



# Self-Assessment Report (SAR) for Annual Internal Ranking (AIR) of Govt. Colleges of Himachal Pradesh for the Academic Session 2024-25

## Criterion 6- Faculty Profile & Research Activities

### 6.6 Seminars, Workshops, Conferences and Trainings organized by the Institutions

#### 6.6.2 National level

{1} Department of Mathematics organized a Five-Days National Mathematics Workshop on Emerging Areas in Differential Equations: Theory, Modelling, Discretization & Numerical Solvers from 16-20 September 2024.

{2} Department of Botany organized a Two-Days National Conference on the topic “Mountain Ecosystem: A Biodiversity Focus”, from 21-22 October 2024.

# Brochure



## A Five-Day National Mathematics Workshop on Emerging Areas in Differential Equations: Theory, Modelling, Discretization & Numerical Solvers September 16-20, 2024 (Offline Mode)



Government College Kullu, Himachal Pradesh, India

### About the Workshop

The aim of this workshop is to bring together scientists and mathematicians working in Differential Equations and related field. Contemporary challenges raised by recent advances in engineering, industry, bio-technology and other related field, will be confronted with state-of-the-art mathematical and computational tools in differential equation. It also provides a premier interdisciplinary platform for experts and teachers to present and discuss the most recent innovations in the emerging areas of differential equations. With an interdisciplinary scope, this workshop also pays attention to numerous applications of recent ODE/PDEs results to other related areas.

### About Institute

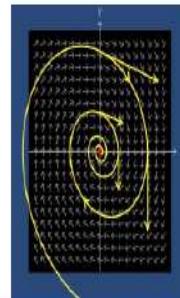
Government College Kullu is one of the oldest and finest educational institution of Himachal Pradesh, providing a steady source of highly skilled talent to the state, nation and abroad. The glorious journey of the college began five decades ago in the year 1967 with 57 students and presently the institution has more than 5000 strength. It is located on the banks of the Beas River. Our alumni have stood out in varied fields such as ministers, MP, MLAs, business and industry, administrative and regulatory services, research and education, social and human rights organizations.

### Kullu : The 'Valley of Gods'

Kullu is a cluster of beautiful valleys in Himachal Pradesh. Located between the majestic Himalayas and river Beas. It is situated at an altitude of 1230 m. Kullu, along with Manali, are favorite hill stations. Scenic views and snow-clad mountains, towering Deodar jungles, rivers and apple orchards have attracted several feature filmmakers too. This place is a hot-spot for adventure sports. Trekking, river rafting, mountaineering, paragliding and hiking over the Himalayan glaciers are some of the activities that Kullu offers. Angling is another activity enjoyed a lot by locals as well as tourists. Mountaineering beginners can trek around the Beas Kund region, Hanuman Tibba and Deo Tibba. Most of the trekking trails are situated beyond the Rohtang Pass in the valleys of Spiti, Lahaul, Zanskar and Ladakh and private companies organize expeditions for up to 12 days. The hot springs of Kheerganga, Manikaran, a pilgrimage and the Great Himalayan National Park are a few of the 'touristy' places worth visiting here.

### Keynote Speaker

- Prof. Rashmi Bhardwaj (GGSIPU, New Delhi)
- Prof. Subir Das (IIT BHU)
- Prof. Shivaji Ganesh (IIT Bombay)
- Prof. Kapil Kumar Sharma (SAU, Delhi)
- Dr. Ravinder Singh (NIT Jalandhar)
- Dr. Paramjeet Singh (TIET)
- Dr. R. Sivaraj (NIT Jalandhar)



### Topics

- Mathematical Modelling in Real World Applications
- Cauchy Problem for First Order Partial Differential Equation
- Weak formulation of PDE
- System of Differential equation
- Numerical Analysis
- Numerical Solution of Boundary Layer Problems
- Numerical Methods for Linear and Non-linear Ordinary and Partial Differential Equations

### Target Audience

Target Audience: Faculty Members, PhD students, Postgraduate students, Undergraduate students and Other Researchers with a background of Applied Mathematics.

### Sponsor



### Organising Committee

Chief Patron  
Principal, Govt. College Kullu  
Chairperson  
Prof. Som Krishan Sharma  
Convenor  
Dr. Santosh Kumar, Department of Mathematics, Govt. College Kullu, Kullu.

Organizing Secretary  
Dr. Paramjeet Singh, School of Mathematics, TIET, Patiala.

Organizing Committee Members  
Prof. Som Krishan Sharma Dr. Man Singh Rana, Prof. Jai Prakash  
Dr. Nischal Sharma Dr. Hiramati Prof. Shubham Deep  
Prof. Pooja Sohal Prof. Lalit M Sharma

Advisory Committee  
Dr. Paramjeet Singh, School of Mathematics, TIET, Patiala.  
Prof. Brij Bala, Govt. College Kullu.  
Prof. Rajesh K Singh, Govt. College Kullu.  
Prof. Sapna Verma, Govt. College Kullu.

### Registration Fee (Rs.3500/3000/2500):

Faculty	Rs. 3500
Research Scholar	Rs. 3000
PG/UG Student	Rs. 2500

Participants will have to pay nominal course fee of Rs.3500/3000/2500. Registration fee includes the Meal (Breakfast, Lunch, and Dinner) Accommodation and Refreshment during the workshop. Accommodation will be provided on sharing basis in guest house or nearby hotel to limited outstation participant.

### Registration Link:

<https://forms.gle/LamjKunewsLiehkV9>

### Bank Details

Bank Name: ICICI Bank Ltd

Account Number: 073601000949

IFSC Code: ICIC0000736

Account Name: Govt. College Kullu PTA

Note that the seats are limited and last date of application is August 31, 2024.

### How to Reach

Kullu is well connected with other parts of country by roads and air.

Roadways: Frequent buses are available from the HRTC bus stands at Kullu and Manali to all major cities. One can avail Taxis also from the Local Taxi Stand.

Airways: Kullu is well connected by airways and one can get flights to and fro from Kullu-Manali Airport at Bhuntar. Bhuntar is 10 kms from Kullu and 50 kms from Manali.

