UNNAT BHARAT ABHIYAN

(A Movement for Progressive India)

Quarterly Progress Report

(Uttarakhand & West Uttar Pradesh Region)

July – September 2022

of

Regional Coordinating Institute (RCI)

Indian Institute of Technology Roorkee

Organic Farming

Water Management

Renewable Energy

Artisans, Industries & Livelihood

Basic Amenities

Convergence

Regional Coordinating Institute (RCI)

Unnat Bharat Abhiyan 2.0

Indian Institute of Technology Roorkee

Roorkee-247 667 (Uttarakhand)

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Regional Coordinating Institute (RCI)
Quarterly Progress Report

This Quarterly Progress Report provides the details of activities carried out by the Regional Coordinating Institute, Unnat Bharat Abhiyan, Indian Institute of Technology Roorkee, from July 01, 2022 to September 30, 2022. The RCI, UBA, IIT Roorkee organized the following activities:

Sl. No.	Date	Meetings/Webinars /Workshops
1.	14-07-2022	Initiative - Donations of Computers & Chairs
2.	30-07-2022	Tech4Seva Event at Regional Level

"Initiative - Donations of Computers & Chairs

(Regional Coordinating Institute, IIT Roorkee)

The Regional Coordinating Institute, Unnat Bharat Abhiyan, IIT Roorkee has taken an initiative for donating of Computer Systems (12 Nos.) & Chairs (31 Nos.) in the adopted villages i.e. Beladi – Salhapur & Meerpur. Prof. Ashish Pandey, Regional Coordinator, UBA Pandey assured the principals who came from the adopted village that he would do everything possible for the development of the village.

Unnat Bharat Abhiyan

(A Movement for Progressive India)

Report

on

"Tech4Seva Event at Regional Level"

for the coordinators of Uttarakhand - West Uttar Pradesh Region & NGO's

Date: July 30th, 2022

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Report on "Tech4Seva at Regional Level"

Regional Coordinating Institute, Unnat Bharat Abhiyan IIT Roorkee Organized **"Tech4Seva *at Regional Level*"** event on July 30, 2022, at the Department of Water Resources Development and Management, IIT Roorkee.

UBA Participating Institutions (PIs) coordinators from Uttarakhand, West Uttar Pradesh, IIT Roorkee faculty members, students, NGOs, Gram Pradhan's of the adopted villages attended this program. The list of participants is enclosed as annexure –I. The event schedule is enclosed as annexure – II.

Themes of the Event: The focal theme of the event was technology outreach as an enabler for inclusive, sustainable, and affordable healthcare. Sustainable agriculture systems, water resource management, rural energy systems, artisans, industries and livelihood, and basic amenities (infrastructure, education, healthcare) were the sub-themes of the event.

Prof. Ashish Pandey, Coordinator, Unnat Bharat Abhiyan, Regional Coordinating Institute, IIT Roorkee apprised that the students from 45 participating institutions of Uttarakhand and 40 of Western Uttar Pradesh, working voluntarily under the Unnat Bharat Abhiyan program, are providing their services in about 425 adopted villages. He said that under the UBA program, continuous efforts are being made to make life easier and improve the living standard of villagers through technology intervention. He added that from the Tech4Sewa event, the three best devices/techniques would be selected in this event and shared with the UBA, NCI IIT Delhi, which would later be included in a compendium of 75 technologies chosen from all over the country. The three best entries would be selected by the panel of experts headed by Prof. M. L. Kansal, Prof. Kritika Kothari, and Prof. Bhanu Prakash Vellanki.

Prof. M. Parida, Deputy Director, IIT Roorkee, addressed the inaugural session of the program. He said that the students working voluntarily under the UBA program tried to understand the problems of villagers. They have developed simple devices which address the issues directly related to the villagers and farmers. He said that IIT Roorkee is celebrating 175 years of its existence. This is a matter of

pleasure and pride that IIT Roorkee is successfully connected with farm ers and people of rural backgrounds through Unnat Bharat Abhiyan and Gramin Krishi Mausam Seva (GKMS) programs.

Prof. Akshay Dvivedi, Dean SRIC, IIT Roorkee, apprised that IIT Roorkee has initiated a 'COMAL' (Common Man to Laboratory) scheme under which any common man (innovator) is welcome to approach Design Innovation Center at IIT Roorkee with his/her innovative ideas/design. This is another way to connect common people with IITs-like institutions.

Demonstration of Technologies

1. **Prof. Vinay Sharma, Dept. of Management Studies, IIT Roorkee**
   - Low-cost Energy Through Forest Bio-Residue
2. **Prof. R. P. Saini, RUTAG, IIT Roorkee**
   - Aloe-Vera Processing Machine for Natural Cosmetic Multi Products
   - Mechanized Roller for Namda (Felt) Making
   - Efficient Pomegranate Seed Extraction Machine
   - Development of Air-Cooled Based Vegetable Vending Cart
   - Variable Speed Motorized Bageshwari Wool Charkha (Version-2)
3. **Dr. Swapan Suman, MIET, Meerut**
   - Hands-free Water Tap Mechanism
   - Automatic Plant Irrigation System
4. **Dr. Brijesh Prasad, Graphic Era University, Dehradun**
   - Waste Water Treatment Using Biomass Residue
5. **Mr. Alap Mahar, DR. APJ Abdul Kalam Institute of Technology, Tanakpur**
   - Automatic Chaff Cuter Machine
   - Mechanical Floor Cleaner• Agricultural Multipurpose Machine
6. **Dr. Manuj Agarwal, MIT Moradabad**
   - Krishi Saarthi (Investigating Soil - Arduino Nano, NPK sensor)
   - Krishi Saarthi (Fasal Suraksha)
7. **Mr. Navneet Kumar**

- Demonstration of Drone Technology

❖ Technology - Low-cost Energy Through Forest Bio-Residue

By (Prof. Vinay Sharma, DoMS, IIT Roorkee)

Basic Information of Technology		
	Items	**Answers**
1.	**Title of the technology**	**(Portable Manual Briquetting Machine for Converting Forest Bio Residue to Low Cost Energy Briquettes)**
2.	About technology (in short) (upto 50 words)	The Briquetting Machine is portable, manual, easy to use, low cost, low maintenance having high efficiency in terms of generating around 2000 PSI of pressure to compress forest bio residue in to briquettes without any requirement of mixing, drying or pyrolysis
3.	Contact Details of Technology Developer (Name, affiliation, email id, mobile no.)	IIT Roorkee—PIs Dr. Vinay Sharma and Dr. Rajat Agrawal Professors, Department of Management Studies and Joint Professors at Department of Design at IIT Roorkee with technical advice of Dr. Kapil Joshi IFS. Emails and Mobile:vinay.sharma@ms.iitr.ac.in 9839022610, rajat@ms.iitr.ac.in 9719004491.
4.	What is the scientific approach to choose the particular technology?	Forest Bio Residue is light weight and is available in large quantities, cannot be collected and brought down the hills for a particular usage. It possesses high calorific value. If can be compressed at the place of availability and may be used for energy generation would express large complimentary value. A system is required which does not requires any mixing, pyrolysis and easy for production while enabling usage
5.	After what duration the first output can be seen?	The first output is ready and commercially viable as of now very well adopted by 2 villages in Uttarakhand and the Forest Division of Nowshera in Jammu and Kashmir
6.	What kind of resources required (raw material, energy, water, others)?	Just the Forest Bio Residue especially PINE NEEDLES
7.	What is the area foot print of the Process/Technology?	Whole of the North Western Himalayas
8.	What kind of Climatic and Geographical location is required?	Himalayan Areas

9.	Gestation period of the project?	The project requires larger expansion and the establishment of a fully functional commercial model
10.	Minimum Economic Unit Size?	20 villages with 25 machines each
11.	Indicative Investment for the Technology	9-10 Crore Rupees
12.	Skill required for operations/ maintenance	Basic operational efficiency and very basic maintenance skills
Salient Feature of Process/Technology Information		
13.	How everything from top to bottom (Supply Chain) to be made in the village itself (Circular and local)?	Pine Needles are shed by Pine Trees in millions of tons every year. There are hundreds of villages where pine needles are available in abundance. These needles must be collected and chopped along with briquettes being made. During shedding season of March – June ALL THREE ACTIVITIES of collection, chopping and briquetting must be done while REST of the NINE Months only Briquetting out of stored chopped needles can be done. This will provide cooking, heating with low carbon emissions at the house hold levels, Livelihood ALL YEAR through by sales proceeds from the Restaurants, Resorts and other commercial buyers. Larger out put may cumulatively be sold for industrial usage as well.
14.	Employment generation Potential	One machine is good enough for providing a sustained livelihood to one household or 5 individuals, hence a village may be provided with a livelihood for 125 people and 20 villages may have a livelihood for 2500 people, all the year round.
15.	How many Training Days or months required for the technology to be learned properly?	From production to marketing requires the training during one cycle of 4-5 months
16.	If it can be implemented at Family level or external manpower is required?	It is better if it is implemented at the family levels
Additional Information		
17.	How many Manpower required?	3-4 people per machine
18.	Cost of Technology (Please provide breakup if possible)	One machine installation with cutter and a mobile phone with marketing and information application is around 1,30,000 Rupees wherein Machine is around 90,000 Rupees and the rest are peripherals along with other associated costs

