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URGENT: Urban Resilience and Adaptation for India and Mongolia

Report on:

Visit of Project Partners

29th - 30th March 2022 & 05th - 06th April 2022

School of Environmental Sciences (SES),

Jawaharlal Nehru University (JNU), New Delhi India



Partner number: P11

Jawaharlal Nehru University, New Delhi

India

URGENT Project Partners visit to New Delhi

AGENDA

29th March 2022, Tuesday

- | | |
|----------------|--|
| 12:00 to 13:00 | Meeting and laboratory visit at Spatial Informative and Analysis Laboratory (SAIL) at School of Environmental Sciences, Jawaharlal Nehru University with colleagues from Sher-e-Kashmir University of Agricultural Sciences and Technology Kashmir (SKUAST-Kashmir) |
| 13:00 to 14:00 | <p>Lunch on meeting of project partners
(Meeting with Dean School of Environmental Sciences & Director Human Resource Development Centre, Jawaharlal Nehru University)</p> <ul style="list-style-type: none"> - Sher-e-Kashmir University of Agricultural Sciences and Technology Kashmir - University of Catania, Italy - Estonian University of Life Sciences, Tartu - Jawaharlal Nehru University, New Delhi (Host) |
| 14:00 to 14:30 | A quick tour of project partners to JNU campus |
| 14:00 – 15:30 | Lecture by Dr Akhlaq Amin Wani , Associate Professor - on 'Agroforestry – an approach to green belt development for industries' to participants of Green Development program of Ministry of Environment, Forests, and Climate Change (MoEFCC) at SES/JNU |
| 15:00-16:00 | <p>Meeting at The Energy and Resource Institute (TERI), New Delhi</p> <ul style="list-style-type: none"> - Sher-e-Kashmir University of Agricultural Sciences and Technology Kashmir - University of Catania, Italy - Estonian University of Life Sciences, Tartu - Jawaharlal Nehru University, New Delhi |



**Urban Resilience and Adaptation
for India and Mongolia**
curricula, capacity, ICT and stakeholder
collaboration to support green & blue
infrastructure and nature-based solutions

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16:00 – 18:00

Meeting at National Institute of Urban Affairs (NIUA)
(Meeting with Director and Colleagues, NIUA)

- Sher-e-Kashmir University of Agricultural Sciences and Technology Kashmir
- University of Catania, Italy
- Estonian University of Life Sciences, Tartu
- Jawaharlal Nehru University, New Delhi
- National Institute of Urban Affairs (NIUA), New Delhi

30th March 2022, Wednesday

09:00 – 10:30

Lecture by **Dr Daniele La Rosa**, Associate Professor - on 'Green Infrastructure to reduce the energy demand of cities' to participants of Green Development program of Ministry of Environment, Forests, and Climate Change (MoEFCC) at SES/JNU

11:00 – 12:00

Meeting at School of Environmental Sciences, Jawaharlal Nehru University
(Meeting with Dean SES/JNU)

- University of Catania, Italy
- Estonian University of Life Sciences, Tartu

11:30 – 13:00

Lecture by **Prof. Kalev Sepp**, Professor - on 'From Planning Green network to Green Infrastructure. Estonian CASE study' to participants of Green Development program of Ministry of Environment, Forests, and Climate Change (MoEFCC) at SES/JNU

12:00 – 13:00

Meeting with PhD/PostDoc researcher at Spatial Informative and Analysis Laboratory (SAIL) at School of Environmental Sciences, Jawaharlal Nehru University

- University of Catania, Italy
- Estonian University of Life Sciences, Tartu

Travel to Pondicherry University

URGENT Project Partners visit to New Delhi

AGENDA

05th April 2022, Tuesday

- | | |
|-------------|--|
| 10:00-11:30 | Interaction with research scholars/students Spatial Informative and Analysis Laboratory (SAIL) at School of Environmental Sciences, Jawaharlal Nehru University (coordinated by Dr Susanta Mahato, SES/JNU) |
| 11:30-13:00 | Visit to immediate neighbourhood of Jawaharlal Nehru University (coordinated by Mr Praveen Kumar, SES/JNU) |
| 13:00-14:00 | Lunch at the Canteen with students (Coordinated by Mr Praveen Kumar/Dr Susanta Mahato JNU Campus) |
| 15:00-1630 | Lecture by Dr Anton Shkaruba, Senior Researcher - on 'Sustainability and sustainability indicators - what, why and how?' MA/MSc/PhD students of Jawaharlal Nehru University at SES/JNU (coordinated by Dr Susanta Mahato, SES/JNU) |
| 1700 Hrs | Meeting with Prof. P K Joshi |

