, Hiranagar. Distt.	One day farmer awareness programme under SC-SP of NICRA-AICRPAM and	Organizer	23 rd Oct, 2019	220

	Kathua	also distribute the input to farmer			
26	Village Dabbar, Bishnah Block. Distt. Jammu	One day farmer awareness programme under SC-SP of AICRPAM and also distribute the input to farmer	Organizer	25 th Sept., 2019	120
27	Training Hall of SAMETI, SKUAST-J	2 days Training programme on Managing Climate Risk Using Climate Smart Agriculture for officers of line departments	Resource person	18 th -19 th Sept, 2019	40
28	Village Sarthian Kalan, block & tehsil Gangwal, Distt. Samba	On the occasion of World Meteorological Day organized one farmer awareness programme in order to sensitize the farmers about weather parameters and their role on agriculture and its allied field	Organizer	23 rd March, 2019	105
29	Village Haria chak, Distt. Kathua	On the occasion of World Water Day organized One farmer awareness programme under GKMS-AMFU, Chatha,	Organizer	22 nd March, 2019	
30	SKUAST-J, Chatha, Jammu	Training Programme on “ Quality Seed production Technology in Cereal Crops ” in “Climatic norms for quality seed production” by National Seed Research & Training centre (NSRTC), Ministry of Agriculture and Farmer Welfares, GOI, Varansi UP in collaboration with ICAR-Mega Seed project	Resource person	22 nd to 26 th Oct, 2018	
31	Village Sherpur, Distt. Kathua	“One day farmer’s awareness programme on climate Change” under “NICRA-AICRPAM”	Organizer	21 st March, 2018	183
32	Kisan Mela-2018, SKUAST-J, Main campus, Chatha, Jammu	Demonstration of Meteorological equipments and weather based Agromet advisory services	Participated	16 & 17 th Feb., 2018	
33	SKUAST-J, Main campus Chatha, Jammu	National level Working Group Meeting of All India Coordinated research Project on Agrometeorology sponsored by CRIDA (ICAR), Hyderabad	Organizer	27 to 29 th November, 2017	
34	SKUAST-J, Chatha, Jammu	Delivered lecture on “Climate Change and its Impact on Agricultural with special reference to Jammu region” in Training Programme on “Advances in Climate Resilient Soil Management for Sustainable Hill Agriculture”	Resource person	01 to 10 th November, 2017	
35	Research Farm of SKUAST-Jammu	One field day programme on “Weather Management in Farm Operations” under NICRA-AICRPAM Project for the farmers of NICRA adopted villages	Organizer	6 th Oct., 2017	54
36	SKUAST-J, Chatha, Jammu	Delivered lecture on “Climate Change: An Overview” in Short Training Programme on “Sustaining Agricultural and Live stock Productivity in the Scenario of Climate Change” organized by Directorate of Research	Resource person	29 th Aug. to 04 th Sept., 2017	
37	Training Hall of SAMETI, SKUAST-J	Delivered lecture on “Protective Structure in Lieu of Climatic Conditions of Jammu region” in Training Programme on “Protective Cultivation for High- Tech Nursery Raising” under SAMETI-2017	Resource person	28 to 29 th June, 2017.	

38	Kisan Mela- 2017 SKUAST-J, Chatha, Jammu	Demonstrate the Agrometeorological work to the farmers	Participated	17 th & 18 th March, 2017	
39	SKUAST-J, Chatha Jammu	Invited lecture delivered on “Climate Change and its impact on agriculture with special reference to Jammu region” in 19 th Annual conference of Society of Statistics, computer applications-2017 organized by Division of Statistics and Computer Science, Faculty of Basic Sciences, SKUAST-J	Resource person	06 to 08 th March, 2017	
40	Village Pathway, Distt. Samba	Organized “One day farmer’s awareness programme on climate Change” at, on under “Gramin Krishi Mausam Sewa”, AMFU-Chatha in which farmers participated	Organizer	6 th Feb, 2017	122
41	Village Chak Dulma, Distt. Samba	“One day farmers awareness programme on climate Change” under “Gramin Krishi Mausam Sewa”, AMFU-Chatha	Organizer	2 nd Feb, 2017	86
42	Village Chak Lala, Distt. Samba	“One day farmer’s awareness programme on climate Change” at, on under “Gramin Krishi Mausam Sewa”, AMFU-Chatha	Organizer	2 nd Feb, 2017	90
43	Village Siot, Distt. Rajouri,	“One day farmer’s awareness programme on climate Change” under “Gramin Krishi Mausam Sewa”, AMFU-Rajouri.	Resource person	30 th January, 2017	
44	Training Hall of SAMETI, SKUAST-J	Two days training programme on “Impact of climate change on agriculture Sector and its mitigation measures”	Organizer	25 & 26 th May, 2016	42
45	Kisan Mela- 2016 SKUAST-J, Chatha, Jammu	Demonstrate the Agrometeorological work to the farmers:	Participated	18 th and 19 th March, 2016	
46	Training Hall of SAMETI, SKUAST-J	Two days training programme in collaboration with SAMETI on Assuring Food Security under the Challenges of Climate Change for State Agriculture department officers	Resource person	21 st to 22 nd April, 2015	38

