

INTERNATIONAL CONFERENCE

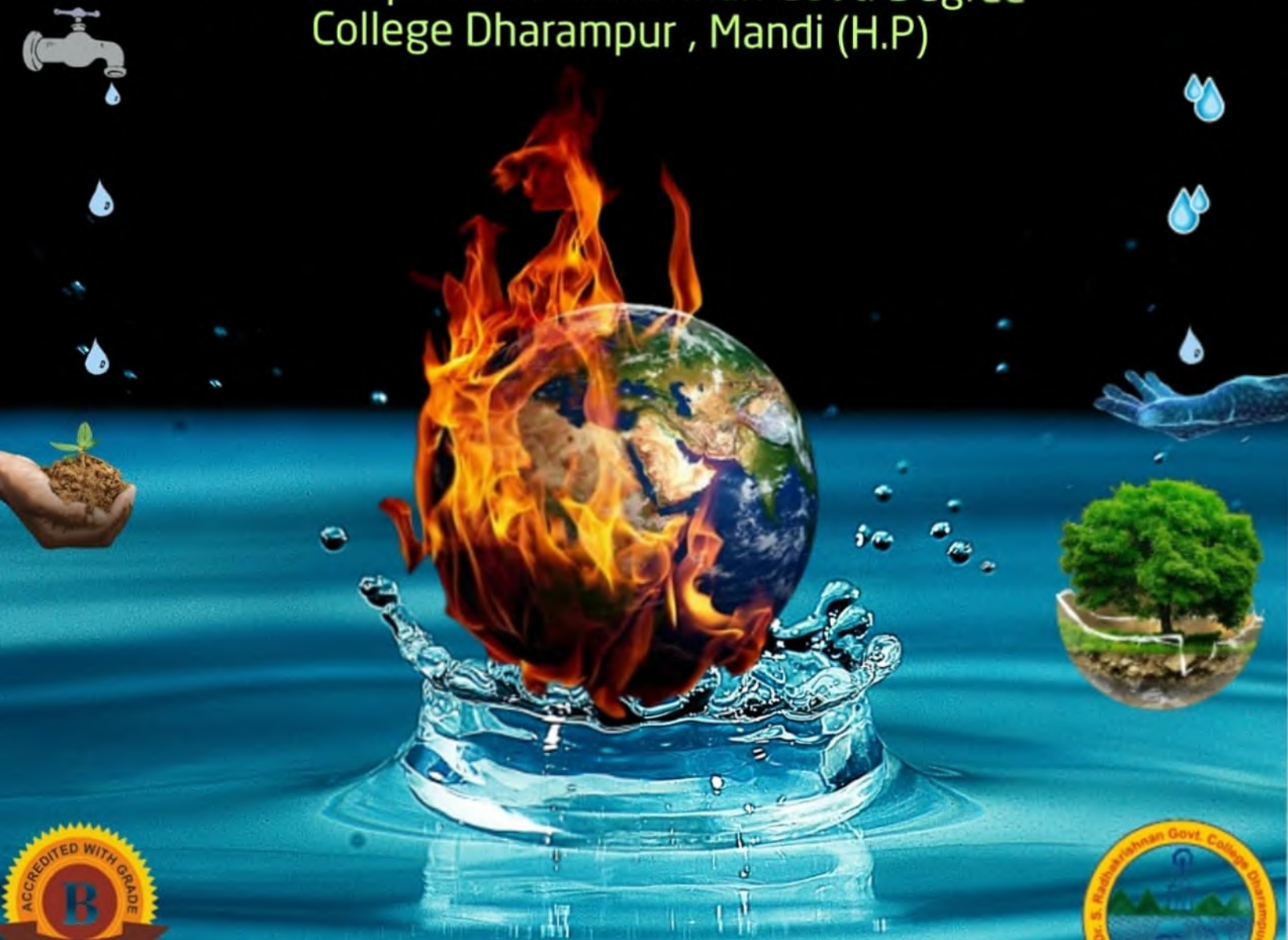
ON

**CLIMATE CHANGE AND GLOBAL WATER SCARCITY:
THREATS, CHALLENGES AND SUSTAINABLE SOLUTIONS**

Date: September 19-20, 2025

Hybrid mode

Dr. Sarvepalli Radhakrishnan Govt. Degree
College Dharampur , Mandi (H.P)



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Dr. Manbir, Assistant Professor (Botany)

REGISTRATION COMMITTEE

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Report - Two-Day International Conference

Climate Change and Global Water Scarcity: Threats, Challenges, and Sustainable Solutions

The Two-Day International Conference on *Climate Change and Global Water Scarcity: Threats, Challenges, and Sustainable Solutions* was successfully organized by Dr. Sarvepalli Radhakrishnan Government Degree College, Dharampur. The event brought together distinguished academicians, researchers, policymakers, and professionals to discuss the intensifying global environmental challenges associated with climate change and water scarcity. A total of 315 participants from diverse academic and professional backgrounds attended the conference, reflecting widespread engagement with issues of sustainability and climate action.