06th April 2022, Wednesday

- | | |
|-------------|---|
| 10:00-13:00 | Meeting with Prof. P K Joshi at School of Environmental Sciences (SES), Jawaharlal Nehru University, New Delhi |
| 15:00-1630 | A short visit to Special Centre for Disaster Research (SCDR), Jawaharlal Nehru University, New Delhi (coordinated by Prof. P K Joshi) |

Meeting Report on URGENT Project Partners visit to New Delhi

Venue: School of Environmental Sciences, JNU

Date: 29th March 2022, Tuesday

Time: 12:00 to 13:00

Participants: Partners from JNU and SKUAST

Meeting and laboratory visit at Spatial Informative and Analysis Laboratory (SAIL) at School of Environmental Sciences, Jawaharlal Nehru University with colleagues from Sher-e-Kashmir University of Agricultural Sciences and Technology Kashmir (SKUAST-Kashmir)

Three faculty members from Sher-e-Kashmir University of Agricultural Sciences and Technology Kashmir visited the School of Environmental Sciences and interacted with Prof. PK Joshi on the project details and progress. They briefly met the PostDoc, PhD scholars and MSc students and interacted on the research work. While visiting the SAIL they were briefed about the laboratory infrastructure and the equipment purchased co-funded by the Erasmus+ Programme of the European Union. The discussion resulted an understanding about the joint the initiatives those could be taken within the scope of project and other collaborations.



Venue: Human Resource Development Centre, JNU

Date: 29th March 2022, Tuesday

Time: 13:00 to 14:00

Participants: Project Partners

Lunch on meeting of project partners (Meeting with Dean School of Environmental Sciences & Director Human Resource Development Centre, Jawaharlal Nehru University)

The team from (i) Sher-e-Kashmir University of Agricultural Sciences and Technology Kashmir, (ii) University of Catania, Italy, and (iii) Estonian University of Life Sciences, Tartu along with Jawaharlal Nehru University, New Delhi (Host) met the Dean of School of Environmental Sciences. The discussions were primarily introductory and the broad objectives of the project. The team also met Director Human Resource Development Centre (HRDC), Jawaharlal Nehru University and discussed the aspects of capacity building within the scope of HRDC.



Venue: Jawaharlal Nehru University

Date: 29th March 2022, Tuesday

Time: 14:00 to 14:30

Participants: Project Partners

A quick tour of project partners to JNU campus

All the project participants had a tour of JNU campus and were briefed about variety of academic and research programs in the university. They were about told about some of the key infrastructure and facilities within the university campus.



Venue: Human Resource Development Centre, JNU

Date: 29th March 2022, Tuesday

Time: 14:00 to 15:30

Participants: Annexure – I

Lecture by **Dr Akhlaq Amin Wani**, Associate Professor - on 'Agroforestry – an approach to green belt development for industries' to participants of Green Development program of Ministry of Environment, Forests, and Climate Change (MoEFCC) at SES/JNU

The talk was focused on Agroforestry and TOFs: A way towards Green Belt Development for Industries. The speaker presented an overview of Green Belt Characteristics, nursery characteristics and operations to be carried out for the establishment of a forest based nursery. He further deliberated upon Agroforestry classification and applicability in developing green belts. Towards the end, the speaker talked about Trees Outside Forests (TOFs) and its ability towards greening industries and cities and making them climate resilient. (List of Participants on Annexure I).