### Contact

Dr. Santosh Kumar, Assistant Professor  
Department of Mathematics, Govt. College Kullu  
E-mail: santosh2365@gmail.com  
Phone: +91 7807510065

## Sanction Letter

FILE NO. SSY/2024/000644  
Anusandhan National Research Foundation (ANRF)  
(A statutory body created by an Act of Parliament - ANRF Act, 2023)  
Science & Engineering Research Board (SERB) Seminar/Symposia Scheme

ANRF  
3rd & 4th Floor, Block II  
Technology Bhavan, New Mehrauli Road  
New Delhi - 110016

Dated: 09 July, 2024

### ORDER

Subject: Financial assistance for the organizing National Workshop on "A Five-Day National Mathematics Workshop on Emerging Areas in Differential Equations: Theory, Modelling, Discretization & Numerical Solvers" by Dr. Santosh Kumar, Government College Kullu, NH 21, Dhalpur, Kullu, Himachal Pradesh-175101 being held from 16-Sep-2024 to 20-Sep-2024 (5 days).

Sanction of Anusandhan National Research Foundation (ANRF) is hereby accorded to the above mentioned project under the Science and Engineering Research Board (SERB) scheme -

Seminar/Symposia at a total cost of Rs. 200000/- (Rs. Two Lakh Only) to Government College Kullu, NH 21, Dhalpur, Kullu, Himachal Pradesh-175101 during the financial year 2024-2025 to meet the expenses related to TA/DA to Young and Senior Indian Scientists, Pre-conference printing in connection with the above event.

2. The amount of Rs. 200000/- (Rs. Two Lakh Only) will be drawn by DDO, ANRF and disbursed by the means of Cheque or Electronic Fund Transfer (NEFT/RTGS) as beneficiary's Bank Details given below.

Agency Name	Govt. College Kullu
PFMS Unique Code	ININ00000312
Account Name	Govt. College Kullu PTA
Account Number	073601000949
Bank Name & Branch	ICICI Bank Ltd Dhalpur, 40/08 Near Kala Kendra Dhalpur Kullu (HP)175101
IFSC/RTGS Code	ICIC0000736
Email id of A/C Holder	gckullu-hp@nic.in
Email id of PI	santosh2365@gmail.com

to Principal, Government College Kullu, NH 21, Dhalpur

3. The expenditure involved is debitible to Science & Engineering Research Fund.

This release is being made under Seminar/Symposia. (Internal Committee). General

4. The Sanction has been issued with the approval of competent authority under delegated powers and vide sanction number to Government College Kullu, NH 21, Dhalpur with the approval of the competent authority under delegated powers on 01 July, 2024 and vide Diary No. ANRF/F/4606/2024-2025 dated 06 July, 2024

5. As per Rule 211(1) of GFRs, the accounts of the Grantee Institution shall be open to inspection by the sanctioning authority/audit whenever the institute is called upon to do so.

6. It is mandatory that the grantee institution is required to submit to this office, audited Statement of Income-Expenditure, Utilization Certificate (in duplicate as per prescribed format) and brief report of above event (max. 04 pages) within three months after the date of completion.

7. The balance amount, if any, must be returned through DD in favour of "Science & Engineering Research Fund" payable at New Delhi.

8. The Organization/Institute/University should ensure that the technical support/financial assistance provided to them by the ANRF, a statutory body of the Department of Science and Technology (DST), Government of India should invariably be highlighted/acknowledged in their media releases as well as in bold letters in the opening paragraphs of their Annual Report.

9. In addition, the investigator / host Institute must also acknowledge the support provided to them in all publications, patents and any other output emanating out of the project/program funded by the ANRF, a statutory body of the Department of Science and Technology (DST), Government of India.

10. The logo of ANRF is to be displayed on all Conferences / Seminars / Symposium material being used for the event.



(Dr. Pankaj Rawat)

Scientist E  
seminar.symposia@anrf.gov.in

To,  
DDO

ANRF, New Delhi

Copy forwarded for information and necessary action to:-

1.	Office of Director General of Audit (Environment & Scientific Department), AGCR Building, I. P. Estate, New Delhi 110002
2.	Sanction Folder, ANRF, New Delhi.
3.	File Copy
4.	Dr. Santosh Kumar Mathematics Government College Kullu , Nh 21, dhalpur , Kullu, Himachal pradesh-175101 Email: santosh2365@gmail.com Mobile: 916280602741 (Start date of the project may be intimated by name to the undersigned. For guidance, terms & Conditions etc. Please visit <a href="http://www.serb.gov.in">www.serb.gov.in</a> )
5.	Principal, Government College Kullu, NH 21, Dhalpur  (Receipt of Grant may be intimated by name to the undersigned)



(Dr. Pankaj Rawat)

Scientist E  
seminar.symposia@anrf.gov.in



Department of Science & Technology  
Govt. of India

SERB, DST Sponsored  
National Conference  
on



## Mountain Ecosystem: A Biodiversity Focus

October 21-22, 2024



Scan or follow  
link to Register



<https://forms.gle/8rFgCjCrb8EKGkBz9>

Organized by  
Department of Botany & IQAC  
Government College Kullu  
District Kullu,  
Himachal Pradesh 175101



Contact Info :  
**Convenor**  
Dr. Man Singh Rana  
Assistant Professor (Botany),  
Government College Kullu.  
Mobile: 94181-84064  
Email: maanurana@gmail.com



### Advisory Committee

- Dr. S.S. Samant, UCOST Utrakhand
- Dr. Lalit Tewari, Kumaon University, Nainital
- Dr. Y.S. Rawat, Kumaon University, Nainital
- Dr. J C Kuniyal Scientist G, GBPNIHE, Almora
- Dr. Kesar Chand, GBPNIHE, Mohal-Kullu
- Dr. Sunil Marpa, YSPUHF, Nauni
- Dr. Pankaj Sharma, Biodiversity Board, GOHP
- Dr. Raju Singh Khoiyangbam, Manipur University
- Dr. Dheeraj Thakur, Scientist C, ICFRE Dehradun
- Dr. Pankaj Kumar, Florida International University
- Dr. Dheeraj Rawat, HPU Shimla