19.	What type of Certification required for the product?	No certifications required as such
20.	Risk involved?	No risk involved as such. The major precaution must be taken for the storage of the pine needles and the briquettes as these are highly inflammable
21.	Research Publications/ Newspaper publication/ Patent(authored by the technology developer)	1. Sengar, A., Sharma, V., Agrawal, R., Dwivedi, A., Dwivedi, P., Dwivedi, Joshi, K., Dixit, G., Sharma, P.K., & Barthwal, M. (2020). Prioritization of barriers to energy generation using pine needles to mitigate climate change: Evidence from India. Journal of Cleaner Production, 275, 123840. **Impact Factor – 9.297** 2. Dwivedi, A., Dwivedi, P., Joshi, K., Sharma, V., Sengar, A., Agrawal, R., Sharma, P.K., Dixit, & Barthwal, M. (2022). Local leader's impact on adoption of renewable energy generation technology by rural communities in the Himalayan region. Journal of Cleaner Production, 352, 131479. **Impact Factor – 9.297** 3. Joshi, K., Sharma, V., & Mittal, S. (2015). Social entrepreneurship through forest bio residue briquetting: An approach to mitigate forest fires in pine areas of Western Himalaya, India. *Renewable and Sustainable Energy Reviews*, 51, 1338-1344. **Impact Factor – 11.239** There are several news coverages on this a recent one is:
22.	Any other Information	Photos/videos https://www.nmhs.org.in/pdf/success_story/18-01-2021_Dr.%20Vinay%20Sharma/Success_story.pdf
		https://youtu.be/-izGxlxyZHw

❖ **Technology -** Following Technology were demonstrated during the exhibition.

- Variable Speed Solar Based Bageshwari Wool Charkha.
- Pomegranate Seed Extraction Machine.
- Aloe-Vera Processing Machine for Natural Cosmetic Products.
- Mechanized Roller for Felt Making.
- Air Cooled based Tricycle Vegetable Vending Cart.

By Prof. R. P. Saini, RuTAG, IIT Roorkee,
Shri. Vijay Saini & Shri. Imtiyaz Ali (Project Associate)

Variable Speed Solar Based Bageshwari Wool Charkha -

Foot operated traditional charkha is used for spinning of the wool in Uttarakhand, Kashmir and Himachal Pradesh. The traditional charka has drawbacks of non-uniform filling of bobbin; non-uniform thickness thread of yarn, low productivity. It requires strenuous efforts and physical work to run the charka. In order to overcome these issues, a modified Bageshwari Wool Charkha is developed by upgrading the traditional charkha as shown in Figure. The advanced Bageshwari Wool Charkha comprises of solar panel (75 W), electric motor (110W), battery (12 V) with 4 volt rechargeable battery operated through foot pedal. Further, a knob control is provided to adjust the course and fine spinning of wool. This system has advantages of a USB socket, battery backup, lightweight structure and its components that can be easily be assembled and disassemble. The main components of the automated Bageshwari Charkha are listed below. The components are also shown in figure**.**

Components of the Bageshwari Wool Charkha

S. No.	Component	Specification
1	Battery:	12 Volt 35 amps
2	Generator	4 volt (Operated through peddle fitted)
3	D.C. voltmeter	6 to 100 Volt
4	Motor	220 V 50Hz 110 watt , R.P.M. 7500
5	Switch and Socket	220 volt Inverter output
6	Knob control	Coarse and Fine control
7	Worm Gear box (gear ratio)	1:48
8	Solar Panel	75 watt
9	Fly wheel	Dia-17", Thickness-18 MM
10	Tool box	14.5" ×11.5"×6"

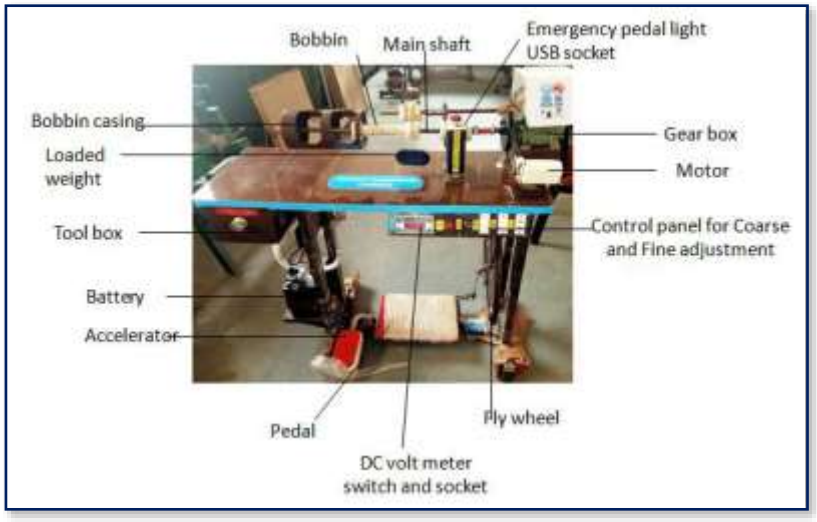


Fig : Photograph of Modified Bageshwari Wool

Pomegranate Seed Extraction Machine -

Photograph of Pomegrante aril extraction machine

India being the largest producer of pomegranate is a host to various cultivated as well as wild varieties. Pomegranate is high in demand due to its rich nutrients, dietary fibers, foliates and vitamins. Wild pomegranate grows in vast tracts of mid altitude in Himachal Pradesh, Uttarakhand and Jammu and Kashmir states of India. It is highly valued for its nutritious arils and peel which is source of additional income to farming communities. Local farmers harvest wild pomegranate, extract arils and peels, and sun dry them for sale. In absence of efficient aril extraction technology the farmers undertake strenuous and time consuming labour. Yet, they are unable to process entire harvested pomegranate during its short shelf life coinciding with September rains. As a result, much of the harvested fruits rot and remain unutilized. In order to improve local extraction processing and to overcome the difficulties, RuTAG, IIT Roorkee has designed an electrically operated light weight pomegranate aril extraction machine. It can completely extract arils of 50-60 kg pomegranate in one hour as compared to maximum of 10 kg extraction in an hour using local technology in Himachal Pradesh. Use of this designed machine, could help in rapid aril extraction to prevent rotting of fruits which cannot be processed in time because of unavailability of efficient machines to the local people. A photograph of Pomegranate aril extraction machine is shown in Figure.2.

Technical Specifications of Pomegranate seeds Extraction machine

S. No.	Accessories	Dimension
1.	Shape	Cylinder-2 nos. (Base frame & Inner cylinder- Fruits Placing)
2	Size	2 feet
3	Motor	½ HP
4	Pulley	2" & 12"

Aloe-Vera Processing Machine for Natural Cosmetic Products -

Aloe-Vera, Wild apricot oil and Artemisia along with other natural ingredients which are found in states of Uttarakhand and Himachal Pradesh are used for preparing natural cosmetic products. In the pharmaceutical industry Aloe-Vera, has been used for the manufacture of products such as ointments and preparing cosmetic products like creams etc. The production process of Aloe Vera juice involves blending, grinding and heating of the entire leaf of the Aloe Vera plant to produce a liquid followed by various steps of filtrations and analyzed for its quality. The extracted juice is then mixed with other substance to produce a pharmaceutical, cosmetic or food product. However low-cost single unit at small scale which combines all operations is not readily available locally to the people. To Provide additional livelihood for the locals and upgrading skills through developing appropriate techniques to make various natural cosmetic products from Aloe Vera pulp and other useful plants, a low-cost machine is developed which can facilitate all operations of grinding blending& heating of Aloe Vera pulp &other products while controlling all critical parameters during the process in a single unit. This will provide sustainable source of income to the farmers/people of the area.

Final Product cosmetic moisturizing cream

Aloe Vera Processing Machine

Components of Aloe-Vera Machine

Sr. No.	Item	Specification
1.	Motor ¼ HP	2800 RPM

2.	Heating Element	2000W
3.	Grinding Blade	-
4.	Cylinder Diameter	305mm
5.	Manual handle	-

Mechanized Roller for Felt Making -

Photograph of Mechanized rolling devices

Non-woven woolen ornamental felt making is a prominent handicraft cottage industry in many states of India and it is a popular livelihood activity in the states of Jammu and Kashmir , Uttarakhand and Rajasthan. Felt has wide ranging usages for floors spreads, cushion covers, sofa covers, yoga and meditation mats, bags and fancy decoration item, and heat and sound insulation material. Felting wool needs much less time in making as compared to that of handloom fabric. Therefore, it is highly useful in processing waste and discarded wool for making fabric of various thicknesses.