INAUGURAL CEREMONY:

The conference commenced with a formal inaugural ceremony, beginning with the traditional **Deep Prajwalan Ceremony**, symbolizing the light of knowledge, wisdom, and enlightenment. This was followed by the **Rosette Ceremony**, during which the dignitaries and distinguished guests were felicitated as a mark of respect and acknowledgement of their presence. The **Abstract Book of the Conference** was then formally launched, presenting a compilation of research contributions and scholarly perspectives related to climate change, global water scarcity, environmental sustainability, and sustainable development.

The inaugural ceremony was further graced virtually by **Shri Chander Shekhar Thakur, Hon'ble Member of the Legislative Assembly (MLA), Dharampur, Himachal Pradesh**. Despite health-related constraints, Shri Thakur addressed the gathering and delivered an inspiring message. He emphasized the importance of community participation, responsible governance, conservation of natural resources, and collaborative efforts to address the challenges of climate change and water scarcity. He highlighted the collective responsibility of society to promote sustainable development and protect the environment for future generations. His inspiring address set a positive and motivating tone for the academic deliberations that followed.

His address encouraged the participants to contribute towards building a more sustainable and climate-resilient future. He appreciated the efforts of the institution in providing a platform for academicians, researchers, and participants to exchange ideas and explore practical solutions to pressing environmental challenges. His virtual presence and motivating words added significance to the inaugural proceedings and set a positive and purposeful tone for the academic deliberations and technical sessions that followed.



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Welcome Address by the Principal : The inaugural session was followed by the Welcome Address by the Principal **Dr. Ramesh Chand Dhalaria** who extended a warm welcome to the chief guest, distinguished speakers, delegates, researchers, faculty members, and participants. He highlighted the theme and objectives of the conference and emphasized the importance of interdisciplinary collaboration, research, and knowledge sharing in addressing the challenges of climate change and global water scarcity. He also expressed his gratitude to all the dignitaries, resource persons, organizing team, and participants for their valuable support and contribution towards the successful conduct of the conference.



Concept Note by the Convenor

The **Concept Note** was presented by the Convenor, **Prof. Viveka Nand Sharma**, who provided an overview of the theme and objectives of the conference. He highlighted the interconnected challenges of **climate change and global water scarcity**, emphasizing their far-reaching environmental, social, and economic implications. He stressed the urgent need for sustainable management of water resources, environmental conservation, climate-resilient practices, and collective action. He also underscored the role of research, innovation, interdisciplinary collaboration, and community participation in developing practical and sustainable solutions to these pressing global challenges.



Addresses by the Keynote Speaker and Invited Speakers : The first day featured a keynote address by Dr. Krishn Mohan, who focused on the intricate relationship between climate change and global water scarcity. He discussed scientific perspectives, emerging