### Organizing Committee

#### Patron

**Dr. Mandeep Sharma**

Principal,  
Government College, Kullu

#### Advisor

**Prof. Som Krishan Sharma**

Assistant Professor (Mathematics),  
Government College Kullu

#### Convenor

**Dr. Man Singh Rana**

Assistant Professor (Botany),  
Government College Kullu

#### Organizing Secretary

**Mr. Nishchal Sharma,**  
Assit. Professor (Computer Science),  
Government College, Kullu

#### Organizing Secretary

**Ms. Monika Parsheera,**  
Assistant Professor (Zoology),  
Government College, Kullu

#### Coordinator

**Dr. Ram Nath**

Associate Professor (Botany),  
Government College Kullu

#### Co-convenor

**Dr. Sakshi B. Rana,**

Assistant Professor (Botany),  
JLN Govt. College, Haripur-Manali

#### Organizing Secretary

**Dr. Harish Anand,**  
Assistant Professor (Botany),  
Government College, Kullu

#### Committee Members

Mr. Rajesh Kumar AP (Chemistry)  
Ms. Sapna Verma AP (Physics)  
Mr. Jai Prakash AP (Physics)  
Dr. Nirmala Chauhan AP (Chemistry)  
Ms. Shweta Chandel AP (Chemistry)  
Ms. Sarita AP (Zoology)  
Mr. Lalit Mohan Sharma AP (Maths)  
Dr. Ashish AP (Chemistry)  
Dr. Ashwini Sharma AP (Chemistry)  
Dr. Sunil Sharma AP (Physics)  
Mr. Rajesh Sharma AP (Chemistry)  
Mr. Shubham Deep AP (Geology)  
Ms. Pooja Sohal AP (Maths)  
Dr. Santosh Kumar AP (Maths)  
Dr. Sohan Lal AP (Physics)  
Mr. Gyan Chand AP (Botany)  
Mr. Ravi AP (Physics)  
Dr. Nandini Thakur ( Environment Science)



Ph. 01902-222568 (O)

E-mail: gckullu-hp@nic.in

## GOVERNMENT COLLEGE, KULLU

DISTT. KULLU (H.P.)

NAAC Accredited B++ Institution

Endorsement from the Head of the Institution

No. : EDN KLU... (To be given on University/Institute/Organization/College/Society Letter Head) Date: 22/04/2024

This is to certify that:

1. Dr./Shri Man Singh Rana, the Convenor of the proposed conference/seminar/workshop/symposia titled Mountain Ecosystem: A Biodiversity Focus is working in our University/Institute/Organization/ College / Society will assume the full responsibility for organizing the same.
2. The convenor is a regular employee of our University/ Institute/ Organization/ College/ Society and working as Assistant Professor, in Botany department.
4. The convenor will be governed by the rules and regulations of University/ Institute/ Organization/ College/ Society and will be under administrative control of the University/ Institute/ Organization/ College/ Society for the completion of all the formalities related to the approved event.
5. The grant-in-aid by the SCIENCE & ENGINEERING RESEARCH BOARD (SERB), New Delhi will be used to meet the expenses related to the approved event only i.e. TA/DA to Young and Senior Indian Scientists, Pre-conference printing etc.
7. The University/ Institute/ Organization/ College/ Society will provide basic infrastructure and other required facilities to the convenor for implementing of the event.
8. The University/ Institute/ Organization/ College/ Society will submit materials(i.e. audited income expenditure statement, brief report of the event, copy of certificate, abstract book etc.) related to the approved event to SCIENCE & ENGINEERING RESEARCH BOARD (SERB), New Delhi after completion.
9. The University/ Institute/ Organization/ College/ Society assumes to undertake the financial and other management responsibilities of the released grant for the event.

Signature of Convener/  
Organizing Secretary

Signature with Seal  
(Head of the Institution/ Vice-Chancellor/Director/Principal)  
(In case of University/ Academic Institution)

Signature of Convener/  
Organizing Secretary

Signature with Seal  
(President/Secretary)  
(In case of Societies/ Association)

Date: 22/04/2024

FILE NO. SSY/2024/000602  
**Anusandhan National Research Foundation (ANRF)**  
(A statutory body created by an Act of Parliament - ANRF Act, 2023)  
Science & Engineering Research Board (SERB) Seminar/Symposia Scheme

ANRF  
3rd & 4th Floor, Block II  
Technology Bhavan, New Mehrauli Road  
New Delhi - 110016

Dated: 27 June, 2024

**ORDER**

Subject: Financial assistance for the organizing National Conference on "Mountain Ecosystem: A Biodiversity Focus" by Dr. Man Singh Rana, Government College Kullu , Nh 21, Dhalpur , Kulu, Himachal Pradesh-175101 being held from 21-Oct-2024 to 22-Oct-2024 (2 days).

Sanction of **Anusandhan National Research Foundation (ANRF)** is hereby accorded to the above mentioned project under the **Science and Engineering Research Board (SERB)** scheme - **Seminar/Symposia** at a total cost of **Rs. 200000/- (Rs. Two Lakh Only)** to Government College Kullu , Nh 21, Dhalpur , Kulu, Himachal Pradesh-175101 during the financial year 2024-2025 to meet the expenses related to TA/DA to Young and Senior Indian Scientists, Pre-conference printing in connection with the above event.

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Agency Name	Govt. College Kullu
PFMS Unique Code	ININ00000312
Account Name	Govt. College Kullu PTA
Account Number	073601000949
Bank Name & Branch	ICICI Bank Ltd 40/8 near Kala Kendra, dhalpur Kullu HP 175101
IFSC/RTGS Code	ICICI0000736
Email id of A/C Holder	gckullu-hp@nic.in
Email id of PI	maanurana@gmail.com

to Principal, Government College Kullu, NH 21, Dhalpur

3. The expenditure involved is debitible to **Science & Engineering Research Fund**.

This release is being made under **Seminar/Symposia**. (Internal Committee). General

4. The Sanction has been issued with the approval of competent authority under delegated powers and vide sanction number to Government College Kullu, NH 21, Dhalpur with the approval of the competent authority under delegated powers on 11 June, 2024 and vide Diary No. ANRF/F/3598/2024-2025 dated 20 June, 2024

5. As per Rule 211(1) of GFRs, the accounts of the Grantee Institution shall be open to inspection by the sanctioning authority/audit whenever the institute is called upon to do so.

6. It is **mandatory** that the grantee institution is required to submit to this office, audited Statement of Income-Expenditure, Utilization Certificate (in duplicate as per prescribed format) and brief report of above event (max. 04 pages) within three months after the date of completion.

7. The balance amount, if any, must be returned through DD in favour of "Science & Engineering Research Fund" payable at New Delhi.