Venue: The Energy and Resource Institute (TERI), New Delhi

Date: 29th March 2022, Tuesday

Time: 15:00 to 16:00

Participants: Project Partners

*The team from (i) Sher-e-Kashmir University of Agricultural Sciences and Technology Kashmir, (ii) University of Catania, Italy, and (iii) Estonian University of Life Sciences, Tartu along with Jawaharlal Nehru University, New Delhi visited The Energy and Resource Institute (TERI). In addition to seeing the facilities at the TERI, the team had a detailed discussion with **Dr Yogesh Gokhale – Senior Fellow** and Area Convener, Centre for Forest Management & Governance, TERI on different aspect of green cover infrastructure in the country and the related research challenges. Entire team were impressed with the variety of activities TERI is involved with and the possibilities of carried out joint activities including their support in the ongoing URGENT project.*



Venue: National Institute of Urban Affairs (NIUA)

Date: 29th March 2022, Tuesday

Time: 14:00 to 18:00

Participants: Annexure III

The team from (i) Sher-e-Kashmir University of Agricultural Sciences and Technology Kashmir, (ii) University of Catania, Italy, and (iii) Estonian University of Life Sciences, Tartu (iv) Jawaharlal Nehru University, New Delhi along with National Institute of Urban Affairs (NIUA), New Delhi had a meeting with Mr. Hitesh Vaidya - Director NIUA. The discussions were around the expectations from the URGENT project, status of urban planning and development in India, specific interest areas of NIUA and contribution within the scope of the project. The Director was also keen to see scalability/ replicability from outcomes of this project. The meeting was detailed and looked at various aspect of urban green and blue infrastructure and its importance. (List of Participants on Annexure II).



Venue: School of Environmental Sciences, JNU

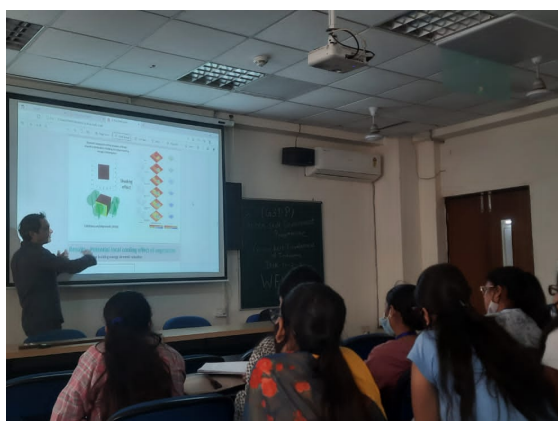
Date: 30th March 2022, Wednesday

Time: 09:00 to 10:30

Participants: Annexure – I

Lecture by **Dr Daniele La Rosa**, Associate Professor - on 'Green Infrastructure to reduce the energy demand of cities' to participants of Green Development program of Ministry of Environment, Forests, and Climate Change (MoEFCC) at SES/JNU

The talk concentrated on green infrastructure and nature-based solutions (NBS) in urban landscapes. He explained how NBS, urban green infrastructure, and ecosystem services are all interconnected. He discussed the importance of green infrastructure in urban climate regulation and demonstrated his building energy simulation research. He focused on how green infrastructure has positive microclimatic effects, such as reduced air temperature, which reduces the UHI effect and thus the energy consumption of buildings. Daniele came to the conclusion that green infrastructure can reduce energy demand of the surrounding buildings. As a result, he encouraged for the creation of new public green spaces, the implementation of climate change adaptation strategies, and the creation of a more secure and energy-efficient urban environment. (List of Participants on Annexure I)



Venue: School of Environmental Sciences, JNU

Date: 30th March 2022, Wednesday

Time: 11:00 to 12:00

Participants

Purpose:

*The team from (i) University of Catania, Italy and (ii) Estonian University of Life Sciences, Tartu had a meeting with **Prof. Paulraj Rajamani Dean** - School of Environmental Sciences, JNU. The discussions were primarily on the scope of the project and how SES can be benefited from the outcomes. The team was also appraised about variety of activities school is involved in and the areas of mutual interest wherein collaborative activities could be sought. The team had a quick tour of the School of Environmental Sciences to have an understanding of the diversity of research disciplines and infrastructure.*