Due to harsh and labor-intensive traditional felting processes, the craft of making handmade felt has remained a part of men's profession, and over the years a large percentage of artisans have left the trade of making felt. With this new technology, revival of felt making can take place. Instead of beating and rolling mass of wool with feet, the felt makers can make felt by pushing rollers without exercising strenuous foot and leg work. It reduces physical strain. Women can easily operate the felt rolling machine.

Technical specifications of felting rollers

S. No.	Specification	Roller-1	Roller-2	Roller-3
1	Roller Size	2.5 feet	4.0 feet	5.0 feet
2	Material	Mild steel	Mild Steel	Mild Steel with rubber wheel
3	Size of Felt	2 ×6 feet to 2 ×8 feet	3 ×6 feet to 3 ×8 feet	4 ×6 feet to 4 ×8 feet

Air Cooled based Tricycle Vegetable Vending Cart -

Air Cooled based Tricycle Vegetable Vending Cart.

Traditionally Vegetable hawkers use an open pushcart to carry fruits and vegetables from wholesale market to residential colonies or rural market to sale them. The vegetables are exposed and sold during daytime when the temperature is high most of the time, which leads to rapid deterioration in the quality of vegetables and fruits. It is estimated that rate of spoilage of vegetables alone increases 2–3 fold with each 10°C rise in temperature. Due to this routine of daily movement for sale, the hawkers are unable to maintain appropriate quality of vegetables for more than two days in summer. Thus, most of the perishable unsold for two days old vegetables are disposed of at throwaway price or discarded as waste incurring heavy loss to vendors.

Perishable vegetables need low temperature and high relative humidity for longer storage, especially during summer months. Among various methods, evaporative cooling is an environmentally friendly air-cooling system where water and air are the working fluids The Design cart include air-cooled evaporation cycle for preservation of food and vegetables. It has cooling unit based on evaporative principle. Cool air rich in humidity circulates the storage area to cool and keep required humidity for long storage time. A battery is integrated for powering a DC pump for spraying water over pads and powering a DC fan for circulation of moist and cool air. The battery will be charged at the residence of vendor each night and it can be used throughout the day without any onboard charging. A small water tank of 10-15 liters' capacity is attached for watering the pads. Based on the data collected during the fielding testing, it is found that Air-cooled Based Vending Cart is efficient for preserving the fruits and vegetable for 2-3 days.

Technical specifications for the components of the Pull-Cart

Sr. No	Particular	Rating
1.	Fan Motor	12 Volt, 3.03 Amp,36.36 Watt
2.	DC Pump Motor	12 Volt, 0.84 Amp, 10.84 Watt
3.	Led	12 Volt, 1.32 Amp, 15.84 Watt
5.	Fogger	24 Volt, 1Amp, 24 Watt
7.	Battery	12 Volt 65 Ah
8.	Stainless Steel Cabinet	123 cm x 119 cm x 88 cm
9.	Stainless Steel Water Tank	41 cm x 41cm x 17 cm (24-26 litres)
10.	Diameter of the tri-cycle pushcart wheel	28 inches

- **Technologies-**
  - **Hands-free Water Tap Mechanism**
  - **Automatic Plant Irrigation System**

  By Dr. Swapan Suman & Dr. Gaurav Kashyap MIET, Meerut

Hands-free Water Tap Mechanism -

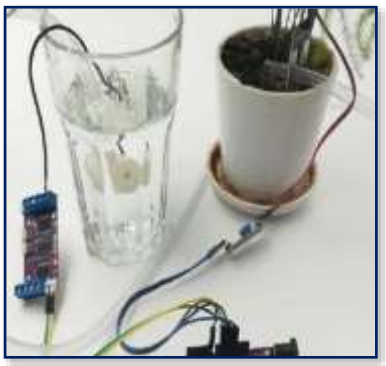
Devansh Sharma and his team under the Guidance of Dr. Gaurav Kashyap and Dr. Swapan Suman present his idea 'Hands Free Water-tap Mecahnism'

1. In the times of Covid-19, washing filthy hands, the user opens the faucet, washes the tap handle thereafter, and then repeats the process. Each and every prevention and precautionary measure is being taken, a foot operated tap for wash basins proposed.
2. The majorities of users do not or are unable to turn off the water, so it continues to flow to the sink without being used when cleaning many pots or utensils consecutively in the kitchen. This prevents the user from taking use of the water running during the times he changes between them.
3. Most important advantage of this mechanism that this mechanism can be brought to the work make without damage to the old pipeline and its cost will be ready in less than Rs. 500-1000 only.

Due to the lack of water resources and extreme use of potable water, a mechanical system is proposed to prevent infection and decrease water consumption in washing of hands and faces, utensils, ablution and similar operations. This study presents a suitable cost mechanical ways with easy implementation to save water and prevent infection. The proposed methods depends on controlling the water flow valve using legs controlled pedals instead of hands because hands are already busy while

washing. This mechanical system is intended to save the cost of power and components and for safety thus, electrical or electronic control is not used. The system design is developed in a way that eases its practical application on the already installed water valves without need to replace these valves entirely. The system is characterized by its simplicity, easy installation and maintenance besides its low effective cost.Currently, there are some available commercial feet or knee operated tap valve systems. They are expensive and need to change and reinstall water piping systems. This design can be implemented on existing systems without changing the tap and/or the connections that are often inside the walls.

Automatic Plant Irrigation System -



Prakhar and his team under the Guidance of Dr. Swapan Suman present his idea 'Automatic Plant Irrigation System' in the event.

The logic of this system is very simple. In this system, the moisture sensor senses the moisture level of the soil and when the sensor senses a low moisture level it automatically switches the water pump with the help of a microcontroller and irrigates the plant. After supplying sufficient water, the soil get retains the moisture hence automatically stopping the pump.

- **Technology: Wastewater treatment using biomass residue**

  By Dr. Brijesh Prasad, Graphic Era Deemed to be University Dehradun

Dr. Brijesh Prasad and his team, from the Department of Mechanical Engineering, Graphic Era Deemed to be University Dehradun have developed a unique method for water treatment, especially focusing on the paper, textile, and leather industries. These heavy industries use various types of industrial dyes as coloring agents and the waste effluent, at last, is then released into the water bodies. This causes an imbalance in aquatic life and creates difficult conditions for the aquatic ecosystem.

Taking it as a factor of motivation a team led by Dr. Prasad started working on it and found a solution by making use of the waste biomass, which can reduce the released effluent effect in water bodies to some extent. The waste biomass has been converted into activated carbon using the pyrolysis technique, which is then used for dye

adsorption. The abundance and availability of biomass make it a cost-effective and attractive product. At present methylene blue and malachite green dye have been taken under consideration.

Experimental results have shown an almost 95% removal rate of the dye from the effluent solution using the developed activated carbon. The work has been patented and waiting to be granted. Presently the technology is in R&D phase and is soon to be completed with the help of Green Ashesh Technology Limited, Hongkong. After granting the patent, the technology will be tested for the pilot project and then will go for commercialization.

❖ **Technologies –**

- **Automatic Chaff Cutter Machine**
- **Mechanical Floor Cleaner**
- **Agricultural Multipurpose Machine**

By Mr. Alap Mahar, Dr. APJ Abdul Kalam Institute of Technology, Tanakpur

Automatic Chaff Cutter Machine -

Team Members: Vishwakarma Ashish, Vikram Nagarkoti, Gaurav Sharma, Tushar Goswami, Dhananjay Sharma & Mentor: Mr. Alap Mahar, Dr. Rahul Kshetri, Mr. Nitish Phulera.

Introduction: A chaff cutter is a mechanical device for cutting straw or hay into very small pieces before being mixed together with other forage and fed to horses and cattle. This aids the animal's digestion and prevents animals from rejecting any part of their food. Chaff cutters have evolved from the basic machines into commercial standard machines that can be driven at various speeds and can achieved various lengths of cuts of chaff with respect to animal preference type. New chaff cutter machines include portable tractor driven chaff cutter - where chaff cutter can be in the field and load trolleys. This device is designed and developed using technological advancements our hand operated chaff cutter and or manual chaff cutter is highly précised machine and are smooth to operate. Impeccably designed, these chaff cutters are useful for chopping up hay and oat-straw to feed livestock and prepare fine raw material for food processing industries. The technical specification of this chaff cutter is tabulated below.

Target Groups: Farmers

Detailed Budget and Technical Grief:

- Spur Gear (6)
- Motor (1 HP)
- Bearing (4)
- Shaft (2)
- Wooden Cover
- Stand
- Total Cost: Rs. 17000/-

Expected Outcome:

- Simplicity
- Constant Speed Drive
- Reliability
- Cost-Effectiveness
- Efficiency

Working Model

Mechanical Floor Cleaner -

Team Members: Kartik Verma, Vishwakarma Ashish, Nishant Chaudhary, Deepak Pant. Mentor: Alap Mahar, Dr. Rahul Kshetri, Mr. Nitish Phulera.