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(Dr. Pankaj Rawat)

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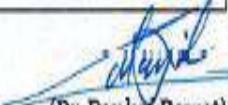
To,

DDO

ANRF, New Delhi

Copy forwarded for information and necessary action to: -

1.	Office of Director General of Audit (Environment & Scientific Department), AGCR Building, I. P. Estate, New Delhi 110002
2.	Sanction Folder, ANRF, New Delhi.
3.	File Copy
4.	Dr. Man Singh Rana Department of Botany Government College Kullu , Nh 21, dhalpur , Kulu, Himachal pradesh-175101 Email: maanurana@gmail.com Mobile: 919418184064 (Start date of the project may be intimated by name to the undersigned. For guidance, terms & Conditions etc. Please visit <a href="http://www.serb.gov.in">www.serb.gov.in</a> .)
5.	Principal, Government College Kullu, NH 21, Dhalpur  (Receipt of Grant may be intimated by name to the undersigned)



(Dr. Pankaj Rawat)

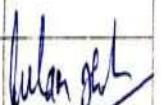
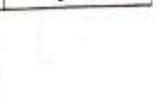
Scientist E

seminar.symposia@anrf.gov.in

National Conference  
on  
Mountain Ecosystem: A Biodiversity Focus  
(October 21-22, 2024)

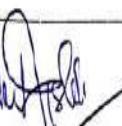
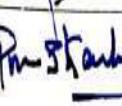
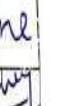
Organizers: Government College, Kullu, Himachal Pradesh

Venue: Government College, Kullu, Himachal Pradesh

Name of Delegate	Department	Organization	Email id	Signature
✓ Dr. S.S. Samant, FNASe		Former Director, ICFRE - HFRI, Shimla; Emeritus Scientist, UCOST - MKSC, Uttarakhand		
✓ Dr. Neelam Thakur,	Zoology	Sardar Patel University, Mandi, HP	neelamthakur@spu.edu.in	
✓ Dr. Sandeep Sharma, IFS		CCF & Director, GHNP, Shamshi		
✓ Dr. Kesar Chand, MSc - NIEC Mohal - Kullu		Scientist, GBPNIHE, Mohal- Kullu	kesarsx@yahoo.com	
✓ Dr. Shreekar Pant, UBS, BGBU		BGSB University, J&K	Shreekar.pant@gmail.com	
✓ Dr. Arun Chandan,		Regional Director, RCFC,	doctorarunandan@gmail.com	

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## Email ID Signature

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9	Dr. Prem S. Kaushal,		Regional Centre for Biotechnology, NCR Delhi	prem.kaushal@rcb.res.in	
10	Dr. Hitesh Kumar	Botany	Sardar Patel University, Mandi, HP	hitesh.biotech@gmail.com	
11	Dr. Neera Thakur	Horticulture Dept(Kullu)	-	ddhkhulu@gmail.com	Dr. Neera Thakur
12	Prof. Rajesh Kumar (Pastee)	Dept. of Chemistry	C. C. Kullu	rajeekhp@gmail.com	
Name of Participant	Department	Organization	Email id	Signature	
1 Dr. Kalpana Bhandari	Department of Botany	N. S. C. B. M. Govt. College, Hamirpur	kalpana.bhandari@gmail.com		
2 Dr. Pooja Kumari	Krishi Vigyan Kendra Kullu	CSKHPKV, Palampur			online
3 Ms. Neha Chaudhary	Department of Botany	Sant Baba Bhag Singh University, Jalandhar Punjab	neha.choharia@gmail.com		N. Chaudhary
4 Ms. Diksha Chaudhary	Department of Botany	Sant Baba Bhag Singh University, Jalandhar Punjab	dikshachaudhary12@gmail.com		Diksha Chaudhary
5 Ms. Sushmita Thakur	Trees Improvement and Genetic Resources	Dr YS Parmar University of Horticulture and Forestry, Nauni, Solan, HP	Sushthakur01@gmail.com		Sushmita Thakur
6 Dr. Sunil Marpa	Department of Forest Products	Dr YS Parmar University of Horticulture and Forestry, Nauni, Solan, HP	Marpa.s@gmail.com		21/10/2024

				Signature	Email-ID
✓ 7	Mr. Bijay Thakur	Department of Environmental science	Tezpur University	Bijay Thakur	bijaythakur3095@gmail.com
✓ 8	Dr. Himani Karki	Department of Botany	DSB Campus, Kumaun University Nainital	Harki	karki_glacier@gmail.com
✓ 9	Mr. Yog Raj	Agrotechnology	CSIR-Institute of Himalayan Bioresource Technology, Palampur, HP, 176061	Yog Raj	negiyograj@gmail.com
✓ 10	Ms. Amna Devi	Biotechnology	CSIR-Institute of Himalayan Bioresource Technology	Amna	thakuramna@gmail.com
11	Dr. Bhagwati Prashad Sharma	Department of Botany	Sidharth Government College Nadaun, Himachal Pradesh		- Present - Online -
12	Dr. Jyoti	Department of Botany	ABV Government College, Sunni, Himachal Pradesh		- Present - Online -
✓ 13	Ms. Parnika Gupta	Centre for Biodiversity Conservation and Management	Forest Research Institute, Dehradun and G.B. Pant National Institute of Himalayan Environment, Almora	Purnika Gupta	parnika.gupta.26@gmail.com
✓ 14	Mr. Anil Kumar	Forest Ecology and Climate Change Division	ICFRE-Himalayan Forest Research Institute, Panthaghati, Shimla	Anil	Sharmaanil2192@gmail.com
✓ 15	Dr. ChanderKanta Vats	Food Science Nutrition and Technology	CSK HPKV, College of Community Science, Palampur	CKVats	CKVats.ku@gmail.com
16	Dr. Suresh Kumar	Department of Botany	Government Degree College Mant, Mathura (Uttar Pradesh)		- Present - Online -
✓ 17	Ms. Kumari Priyanka	Department of Economics	Central University of Himachal Pradesh, Dharamshala, HP	Priyanka	priyazooology987@gmail.com
✓ 18	Ms. Priyanka	Department of Zoology	JLN Government College, Haripur-Manali, HP	Priyanka	thakurpriyanka560@gmail.com
19	Mr. Mohar Singh	Department of Biosciences	Himachal Pradesh University, Shimla		- Online -
✓ 20	Dr. Om Prakash	Faculty of Science	Horticulture Department of Kullu, District Kullu, HP	Om Prakash	omprakash510@gmail.com
✓ 21	Mr. Babit Kumar Thakur	Agrotechnology Division	CSIR-IHBT, Palampur	Babit	babit.thakur.77@gmail.com

