



# COP26



## AMITY GLOBAL WARMING CLIMATE CHANGE CLUSTER



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# Brainstorming Session on COP-26 COMMITMENTS, TAKEAWAYS AND ACTIONS

Thursday, 16 December 2021 2:00 – 5:30 PM IST

## Eminent Speakers



**Prof. Dr. Balvinder Shukla**  
Vice Chancellor  
Amity University, UP  
Sr. Vice President, RBEF

**CO-PATRON**



**Dr. W. Selvamurthy**  
President ASTIF & DG ADSI,  
Chancellor  
Amity University Chhattisgarh



**Dr. Rajeev Mahajan**  
Scientist "G" & Advisor  
SERB-DST



**Dr. Nisha Mendiratta**  
Adviser / Scientist "G" &  
Head, WISE - KIRAN Division  
& Head, Climate Change  
Programme Division



**Prof. (Dr.) Tanu Jindal**  
Group Additional Pro VC (R&D)  
Director, AIETSM, ACARS, AIOAS  
Amity University Uttar Pradesh

**PROGRAM CHAIR**



**Dr. D. K. Bandyopadhyay**  
Chief Advisor FPO  
Chairman ALSs  
Amity University, Noida



**Dr. Ashish Chaturvedi**  
Director  
Climate Change · Deutsche  
Gesellschaft für Internationale  
Zusammenarbeit (GIZ) GmbH



**Dr. Stellina Jolly**  
Associate Professor  
Faculty of Legal Studies,  
South Asian University



**Mr. Sabyesachi Bharti**  
Deputy Director  
CMS VATAVARAN, New Delhi



**Ms. Varsha Rajkhowa**  
Ocean Ambassador India  
Climate Reality Leader  
Youth Icon and Influencer

**Joining Link:**

<https://amityuni.live/86741982722>

**NATURAL RESOURCES ENVIRONMENT SCIENCES DOMAIN**

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**AMITY INSTITUTE OF ENVIRONMENTAL SCIENCES**

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## OUTCOME REPORT

### Brainstorming Session on “COP-26 Commitments, Takeaways and Actions” on Dec. 16, 2021 from 2:00 p.m. to 05:30 p.m.

#### 1. What was the Inspiration behind taking up this Particular Subject for the Webinar?

The idea of brainstorming sessions comes after COP-26 summit held in Glasgow on how to tackle global warming and climate change. We scheduled the session on “Views, Discussions, Further Actions and Research to be carried out on “COP-26 Commitments, Takeaways and Actions”.

To encourage scientists, research scholars and faculty for research as Amity University is a research and innovation-driven university.

To make the masses understand about involvement of national and International experts, academicians, researchers, policy makers, students and committed common masses. It is high time we come together to themes on “Adaptation and resilience, Nature based solutions, Energy transitions, Clean transport, Finance, Cities and built environment. The climate summit aims to keep alive a target of capping global warming at 1.5C above pre-industrial levels.

#### 2. Who were the Distinguished Guest Speakers Invited for the Event. Kindly give their Names. Designations, Organisation, Qualifications, Area of Expertise and any Honours and Awards received by them?

##### External Speaker:

1. **Dr. Rajeev Kumar Mehajan** In a distinguished career of over 35 years across multiple domains - as Policy Maker, Field Weather Forecaster, Academician and Management Leader, Dr. Rajeev has devised operational roadmaps, achieved organizational visions and currently as a Scientific advisor to the Government of India, enables next-generation levels of Science Capital in India. In his current role, he oversees operations for research grants for various disciplines, as well as other R&D initiatives in the Industry Partnerships, PPP Model ventures, Outreach as well as Capacity Building initiatives.