Introduction: A floor cleaner is very much useful in cleaning floors in hospitals, houses, auditoriums, shops, computer centers, etc. it is very simple in construction and easy to operate. Anybody can operate this machine easily. It consists of a moisture cotton brush, the brush cleans the floor and is dried with aid of a small blower. Hence it is very useful in hospitals, houses, etc. The time taken for cleaning is very less and the cost is also very less. The maintenance cost is less. Many types of machines are widely used for this purpose. But they are working under different principles and the cost is also very high. Good well-maintained entrance matting can dramatically reduce the need for cleaning. For public and office buildings, about 80 to 90% of the dirt is tracked in from outside. Installing a total of 15 feet of matting consisting of both indoor and outdoor sections will remove about 80% of this. Thus about two-thirds of the dirt can be removed at the entrance.

Target Groups: Rural Population, Disabled person.

Detailed Budget and Technical grief:

- Metal Frame
- Bearings
- Bevel Gear Mechanism
- Plastic-built Mop
- Tires (2)
- 90% parts are taken from scrap material
- Total Cost for 1st Model: Rs. 2500/-
- Total Cost for 2nd Model: Rs. 2000/-

Expected Outcome:

- Manual effort is reduced.
- Operating time is less.
- Cleaning and Polishing liquid can be done at same time.
- It consumes less cleaning fluid.
- Design is very simple.
- Easy Fabrication.
- Net weight is less.
- Maintenance cost is less.
- Smoother Operation.

Model Design

1st Model

2nd Model

Agricultural Multipurpose Machine - Sprayer Machine -

Team Members: Deepak Pant, Kartik Verma, Nishant Chaudhary, Vishwakarma Ashish, Abhishav Pratap Singh. Mentor: Mr. Alap Mahar, Dr. Rahul Kshetri, Mr. Nitish Phulera

Introduction: Agricultural spraying machine is to overcome the problems faced by traditionally spraying done by farmers who carry knapsack-type sprayers because of its versatility, design, and cost. But it is time-consuming and requires human efforts causing problems like back pain. Hence, in order to overcome these problems, we have designed and developed a new agricultural sprayer that is more efficient than traditional sprayers and requires negligible human efforts. A multi-functional device will come in handy that can be used in different stages of farming as per farmers' requirements. This wheel-operated pesticide spray equipment consumes less time and achieves uniform nozzle pressure. A crank mechanism with a piston pump that is driven by a wheel is also used. The main aim of this project is to develop low cost

mechanically operated sprayer pump. The equipment has been validated by the users and feedback has been taken and improvements have been done.

Target Group: Farmers

Detailed Budget with technical grief

- Spindle Chain Mechanism
- Sprayer Tool
- Ploughing Tool
- Leveler
- Sprayer Tank (20 L capacity)
- Structure Cost: Rs. 8400/-

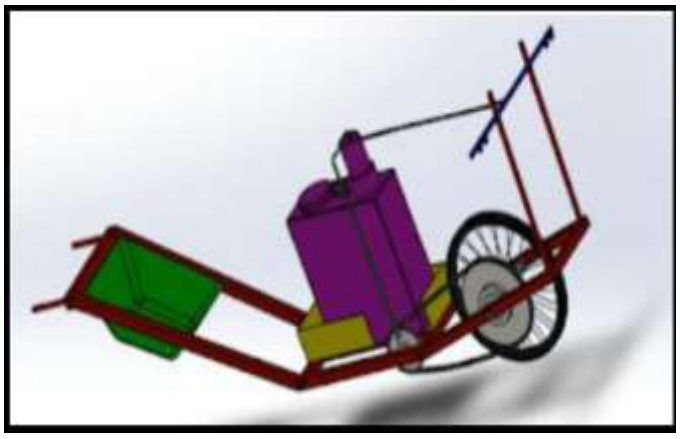
Expected Outcome:

• Human effort in pumping is reduced.
• Fatigue load is reduced.
• Spraying Capacity is increased.
• Cost effective.

Output Cost analysis:

- Insecticides/Pesticides/Fertilizers to be filled in Sprayer tank= Rs. 25000.

Model Design



❖ **Technology - Low Propagator House**

By Animesh Raj, Saurav Singh, Manoj Kumar, Roshan Jeena, Krishna Kumar Singh, Abhijeet Pal, Sudarshan Anand; Mentor - Dr. Pashupati Nath COER, Roorkee

Introduction: Cultivation of high value vegetables under low cost protected structures has been found to be a viable technology for growing vegetables throughout the year. The crops grown in protected structures in fetch higher prices in the market. Low cost protected technology like plastic low tunnels, walk in tunnels, shade net houses are used for vegetable cultivation for getting high returns. Similarly insect proof net houses can also be used on a large scale for safe vegetable cultivation for minimizing the use of pesticides in vegetable cultivation and for production of virus-free seeding. Therefore to enhance income of the small and marginal farmers, off-season vegetables cultivation under low cost poly houses is found to be very economical and profitable venture. Alongside, this technology ensures availability of every kind of

vegetables throughout the year which ultimately helps in nutritional security of the countrymen. During the winter season, it is extremely difficult to grow tomato capsicum, cucurbits, French bean, amaranth and many other crop varieties in open field conditions, however various types of protected structures have been developed for growing some high-value crops continuously by protecting the excessive cold condition, but the cost of developing the structure is too high i.e. – 50 lakh rupee for 1-acre land. Similarly, this structure will also provide favorable environmental conditions to the plants at a very low cost.

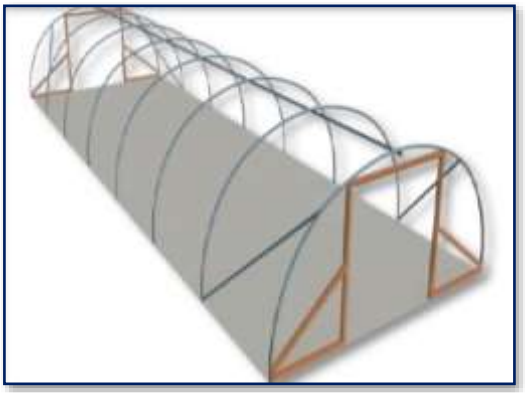
Target Group: Farmers and Rural Population

Detailed budget with technical brief:

- Size of structure (20 m (L) x 5 m (W) x 7’ (H)) = 100 m 2
- Structure Cost: 170700/

Output Cost analysis:

- No. of seedlings 8000 (polybags) + 7000 (portrays) = 15,000 seedlings.
- Seedling @ Rs. 10 = Rs. 150000.



Design: - (20 x 5 x 7) M2

Expected Outcome: It will be used to protect the plants from adverse climatic conditions such as wind, cold, precipitation, excessive radiation, extreme temperature, insects, and diseases. Raising the nursery in the protected structures will be to get higher profit and disease-free seedlings in the offseason. The temperature inside the structure will be 6-10o C higher than outsides during winter.

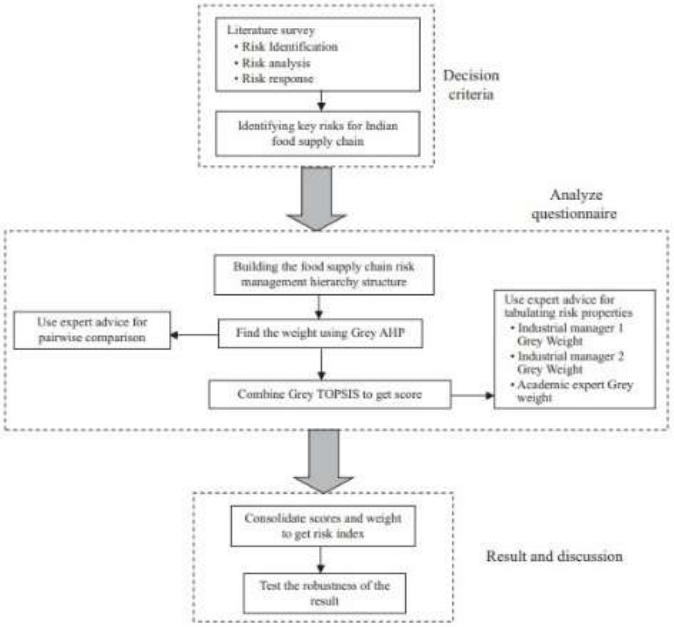
❖ Technlogy - Food Supply Chain

By Mr. Kshitij Jain & Team Members :Tannu ,Shagun Gupta ,Priya Jain, COER, Roorkee

A food supply chain or food system refers to the processes that describe how food from a farm ends up on our tables. The processes include production, processing, distribution, consumption and disposal.

The food we eat reaches us via food supply chains through which food moves systematically in domino like motion from producers to consumers while the money consumers pay for food goes to people who work at various stages along the food supply chain in the reverse direction.

Every step of the supply chain requires human or natural resources. Because a food supply chain is domino-like, when one part of the food supply chain is affected, the whole food supply chain is affected, which is often manifested through changes in price.