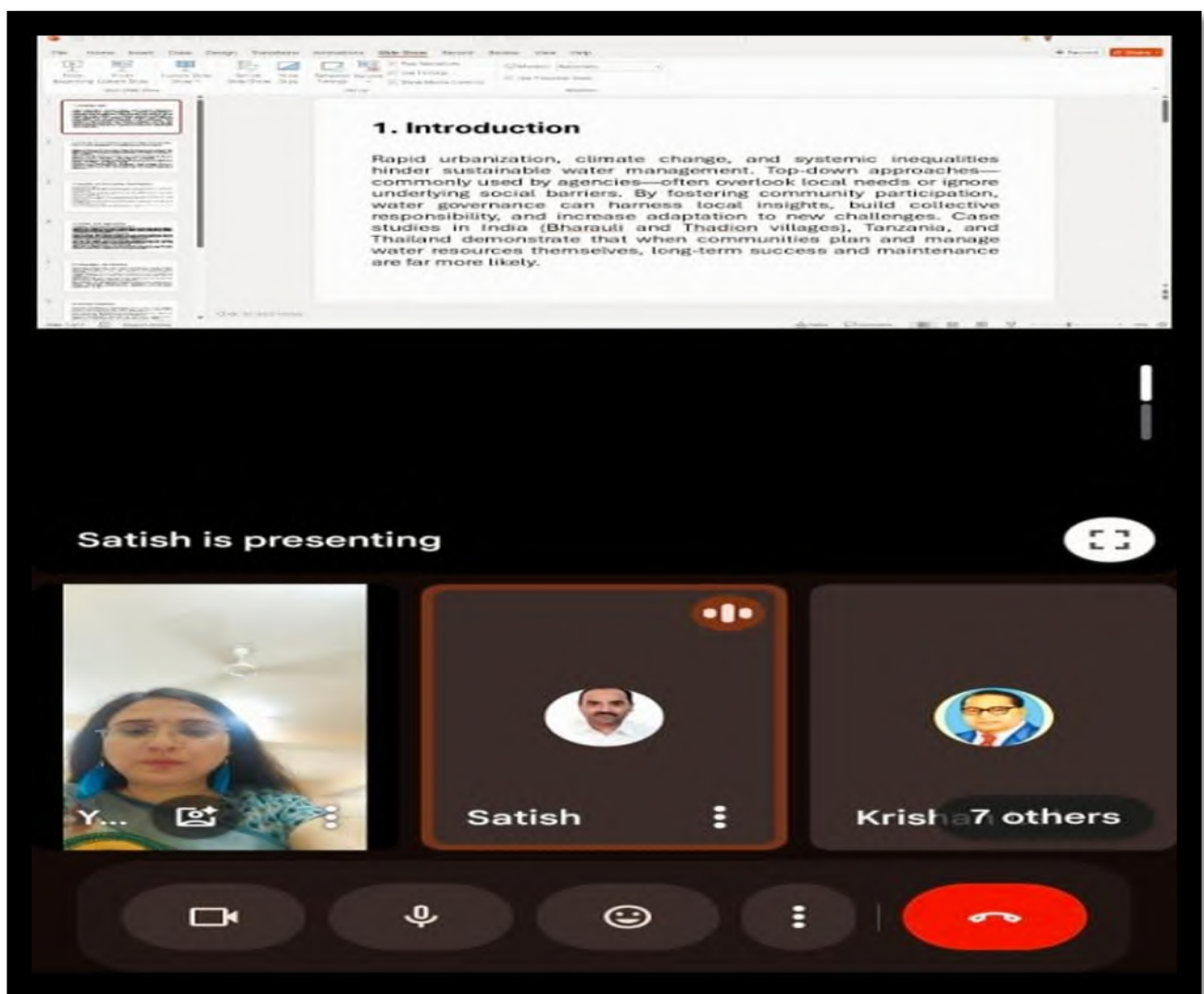


environmental trends, and the urgency of developing adaptive policies and sustainable resource management strategies. His keynote established a strong foundation

for the conference discussions. Following this, invited speaker Dr. M.L. Thakur presented insights on regional approaches to sustainable water management. He highlighted the need to combine scientific research with community participation, practical interventions, and local-level adaptation strategies. Technical sessions held in hybrid mode allowed researchers and students to present their studies and innovative ideas, promoting interaction and cross-disciplinary knowledge exchange.