				Signature	Email ID
22	Dr. Nidhi Sharma	Department of Botany	Government College, Daulatpur Chowk, Himachal Pradesh		Presented online
23	Ms. Smriti Thakur	Department of Forestry and Environmental Sciences	D.S.B. Campus, Kumaun University, Nainital, Uttarakhand		smritithakur04@gmail.com
24	Ms. Akanksha Thapa	Silviculture and forest management Division	Himalayan Forest Research Institute		akankshathapa2018@gmail.com
25	Mr. Manju Sharma	Department of Environmental Science	Baba Ghulam Shah Badshah University, Rajouri (J&K)		Presented online
26	Ms. Bhavya Sharma	Food Technology	CSIR-IHBT, Palampur		bhavya.sharma.96@gmail.com
27	Ms. Nisha	Silviculture and Forest Management	ICFRE-HFRI		Presented online
28	Dr. Shruti Shah	Faculty of Agriculture and Agroforestry	Kumaun University, Nainital		Presented online
29	Dr. Priyanka Bhatt	Faculty of Agriculture and Agroforestry	Kumaun University Nainital		Presented online
30	Dr. Vijay Kumar	Department of Botany	DSB Campus Kumaun University, Nainital		vijay.botany9@gmail.com
31	Ms. Neetu	Department of Botany	Government P.G. College Fatehabad, Agra, Dr.B.R.Ambedkar University, Agra		Presented online
32	Dr. Shiv Paul	Silviculture and Forest Management Division	ICFRE-Himalayan Forest Research Institute, Shimla, Himachal Pradesh		shivpaul9@gmail.com
33	Dr Sunita Saklani	Department of Zoology	Sidharth Govt. College Nadaun, Distt Hamirpur, Himachal Pradesh.		Presented online
34	Ms Akanksha Thapa	Silviculture and Forest Management Division	Himalayan Forest Research Institute		akankshathapa2018@gmail.com
35	Dr. Mamta Bhatt	Centre for Biodiversity Studies	School of Biosciences and Biotechnology, BGSB University, Rajouri		Presented online
	Dr. Swami Nath	Department of Botany	SGGSJ Govt. College Paonta Sahib		
	Dr. Leena Sharma	Department of Botany	Government College, Daulatpur		

			Email ID	Signature
38	Mr. Vivek Chauhan	Silviculture and Forest Management Division	Chowk, Himachal Pradesh Himalayan Forest Research Institute, Shimla	Vivekchauhan569@gmail.com. V. ch
39	Mr. Gian Chand	Department of Botany	Government College, Kullu	
40	Dr. Prakash Chand	Department of Public adm	R.G.M. Govt. College Joginder Nagar District Mandi HP	prakashchauhan1969@gmail.com online ppt
41	Dr. Ikramjeet Maan	Department of Forestry,	D.S.B. Campus, Kumaun University, Nainital	Ikramjeetmaan@gmail.com
42	Ms Prajvi Sharma		G. B. Pant National Institute of Himalayan Environment, Himachal Regional Centre, Mohal-Kullu	Prajviishi@gmail.com P. sharma
43	Ms. Nazia Koser	Environmental Science	Centre for Biodiversity studies, BGSB University, Rajouri	Nazia Koser@gmail.com
44	Mr. Amerjeet Singh	Forestry	SKUAST-KASHMIR Shalimar Srinagar	Amerjeet Singh@gmail.com
45	Dr. Sakshi B. Rana	Botany	JLN Government College, Harsil- Manali, HP	wondercity@gmail.com Sakshi Rana
46	Dr. Som Krishan Sharma	Mathematics	Government College, Kullu	
47	Dr. Ashish Tewari	Department of Forestry,	Kumaun University Nainital	Ashish Tewari@gmail.com
48	Dr. Kishor Kumar		G. B. Pant National Institute of Himalayan Environment, Himachal Regional Centre, Mohal-Kullu	KishorKotharia@gmail.com Kishor Kumar
49	Ms. Sapna Verma	Physics	Government College, Kullu	Sapna Verma@gmail.com
51	Dr. Ashish Kumar	Chemistry	Government College, Kullu	Ashish Kumar@gmail.com
52	Dr. Sunil Kumar	Physics	Government College, Kullu	Sunil Kumar@gmail.com
53	Mr. Rajesh Kumar	Chemistry	Government College, Kullu	Rajesh Kumar@gmail.com
54	Mr. Amit Kumar	Biosciences	Himachal Pradesh University Shimla	Amit Kumar@gmail.com
55	Dr. Bipin Kumar Sati	Science and technology	Uttarakhand state council for science and technology govt of Uttarakhand	Bipin Kumar Sati@gmail.com
56	Dr. Ashani Kumar	Chemistry	Government College, Kullu	Ashani Kumar@gmail.com
57	Mr. Yogesh Chander	Department of Forestry,	D.S.B. Campus, Kumaun University,	Yogesh Chander@gmail.com



## National Conference on Mountain Ecosystem: A Biodiversity Focus

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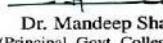
Department of Botany, Govt. College Kullu, Himachal Pradesh

### CERTIFICATE OF APPRECIATION

This is to certify that **Ms. Nisha** from Silviculture and forest management Division, ICFRE-HFRI presented a research paper titled "**Ethnobotanical exploration of wild plants used by people of Outer Seraj Region of Kullu District of Himachal Pradesh, India**" at the National Conference on "Mountain Ecosystem: A Biodiversity Focus" held at Govt. College Kullu, Himachal Pradesh, India during October 21-22, 2024.