Methodology:

The proposed research methodology is divided into two sections.

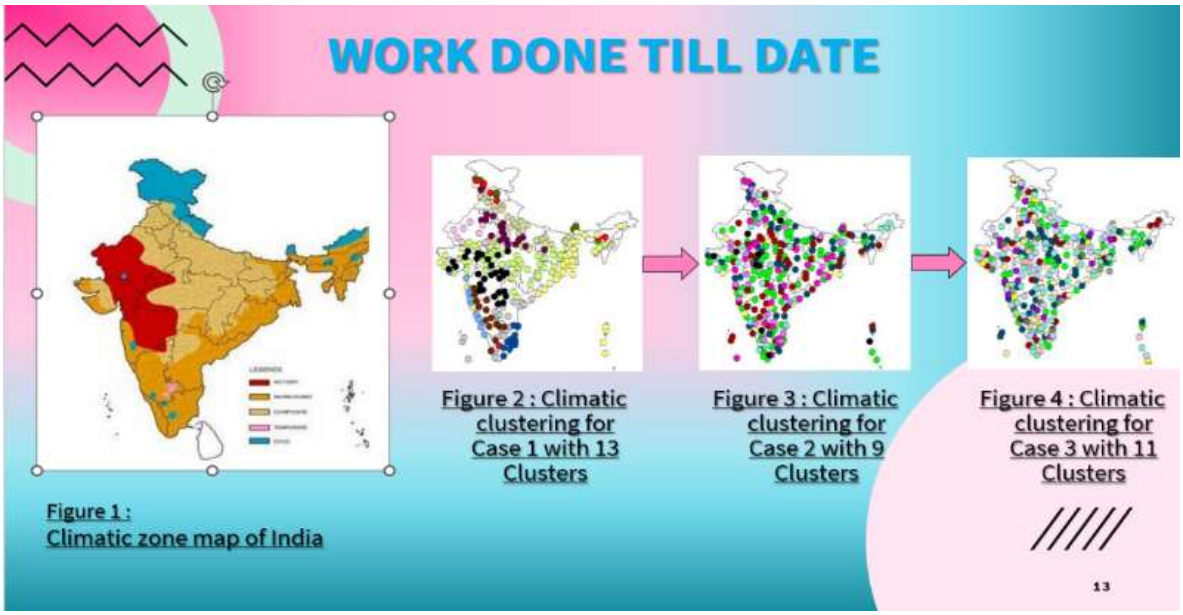
- **Section 1 :-**
- We propose a risk quantification framework for typical food supply chain.
- **Section 2 :-**
- It reports a detailed application of the proposed methodology for the case of Indian food supply chain.

The various phases involved in the methodology are specified in the flowchart.

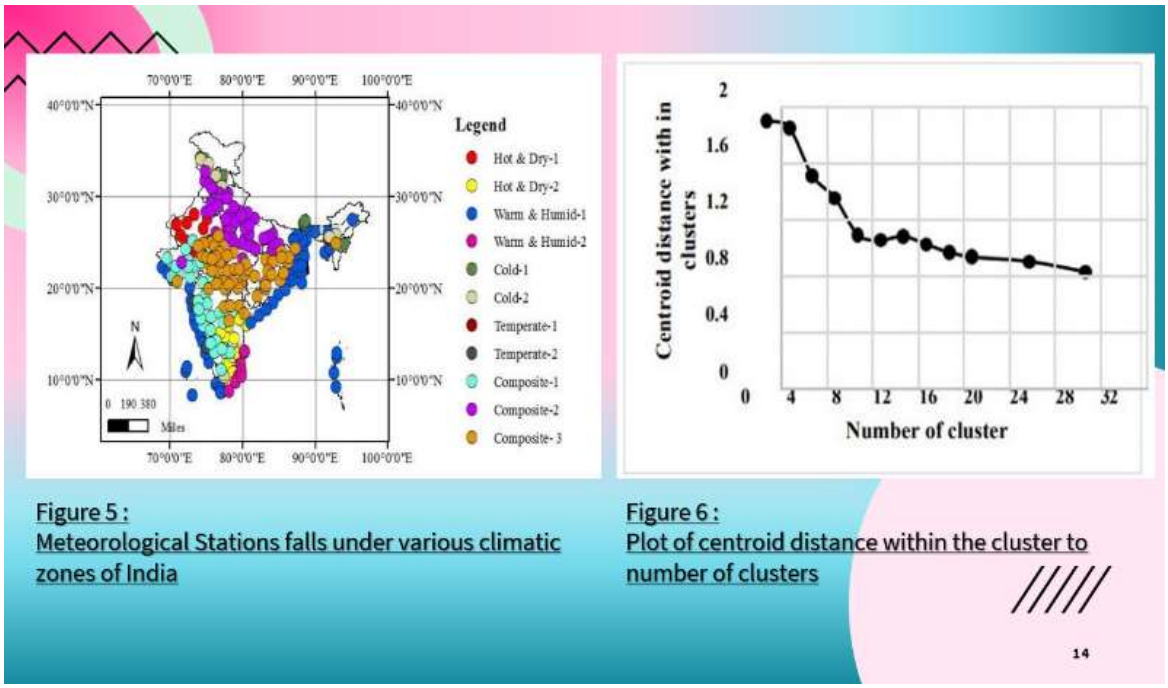
The first phase includes a comprehensive literature survey to identify and classify the relevant risks which may affect the Indian food supply chain.The second phase of the process is to assign weight for the different criteria according to their importance.Grey-AHP is used for assigning the weights based on the inputs from the experts. Calculation of the score for the various risks is done in the third phase, which is analysed using five different measures: categories of risks, the probability of

occurrence, impact on food supply chain performance, an increase in activity duration and growth in activity cost due to the given risk.

Work done till now:



Result:



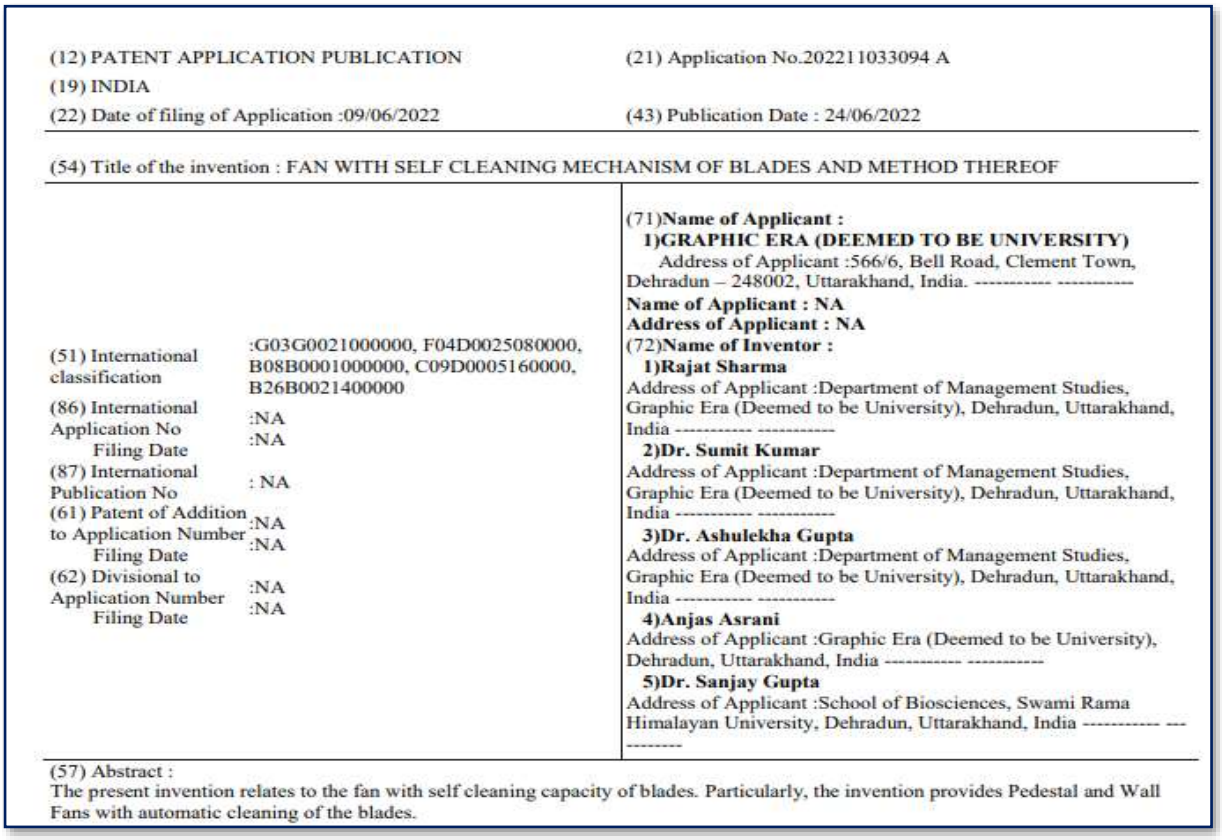
❖ Technlogy – Fan with self cleaning Machanism of blades

By Rajat Sharma, Graphic Era Deemed to be University, Dehradun

Rajat Sharma showcased the patented product titled “auto cleaning fan” designed by Rajat Sharma, Dr. Sumit Kumar, Dr. Ashulekha Gupta. This product will further ease the life of rural Indians where pedestal fans are quite common and hence this affordable cleaning mechanism costing rupees four hundred eighty rupees is idol for rural India upliftment.

