

Progress Report

RCI – IIT Kanpur

For the quarter April 2022 – July 2022

IIT Kanpur has played the role of mentor with partner Participating Institutions (PIs) by sharing with them the path it has taken, providing motivation, facilitation and guidance. Similar to the approach used by IITD, as the National Coordinating Institute (NCI), RCI IITK is grooming the PIs to work effectively in their adopted villages. When the institutions re-opened after Covid, IITK focused on stronger communication with the PIs, encouraging them to restart UBA work in a sustainable way, following up on the progress made, and working on projects collaboratively.

Major activities conducted by the PIs are discussed in the paragraphs that follow.

1- Regional Workshop of Tech4Seva at IIT Kanpur

Tech4Seva was celebrated with high enthusiasm at IIT Kanpur that brought together PIs, farmers, grass-root organizations and other institutions together on a platform. Tech4Seva was organized with objective to take technologies developed at institutions to the grassroots level, making it useful for people. IIT Kanpur, as the RCI, organized first Regional Workshop of Tech4Seva in collaboration of RuTAG IIT Kanpur on 18 July 2022.

Description of the programme

The one-day workshop had four components –

- (1) Talks by policy makers, programme implementors, scientists and grassroots organisations
 - a. Dr Ashutosh Sharma, Institute Chair Professor, IIT Kanpur participated as Chief Guest. In his address he emphasized that UBA should work towards creating an eco-system for food processing industry where farmers will have easy access to technology, raw material, finance and marketing. Institutions can play an important role in this.
 - b. Prof Priyanka Kaushal, National Coordinating Institute, IIT Delhi talked about role of Regional Coordinating Institution in leading the other institutes and seek convergence of different programmes.

- c. Dr Ketaki Bapat, Office of Principal Scientific Advisor, Delhi expressed her pleasure that while RuTAG brings out new technologies from the institutions, UBA can help in taking it to people.
 - d. There were three Invited Talks by –
 - i. Prof Sanjay Kumar, Senior Principal Scientist, CSIR-CIMAP explained how in this Gangetic belt farmers can make use of medicinal and aromatic plants, process and reach out to the niche markets. He told about various training programmes CIMAP organizes, and projects that are being conducted in different agro climatic zones.
 - ii. Dr R Shyamala, General Secretary, SEED, Hyderabad talked specifically about solar method of dehydrating fruits and vegetables, and different products that could be made (candies, rolls, etc). She talked about the economics and market approach that farmers should take.
 - iii. Dr Satish Subhedar, Consultant, NABARD lecture was on how improved sowing method results in significantly higher yield. He emphasized on relying on natural processes that will improve soil health, water table and reduce input costs.
- (2) Technology demonstrations by Participating Institutions of UBA
- a. There were 14 technologies demonstrated by different Participating Institutions. RuTAG IIT Kanpur displayed an array of food processing technologies. The stall by Babasaheb Bhimrao Ambedkar University was very popular where participating farmers purchased biopesticides and biofertilizers made by scientists. Zero Budget farming methods by CSJM Krishi Mahavidyala Chitrakoot was another favourite stall at the workshop.
- (3) Technology Presentations by Participating Institutions of UBA, and shortlisting of best three technologies
- a. There were 22 presentations made
 - b. 4 best technologies were chosen for the national level competitions. These were-
 - i. 1st Prize: Prof Naveen Kumar Arora and Prof. Jitendra Mishra, Babasaheb Bhimrao Ambedkar University, Lucknow, Bioremediation of Saline Soil using Bioinoculant
 - ii. 2nd Prize: Prof Sandeep Sangal and Mrs Rita Singh, IIT Kanpur, Provide quality education to rural children through live online classes in schools
 - iii. 3rd Prize:
 - 1. Dr. Sudha Singh, Siddharth Singh, Mrs. Ganga Vati, CSJM Chitrakoot, Zero Budget, Natural Farming
 - 2. Prof Naveen Tiwari, Prof Kallol Mondal, Prof Sandeep Sangal, IIT Kanpur, A solar thermal dryer that runs without electricity to dry agro products like Amla, and vegetables

Participant's Profile

The workshop was conducted in hybrid mode, and several participants joined online. A total of 91 participants joined in person, and 40 joined online. Students and professors from 16 institutions coming from 06 districts enthusiastically took part in various competitions and presentations. There were 28 farmers who came from nearby 7 districts of Kanpur, and are working closely with UBA IIT Kanpur.



Lighting the Lamp with Chief Guest Prof Ashutosh Sharma



Address by Prof S Sangal



Dr R Shyamala, Special Invitee, delivering her address



Group photograph at the event



Student Group Presentation

(2) One day seminar on Yuva Atamnirbharta and Kaushal Vikas in Kanpur Dehat

The Pranveer Singh Institute of Technology, Kanpur AISHE code C-46844 under the banner of UBA, organized one day seminar on 23 August 2022 in its premises entitled “Yuva Atamnirbharta and Kaushal Vikas”. RCI team, CSC e-Governance, Gram Pradhans and various unemployed youth of these villages attended the seminar.

The PSIT Director expressed his willingness to offer every possible cooperation to help the youth to train them to become self-employable. The CSC coordinator explained in details the various schemes launched by the GoI and the various self-employment schemes for unemployed youth. He told about the huge potential of CSC and UBA teams to work together in organizing awareness camps for aadhar cards, ayushman card and e-shram cards etc.



