



भारतीय प्रौद्योगिकी
संस्थान जम्मू
INDIAN INSTITUTE OF
TECHNOLOGY JAMMU

विद्यया न संसृज्यते



उन्नत भारत अभियान
UNNAT BHARAT ABHIYAN

उन्नत भारत अभियान

Progress Report

1-4-2023 to 15-8-2023

Regional Coordinating Institute (RCI)
Indian Institute of Technology Jammu
Jammu & Ladakh Region

Prof. Rakesh Singhai
(RCI Coordinator)

Dr Riya Bhowmik
(PI Coordinator)

Mrs Jeyoti Kaul
(UBA Project Assistant)

Mr. Subash Langeh
(Field Staff)

Name of RCI	Indian Institute of Technology Jammu
AISHE CODE	U-0906

Orientation Review Workshop And 1-Day Workshop on Bamboo Candy Making and Cultivation

उन्नत भारत अभियान
UNNAT BHARAT ABHIYAN
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Regional Coordinating Institute
Indian Institute of Technology Jammu

In collaboration with
CSIR-NIScPR, New Delhi and National Coordinating Institute, IIT Delhi
Knowledge Partners-CSIR-IHBT Palampur and Vijnana Bharti (VIBHA)

Organises
One Day Training/Demonstration Workshop on
Bamboo Cultivation and Candy Making

On 28th April 2023 at IIT Jammu

Nagrota, Jagti, NH 44, Jammu-181 221, J&K, India.
P: +91-191-2570280 / 2570280 | E : helpdesk @ iit jammu.ac.in | W: www.iit jammu.ac.in

Indian Institute of Technology as Regional coordinating Institute, Unnat Bharat Abhiyan organized one day training, awareness and demonstration workshop on 'Bamboo Candy Making' and 'Bamboo Cultivation' and an orientation review workshop for new as well as existing Participating Institutions on 28th April 2023 in physical mode at IIT campus in collaboration with CSIR-NIScPR, New Delhi, CSIR-IHBT, Palampur and NCI, IIT Delhi, the Knowledge Partners were CSIR-IHBT Palampur and Vijnana Bharti (VIBHA).

This event was planned for stakeholders of Jammu Province including the farmers and the stakeholders from our adopted villages and also the adopted villages of our participating institutions (PIs) of Unnat Bharat Abhiyan of Jammu province who are already into the bamboo trade/cultivation.

The workshop was conducted in three sessions, the introductory session was taken by Dr. Riya Bhowmik, UBA PI Coordinator, followed by welcome address by Prof. Rakesh Singhai UBA RCI Coordinator IIT Jammu welcomed the dignitaries, highlighted the achievement and shared the intentions behind the organising this workshop, he wanted the follow up of the workshop shall be promising for the attending farmers.

The session continued with an online speaker Prof. Vivek Kumar, Co-Coordinator, NCI, IIT Delhi, stressing upon transforming higher education and villages for Atmanirbhar Bharat, its objectives, its network, its outcomes focusing on NEP and convergence for facilitation of holistic and sustainable rural development.

We were enlightened by our next online speaker Prof. Ranjana Aggarwal, Director, CSIR-NIScPR, New Delhi who in her inspiring words spoke about the working objectives of CSIR-NIScPR --- always ready to reach out to the grass root level through its network.

The Technical sessions started with the speech of Dr. Yogesh Suman, Senior Principal Scientist (NIScPR) introducing the technical sessions and shared a series of workshop schedules in a months ahead. The first technical session on Bamboo Candy Making was taken by Dr. Mahesh Gupta, Principal Scientist CSIR -IHBT Palampur, he started his

session with Bamboo Shoots---‘A Healthy Food Option’ were he elaborately explained the multiple uses of bamboo as food products. He also demonstrated the whole process of Bamboo Candy Making. The technical session of the event continued with the speech of Dr. Rohit Joshi Senior Scientists CSIR – IHBT Palampur, he took the session on Bamboo Resources and Technologies at Palampur, he talked about the different types of Bamboo available, their properties, their uses and how these can be differentiated as per their usability. He welcomed the attended farmers to CSIR-IHBT Palampur to get to know the cultivation techniques, propagation techniques through seeds and stems.

