

To,
The Selection Committee
Intergovernmental Panel on Climate Change (IPCC),
IPCC Secretariat, World Meteorological Organization,
P.O. Box 2300, 7bis Avenue de la Paix,
CH-1211 Geneva 2, Switzerland

Dated: 03-02-2025

Subject: Application for Chapter Scientist – IPCC Special Report on Climate Change and Cities

I am writing to express my strong interest in the position of “Chapter Scientist for the IPCC Special Report on Climate Change and Cities”. As an environmental and geospatial researcher, I specialize in climate resilience, urban sustainability, and disaster risk assessment, with a commitment to advancing scientific knowledge that informs urban climate policies and adaptation strategies.

Currently, I am pursuing my second Post-Doctorate at the Applied Research Center for Environment & Marine Studies (ARCEMS), King Fahd University of Petroleum and Minerals, Saudi Arabia, where my research focuses on “Evaluating Future Climate Change in Saudi Arabia: A Holistic Approach to Modeling Vulnerability and Assessing Risks for Informed Adaptation and Mitigation Strategies.” Additionally, in my role as Geospatial Analyst/Senior Project Associate at the Department of Ecology, Environment, and Remote Sensing, Government of Jammu & Kashmir, India, I have gained extensive experience in handling big data, utilizing Google Earth Engine (GEE) for modeling and analysis, and developing Climate Resilient City Action Plans. I have worked on risk analysis, vulnerability assessments, and urban climate resilience strategies, drafting policy reports for agencies such as the Department of Science and Technology (DST) to support evidence-based decision-making.

My research integrates IPCC frameworks and assessment methodologies, focusing on climate risks, adaptation, and mitigation. I have contributed to Climate Resilient Action Plans for Srinagar and Jammu, addressing flood risks, heat stress, and infrastructure resilience, and have applied the IPCC framework in vulnerability and risk assessments in Saudi Arabia, analyzing climate impacts on infrastructure, socio-economic systems, and urban centers. Additionally, I have engaged in national and international climate dialogues, including as a speaker at COP16 Riyadh, where I presented on the role of youth and women in climate action.

With over six years of experience in climate modeling, geospatial analysis, and policy-oriented research, I am eager to contribute to this IPCC Special Report, particularly in the areas of urban adaptation strategies, climate-resilient infrastructure planning, and socio-economic dimensions of climate risks. My expertise in remote sensing, GIS, and predictive modeling allows me to bring data-driven insights into urban climate resilience and sustainability planning.

I look forward to the opportunity to collaborate with leading experts in shaping this critical report.

Thank you for your time and consideration.

Sincerely,
Dr. Fayma Mushtaq
Post-Doctoral Researcher
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