(3) Farmers Meet from the UBA districts

Covering large part of districts covered by IIT Kanpur, farmers are shortlisted to lead sustainable practices. About 40 – 50 farmers from 6 districts form a coherent and progressive group:

- 1- Kanpur Nagar
- 2- Kanpur Dehat
- 3- Unnao
- 4- Fatehpur
- 5- Orai
- 6- Hardoi

Farmers are into production of desi cow ghee, indigenous variety of wheat, rice and other grains (Paigambari wheat, Kathua wheat, Kala Namak rice etc), pure and cold pressed mustard oil, wild honey and hand pounded spices. Regular meetings of the farmers and workshops are held at IIT Kanpur, in which all PIs are invited.

Kisan Charcha April 17, 2022

Special Speakers were Ms Suman Shukla, DDM NABARD and Sandeep Saxena ji who talked about NABARD schemes and future of natural farming respectively. The talks were attended by farmers, food processors, student volunteers of UBA and faculty members.



Sandeep Saxena ji is addressing progressive farmers about natural farming



Group Photograph of the participants in the Kisan Goshthi at RCI, IITK

Kisan Charcha July 18, 2022

Special Speakers were Dr Satish Subhedar, Consultant (Agri) and Dr Sanjay Kumar (CIMAP) and the focus of talks was on natural and organic farming of aromatic and medicinal plants.



Dr Sanjay Kumar, Sr Principal Scientist, CSIR-CIMAP, delivering his address



Dr Satish Subhedar (Consultant, NABARD), delivering his address



(5)

Participants in the goshti

Catch the Rain

RCI supported Catch the Rain campaign whole heartedly. Messages and calls were made to all PIs. Posters were prepared with instructions in Hindi and English. Posters were shared with all PIs, and calls were made to follow up.

जल शक्ति मंत्रालय व उन्नत भारत अभियान का संयुक्त राष्ट्रव्यापी अभियान

वर्षा की प्रत्येक बूंद को बचना है, नदी, पोखर और जलाशय को जलमग्न करना है

आपको क्या करना है

- (1) अपने मोबाइल पर प्लेस्टोर से एक जियोटैगिंग एप डाउनलोड करिए
- (2) अपने गाँव के जलाशय पर कुछ गाँव वालों के साथ पहुँचिए, और जियोटैगिंग एप को खोल कर एक सेलफी लीजिये जिससे जलाशय की भौगोलिक स्थिति मिल जाए (अक्षांश और देशांतर)
- (3) आप जलाशय की स्थिति को स्माइल या सैड चेहरे से दिखाइए

- (4) फोटो को अपलोड करिए और गूगल फॉर्म भरिए <https://tinyurl.com/selfietosave>

- (5) फोटो को सभी सोशल मीडिया हैंडल पर शेयर करिए
#catchtherain, #unnatbharatabhiyan, #nationalwatermission, #vibha, #ministryofjalshakti

प्रत्येक पीआई को अपने सभी पाँच गाँव में जाना अनिवार्य है, अधिक से अधिक विद्यार्थियों के साथ

सभी जलाशय की फोटो लें (एक जलाशय, एक एंटी), चाहे उसपर अतिक्रमण हो, साफ हो या गंदा, सूखा या भरा

सभी लोग इस प्रतियोगिता में भाग ले सकते हैं।

एंटी की आखिरी तारीख जुलाई 30, 2022

<https://play.google.com/store/apps/details?id=com.gpsmapcamera.geotagginglocationonphoto>



RCI staff assisting DG College UBA team



RCI staff taking selfie in Hridaypur village



Collaborative Health Camp of RCI IIT Kanpur and Rama University (U0808) at village Hingupur facilitated by Ma Gayatri SHG

(6) Mobilisation for skilling programmes

Skilling project of Sewing Machine Operator (NSQC Level 4), sponsored by NABARD is successfully running at IIT Kanpur and PIs are collaborating in mobilizing trainees from their villages. Trainees get 35 day training followed by placement in the local factories. So far nearly 200 young boys and girls have been trained, and about 80 percent have sought employment. PSIT (C54316), Asian Institute of Technology, Rama University (U0808), DG College (C12428), Dr Ambedkar Institute of Technology for Handicapped (C46823) have worked jointly with IIT Kanpur on this project.



RCI IITK staff addressing NABARD SHG and mobilization with UBA students of Asian Institute of Rural Technology (S16699) in villages Kakardehi and Baghpur

(7) Strengthening and expanding institution base

RCI IIT Kanpur team has been contacting local colleges and institutions to participate in the UBA programme. In this quarter 3 colleges have joined UBA namely Rajkiya Engineering College Kannauj (C62087) and Brahmanand PG College, Kanpur (C12306) and Narayan College of Science and Arts, Kannauj (C58809).

About 10 colleges of Kanpur have shown interest in joining the programme namely Christ Church College and PPN Degree College (Kanpur City), Janta Shiksha Sansthan (Ghatampur, Kanpur),

SJ Mahavidyala and SJ Law College (Ramaipur, Kanpur), Chitra PG College (Naubasta, Kanpur City), PT Sahdev and Prasad Trivedi Mahavidyalaya (Ramaipur).

The RCI team has addressed the UBA volunteers of PIs and encouraged them to take part in activities, and showing them the model used by the students of IIT Kanpur.

PIs are asked to develop their activity plans, and share their experiences.

(8) Developing communication channels

This quarter RCI IIT Kanpur focused strongly in building communication with the PIs, and seeking regular updates from them. PIs have begun to share their activities through social media platforms now. Improved communication with PIs is bringing positive results.

(9) Conclusions

In the coming quarter there will be sharper focus on strengthening the communication, improved visibility on social media platforms, seeking timely reports, organizing frequent offline/online meetings with the PIs. A project on dehydration of fruits and vegetables is going to be launched this year, and farmers will be giving training by experts. The PIs will be partnering with us and farmers of all adopted villages will get the benefit of the programme.