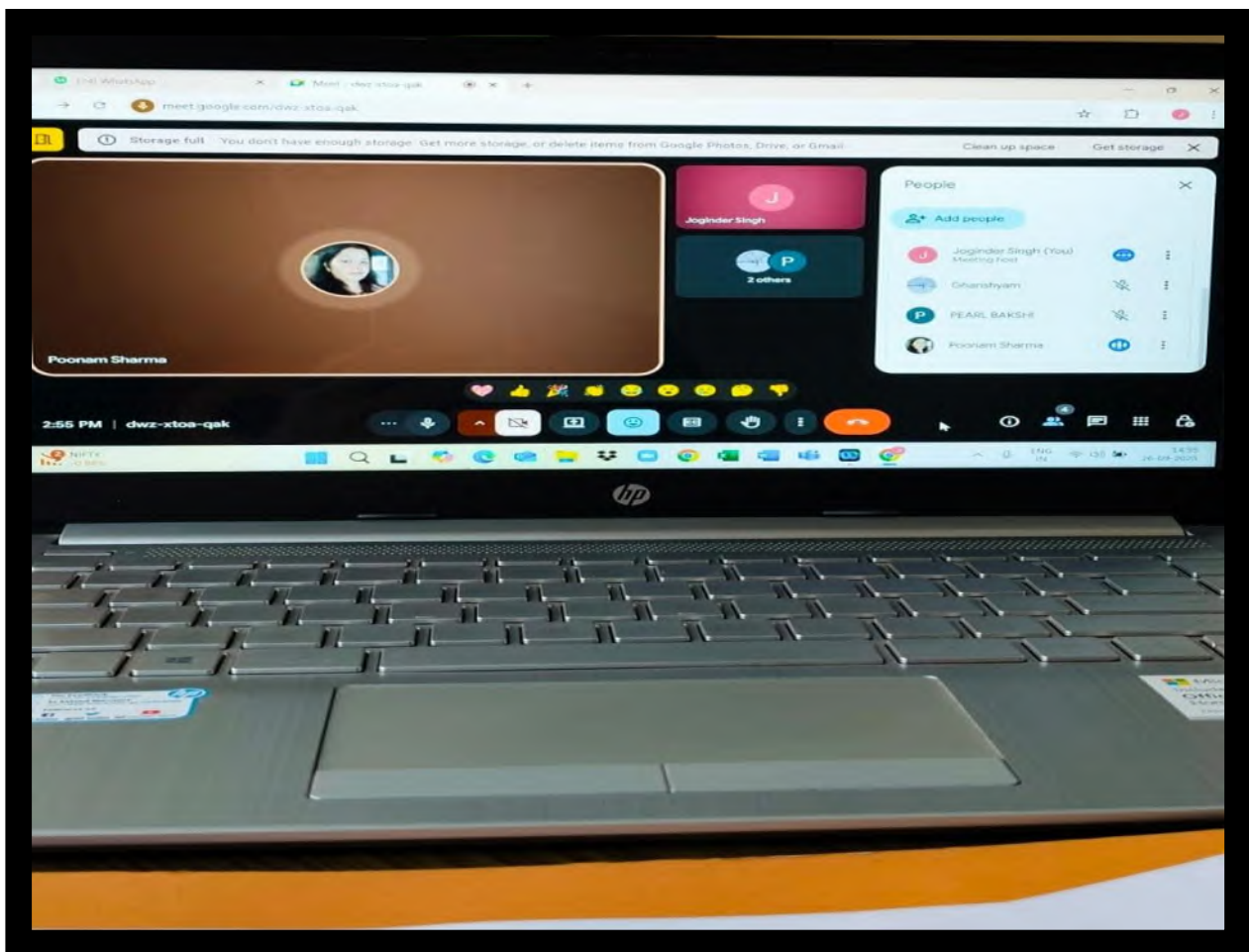
Technical Sessions:

Technical Session 1: Twenty participants took part in this technical session and presented their views on various topics such as Sustainable agriculture; cloudbursts and flash floods; climate change impacts; smart irrigation, agri-water technologies and precision farming; water stewardship; wastewater management; legal and institutional