Dr. Rajeev career commenced as a Military Aviation Meteorologist, a commissioned officer in the Indian Air Force (IAF). Besides being an application scientist in eight field stations of IAF, he has served 06 organizations in about dozen profiles till date. He voluntarily contributes towards grooming of the Indian Civil Services aspirants. He is an International Inter-Governmental Panel Expert Member for the Technical Commissions of the World Meteorological Organisation. He serves as a Panellist for Aircraft Accident Investigation Bureau, a National Agency of Government of India. He wears another interesting hat of a Council Member for recommending the Best Corporate Brands in the country through a recent initiative Brand In-Sync Listings (BRISYL) by the Marketing Academy Discussion & Debate (M.A.D.D.) Dr. Rajeev also has the distinction to serve the United Nations (UN) as Chief Meteorological Officer. He has been the Ex-Chairman, Board of Studies for Meteorological Division of Bharthiar University, Coimbatore as well as a Research Guide for two disciplines, that is - Meteorology and Management, and serves as a visiting faculty at several institutes and universities in the country.

Dr. Rajeev holds Ph.D. and M. Phil. both in Meteorology, and Masters in three subjects, namely: (1) 'Mathematics' (2) 'Defence & Strategic Studies', and (3) 'Business Administration'. He is an alumnus of University of Delhi, Madras University and others. In recognition of his outstanding accomplishments, the United Nations and the Indian Air Force have conferred several prestigious honors upon Dr. Rajeev.

And during our recent interaction with Dr. Rajeev, we also learnt that he is an avid Marathoner, Cyclist, Adventurist, Photographer, Poet and a keen Yoga practitioner. Thus, Ladies & Gentlemen! 'Dynamic', 'Wholehearted' and 'Impact Man' are just a few words that describe Dr. Rajeev in his professional and personal space.

2. **Dr. Nisha Mendiratta** is working as Advisor/ Scientist 'G' and Head of two important Programme Divisions, namely Women Scientists Programme and Climate Change Programme, in the Department of Science & Technology (DST), Government of India. She has more

than thirty years of experience in the research and applied fields of Science. She graduated in Physics from Delhi University & did her Post Graduation in Agricultural Physics from Indian Agricultural Research Institute (IARI), New Delhi .She did her Ph.D in Agricultural Chemistry. She is the recipient of the meritorious PG fellowships in post-graduate and doctoral level at IARI where she acquired second position in All India Level competitive entrance examination. She has also acquired specialization by undertaking a Post- Graduate diploma course (ten months) in “Satellite Remote Sensing and GIS” for the application of agriculture & soils at the Indian Institute of Remote Sensing (IIRS), Department of Space (DoS), Dehradun.

She started her professional career in 1990 as Scientist at National Remote Sensing Agency (NRSA) , Hyderabad in Department of Space (DoS). She carried out core research in the field of microwave remote sensing applications. She then Joined IIRS, Dehradun as their faculty in 1991 and carried out intensive research in crop characterization using satellite data. She joined the NCMRWF Programme, currently under Ministry of Earth Sciences, as Senior Scientific Officer during 1992 and worked for medium range weather forecasting and crop weather modeling.

In 1998, she joined NRDMS (Natural Resources Data Management System) programme of DST as Scientist and worked in the specialized domain of natural resources management. Presently, she is working for the Climate Change Programme (CCP) of DST which is responsible to implement the two national missions on climate change under National Action Plan on Climate Change launched by the Prime Minister Council of India. She also led the Science Communication programme of DST and developed many important scientific programmes on Science awareness such as Science Channel. She served as the chairperson of the Women sexual Harassment Committee of the department.

She has been representing the department in the international platform at Conference of Parties (CoP) conducted by UNFCCC since 2015 on Climate Change which is attended by more than 190 countries. She has hosted specialized sessions on DST’s national mission on climate change at Paris, Morocco, Katowice, Poland and Bonn, Germany. She also led a delegation of 25 scientists and students under Indo-US bilateral programme organized on STEM Education at Phoenix,USA under Indo-INTEL Programme in the year 2019.

She has made several technical presentations and has many research papers/ articles to her credit which were either published or presented in various national and international forums has. She has edited and co-authored two books published by TERI Press and several integrated technical documents and reports on the scientific programmes implemented by her.

She is serving as a resource member in many national and international committees and task forces and also is an identified resource person in leading organisations viz. UPSC, IIPA, TERI, ASCI, Indo-Swiss, Indo-UK and Indo-USA Forums.