As we all know every region has its climatic and soil differences and plays avital role to adapt a particular cultivation, therefore to get to know about all this we had invited the scientist team from KVK Samba, Kathua and Reasi who updated the gathering about the Bamboo species available in Jammu Region, we had with us Dr. Sanjay Khajuria, Chief Scientist Agroforestry & Head Krishi Vigyan Kendra (KVK) Samba, he shared the experiences with a group of bamboo workers whom he met. They were in a bad condition, they could hardly earn to live their bread, but without butter, because they could only think of few bamboo craft things like vegetable baskets in different sizes, nothing beyond, they have not heard of bamboo candies and pickle. Dr. Khajuria also shared that the ministry has kept him as ‘Invitee’ in bamboo mission and he has to report progress after every two months and the things have start moving and a sanction of 1.5 crore INR grant was sanctioned to build a cooperative as cluster 1 for Samba district for the bamboo farmers where they can bring their various products for exhibition throughout the year. And as an achievement, Dr. Khajuria also shared that he had sent a group of 5 to 6 farmers to Assam who got trained in bamboo furniture etc.

This part of agriculture has no history in Jammu because, in Jammu only a particular community does this bamboo craft as this craft is considered a craft for lower caste community, therefore this particular part of agriculture lack behind, but now the ideologies have changed and the avenues have added in every sector.

Continued the session with Dr. Lalit Upadhyay, Scientist of KVK-Reasi. He talked about the common constraints faced by the farmers are--- there are only few species of local bamboo available e.g., ‘Lathi Bans’ and that too is very hard to cut, he also mentioned that in Jammu generally we find the bamboo in forests and before 2017,the state had no Forest policy and the farmers were not allowed to cut the bamboo for the craft, but after the forest policy of 2017, the bamboo has been kept out of the forest laws, so we can cut and cultivate the bamboo without the permission.

Adding the information about local bamboo species available by Dr. Vishal Mahajan Senior Scientist of KVK-Kathua. He put forward the important point that there is a great difference between the climatic conditions of Palampur and Jammu, the moisture content in the air is very less than Palampur and the bamboo grown in Jammu is very hard and is not fit for candies and pickle. While sharing his research in the field that only 4 types of bamboo is available in the forest areas of Jammu and the focus need to be given to increase the cultivation of more species.

We had with us the NCI, IIT Delhi team, Dr. Meenakshi Choudhary and Mr. Ashish Chauhan who coordinated the event at NCI level.

The event concluded with the vote of thanks by Dr. Bhowmik, thanking the Scientists and Farmers for making this event a success. The glimpses of an event and a group photograph can be seen in fig-1 and fig-2.

Glimpses



Fig-1



Fig-2

Computer Training:

The training of neighboring school students as part of our outreach programme was scheduled on the request from the adopted village Kuwara of Panjgrain. IIT Jammu social club (Kritash) and UBA took the initiative and planned the same. The schedule below was designed for weekends, so that it will not disturb the routine class work of both, the school students who want to learn and the IIT volunteers who want to teach. There were around 20 students who were on roll. Most of the students had seen the computer first time. We can see the glimpses in fig-2A, 2B, 2C and 2D

Date	Time	Topic
04-01-2023	4-5pm	Revision of Introduction to computer and Operating computer using GUI Based Operating System
04-02-2023	2-5pm	Revision of Understanding Word Processing and Using Spread Sheet
04-08-2023	4-5pm	Revision of Introduction to Internet, WWW and web browser
04-09-2003	2-5pm	Revision of Communications and Collaboration and Making small presentations
04-15-2023	4-5pm	Revision of Financial literacy for banking Scheme and Applications
04-16-2023	2-5pm	will take test and certificate distribution
04-29-2023	4-5pm	Revision of Introduction to Internet, WWW and web browser
04-30-2023	2-5pm	Revision of Understanding Word Processing and Using Spread Sheet
05-06-2023	4-5pm	Revision of Financial literacy for banking Scheme and Applications
05-07-2023	2-5pm	will take test and certificate distribution



2A



2B

Students of IIT Jammu providing free computer classes to schools students from adopted villages



2C



2D

The first day in the lab

Participated in “Living Udaharan with C20 - LiFE working group”, which aims to bring attention to "Lifestyle". The contributions of *Living Udaharan* play a vital role in shaping Lifestyle For Environment and society, but often go unnoticed. The poster of the Web series can be seen in fig-3.