The innovation has following advantage

- Rural people are the majority user of Pedestal fans
- This innovation decreases the worn-out issue of element and motor and thus save the funds of rural people.
- Reduces the bacterial and allergic issues caused due to dust laden air coming from the fan
- Reduces the electricity consumption as dust accumulated blades consume more power



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(21) Application No.202211033094 A
(43) Publication Date : 24/06/2022

(54) Title of the invention : FAN WITH SELF CLEANING MECHANISM OF BLADES AND METHOD THEREOF

(51) International classification :G03G0021000000, F04D0025080000, B08B0001000000, C09D0005160000, B26B0021400000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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3)Dr. Ashulekha Gupta
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4)Anjas Asrani
Address of Applicant :Graphic Era (Deemed to be University), Dehradun, Uttarakhand, India ---------- ----------
5)Dr. Sanjay Gupta
Address of Applicant :School of Biosciences, Swami Rama Himalayan University, Dehradun, Uttarakhand, India ---------- ----------

(57) Abstract :
The present invention relates to the fan with self cleaning capacity of blades. Particularly, the invention provides Pedestal and Wall Fans with automatic cleaning of the blades.

Patent copy

❖ **Technlogy -**

- **Water purifier**
- **Waste To Wealth - Vermicompost**
  By Prof. Bhanu P. Vellanki, Coordinator, UBA; Mr. Shubham Pal, UBA TEAM, IIT ROORKEE

Water purifier

First of all a preliminary household survey was conducted in the villages, and contaminated water came out to be one of the major problem faced by the villagers. Handpumps and taps were the source of water which contained bad smell and odour. Villagers were also prone to water on diseases like jaundice typhoid stomach pain etc. Therefore water samples from different locations and sources in the village were collected and brought to IIT Roorkee laboratory for testing. The water quality test reports in the laboratory revealed that the amount of total hardness turbidity iron content, coliform bacteria was more than the desired value.

Under the guidance of our faculty coordinator Dr. Bhanu Prakash Vellanki, the team designed the water filter. The filter was designed on the basis of sand filtration process using sand and gravels. The next difficult task was to find a suitable location for the setup of water purifier. After In puranpur village the water purifier was set-up in the government primary school after approving with the principal sir. The team procured the required raw material and further contacted plumber and labour for the setup. Then the gravels and sand were washed properly after sieving and then they were finally layered inside the tank. 6mm and 10mm gravels were used in the filtration tank. The water filter was also provided with backwashing techniques so that the filter can be cleaned as per the requirements. Complete setup of water purifier caused around 12,500 Rs.

One more water purifier plant was set up in Salempur near the plastic shredding plant for the workers present over there.

Waste To Wealth – Vermicompost

The presentation started with how our project aims to establish sustainable vermicomposting beds to promote the use of vermicompost, nutrient-rich manure in agriculture as an alternative to harmful chemical fertilizers like urea which certainly makes crops harmful for consumption and what are the objectives that we aim to achieve through this project. We also explained the bio reactions involved and future scope of development for making the process efficient and plans to collaborate with biotechnology department of the institute to work on the same. Later, we presented our current and previous work done in the villages and talked about our future of expansion of the beds. We also presented the scope of introducing new methodologies like usage of citrus fruits to prevent the compost from common pests, or usage of fruits like watermelons to maintain the moisture content and provide add-ins to the growing season. We also talked how we will be working on the maintenance and sustainability of the project starting from giving training to the farmers to providing them with raw materials and working on providing market for selling their compost. Also, the long- and short-term impact of this project was discussed, some of them which were the low skills job and employment creation through this, scope of crop productivity and less usage of chemical fertilizers and urea, maintenance of ecological balance and efficient usage of cow dung and other organic waste. At last, we talked about how this helps in soil enhancement by improving the aeration of the substrate, and helps in the grinding of the substrate which further saves the cost required from conventional method, and the improvement in the nitrogen, phosphorous and potassium content of the soil. The presentation ended with discussion of future goals and large impact of this project.

List of Participants

Annexure - I

S.No.	Name	Institute Name
1	Mr. Vijayeshwar Dangwal	Shri kedar Janvikas Samiti, Dunder
2	Mr. Bibhas Kumar	NIT, Uttarakhand
3	Dr. Manuj Kr. Agarwal	MIT, Moradabad
4	Mr. Shivansh Chauhan	MIT, Moradabad
5	Mr. Ashish Rana	MIT, Moradabad
6	Mr. Vasu Agarwal	MIT, Moradabad
7	Mr. Rajat Sharma	GEU, Dehradun
8	Mr. Akshay Jaiswal	Ideaforge
9	Mr. Harshit Gautam	RIT, Roorkee
10	Dr. Rakesh Kumar	HESCO, Dehradun
11	Mr. Navneet Kumar	Strategie DDN
12	Mr. Utkrisht Burman	COER, Roorkee
13	Mr. Nishant Choudhary	AKIT, Roorkee
14	Mr. Deepak Pant	AKIT, Roorkee
15	Mr. Vishwakarma Ashish	AKIT, Tanakpur
16	Mr. Pratap Kumar	R.B.D. Mahila Mahaviodyalay, Bijnor
17	Dr. Amar Nath	COER, Roorkee
18	Er-AD Sharma	COER, Roorkee
19	Mr. Animesh Roy	COER, Roorkee
20	Mr. Manoj Kumar	COER, Roorkee
21	Mr. Saurav Singh	COER, Roorkee
22	Dr. Pashupati Nath	COER, Roorkee
23	Dr. Suyash Bhardwaj	Gurukul Kangri Deemed to be university, Haridwar
24	Dr. Sarita Dhaka	S.D. College, Mujaffarnagar
25	Mr. Tushar goswami	Dr. APJAKIT, Tanakpur
26	Ms. Usha	Dr. APJAKIT, Tanakpur
27	Mr. Shubham Dey	Dr. APJAKIT, Tanakpur
28	Ms. Anushka Singh	Dr. APJAKIT, Tanakpur
29	Ms. Esha Rawat	Dr. APJAKIT, Tanakpur
30	Mr. Rahul Kandpal	Dr. APJAKIT, Tanakpur
31	Mr. Dhananjay Sharma	Dr. APJAKIT, Tanakpur
32	Mr. Vikram Nagarkoti	Dr. APJAKIT, Tanakpur
33	Mr. Nitish Phulera	Dr. APJAKIT, Tanakpur
34	Dr. Rahul Kshetri	Dr. APJAKIT, Tanakpur
35	Dr. Madhu Thapliyal	Gov. PG College Raipur
36	Ms. Tannu	COER, Roorkee
37	Ms. Priya	COER, Roorkee
38	Ms. Shagun Gupta	COER, Roorkee
39	Prof. Ashish Thapliyal	Graphic Era, Dehradun
40	Mr. Sachin Kumar	MIET, Meerut
41	Mr. Gaurav Kashyap	MIET, Meerut
42	Mr. Sagar Saini	MIET, Meerut
43	Mr. Devansh Sharma	MIET, Meerut
44	Mr. Manish Sharma	MIET, Meerut
45	Mr. Imtiyaz Ali	Rutag IIT Roorkee

46	Mr Kshitij Jain	COER, Roorkee
47	Mr. Vijay Saini	Rutag IIT Roorkee
48	Pratap Mishra	SIT
49	Mr. Vishal Kashyap	Ideaforge
50	Mr. P.S. Sharma	DIT, Dehradun
51	Mr. Sudarshan Anand	COER, Roorkee
52	Mr. Roshan Jeena	COER, Roorkee
53	Mr. Abhijeet Pal	COER, Roorkee
54	Mr. Krishna Kumar Singh	COER, Roorkee
55	Mr. Ankesh Shekhar	Ideaforge
56	Mr. Pankaj	SEAD, Dehradun
57	Dr. Dheerendra Singh Gangwar	VMSB-UTU, Dehradun
58	Mr. Vibhu Tyagi	COER, Roorkee
59	Dr. Brijesh Prasad	Graphic Era University
60	Mr. Gagandeep	Graphic Era University
61	Mr. Nitin Verma	UBA-RCI-IITR
62	Mr. Abhishek Panwar	
63	Shubham Pal Srishti Mishra Mohit Umraiya Archi Gupta Rohini Srivastava Karan Maniyar Hemant Bidasaria Vaishali Dubey Sejal Shreya Mittal	UBA-IIT Roorkee