B. Radio talks/TV shows (title and date)

- Initial drought & Agriculture JK Channel 12-07-2009
- Effect of delayed monsoon on Agriculture 20-07-2009 IBN& Aaj Tak
- Impact of meteorological parameters on wheat crop Doordarshan Kendra on Feb, 2010
- How Agromet helps to Farmers Doordarshan Kendra on March, 2010.
- Heat Wave in Jammu 26-05-2010 J& K Channel, Take one, Jammu
- Weekly/ biweekly interview in news papers regarding weather situation.

11. Administration and Examiner ship

- Dy. Director Research from 01-07-2015 to 04-04-2016
- Nodal Officer (PME cell) from 05-02-2016 to 04-04-2016
- Incharge, Agrometeorology Section from 05-04-16 to continue
- Incharge Research Farm and Agromet Observatory of Agrometeorology Section
- Incharge, Research farm, Department of Agricultural Meteorology, COA Hisar w.e.f. 01-10-2014.
- Incharge, Dry Land Research Sub Station, Rakh Dhiansar of SKUAST_J, up to 30/09/2014.
- Member of screening committee for appointment of manpower (SMS, Agromet and Agromet observer) for establishment of District Agro Met Uni (DAMU) for KVK Kathua and KVK Reasi vide letter no AUJ/DE/20-21/F-78-79/220-24 dated 29-06-2020.
- Member of selection committee for conducting interview of SMS (Agrometeorology) under DAMU for KVK, Kathua and Reasi held on 28th August, 2020 from 11:00 A.M. onwards in Directorate of Extension,

SKUAST-J, Main Campus, Chatha, Jammu, vide letter no. AUJ/DE/20-21/F-78-79/ 577-81 dated 24-08-2020 of Director of Extension.

- Member Secretary in the selection committee for conducting interview of SRF in FASAL project vide AUJ/DR/ IMD-1/ 4646 dated 21-01-2021