Webinar Series: "Lifestyle For Environment"- Living Udaharan

Organised By: UBA Regional Coordinating Institute IIT Jammu

Date: 23rd May 2023 | Time: 11:00 AM to 12:00 PM

Shri. Rajat Salgotra

About the speaker: Our speaker Rajat Salgotra, an MBA graduate from Jammu's Janipur area is one of the volunteers of Disha Foundation who have dedicated themselves for the social good. Some of his attention seeking works are:
 He was finding it difficult to understand how the urban dung could be stopped from flowing into Tawi River to save the river from getting further polluted and to find answers to his queries, the 28-year-old Rajat son of Ravi Kumar Salgotra of Janipur, studied the relevant matter available on the internet and YouTube in particular. His hard work finally paid off when he learnt to make some of the creative eco-friendly products using the urban dung and he got a private company registered under the name of Samast Eco Alternatives Private Limited and started working on different creative models to create a range of products from the otherwise waste material (dung). Therefore stopping the same from flowing into the rivers, including Gorpati idols, incense sticks, decorative items, Sambhani cups, diyas, incense cones, pots, seed balls, cow dung legs, and cow dung cakes.
 According to Salgotra, every year, tonnes of dung is generated by the stray animals loitering around the city areas and this goes into the rivers as a waste.
 "So, after registering the company, he start meeting various unemployed village women in nearby villages of Domana, Bhawani Nagar, Mishriwala, Purkhoo etc. to give them employment by registering them as Self-Help-Groups (SHGs) and to train them for creating various eco-friendly products from the urban dung," Salgotra said, now almost 30 women associated with his venture collect the dung on their own and make fine products.
 Rajat said that initially when he succeeded in creating one of the products from the dung, he underwent a two month's training course at Sher-e-Kashmir University of Agricultural Sciences Jammu (SKUAST-Jammu) to understand different aspects of business including value addition and proper marketing strategies.
 "A team of industry's experts trained me and other volunteers in different commercial aspects of the business," the young entrepreneur said. Rajat's company, Samast Eco Alternatives Pvt Ltd, has tied up with various government departments including State Pollution Control Board, Jammu Municipal Organisation, State Handicraft Department, SKUAST-Jammu and other government bodies, which help them sell their eco-friendly products at government-run melas and exhibitions. The foundations another heart catching activity is to motivated the Hindu devotees on Navratna's to Save River Tawi. Twice a year during Navratna's volunteers Collected Polythene, Plastic Churni, Plastic Bottles, Cardboard and many other non-biodegradable items, which will be recycled in an eco-friendly manner. During this 2023 New Year, Mr. Rajat's foundation celebrated the New Year by distributing blankets, Socks and caps among the needful persons in Jammu. Volunteers visited GMC Hospital, Shalimar Hospital, Super Speciality Hospital, Bus Stand, Railway Station and Gandhi Nagar Gole Market and distributed the woollen

LiFE is our responsibility

Fig-3

IIT Jammu as Regional coordinating Institution could find Rajat Salgotra, an MBA graduate from Janipur area of Jammu district is one of the volunteers of Disha Foundation who have dedicated themselves for the social good.

Some of his attention seeking works are:

He was finding it difficult to understand how the urban dung could be stopped from flowing into Tawi River to save the river from getting further polluted and to find answers to his queries, the 28-year-old Rajat S/o Sh. Ravi Kumar Salgotra studied the relevant matter available on the internet and YouTube. His hard work finally paid off when he learn to make some of the creative eco-friendly products using the urban dung and he got a private company registered under

the name of Samast Eco Alternatives Private Limited and started working on different creative models to create a range of products from the organic waste material (dung). Therefore stopping the same from flowing into the rivers, including Ganpati idols, incense sticks, decorative items, Sambrani cups, diyas, incense cones, pots, seed balls, cow dung logs, and cow dung cakes.

According to Salgotra, every year, tonnes of dung is generated by the stray animals loitering around the city areas and this goes into the rivers as a waste.

His foundation also took an initiative to clean the dirty ponds, wells with the help of NSS volunteers of different Universities and colleges of the city too. His foundation widen the network by personally meeting the NSS Coordinators to increase the manpower. This all was initiative to save the mother earth from getting more polluted, This talk was an inspiration for all of us and we are in touch with him to help his and even our cause to save environment.

The report was submitted on the given format to NCI, IIT Delhi.