Annexure - II

उन्नत भारत अभियान
UNNAT BHARAT ABHIYAN

TECH4Seva at Regional Level

Organized by

Regional Coordinating Institute (RCI), Unnat Bharat Abhiyan (UBA)
INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

Date & Time: July 30, 2022; 10:00 AM-5:00 PM
Venue: Lecture Theatre, WRD&M Department

PROGRAM SCHEDULE

Registration - (10:00 -10:45)
Inaugural Session -(11:00-11:30)

Technology Demonstration (11:30-13:30)

1. **Prof. R. P. Saini, RUTAG, IIT Roorkee**
- Aloe-Vera Processing Machine for Natural Cosmetic Multi Products
- Mechanized Roller for Namda (Felt) Making
- Efficient Pomegranate Seed Extraction Machine
- Development of Air-Cooled Based Vegetable Vending Cart
- Variable Speed Motorized Bageshwari Wool Charkha (Version-2)

2. **Prof. Vinay Sharma, Dept. of Management Studies, IIT Roorkee**
- Low-cost Energy Through Forest Bio-Residue

3. **Dr. Swapan Suman, MIET, Meerut**
- Hands-free Water Tap Mechanism
- Automatic Plant Irrigation System

4. **Dr. Brijesh Prasad, Graphic Era University, Dehradun**
- Waste Water Treatment Using Biomass Residue

5. **Mr. Alap Mahar, DR. APJ Abdul Kalam Institute of Technology, Tanakpur**
- Automatic Chaff Cuter Machine
- Mechanical Floor Cleaner
- Agricultural Multipurpose Machine

6. **Dr. Manuj Agarwal, MIT Moradabad**
- Krishi Saarthi (Investigating Soil - Arduino Nano, NPK sensor)
- Krishi Saarthi (Fasal Suraksha)

7. **Mr. Navneet Kumar**
- Demonstration of Drone Technology

Lunch (1:30 – 2:30 PM)

Presentation of Ideas/Technology (2:30-5:00 PM)

2:30 - 2:40 PM	Hands-free Water Tap Mechanism	Dr. Swapan Suman, MIET, Meerut
2:40 - 2:50 PM	Krishi Saarthi (Investigating Soil-Arduino Nano, NPK sensor)	Dr. Manuj Agarwal, MIT Moradabad
2:50 - 3:00 PM	Automatic Plant Irrigation System	Dr. Swapan Suman, MIET, Meerut
3:00 - 3:10 PM	Agricultural drone	Mr. Alap Mahar, DR. APJ Abdul Kalam Institute of Technology, Tanakpur
3:10 - 3:20 PM	Krishi Saarthi (Fasal Suraksha)	Dr. Manuj Agarwal, MIT Moradabad
3:20 - 3:30 PM	Automatic Chaff Cuter Machine	Mr. Alap Mahar, DR. APJ Abdul Kalam Institute of Technology, Tanakpur
3:30 - 3:40 PM	Sustainable Agriculture System	Ms. Tannu, CoER, Roorkee
3:40 - 3:50 PM	Mechanical Floor Cleaner	Mr. Alap Mahar, DR. APJ Abdul Kalam Institute of Technology, Tanakpur
3:50 - 4:00 PM	Agricultural Multipurpose Machine	Mr. Alap Mahar, DR. APJ Abdul Kalam Institute of Technology, Tanakpur
4:00 - 4:10 PM	Low Propagator House	Mr. Animesh Raj (& group), CoER, Roorkee
4:10 - 4:20 PM	Waste to Wealth - Vermicompost	Mr. Shubham Pal, PI - UBA Team Member, IIT Roorkee
4:20 - 4:30 PM	Water Purifier	Mr. Shubham Pal, PI - UBA Team Member, IIT Roorkee
4:30 - 4:40 PM	Fan with self-cleaning mechanism of blades and method thereof	Mr. Rajat Sharma, Graphic Era University, Dehradun
4:40 - 5:00 PM	**Group Discussion**	
Tea		

Glimpses of “Tech4seva” Event

Registration of the Participants for the event

Lamp lighting during inaugural program

Mr. Shubham welcoming Prof. Parida, Dy. Director, IIT Roorkee

Mr. Hemant welcoming Prof. Akshay Dvivedi, Dean SRIC IIT Roorkee

Prof. M. Parida delivering the inaugural address

Prof. Akshay Dvivedi addressing the participants

Prof. Ashish Pandey addressing the participants

Prof. Vivay Sharma demonstrating the technology

Panel of Experts Visiting the Technology Demonstration Desk








Participants making a presentation on technology(s) during the event

Group photograph of the dignitaries & participants during the event

News Clipping

उन्नत भारत अभियान रीजनल कोऑर्डिनेटिंग इन्स्टीट्यूट आईआईटी रुड़की द्वारा आयोजित इवेंट के माध्यम से ग्रामीणों व किसानों के लिए उपयोगी सरल तकनीकी उपकरणों का

Regional Coordinating Institute, Unnat Bharat Abhiyan IIT Roorkee Organizes 'Tech4Seva' Event At Regional Level

Bageshwar River, Ma

नई तकनीकी से खेती कर कमाएं अच्छा लाभ

- ऊर्जा उत्पादन तकनीकों पर भी दी जानकारी
- सब्जियों को तरोताजा रखने की विधि भी बताई

टेक फॉर सेवा में तकनीकी का प्रदर्शन

आईआईटी रुड़की की ओर से आयोजित किया गया कार्यक्रम

संवाद न्यूज एजेंसी

रुड़की आईआईटी में उपकरणों का प्रदर्शन करते छात्र। संवाद

सरल तकनीकी उपकरणों को किया विकसित

- आइआइटी में उन्नत भारत अभियान कार्यक्रम के अंतर्गत हुआ आयोजन
- पश्चिमी उत्तर प्रदेश व उत्तराखंड राज्य के संस्थानों किया प्रतिभाग
- अभियान के जरिये छात्रों व किसानों से सीधे जुड़ रहा है संस्थान

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इवेंट में ग्रामीणों के आकर्षण का केंद्र बनी वातानुकूलित सब्जी

डॉ. ए.पी.जे. अब्दुल कलाम इंस्टीट्यूट ऑफ टेक्नोलॉजी टनकपुर के छात्रों ने विकसित की मैकेनिकल फ्लोर क्लीनिंग मशीन

UNNAT BHARAT ABHIYAN
INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

PROGRESS REPORT

July-September 2022

UBA Coordinator's Name: Bhanu Prakash Vellanki

Email: bhanuprakashv@ce.iitr.ac.in

Phone Number: 01332-284832

Sr. No.	ADOPTED VILLAGES	TALUKA	DISTRICT
1	Beladi-Salhapur		Haridwar/Dehradun
2	Chandpur-Horawala		
3	Chharba		
4	Meerpur-Muwazarpur		
5	Puranpur		

List of Activities:

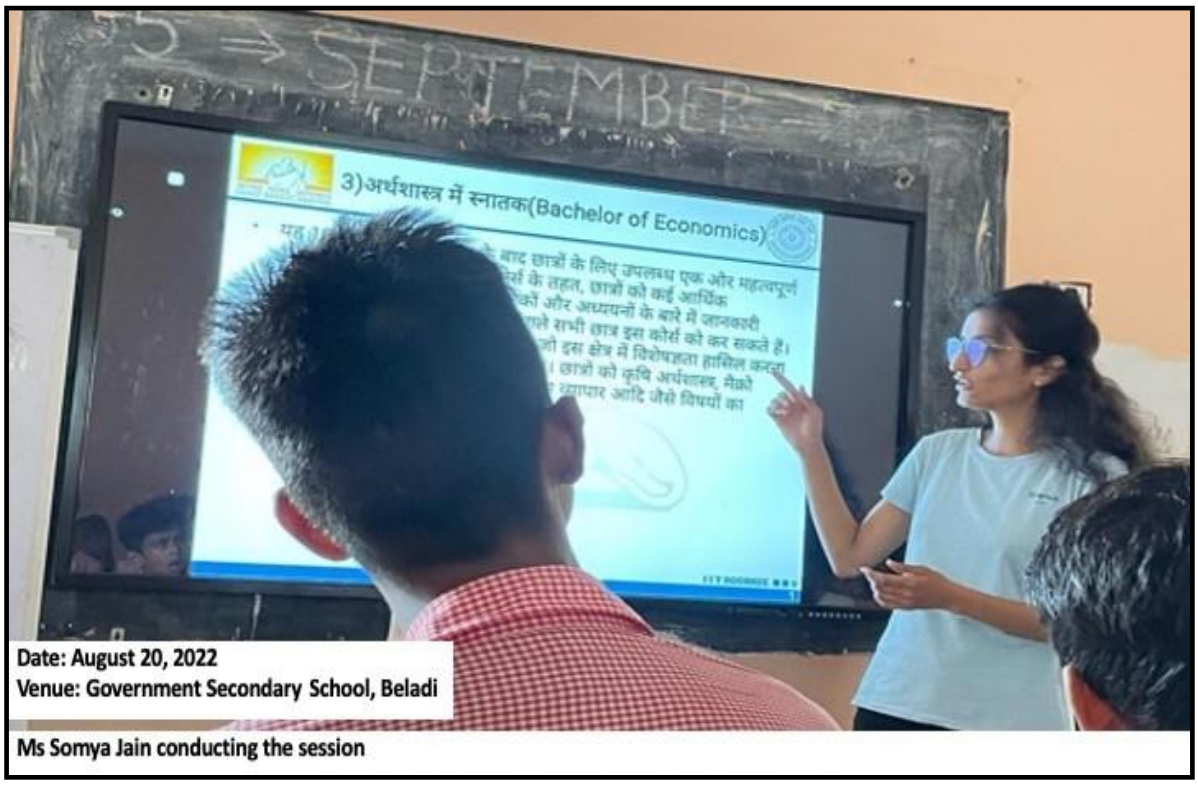
UBA activities at IIT Roorkee are student-driven. Around 180 students are actively involved in carrying out different initiatives in the five adopted villages. The following report contains the data of activities conducted in the adopted villages in August 2022.