  
Dr. Man Singh Rana  
(Convenor)



  
Dr. Mandeep Sharma  
(Principal, Govt. College Kullu)

### Programme For National Conference on Mountain Ecosystem: A Biodiversity Focus (October 21-22, 2024)

**Organizers:** Government College, Kullu, Himachal Pradesh

**Venue:** Government College, Kullu, Himachal Pradesh

#### DAY ONE: 21.10.2024

		Name of Registration Team
09.00 AM	Registration	
9:30 - 11:00 AM		Inaugural Session (MP Hall)
	Floor management	Prof Sapna Verma Dr. Sakshi
	Lighting of Lamp	
	Felicitation	
	Welcome Address	Dr. Ram Nath, Head, Department of Botany, Govt. College, Kullu, HP
	About the Conference	Dr Man S Rana, Assistant Professor, Department of Botany, Govt. College, Kullu, HP
	Keynote Address "Need for the Conservation and Management of Himalayan Ecosystem"	Dr. S.S. Samant, DSc, FNASc, FLS, FRSB, FSE Former Director ICFRE - HFRI, Shimla and Emeritus Scientist, UCOST- MKSC, Almora, Uttarakhand
	Address by the Chief Guest	Dr. Mandeep Sharma, Principal, Government College, Kullu
	Vote of Thanks	Dr. Brij Bala Head, Department of Chemistry, Govt. College, Kullu, HP
11:00 -11:30 AM		HIGH TEA
11:30-2:00 PM	Technical Session I: Current Scenario of Himalayan Biodiversity (Conference Hall)	
	Chair: Dr. S.S. Samant, DSc, FNASc, FLS, FRSB, FSE, Former Director, ICFRE - HFRI, Shimla; Emeritus Scientist, UCOST - MKSC, Uttarakhand	
	Co-Chair: Dr. Neelam Thakur, Sardar Patel University, Mandi HP	
	Rapporteurs: Prof Monika, Prof Ashwani	
	Keynote/Invited Speakers	
	Conservation of Biological Diversity: Concept and Scope	
	Dr. ML Thakur, Programme Coordinator, State Biodiversity Board, Shimla, HP	

	<b>Nanotechnology Innovations in Cancer Treatments via Preserving Gut Microbial Diversity and Reversing Gut Dysbiosis</b> Dr. Neelam Thakur, Sardar Patel University, Mandi, HP
<b>Paper Presentations by Participants</b>	
	<b>A Check List of Insect Fauna of Krishnapur Area in Nainital, Uttarakhand</b> Ms. Priyanka Bhatt, Kumaon University, Nainital
	<b>Diversity and regeneration status of <i>Quercus floribunda</i> Lindl. ex A. Camus. dominated forest in Uttarakhand</b> Ms. Ikramjeet Maan, Kumaon University, Nainital
	<b>Variation in Forest Vegetation along an altitudinal gradient in Nainital District of Kumaun Himalaya,</b> Dr. Shruti Shah, Kumaon University, Nainital
	<b>Bryophytes as Hidden Treasure of Biodiversity</b> Ms. Nazia Koser, BGSB, Rajouri JGK
	<b>Diversity and Conservation Status of Floristic Diversity in and around Nainadevi Rewalsar Sacred Shrine in Himachal Pradesh, India</b> Dr. Sunil Marpa, YSPU, Solan
	<b>Current scenario of Biodiversity in Great Himalayan National Park</b> Ms. Sushmita Thakur, YSPU, Solan
	<b>Influence of elevation gradient on the distribution of non-native plants across different habitats</b> Mr. Bijay Thakur, Tezpur University, Assam
	<b>Upward migration of trees and treeline in Himachal Pradesh due to Climate Change</b> Ms. Prajvi Sharma, GBPNIHE, Mohal-Kullu
	<b>Assessment of Plant Diversity in Urban Landscape of Himalayan Region: A Case Study of Kullu, Himachal Pradesh</b> Ms. Smriti Thakur, Kumaon University, Nainital
<b>2:00-3:00 PM</b>	<b>LUNCH</b>
<b>3:00-5:00 PM</b>	<b>Technical Session II: Biodiversity Conservation and Management (Conference Hall)</b>
	<b>Chair:</b> Dr. Sandeep Sharma, CCF & Director, GHNP, Shamshi <b>Co-Chair:</b> Dr. Prem S. Kaushal, Regional Centre for Biotechnology, NCR Delhi <b>Rapporteurs:</b> Dr Harish and Dr Shubham
	<b>Keynote/Invited Speakers</b>
	<b>Topic</b> <b>Great Himalayan National Park Conservation Area</b> Dr. Sandeep Sharma, CCF & Director, GHNP, Shamshi <b>Wildlife Research for Mountain Conservation in Himachal Pradesh</b> Dr. Salvador Lyngdoh, Scientist WII, Dehradun <b>Phytochemical diversity of Himalayan essential oils and their applications</b> Dr. Shyam Masakpalli, School of Bioengineering, IIT Mandi
	<b>Paper Presentations by Participants</b>
	<b>Ecological Niche Modeling of a Threatened Multipurpose Tree Species <i>Cinnamomum tamala</i> in the Indian Himalayan Region</b> Dr. Shiv Paul, HFRI, Shimla
	<b>Comparative floristic assessment of a Municipal Solid-Waste impacted micro-watershed in a Himalayan District: Implications for phytoremediation</b> Ms. Parnika Gupta, GBPNIHE, Almora, Uttarakhand