Engagement of IIT Jammu with Pachayati Raj institutions and how to tap funding opportunities

A talk by Dr. Polly Datta (How to link IIT Jammu to Panchayati Raj institutions)

A talk was delivered by Dr. Polly Datta on “engagement of above topic on Tuesday April 11, 2023 at 4 PM. Dr. Polly Datta has a PhD from University of Heidelberg, Germany and her expertise is on Decentralized Finance for Rural Upliftment. She discussed various ways to disseminate applied research outcomes of various departments of IIT Jammu to the nearby Gram Panchayats (GPs) through regular qualitative engagement with the respective GPs while finding out the felt need of these GPs. This talk intended to shed light on exploring possible avenues in utilizing the platform -UBA-Cell based at an institute of eminence like IIT to the fullest extent. This platform has a huge potential to attract funds from both the international donor agencies and rural banks (NABARD) as well as from national and sub-nation (State) governments that float Programmes /Schemes which have rural components. This not only helps in making UBA Cell a self-sustaining platform but also can create a buzz among the entire fraternity of any IIT in innovating rural-friendly technological models while blending tradition with modern technologies. These proposed models can be location-specific and season specific as well as can also cater to all-weather conditions and rural locations in India. These rural-friendly, technological models can be upscaled and marketed while making it economically viable by establishing regular and continual engagement between the UBA Cell and the local administration (viz. Panchayat, Block, District and State). Such initiatives to be undertaken by the UBA Cell can also facilitate the process of earning patents and can also help the Career Counseling unit/Placement Cell of an IIT for sharing requisite knowledge to the students that might want to initiate startups in rural areas in future. Few images of the talk can be seen in fig-4 and fig-5.

On Wed, Apr 12, 2023 at 10:32 AM Polly Datta <pollydatta@gmail.com> wrote:

Dear Sir,

Thanks indeed for everything. I really enjoyed interacting with your UBA Team and was positively surprised by their depth of understanding on this issue.

Please find attached the talk that I delivered and please pass it onto Jyoti mam-project coordinator, UBA, IIT Jammu.

Looking forward to meeting all of you again

Sincerely,

Polly



Fig-4

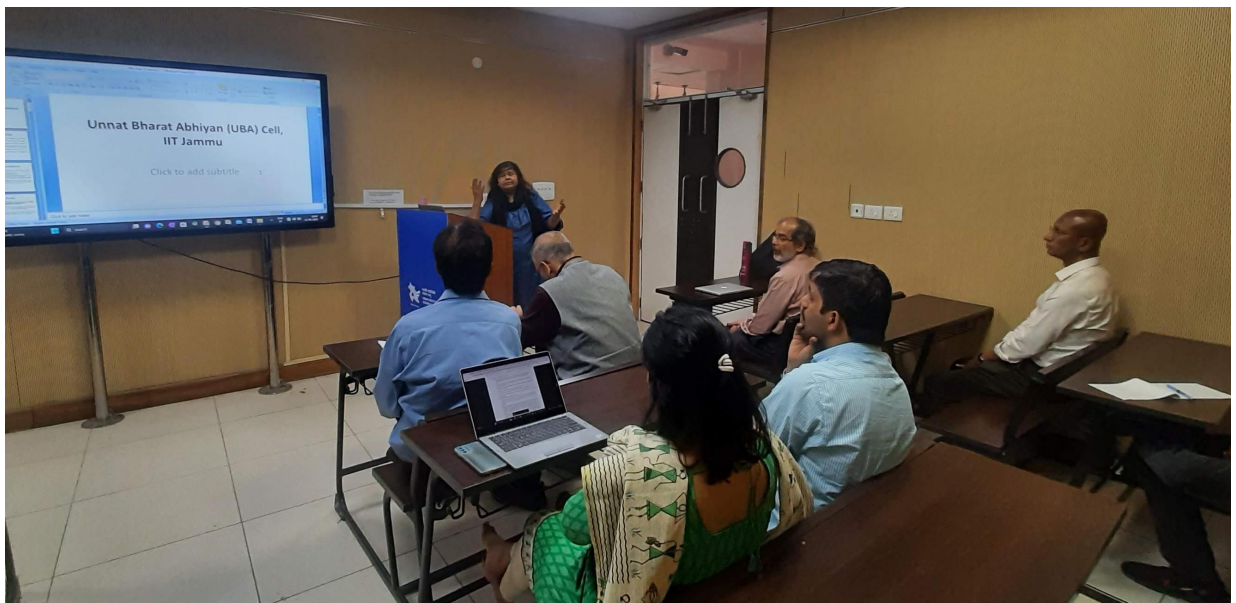


Fig-5

Drawing Competition on World Environment Day'23

In support of the initiative of the Government of India: **Mission Life**, IIT Jammu organized a **Drawing Competition** with a following theme and time schedule

Theme: Nature and Environment

Date: 4th June 2023

Time: 10 AM to 1 PM

All the materials required for the drawing competition, like colours, pencils, paints, brushes, etc. were provided by the organizers.