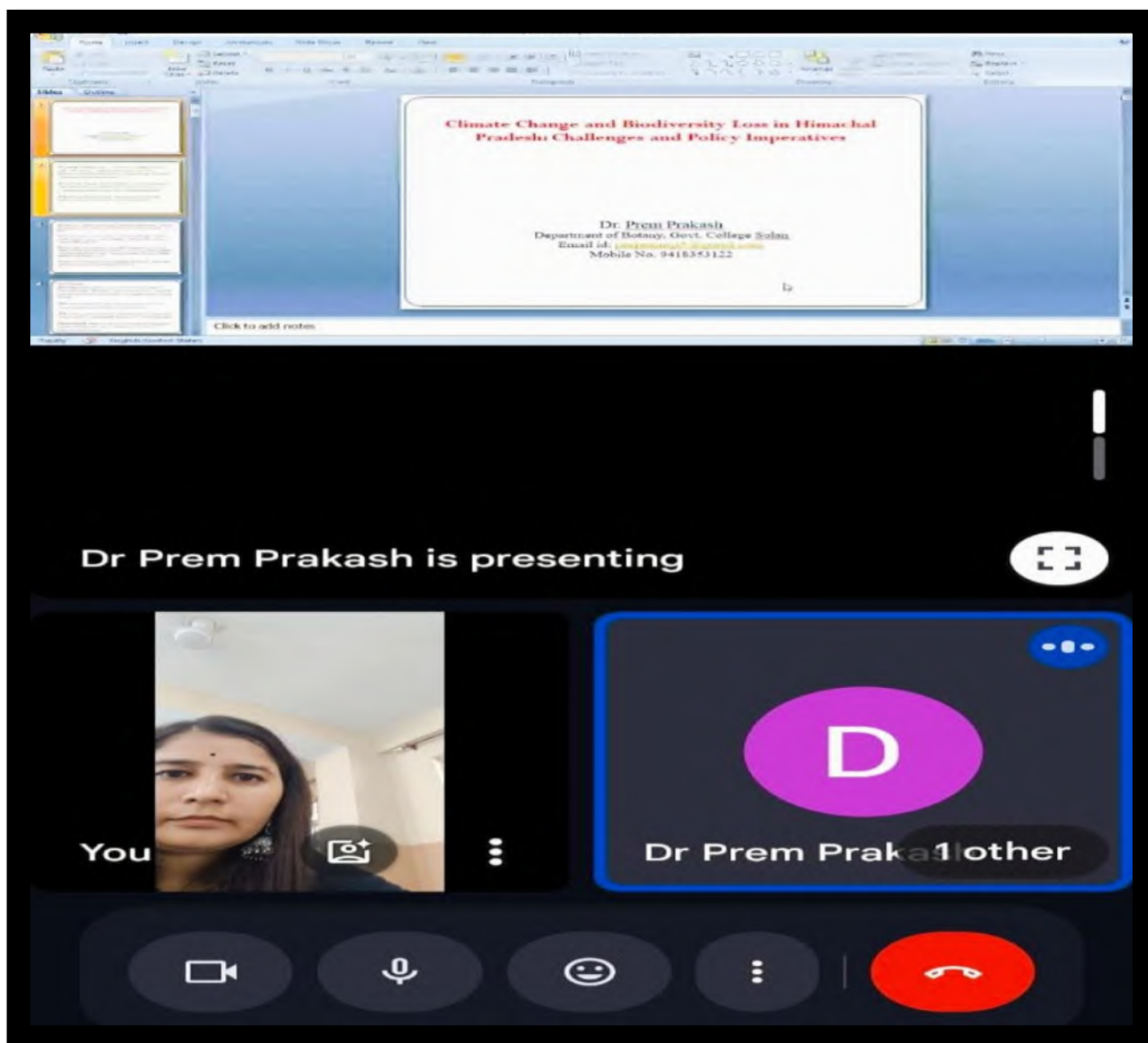
reforms in water governance; sports and sustainability; CSR and climate action; biodiversity and environmental conservation.

Technical Session 2 : A total of twenty participants actively participated in the technical session and shared their insights on diverse themes related to water management, climate change, and environmental sustainability. The presentations covered areas such as wastewater treatment and reuse, traditional water systems, climate change impacts, water security, cloudbursts and landslides, industrial recycling and zero-liquid-discharge technologies, photocatalytic treatment of wastewater, green finance, water-resource management, the drinking-water crisis, water governance and conservation, and biodiversity.



Technical Session 3 : Twenty participants took part in this technical session and presented their views on various topics such as Climate change and water scarcity; sustainable water management; rainwater harvesting; water security; agricultural water pollution; community participation in water-resource management; sustainable agriculture; water governance; environmental conservation and climate resilience.

Technical Session 4 : The technical session comprised twenty participants who presented their views on various topics such as Tropical eco-literature and environmental themes; climate-change impacts in the Himalayan region; global water-cycle disruptions; sustainable agriculture; biopolymer-based wastewater treatment; cloudbursts and biodiversity; water-cycle



and environmental challenges; wastewater-treatment technologies; government initiatives on climate change; agricultural water pollution.

Technical Session 5 : A total of twenty participants contributed to the technical session by presenting their perspectives on key environmental and sustainability-related concerns. The session explored diverse themes, including water scarcity and its implications for agriculture, global food security, glacier retreat and freshwater availability, water pollution, changes in hydrological systems, water security and traditional water sources, the socio-economic consequences of climate change, and sustainable management of natural resources.