3. **Mr. Ashish Chaturvedi** specialises in climate change mitigation and adaptation, waste management, sustainable consumption and production, and environmental policy. His current focus is on policy and knowledge management aspects of climate change. During 2014-2016, Ashish worked as a Fellow in the Green Transformations Cluster of the Institute of Development Studies (IDS) at the University of Sussex and as a Senior Fellow with adelphi, a German think tank. From 2006-2014, he led the Policy for Environment and Climate component of the bilateral Indo-German Environment Programme. As a Senior Advisor with the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH, he advised the Indian Ministries and Departments at various levels of Government and implemented projects in the area of waste/resource management, climate change and economic instruments. Ashish has published extensively in books, journals and general interest magazines. He has also presented at various national and international conferences. A PhD in Economics from the University of California, Ashish's PhD thesis explored the role of influence activities on democratic policy making processes.
4. **Dr. Sabyasachi Bharati** is a graduate in Political science and Sociology and a Post-Graduate Diploma in Media Management. He has having more than 17 years of experience in Media Advocacy & Management, Networking & Coordination, Documentary Film making, Festival Curation, and Community Video production. His work has involved content creation for various organizations like the Ministry of Tribal Affairs (GOI), Central Council for Research in

Unani Medicine, WAPCOS - Water and Power Consultancy Services, Culture Unplugged Studios (CUS), The Leprosy Mission Trust India (TLMTI). He was involved in Content curation for organizations like Culture Unplugged Studios (ten competitive online film festivals), Greater Philadelphia Student Film Festival, USA (2009 competitive section) and Prasar Bharti (DD 2017 Annual awards).

5. **Dr. Stellina Jolly** is an Associate Professor at the Faculty of Legal Studies, South Asian University (SAU). She is a Visiting Senior Research Associate with the Centre for Emerging Countries in Private international law at the University of Johannesburg. She is a Fulbright Scholar with the University of San Francisco and a recipient of the International Visitors Leadership Program (IVLP). She researches in international environmental law and conflict of laws.

In the area of environmental law her research papers have explored the north-south dimensions of climate change. Her book, 'Climate Refugees in South Asia' published by Springer explored the legal and policy framework of climate refugees in South Asia. She has also elaborately written on the environmental justice and governance concerns and intersectionalities of climate change water, gender, disaster management and sustainable development goals focusing on South Asian jurisdictions. Her recent researches also focus on the emerging global trend of rights of nature. In her research she advocates an approach based on just sustainability, hybrid law mechanism and environmental justice to tide over the environmental crisis. Stellina has published in several leading international journals like the Transnational Environmental Law, Washington Journal of Environmental Law and Policy, Texas Environmental Law Journal, Chinese Journal of Environmental Law to name a few. Her book on Indian private international law is published by Hart in 2021. She has also co-edited a book collection published by Springer on private international law of South Asian jurisdictions.

She is a member of the IUCN World Commission on Environmental Law and part of the Network of Environmental Champions, Asian Development Bank. She has undertaken projects and consultancies with various organizations, including the Rajiv Gandhi Foundation, European Union, International Renewable Energy Agency (IRENA), etc. She was awarded an educational grant on Civil Society Law from International Centre for Not for Profit Law (ICNL) and USAID.

As a visiting faculty, she has taught courses on international environmental law at several prominent universities like the National Law School Delhi, Indian Society of International Law (ISIL), and Indian Law Institute.

6. **Ms. Varsha Rajkhowa** first Indian girl to win the popular “INTERNATIONAL BEAUTY PAGEANT” held in MALAYSIA.

Indian model Varsha Rajkhowa has been crowned the new Miss Scuba International 2016 – a one-of-a-kind global beauty pageant where all the contestants are professional scuba divers held with the purpose of spreading awareness about ocean protection and marine life. Twenty-five-year-old Varsha was adjudged the winner from among 16 other countries including USA, UK, Netherlands, Philippines etc.. after a glitzy grand finale at the gorgeous Sutura Harbour Resort in Kota Kinabalu, Malaysia on November 19, 2016.