Prize distribution was kept for 5th June 2023 i.e. on World Environment Day:

1st Prize: 3000 Worth

2nd Prize: 2000 Worth

3rd Prize: 1500 Worth and Two Consolation Prizes of Rs. 1000/-

All the respected Faculty Members, Staff, and Students were invited to put their imagination of the Greener Tomorrow on paper!

All the participants were supposed to fill **Google form** to get entry for the competition.

Around Seven drawing interested students from two schools of village Panjgrain were enrolled by UBA team through Google form for the competition. This was a step ahead, sharing the same classroom with rest of the IIT Jammu students, staff and faculty and all the participants got participation certification for the Talent and Hard work they poured into the Art.

I am proudly writing that Riya Loach of village Panjgrain won the Third prize of Rs. 1500/- and Samaksha Rajput of the same village won the Consolation prize of Rs. 1000/- among the August Audience. The student holding the drawing can be seen in fig-6 and the group photo graph can be seen in fig-7.



Fig-6, Samaksha Holding her Drawing on 4th June 23



Fig-7 Group photograph on 4th June 23

Pledge for Planet:

It was a movement to take pledge to Conserve, Protect and Care for the planet through LIFE. IIT Jammu as RCI for Unnat Bharat Abhiyan took this Pledge while celebrating World Environment Day before along with the forest Officers the region along with the students of the adopted villages who had come to participate in the drawing competition can be seen fig-7A and fig-7B. The students of the village were also made aware of the concept behind this pledge.



Fig-7A



Fig-7B

A followup meeting on 1-Day Workshop on Bamboo Candy Making and Cultivation:

An online meeting held on 7th June 2023 by UBA and CSIR for implementation of Bamboo cultivation training at IHBT Palampur for the stakeholder of Jammu province to discuss, how its implementation in Jammu regions through UBA and KVK network can be made possible. The KVK Scientists of Reasi, Samba and Kathua were present in the meeting to share their valuable expertise. The screen shot of the meeting can be seen in fig-8.

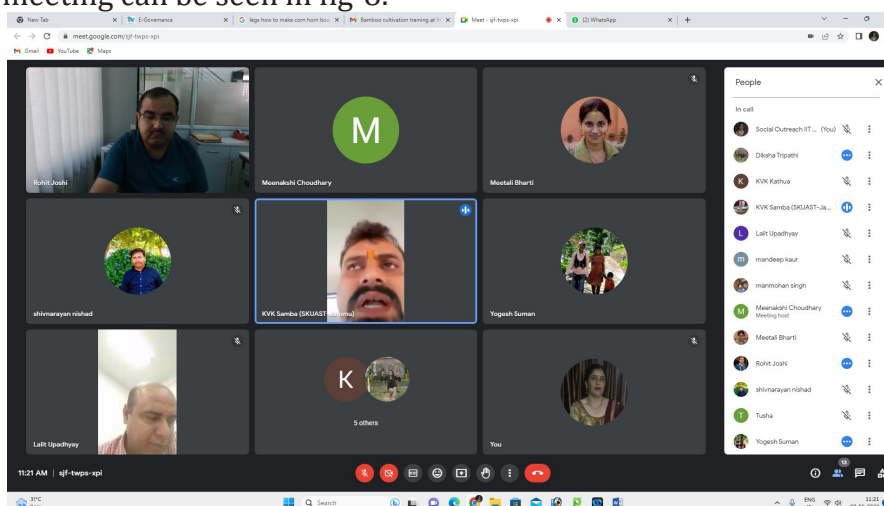


Fig-8

Training of Panchayat Stakeholders on Carbon Neutral Panchayat Survey by IIT Jammu as Regional Coordinating Institute, Unnat Bharat Abhiyan:

In an endeavor to drive rural development and harness the potential of knowledge institutions, the Indian Institute of Technology Jammu (IIT Jammu),

under the aegis of Unnat Bharat Abhiyan (UBA), organized a successful One-Day Training Cum Demonstration Workshop on Carbon Neutral Survey at the Jagti campus. The workshop witnessed enthusiastic participation of more than 120 panchayat secretaries from across the Jammu region on 18th July 2023. The main objective of this training program is to replicate the Palli Gram Panchayat Model across all Halqa Panchayats of Jammu & Kashmir UT as IIT Jammu has already supported Rural Development Department & Panchayati Raj in conducting household survey, data digitization, data analyses and report submission to create Palli GP as Model Carbon Neutral Panchayat during 2022-23.

Building upon the exceptional accomplishments of Palli Panchayats Climate Change Action Plan for Carbon Neutrality, the Jammu & Kashmir administration is now determined to replicate this ground breaking survey model across all panchayats in the region.

The esteemed occasion witnessed the presence of Ms Sheetal Pandita, Deputy Secretary, Department of Rural Development and Panchayati Raj, Jammu & Kashmir, who graced the event as the chief guest. She unveiled the ambitious plan to develop a dedicated portal for the submission of survey data from all panchayats. Ms Pandita also extended her encouragement to all panchayat officers, urging them to contribute more efficiently to the carbon neutrality initiatives can be seen in fig-9.

The training commenced with an introduction to the objectives of Unnat Bharat Abhiyan (UBA) and the methodologies employed during the implementation of the Carbon Neutral Survey in Palli Panchayat by Dr Riya Bhowmik, PI UBA, IIT Jammu.

Prof Uma Shankar, dean Students Affairs IIT Jammu delivered the welcome address, shedding light on IIT Jammu's vision for achieving Carbon Neutrality. He emphasized the significance of measuring the elements of water, air, soil, trees, and energy (abbreviated as WASTE) as key indicators of sustainability can be seen in fig-10.

In the first session, Ms Jeyoti Kaul expertly guided the participants in comprehending the various intricacies of the Survey Form, which included a detailed Energy Audit Form for Household, along with the methodology for conducting the survey. Subsequently, Dr Riya Bhowmik facilitated the gathering with methodologies for analysis of the gathered data, aiding in the digitization of the information for the purpose of report generation can be seen in fig-11

The session concluded with vote of thanks by Dr. Bhowmik

A group photograph was taken and can be seen in fig-12. The esteem gathering was then taken for Lunch.



Fig-9 Ms Sheetal Pandita, Deputy Secretary, Department of Rural Development and Panchayati Raj, Jammu & Kashmir UT administration,



Fig-10 Prof Uma Shankar, dean Students Affairs IIT Jammu delivered the welcome address, shedding light on IIT Jammu's vision for achieving Carbon Neutrality.



Fig-11 Dr Riya Bhowmik facilitating the gathering with methodologies for analysis of the gathered data



Fig-12 Group Photograph

Lifestyle For Environment"- Samajshala at UBA Villages

Celebration of Environment friendly lifestyle with the people in our adopted village Pangali: UBA Regional Coordinating Institution, IIT Jammu has felicitated Ms. Pumma Devi, who has dedicated her whole life for the social good. She remained bachelor her whole life and has donated three and a half kanals of land for the Ghoushala for stray cattle (cows). There is a trend in Jammu that when cows or she-buffaloes stop giving milk, they leave them open. Ms. Puma Devi has given shelter to these unspoken animals from years and is still doing the same. Now there are many helping hands and the committee has been formed. The committee try to generate money by either cash or kind for feed there animals. At present there are 78 animals in the Ghoushala and increase in number continue----

On our first visit in May 23, we met the lady and asked her, in what way we can help her. She quickly answer that she does not need anything for her, else she is in need of a big steel container with lid to store water for drinking purpose, because people often visit her Ghoushala and there is nothing to store water for drinking purpose. Therefore our team purchased a 25litre steel drum and handed over it to her with a small gift. The glimpses can be seen in figures 13, 13A, 14, 15, 16, and 17



Fig-13



Fig-13A



Fig-14



Fig-15



Fig-16



Fig-17

Riya Bhowmik

Signature
Dr. Riya Bhowmik
PI Coordinator

Rsinghai

Signature
Sr. Prof. Rakesh Singhai
Regional Coordinator