Technical Session 6 : Twenty participants took part in this technical session and presented their views on various topics such as Water resilience; water pollution and literature; industrialisation and climate change; water governance; rainwater harvesting; water pricing and conservation; cultural significance of water; community participation in water management; climate change and biodiversity; environmental and food-security concerns.

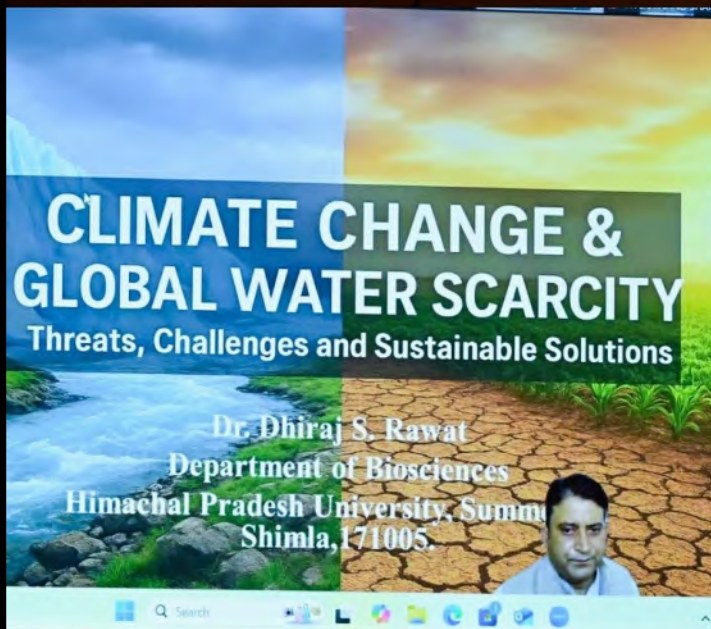
Technical Session 7 : The technical session comprised twenty participants who presented their insights on various emerging issues concerning climate change, environmental sustainability, and resource management. The presentations highlighted themes such as the relationship between climate change and business, adoption of sustainable business practices, increasing water scarcity, climate-resilient water management, environmental conservation, water governance, sustainable development, community involvement, pollution control, and effective utilization of natural resources.

Technical Session 8 : Twenty participants took part in this technical session and presented their views on various topics such as Circular economy and sustainable water reuse; climate-induced water scarcity and biodiversity loss; climate change and economic development; biodiversity loss; historical roots of water pollution; glacier melting and water reserves; urban water crises; cloudbursts and flash floods; water governance; water service sustainability; climate resilience; water management and conservation.