Venue: School of Environmental Sciences, JNU

Date: 30th March 2022, Wednesday

Time: 11:30 to 13:00

Participants: Annexure – I

Lecture by **Prof. Kalev Sepp**, Professor - on 'From Planning Green network to Green Infrastructure. Estonian CASE study' to participants of Green Development program of Ministry of Environment, Forests, and Climate Change (MoEFCC) at SES/JNU

The talk firstly showcased the geography, culture and demography of Estonia. Also, the audience was familiarized with the location and history of the [Estonian University of Life Sciences](#). It was interesting to know that the university holds a large international students' community and is looking forward to establish formal student exchange programs with the universities in India. He then went on to explain the history of parkways and Green Infrastructure (GI) and the practical lessons learnt from implementing measures to promote GI, many of the measures being weak, which he referred to as 'Mapism'. The key components of green infrastructure were explained in detail. The presentation concluded with comprehensive practical solutions for interconnected network of GI at city, local and site scale. (List of Participants on Annexure I)



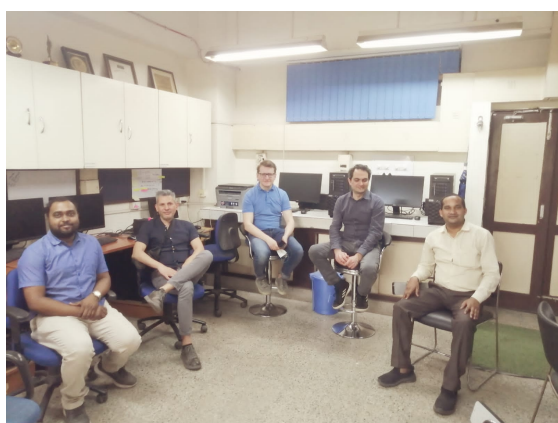
Venue: School of Environmental Sciences, JNU

Date: 30th March 2022, Wednesday

Time: 12:00 to 13:00

Meeting with PhD/PostDoc researcher at Spatial Informative and Analysis Laboratory (SAIL) at School of Environmental Sciences, Jawaharlal Nehru University

The team from (i) University of Catania, Italy and (ii) Estonian University of Life Sciences, Tartu has a meeting the researchers from SES/JNU and Special Centre for Disaster research. In addition to knowing the specific areas of research and the benefits of the URGENT project, the team identified some of the areas wherein capacity building programs could be conceptualised and researchers can be involved in research. The team also looked at the laboratory infrastructure and the equipment purchased co-funded by the Erasmus+ Programme of the European Union. The discussion resulted an understanding about the joint the initiatives those could be taken within the scope of project and other collaborations.



Venue: School of Environmental Sciences, JNU

Date: 05th April 2022, Tuesday

Time: 10:00 to 11:30

Interaction with research scholars/students Spatial Informative and Analysis Laboratory (SAIL) at School of Environmental Sciences, Jawaharlal Nehru University (coordinated by Dr Susanta Mahato, SES/JNU)

*This was in continuation to the earlier meeting. Herein **Dr Anton Shkaruba**, Senior Researcher, Estonian University of Life Sciences, Tartu met with students of MA (Disaster Studies) and MSc (Environmental Sciences) along with PhD/PostDoc researchers. The discussions were primarily the capacity building and research. The meeting helped in understanding the challenges, gaps and the opportunities.*



Venue: Vasant Kunj Area (Near JNU)

Date: 05th April 2022, Tuesday

Time: 11:30 to 13:00

Visit to immediate neighbourhood of Jawaharlal Nehru University (coordinated by Mr Praveen Kumar, SES/JNU)

***Dr Anton Shkaruba**, Senior Researcher, Estonian University of Life Sciences, Tartu carried out a quick tour to the immediate surrounding to get an idea of land use, market and the infrastructure.*

Venue: Jawaharlal Nehru University

Date: 05th April 2022, Tuesday

Time: 13:00 to 14:00

Lunch at the Canteen with students (Coordinated by Mr Praveen Kumar/Dr Susanta Mahato JNU Campus)

Dr Anton Shkaruba, Senior Researcher, Estonian University of Life Sciences, Tartu had lunch with some of the students/researchers.