She has been doing campaign like save water, walk for water, cyclothon for save environment by climate change reality India and also working with Climate Change Reality India, Plastic ban project with team Miracle, spreading awareness about environment and Ocean conservation by doing talk shows and also associated with various NGO's for social work. Recently achieved the title of a TEDx Speaker. She has delivered two TEDx Talk till date. Varsha Rajkhowa started her journey as a 76kg model and struggled to become 48-50kg to win international pageant. She got rejected 35 times and was told she can never be a beauty queen. But as she believes to never gave up she along with her parents and elder sister left no stone unturned. Gave up everything that could distract her and self trained rigorously for 6months. She is a self made woman on a mission to change the vision and concept of how a real beauty queen would be if you truly believe and accept who you are. She has never been trained professionally and managed to train and learn mostly through her participation in local and national pageants.

**Internal Speakers:**

1. **Prof. Tanu Jindal** has Doctorate in Ecotoxicology, MSc. and BSc. from University of Delhi and has extensively contributed in the field of Environmental Toxicology for the past 21 years. She is Director and Professor, Amity Institute of Environmental

Toxicology, Safety and Management (AIETSM) and Amity Institute of Environmental Science (AIES). She has established AIETSM in 2008. She has also launched Amity Centre for Antarctic Research and Studies and PhD Environmental Science and BSc, Environmental Science programmes. She has filed six patents on lysimetric-device, apparatus to estimate the loss of xenobiotics by volatilization and mineralization, natural pesticide, photochemical method to dispose of dilute pesticide waste and cost effective water testing kit.

2. **Prof. D.K. Bandyopadhyay**, Chief Advisor FPO/Chairman of Amity Law School, Mentor at Amity Institute of Environmental Sciences, Amity University, Uttar Pradesh. He is a professor, scientific management researcher and an academic administrator of repute. Presently he is the Chief Advisor to the office of the Founder President of Amity Group of Institutions. He was second vice-chancellor of the Guru Gobind Singh Indraprastha University. His term of the Vice-Chancellor office started on 9 December 2008 and ended on 8 December 2013. Prof. Bandyopadhyay was the director of the Indian Institute of Forest Management, Bhopal, from 2004 to 2008.

3. What was the Criteria Considered for inviting the Various Individual Guests, Internal as well as External?

**Dr. Rajeev Kumar Mehajan** currently handles the oversees operations for research grants for various disciplines, as well as other R&D initiatives in the Industry Partnerships, PPP Model ventures, Outreach as well as Capacity Building initiatives. He is the best person to enlighten on the title of the session Views, Discussions, Further Actions and Research to be carried out on “COP-26 Commitments, Takeaways and Actions”.

4. Were the guests in advance and if yes, from what previous interaction? Were the guests recommended by someone? If yes, who?

I knew the guest from past many years.

5. Who all attended the webinar? Also, if possible, give the numbers.

The management, faculty, research scholars and students have attended the webinar which was very informative in view to sensitize on the brainstorming session “**COP-26 Commitments, Takeaways and Actions**”.

The webinar was attended by 165 participants.

6. What were the ‘Take Homes’ for the Guests and the Attendees in the form of knowledge, facts, information etc.? Please give the Salient Novel Points Covered by the Guest Speakers, in Bullet Points Format.

### External Speaker:

**Dr. Nisha Mendiratta** shared the concern of Climate change government took initiative like national efforts, international, and NGOS. She discussed the effect of green house gases, increasing and decreasing of GHG is thinkable, anthropogenic activities directly affected this. Consequences of climate change, Plight of polar bears due to shrinking of ice cover in Arctic Circle. Paris submerge by flooding of rivers in 2016, as well as presented MOEF REPORT (2020) which was related to global mean temperature India targets to achieve 40 percent non-fossil-based power capacity by 2030 i.e. 175 GW of new renewable power capacity by 2030.