Second Day of the International Conference

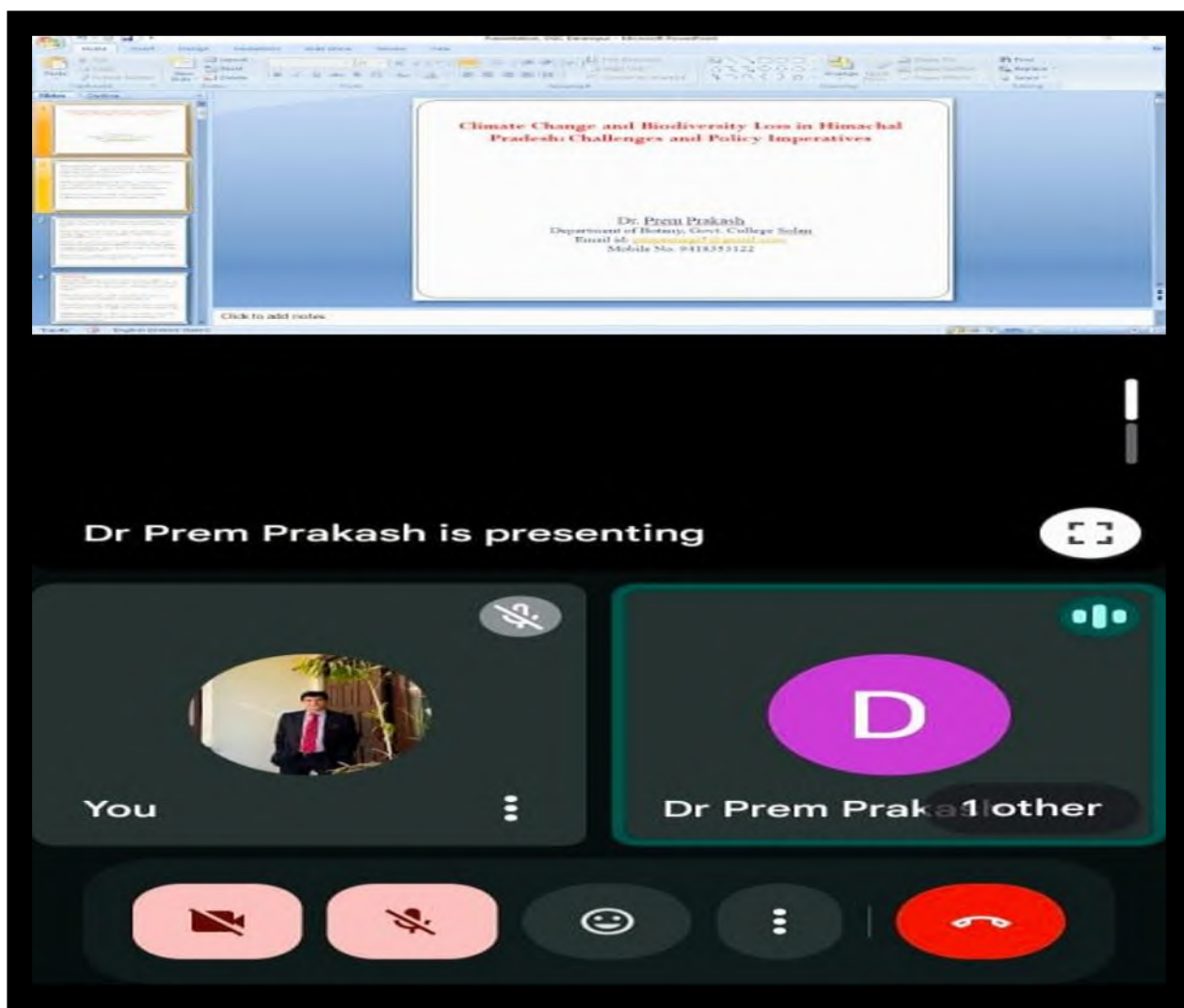
Day -2 : The second day included invited addresses from experts representing diverse fields. **Dr. Dyussenbina Zambota Dosantaevna** spoke on the public health implications of climate change and the importance of interdisciplinary approaches to address climate-related health risks. **Prof. Vijay Kumar Thakur** discussed technological innovations for water management, including renewable energy applications, smart water systems, and sustainable infrastructure. **Dheeraj S. Rawat** provided an overview of effective policy frameworks and governance mechanisms essential for climate resilience at global and local levels.

Technical sessions on the second day further showcased research on sustainable agriculture, climate adaptation strategies, water conservation techniques, and community-based environmental initiatives. The hybrid format enabled broader participation, encouraging international academic exchange and inclusivity.