	<p><b>Diversity and Ethnobotanical Assessment of Herbal Plants in Keoladeo National Park Bharatpur Rajasthan: A Pathway to Sustainable Conservation</b>  Ms. Neetu Singh, Government P.G. College Fatehabad Agra, Dr. B.R. Ambedkar University Agra</p> <p><b>Ecological distribution and population assessment of economically important medicinal plant <i>Cinnamomum tamala</i> (Tejpatta) in Uttarakhand, Central Himalaya, India</b>  Ms. Akanksha Thapa, HFRI, Shimla</p> <p><b>Intrusion and Encroachment of the River by Humans in Himalayas and its Effect on Riverine Ecology: Special case of Beas River</b>  Ms. Priyanka, JLN Government College, Haripur-Manali, HP</p> <p><b>Seed Viability and Germination Behaviors of <i>Fritillaria cirrhosa</i> D. Don an Important Medicinal Plant Species of North Western Himalaya</b>  Mr. Vivek, HFRI, Shimla</p> <p><b>Biodiversity and Conservation</b>  Dr. Nidhi Sharma, Government College, Daulatpur Chowk, Una, Himachal Pradesh</p> <p><b>Climate-Induced Challenges to Agriculture and Biodiversity in Mountain Regions</b>  Dr. Kalpana Bhandari, N.S.C.B.M. Govt. College, Hamirpur, HP</p>
<b>3:00-4:00 PM</b>	<b>Poster Presentations</b>
	<p><b>Poster Evaluation Committee:</b>  Dr. Ram Nath, Head Department of Botany, GC Kullu  Dr. Neelam Thakur, Sardar Patel University, Mandi HP  Dr. Kesar Chand, Scientist, GBPNIHE, Mohal-Kullu</p>
	<p><b>Impact of abiotic stress on growth and yield of crop cultivars</b>  Lina Gogoi</p> <p><b>An Eco-Smart Model Village Initiative: Enhancing Livelihoods of Rural Communities in the Remote Villages of Mandi District</b>  Sumati Rathore</p> <p><b>Assessing the Regeneration Patterns of <i>Pinus gerardiana</i> in the North-Western Himalaya, India</b>  Naveen Thakur</p> <p><b>Gene Conservation: A Fundamental approach to Forest Conservation Genetics</b>  Sushmita Thakur</p> <p><b>Impact of altitude and aspect on plant biodiversity and soil microbial diversity</b>  Shradha Ahluwalia</p> <p><b>Nitrogen and deheading modulate biomass yield, essential oil accumulation and profiling of essential oil of <i>Valeriana jatamansi</i></b>  Shivani</p> <p><b>Role of Sacred Grooves in Eco-restoration of Ecologically Sensitive Areas of Himachal Pradesh, India</b>  Rishabh Sharma</p> <p><b>Insight Into Local Perspective on Climate Change: A Community Based Study In The Villages Around Inderkila National Park of Kullu District Himachal Pradesh, North Western Himalayas</b>  Sunil Dutt</p> <p><b>Understanding plant adaptations in high-elevation ecosystems: trait-based responses of plant communities in alpine and sub-nival zones of Western Himalaya</b>  Anupam Bhatt</p> <p><b>Next-Generation Genomics to Decipher Spatial Expression of Isosteroidal Alkaloid Biosynthesis and Microsatellite Marker Development for Genetic Improvement of <i>Fritillaria roylei</i></b>  Balraj Sharma</p> <p><b>In vitro propagation of <i>Delphinium nudatum</i> Wall. ex Hook.f. and Thom., a Critically Endangered medicinal plant of the North Western Himalaya</b>  Kiran Kumari,</p> <p><b>Diversity, distribution and indigenous uses of dye yielding plants in Kanawari wildlife sanctuary of Himachal Pradesh, North West Himalaya</b></p>

	<p>Kaushalya Devi Ethnomedicinal plants used for oral health care by the local inhabitants of Tehsil Rajgarh, District Sirmaur, Himachal Pradesh Indu Chauhan</p> <p>Conservation of Highly Endangered Medicinal Plants of Himalayan Region Rajesh Kumar</p> <p>Bamboo as an Alternative Solution for Landslide Mitigation in Uttarakhand Nalin Sharma</p>
5:00 - 5:15 PM	<b>HIGH TEA</b>
	<b>DAY Two: 22.10.2024</b>
9:00-10:45 AM	<p><b>Technical Session III: Biodiversity and Ecosystem Services (Conference Hall)</b></p> <p><b>Chair:</b> Dr. Vaneet Jishtu, Senior Scientist, HFRI, Shimla, HP  <b>Co-Chair:</b> Dr. Shreekar Pant, BGSB University Rajouri, J&amp;K  <b>Rapporteurs:</b> Dr Nirmal and Prof Gyan</p> <p><b>Keynote/Invited Speakers</b></p> <p>Securing Himalayan Ecosystems and Ecosystem Services for future: A call of action for the researchers and practitioners Dr. Shalini Dhyani, Senior Scientist, NEERI, Nagpur</p> <p><b>Ecosystem (ES) vs Nature based Solutions (NbS), a sustainable approach for Bio-resource Conservation: a paradigm shift</b> Dr. Shreekar Pant, BGSB University Rajouri, J&amp;K</p> <p><b>Diversity and carbon stock of an old growth <i>Quercus semecarpifolia</i> Sm. dominated forest</b> Dr. Ashish Tewari, Kumaon University, Nainital</p> <p><b>Paper Presentations by Participants</b></p> <p><b>Bryophytes: an important Ecosystem Engineers for Ecosystem Services</b> Ms. Manju Sharma, BGSB, Rajouri, J&amp;K</p> <p><b>Lichen Conservation: Threats and Challenges</b> Manita Bhat, BGSB, Rajouri, J&amp;K</p> <p><b>Diversity, Distribution, Nativity, Endemism and Therapeutic uses of Medicinal Plants by the Pangwali Tribe in Pangi valley, District Chamba of Himachal Pradesh, North- Western Himalaya</b> Mr. Om Prakash, Department of Horticulture, Kullu, HP</p> <p><b>Isolation and characterization of Microalgae for Nutraceuticals applications</b> Ms. Bhavya Sharma, IHBT, Palampur</p> <p><b>Economic Analysis of Bamboo (<i>Bambusa tulda</i> Roxb) Cultivation in India</b> Ms. Kumari Priyanka, Central University, Himachal Pradesh</p> <p><b>Chemical profiling of <i>Jurinea macrocephala</i> roots extracts from Western Himalaya</b> Ashish Kumar, Government College, Kullu, HP</p> <p><b>Status Assessment of the Community-Based Indian Honeybee Keeping Practices in District Kullu, Himachal Pradesh</b> Kishor Kumar, GBPNIHE, Mohal-Kullu</p>
9:00-10:45 AM	<p><b>Technical Session IV: Biodiversity: Indigenous Knowledge System (MP Hall)</b></p> <p><b>Chair:</b> Dr. Arun Chandan, Regional Director, RCFC, Jodhpur, HP  <b>Co-Chair:</b> Dr. Prem S. Kaushal, Regional Centre for Biotechnology, NCR Delhi  <b>Rapporteurs:</b> Dr Sakshi and Dr Shweta</p> <p><b>Keynote/Invited Speakers</b></p> <p><b>Opportunities and Challenges in the Indian Medicinal Plants Sector: A Strategic Perspective</b></p>