12. Committee work

1. Member of selection committee for conducting interview of SMS (Agrometeorology) under DAMU for KVK Kathua and KVK Reasi vide letter no AUJ/DE/20-21/F-78-79/577-81 dated 29-06-2020 and which was conducted on 28th August, 2020.
2. Acted as member of committee for KVKs constituted for survey, monitor, supervise the process for the auction of unserviceable dead stock items of SKUAST-J, vide letter no. AUJ/Est./G-266/2021/3348-65 dated 05-08-2020.
3. Chairman of Food and Purchase Committee of National Seed Training Programme organized by National Seed Research & Testing Centre (NSR&TC), Varanasi, UP with the ICAR-Mega Seed Project held at SKUAST-J, Chatha, Jammu w.e.f. October 22-26, 2018.
4. Convener of transport committee and Co-Convener of accommodation committee of Kisan Mela 2021 w.e.f. to 16th to 20th March, 2021.
5. Member of food committee for organizing and managing farewell functions of the SKUAST_J, vide letter no . AUJ/FBSc./20-21/F-2/2226-36 dated 30-03-2021.
6. Co-Convener of Food and refreshment committee of Kisan Mela 2021 w.e.f. to 7th to 11th October, 2021.
7. Co-Convener of Food and refreshment committee of Kisan Mela 2022 w.e.f. to 7th to 11th March, 2022.
8. Convener, Hall arrangement committee (WE-2019) in National Conference Women Empowerment through Agr o-entrepreneurship for Livelihood Security (WE-2019) organized by Society for Integrated Development of Agriculture, Veterinary and Ecological Sciences (SIDAVES) held at SKUAST-J during 07-08th Feb., 2019.
9. Member of the committee constitution for working out the effect of erratic weather parameters on *rabi* crops vide letter no. AUJ/DE/19-20/F-225/2231-35, dated 01-01-2020.
10. Member of subcommittee of CPC for evaluation of pre eligibility, technical and financial bids of tenders
11. As a committee member for open auction of grain obtained from different trials of Division of Agronomy, AICRP-WM and PCP fields.
12. As a committee member for making “Practices on Climate Smart Agriculture Management”.
13. As a committee member for making a report on PG theses research outcome regarding “probable impact of unprecedented climate condition on our farming sector” conducted by the scholars of this university
14. Member of Technical & Financial committee for one day brainstorming workshop on “Climate Change and its impact on Hill Agriculture” organized at SKUAST-J, Main campus Chatha on 8th Dec., 2016 .
15. Member of Food committee for one day brainstorming workshop on “Climate Change and its impact on Hill Agriculture” organized at SKUAST-J, Main campus Chatha on 8th Dec., 2016.
16. Convener of food and Hospitality Committee of National Conference on Innovative Technological Interventions for Doubling Farmers’ Income (NaCITI - 2018) organized by Society for Integrated Development of Agriculture, Veterinary and Ecological Sciences (SIDAVES) held at SKUAST-J during 8-10th Feb., 2018.
17. Organizing Secretary of Working Group Meeting of All India Coordinated Research Project on Agrometeorology jointly organized by Agrometeorology Section & CRIDA (ICAR), Hyderabad at SKUAST-J, Chatha, Jammu from 27th to 29th Nov., 2017.

13. Department level:

- Chairman and member of different auction committee and sale of field produce committee of Agrometeorology Section.
- Chairman of purchase committee of Agrometeorology Section.
- As member committee for updating of district Agriculture contingency plan (DACPs).
- Chairman of food and purchase committee of in Training Programme on “Quality Seed production Technology in Cereal Crops” organized by National Seed Research& Training centre (NSRTC), Ministry of Agriculture and Farmer Welfares, GOI, Varansi UP in collaboration with ICAR- Mega Seed project at SKUAST-J, Chatha, Jammu w. e. f. 22nd to 26th Oct, 2018
- Member of purchase committee of Divisional Level Purchase Committee (DLPC) under Chairman of Director of Agriculture, Govt. of J&K, Talab Tilloo Jammu

14. Any other

Other activities

- Establishment of Agromet observatories at newly created Campus at Chatha.
- Establishment of research field of Agrometeorology at new site of SKUAST_J, in Oct., 2010.
- Establishment of Automatic Weather Station in Jammu region.
- Maintenance supervision of Agromet observatory at SKUAST-J, Chatha, Jammu.

- Regularly weather data sending to IMD, Pune, CRIDA, Hyderabad and R & D purposes to other users.
- Updating of ICAR website www.cropweatheroutlook.org.in.
- Installation of three ordinary rain gauges at different location in Jammu regions in which two at KVKS, R.S.Pura & Kathua and one at progressive farmer (Sham Gorkha) field at Jandle Mehru (R.S.Pura) in the month of July, 2010.
- Establishment of Piezometer and Deep bore well at DLRSS, Rakh Dhiansar collaboration with central ground water board, Jammu centre.
- Acted as member of coordination committee of HAUTA Election 2014-15.
- Examination duty in midterm & end term exam of UG & PG.
- Member & Nodal Officer of Agromet Advisory Board under GKMS, AMFU, Chatha & Rajouri of SKUAST-J.
- Sending of weekly NAAS bulletins to every Thursday to CRIDA (ICAR), Hyderabad.
- Monthly expenditure statement of AICRPAM and NICRA-AICRPAM to CRIDA (ICAR), Hyderabad before the 10th of each month
- Updating the website developed by CRIDA (ICAR), Hyderabad of cropweatheroutlook. com.
- Regular updating of weather information/ data on university (SKUAST-Jammu) IMD and ICAR website.

(Dr. Mahender Singh)