Venue: School of Environmental Sciences, JNU

Date: 05th April 2022, Tuesday

Time: 15:00 to 16:30

Participants: Annexure III

Lecture by **Dr Anton Shkaruba**, Senior Researcher - on 'Sustainability and sustainability indicators - what, why and how?' MA/MSc/PhD students of Jawaharlal Nehru University at SES/JNU (coordinated by Dr Susanta Mahato, SES/JNU)

He gave a lecture on sustainability and talked about its relevance in the current global environment. He discussed sustainability indicators and explained what are they and how can we measure them with multiple examples. He also explained what makes them good and their selection criteria. He focussed on ecological limits and challenges of the planet with respect to sustainability. He described that sustainability and good life go hand to hand and living well is subjective to different individuals/communities/systems. He talked about the development of sustainability indicators through participatory processes for all around representation of systems. In the end, he concluded how we can integrate sustainability and its indicators in our socio-environmental settings to achieve sustainability and well-being of our society and environment. (List of Participants at Annexure III)



Venue: School of Environmental Sciences, JNU

Date: 05th April 2022, Tuesday

Time: 17:00

Meeting with Prof. P K Joshi at School of Environmental Sciences (SES), Jawaharlal Nehru University, New Delhi

Dr Anton Shkaruba, Senior Researcher, Estonian University of Life Sciences, Tartu had a meeting with Prof. PK Joshi for broader understanding of the project progress. The discussions were around the planning for future activities.

Venue: School of Environmental Sciences, JNU

Date: 06th April 2022, Wednesday

Time: 10:00 to 13:00

Meeting with Prof. P K Joshi at School of Environmental Sciences (SES), Jawaharlal Nehru University, New Delhi

It was in addition to the earlier meeting. Herein some of the activities of the projects were strategies so as to get the maximum benefit from the collaborative activities. The discussions were also around the challenges and the possible solutions for the utilisation of the funds while addressing the specific targets of the project.

Venue: Special Centre for Disaster Research, JNU

Date: 06th April 2022, Wednesday

Time: 15:00 to 16:30

A short visit to Special Centre for Disaster Research (SCDR), Jawaharlal Nehru University, New Delhi (coordinated by Prof. P K Joshi)

Dr Anton Shkaruba, Senior Researcher, Estonian University of Life Sciences, Tartu had a quick visit to the SCDR/JNU and brief interactions with colleagues.

The discussions were the quick rap-up of the major outcomes of meetings at New Delhi and Pondicherry and planning the future course of action.



Annexure – I

1. Abhishek Tiwari
2. Anjali
3. Ankita
4. Anushika Gangay
5. Anzala Suhail
6. Bushra Saifi
7. Kanika Aggarwal
8. Mohd Ajmal Khan
9. Mohit Roy
10. Nivedita Singh
11. Priti Purohit
12. Rahul Kumar
13. Ruchika
14. Sadhan Priya
15. Sandhya Farswan
16. Shivam Agrahari
17. Shivangi Pandey
18. Shubhi Bansal
19. Swati Singh

Annexure II

1. Aasif A. Gattoo
2. Akhlaq Amin Wani
3. Anna Brittas
4. Anton Shkaruba
5. Daniele La Rosa
6. Debjani Ghosh
7. Hitesh Vaidya
8. Kalev Sepp
9. P K Joshi
10. Riccardo Privitera
11. Shah Murtaza

Annexure III

1. Ankshita Choudhary
2. Anuj Dilip Bajpei
3. Anuradha Pandey
4. Deepika Sharma
5. Devansh Gupta
6. Devendra Pandey
7. Divyata Yadav
8. Manjul Panwar
9. Mithun
10. Mohd Ajmal Khan
11. P K Joshi
12. Pradeep Kumar
13. Praveen Kumar
14. Ruchika
15. Sandhya Farswan
16. Satish Saini
17. Suraj Chaubey
18. Susanta Mahato
19. Swati Singh