	<p>Dr. Arun Chandan, Regional Director, RCFC, Jodhpur, HP  <b>Timeless Tradition: Harnessing Himalaya's Wild Food Heritage for a Sustainable Future</b>  Dr. Tara Devi, Department of Botany, VGC, Mandi</p>
	<p><b>Paper Presentations by Participants</b></p>
	<p><b>Reviving Tradition and Sustainability: Capturing Millet Cuisine of the Kullu district</b>  Dr. Chanderkanta Vats, HPKV, Bajaura, Kullu, HP</p>
	<p><b>Ethno-medicinal plants, their therapeutic uses and phytochemical compounds in Talra Wildlife Sanctuary, Himachal Pradesh, across North Western Himalaya, India</b>  Mr. Anil Kumar, HFRI, Shimla, HP</p>
	<p><b>Diversity, distribution pattern and indigenous uses of medicinal plants in Khokhan Wildlife Sanctuary of Himachal Pradesh, North Western Himalaya</b>  Mr. Vijay Kumar, Forest Department, Sundernagar, HP</p>
	<p><b>Diversity and Utilization Pattern of Ethno veterinary plants in Shivalik Hills of Himachal Pradesh, North Western Himalaya</b>  Dr. Jyoti, ABV Govt. Degree College, Sumi, Himachal Pradesh</p>
	<p><b>Sustaining Biodiversity through Traditional Knowledge: Insights for a Changing World</b>  Mr. Amit Kumar, Department of Biosciences, HPU, Shimla</p>
	<p><b>Ethnobotanical exploration of wild plants used by people of Outer Seraj Region of Kullu District of Himachal Pradesh, India</b>  Ms. Nisha, HFRI, Shimla, HP</p>
<b>10:45 -11:15 AM</b>	<b>HIGH TEA</b>
<b>11:15-1:15 PM</b>	<p><b>Technical Session V: Sustainable Agriculture and Forestry (Conference Hall)</b></p> <p><b>Chair:</b> Dr. S.S. Samant, DSc, FNASc, FLS, FRSB, FSE, Former Director, ICFRE - HFRI, Shimla; Emeritus Scientist, UCOST - MKSC, Uttarakhand</p> <p><b>Co-Chair:</b>  <b>Rapporteurs:</b> Dr. Sunil and Prof. Sarita</p> <p><b>Keynote/Invited Speakers</b></p> <p><b>Managing Agrobiodiversity in Northwest Himalayas perspective</b>  Dr. Mohan Singh, Head, NBPGR, Regional Station, Shimla, HP</p> <p><b>Role of Wild Edibles and Non-Timber Forest Products in Augmenting the SDGs</b>  Dr. Vaneet Jishtu, Senior Scientist, ICFRE - HFRI, Shimla, HP</p> <p><b>Paper presentation by participants</b></p> <p><b>Importance of apiculture for mountain Ecosystem</b>  Dr. Sunita Saklani, Sidharth Government College Nadaun, Himachal Pradesh</p> <p><b>Exogenous Application of Proline Improves Drought Tolerance in <i>Phaseolus vulgaris</i> L. by Modulating Growth, Photosynthesis, Redox Homeostasis and Antioxidant Defense System</b>  Ms. Shaista Rashid, BGSB, Rajaouri, J&amp;K</p> <p><b>Shaping the Future of Farming: Climate-Resilient Innovations in NICRA Villages</b>  Pooja Kumari, HPKV, Bajaura</p> <p><b>Sustainable development: (concepts, issues and challenges)</b>  Dr. Suresh Kumar, Government Degree College, Mau, Mathura UP</p> <p><b>Linking Rhizosphere Bacterial Community Composition Shifts with Specialized Metabolite Biosynthesis in <i>Hypericum perforatum</i>.</b>  Mr. Yog Raj, IHBT, Palampur, HP</p>

	Factors Affecting the Nitrogen Mineralization rates of Agroforestry Soils in Kumaun Himalaya, Uttarakhand Dr. Himani Karki, Kumaun University, Nainital, Uttarakhand
	Impact of altitude and aspect on plant biodiversity and soil microbial diversity Shradha Ahluwalia, Punjab Agriculture University, Ludhiana, PB
11:15-1:15 PM	<b>Technical Session VI: Innovations in Biodiversity (MP Hall)</b> Chair: Er. Rakesh Kumar Singh, Head, Himachal Regional Centre, GBPNIHE, Mohal-Kullu Co-Chair: Dr. Hitesh Kumar, Sardar Patel University, Mandi, HP Rapporteurs: Dr Santosh and Dr Ashish
	<b>Keynote/Invited Speakers</b>
	Microbial diversity in protein synthesis as a potential target for therapeutic interventions Dr. Prem S. Kaushal, Regional Centre for Biotechnology, NCR Delhi Understanding the molecular basis of steviol glycosides biosynthesis through genomics Dr. Hitesh Kumar, Sardar Patel University, Mandi, HP
	<b>Paper Presentation by Participants</b>
	Evaluation of Antibacterial and antioxidant activities of <i>Rheum Australe</i> D. Don Mr. Mohar Singh, IHBT, Palampur, HP
	The use of modern techniques of Remote Sensing and GIS for the assessment of Tree Resources in Agricultural and Urban settings Ms. Akanksha Thapa, HFRRI, Shimla, HP
	Comprehensive Genomic Resource Creation for Genetic Improvement and Conservation of <i>Valeriana jatamansi</i> Jones Ms. Arma Devi, IHBT, Palampur, HP
	Cross-transferability of SSR markers of distantly related species in <i>Justicia adhatoda</i> L. Ms. Diksha Chaudhary, SBBS University Jalandhar, Punjab
	Diversity Analysis of <i>Tribulus terrestris</i> L. From North India Using SSR Markers Ms. Neha Chaudhary, SBBS University Jalandhar, Punjab
	Evaluation of <i>Stevia rebaudiana</i> (Bertoni) accessions for agro-morphological, physiological and biochemical traits in a mild-temperate environment Babita Kumar Thakur, IHBT, Palampur, HP
1:15-2:15 PM	<b>Panel Discussion:</b> <b>Status, Significance and Innovative solution for conservation of Biodiversity</b> Chair: Dr. S.S. Samant, DSc, FNASC, FLS, FRSB, FSE
	Panelists Dr. Sandeep Sharma, Dr. Arun Chandan Dr. Vaneet Jishtu Dr. Chanderkanta Vats, Dr. Shreekar Pant, Rapporteurs: Prof Monika, Prof Ashish
2:15-3:00 PM	<b>LUNCH</b>
3:00-4:30 PM	<b>Valedictory Session</b>
	Welcome Address
	Presentation of Report



**National Conference  
on  
Mountain Ecosystem: A Biodiversity Focus**

**October 21-22, 2024**

**Conference Report**

**Organised by**

**Department of Botany and IQAC, Government College, Kullu, District Kullu,  
Himachal Pradesh 175101**