**Asst. Prof. Stellina Jolly** discussed Adaptation and COP 26 Lessons for developing countries although climate change is very vulnerable world wide. Glasgow climate pact : Kept alive the goal of 1.5 degree Celsius temperature and requests that countries “revisit and strength” their climate pledges by the end of 2022, Language supporting a “Phase down ” of unabated coal power which is the single biggest source of global temperature rise, A first for a UN climate agreement. The duty to fulfill the pledge of providing 100 billion dollars annually from developed to developing countries was reaffirmed. Forest management and legal framework, forest legislations precede climate change, success of green mission.

**Mr. Ashish chaturvedi** has deliberated to Key agenda items at glasgow: mitigation, net zero, climate finance, adaptation and loss and damage, finalization of the Paris rule book. Action research plays a major role to accelerate climate action in priority sectors such as energy, agriculture, forests.

**Mr. Sabyasachi Bharti** tailed about Understanding the power of storytelling in the modern era and the role of films and film-festivals in **Climate change and mitigation**. The storytelling is best way to people make understand to climate change and wildlife conservation. Prominent Green filmmakers of India: Rita Banerji, Sandesh Kadur, Krupakar and Senani etc. The aim of CMS vatavaran to conserve and awareness the environment by film and storytelling.

**Dr. Rajeev Kumar Mehajan** deliberated on Climate services, 5 sector play a important role in our life like energy etc.

**Ms. Varsha Rajkhowa** deliberated different wonderful ideas like Kamdhenu milk revolution, Global warming pollution, consequences of climate disaster like rainfall, water crisis and drought, it causes major threat food crises for human as well as animal, so we should act fast to conserve and protect to our environment. Reuse and reduce the plastic, cutting down carbon cycle, use alternative, reduce uses of plastic, spray, deodorant, avoid to fast fashion at the last the message was '**Green start**', **Sapling a plant your special day**.

#### **Internal speakers:**

- **Prof. Tanu Jindal**, welcomed the dignitaries and introduced the session.
- **Prof. D. K. Bandyopadhyay** addressed the gathering, with highlighting the purpose of the COP 26. He focused India have been changing their goalposts when it comes to problems regarding. In cop 26 India did take commit to, the five major commitments or 'Panchamrit' to fight climate change. India will achieve net zero emission by 2070. India will bring its non-fossil capacity to 500 GW by 2030, its economies carbon intensity down to 45 percent by 2030, Fulfill of the 50 percent of its energy requirement through renewable energy by 2030, India

will reduce 1 billion tones of carbon emissions from the total projected emissions by 2030.

7. Has the Webinar been able to generate any Tangible Gains for the Faculty, Researchers and Students of Amity. If yes, what are these?

Faculty, Researchers and Students have got insight of COP-26 commitments, takeaways and actions. This will further help them to understand the impact of global warming and climate change. Also, it will further help them in their research and academics.

8. What are the 'Progressive Outcomes /Way Forward' planned, based on the event of the webinar. Please give them pointwise, with timelines and names of the persons responsible for their execution?

**Mr. Ashish Chaturvedi-** we can do collaboration work with GIZ on "Plastic Waste and Management".

**Dr. Sabyesachi-** we have sent mail for preparing a proposal to submit in Vigyan Prasar on "Nirmal, Swasth and Swachh Rivers".

9. Have we Followed-Up with the Guests to consider Various Collaborations such as Joint Research Papers and Publications; Joint Funded Projects; Student Internships and Placements; Participation in National/ International Seminars/ Conferences,/Workshops ; Student/Faculty Exchange Programmes ; Post Doctorate tie ups ; etc. etc?

**Dr. Sabyesachi-** we are planning for joint workshop with CMS Vatavaran.

**Dr. Stellina Jolly-** we are planning for M.Sc dissertation of students and PhD co-guideship.

10. What are the plans for utilizing the contacts developed with the Invited Guests, for future cooperation to meet the targets of ' Mission: Connect' and Mission : Synergy of Brains ? Please give a roadmap with timelines?

We are in touch with speakers for joint research projects, research papers and internships.