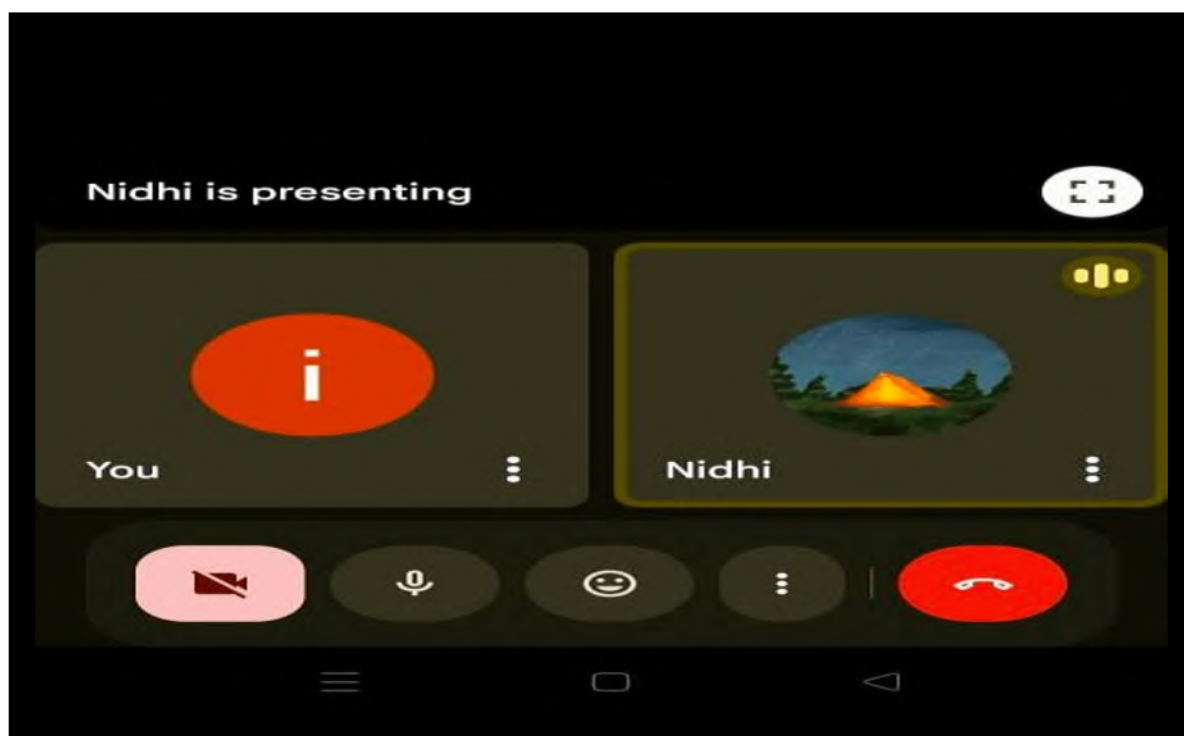


Technical Sessions :

Technical Session 9 : Twenty participants took part in this technical session and presented their views on various topics such as Climate-change impacts on biodiversity; sustainable development; cloudbursts and flash floods; chemical pollutants and the water cycle; water scarcity and resource preservation; water governance; community participation; water pollution; climate resilience; environmental conservation.



Technical Session 10 : Twenty participants took part in this technical session and presented their views on various topics such as Environmental consciousness and human responsibility; green-synthesized nanoparticles for wastewater treatment; precision farming; rainwater harvesting; water stress in drylands; economic consequences of water scarcity; water governance; water pollution; climate-change mitigation; sustainable agriculture and resource management.



Technical Session 11 : Twenty participants took part in this technical session and presented their views on various topics such as Cloudbursts and the 2025 Himachal floods; psychological and public-health dimensions of climate change; green-synthesized nanoparticles; sustainable wastewater treatment; sustainable agriculture; water management; climate-related health risks; policy and governance; environmental conservation.

Technical Session 12 : Twenty participants took part in this technical session and presented their views on various topics such as Glacier melting and freshwater resources; climate change; water scarcity, agriculture and food security; water pollution; wastewater treatment and circular water economy; desalination and non-conventional water resources; hydrological alterations; greenhouse gases; climate resilience; mathematical and computational modelling of the global water cycle.

Technical Session 13: Twenty participants took part in this technical session and presented their views on various topics such as Smart irrigation; agri-water technologies; precision farming; climate change; sustainable agriculture; water conservation; environmental pollution; biodiversity; water governance; community-based environmental initiatives and sustainable resource management.

Technical Session 14 : Eleven participants took part in this technical session and presented their views on various topics such as Biodiversity management; sustainable irrigation and water pricing; glacier melting and freshwater reserves; glacier conservation; rainwater harvesting; industrial chemical pollution; earthworms in pollution mitigation; mathematical analysis of rainwater harvesting; cloudbursts and flash floods; climate-related disasters and environmental conservation.

Valedictory session:

The valedictory session was graced by **Dr. Veena Rathore**, retired Principal of GDC Nahan, whose presence added dignity and academic value to the conclusion of the conference. Her reflections highlighted the importance of educational institutions in fostering awareness, research, and collective action on environmental challenges.



Report presentation: The Co-Convenor Prof. Vijay Kumar presented a comprehensive report of the conference, highlighting the major activities, academic sessions, participation, and key outcomes of the event. The report provided an overview of the technical sessions, presentations, deliberations, and active participation of delegates from various institutions. The Co-Convenor also highlighted the significant contributions made by the organizing team towards the successful conduct of the conference and emphasized the academic relevance and outcomes of the event.



Presentation Ceremony: The presentation ceremony was conducted as a significant part of the conference, wherein mementoes and certificates were presented to the distinguished guests, resource persons, delegates, and participants in recognition of their valuable contribution and active participation in the event.



Conclusion : In conclusion, the conference was a meaningful academic event that promoted sustainable thinking, encouraged interdisciplinary dialogue, and reinforced the global commitment to addressing climate change and water scarcity through innovation, collaboration, and informed action.