ACTIVITY 1:

Name of Activity: Career Counselling Session (in village **Beladi**)

Need for the Activity: To help student discover more about the career options by organising career counselling sessions.

Description: Unnat Bharat Abhiyan conducted career counselling session at Beladi Government Secondary School on August 20, 2022 for classes 8th, 9th and 10th. The Career Counselling Initiative aims at making the students aware about the various options they have after pursuing their senior secondary education. The team made the class 10th students aware about different streams that can be taken by a student in class 11th as well as different career options related with each stream for further studies and jobs. They also told them about National level examinations like NTSE- its pattern, syllabus and benefits. For class 8th and 9th, we focused on different scholarship and entrance examinations like NTSE, NMMSS and JNVST. They also held a question and answer session for answering all queries. For further doubts or queries contact details of some members were shared. The class teacher and the principal further shared the presentations with students.



Date: August 20, 2022
Venue: Government Secondary School, Beladi

Ms Somya Jain conducting the session

ACTIVITY 2:

Name of Activity: *Gram Sabha* (in village **Beladi**)

Need for the Activity: To spread awareness amongst villagers about the ongoing initiatives of UBA and to get their view-point for the same.

Description: A session was conducted with Ms Neeraj Saini for smooth running of Self Help Groups (SHGs). The session was conducted to motivate the SHG members and to tell them about the Incense Stick Initiative. In the session, Ms Neeraj told the SHG women about the benefits and importance of being a part of SHG. She also made them realize their responsibility towards it. She even helped the women to complete their documentation work and motivated the SHG members to work more progressively and hold regular monthly meetings among themselves. At the end the SHG members were happy from this session and asked the team members to conduct sessions like these more often.

ACTIVITY 3:

Name of Activity: *Gram Sabha* (in village **Beladi**)

Need for the Activity: To aware villagers about the ongoing initiatives of UBA and to get viewpoint of them for the same.

Description: A proposal from NCI Delhi had come for conducting a *Gram Sabha*. It was decided to be conducted in Beladi Village. A visit was made a day before that is 14th August to tell the villagers about organizing a *Gram Sabha.* The team held a *Gram Sabha* in the village Beladi. The members went from house to house and gathered people for the *Sabha*. The Sabha was started by the members explaining the villagers about Unnat Bharat Abhiyan and its initiative. The *Sabha* further proceeded with the villagers discussing their issues. The team members motivated the villagers and urged them to actively participate in the initiatives conducted by them and also encouraged them towards conducting more such *Sabha's* by themselves.

The team addressing the Gram Sabha

ACTIVITY 4:

Name of Activity: Book Distribution (in village **Meerpur**)

Need for the Activity: To promote knowledge and education and to inculcate curiosity among students.

Description: Unnat Bharat Abhiyan approached an Non-governmental organization (NGO) named International Institute Of SDGS And Public Policy Research (IISPPR), which works in Education Sector. The NGO is based in Saharanpur. The NGO had a Corporate Social Responsibility (CSR) of Byju's through which they decided to donate books to students of the village adopted by UBA, IIT Roorkee. A total of 45 books were distributed in the Lucky Junior High School of Meerpur to the students of classes 2nd. The books were on English and Mathematics subjects.

Distribution of books among 2nd grade students.

ACTIVITY 5:

Name of Activity: RSETI Training Seminar (in village **Puranpur**)

Need for the Activity: To get an extensive idea about the problems faced by the villagers in order to find respective solutions.

Description: Unnat Bharat Abhiyan, Indian Institute of Technology, Roorkee had organized a training seminar for SHGs (Self Help Groups) on August 20, 2022 to provide them vocational training. It was an informative session for SHGs of Puranpur. It was done with the help of RSETI (Rural Self Employment Training Institute) officials who gave the information about different kinds of trainings to SHGs. The session saw participation of 60 active women with ample enthusiasm and commenced a seminar with inspiring comments. The session explained the training process for various skills, ranging from jute bag training to incense stick machine training. The session was concluded by giving vote of thanks to RSETI officials and motivation to participants to take trainings as much as they can to improve their livelihood and efficiency.

UBA team members with RSETI officials in Jaswant Singh Farmhouse, Puranpur

ACTIVITY 6:

Name of Activity: Survey regarding growing of aromatic plants for Center for Aromatic Plant Initiative (CAP) and Vermicompost bed (in village **Beladi**)

Need for the Activity: To get the names and details of farmers willing to setup a vermicompost bed or plant aromatic plants in their land.

Description: Center for Aromatic Plantation is an initiative by government in which farmers are promoted to plant aromatic plants in their lands for which seeds would be supplied by government and they also have a buy back policy. This helps the farmers not to worry about the sale of their crop and hence are beneficial for them too. Under vermicompost initiative, farmers are encouraged to setup a vermicompost bed in their land which can be easily set up using the cow dung and worms that Unnat Bharat Abhiyan helps them to purchase. The bed would then periodically give them compost which could be then used in farms and hence is very useful for farmers. Unnat Bharat Abhiyan, IIT Roorkee did a survey in the village to find out farmers for the same two initiatives. Farmers showed interest and were willing to do so. Some of them had some doubts which were cleared by UBA Team. The survey helped the team identify farmers for the two initiatives which could be later very beneficial to connect to them.

Mr Ashish, Mr Himanshu and Mr Karan explaining about the future of vermicompost manure.

ACTIVITY 7:

Name of Activity: Sanitary Pad Distribution Drive (in village **Chandpur**)

Need for the Activity: Get feedback over the Pad samples brought from RAG Innovations so that the appropriate dial is set for the Sanitary Pad Machine.

Description: Unnat Bharat Abhiyan, IIT Roorkee, during the visit to RAG Innovations for Sanitary Pad Machine Installation initiative, collected around 300 samples of pads of various kinds. This was done to conduct a sample survey and based on the results, the most appropriate pad would be chosen. This was necessary as the dial for the machine is set only once. There were 05 different types of samples. The samples were named- A, B, C, D, E and a set consisting sample of each type was made and distributed to volunteers. They were asked to use the samples and submit their response regarding the length, absorption capacity and overall quality of the pad samples. the volunteers were given about a month's time. Based on the feedback collected, the team came upon the conclusion that pad C was the best among the five of them. The team also received additional feedback regarding the sticker of each of them, which will be worked on during setting the dial in machine.

A set of pad samples consisting of 05 different types of pads named A, B, C, D, and E.

Pad Samples to be distributed to volunteers (students) in Kasturba Bhawan.

ACTIVITY 8:

Name of Activity: Cattle Vaccination (in village **Meerpur** and **Rithaura Grunt**)

Need for the Activity: To explain villagers the different diseases that cattle can get affected by and vaccinate against them.

Description: According to the United Nations Food and Agriculture Organization (FAO), lumpy skin disease is highly lethal and contagious for cattle, hence appropriate vaccination is essential. Considering the concern of contagious 'Lumpy Skin Disease' among cattle over North India, Unnat Bharat Abhiyan IIT Roorkee successfully conducted a 'Cattle Vaccination' in the village of Meerpur and Rithaura Grunt. Cattles of the village had symptoms of the 'Lumpy Virus' disease, and some also showed signs of other conditions. The team and veterinary doctors went door to door for the vaccination and vaccinated 170 cattle in Meerpur. Dr Suman Saini, Government Veterinary Officer of Teliwala, in Meerpur and Retired Chief Veterinary Officer Dr Ram Kumar Khare in Rithaura Grunt explained different diseases to the villagers and suggested some medicines to combat them, which were made available by the team at Pradhan's house.

Cattle Vaccination being done by the doctor.

Dr Ram Kumar Khare monitoring the condition of cattle.

ACTIVITY 9:

Name of Activity: Science Experiment Workshop (in village **Puranpur**)

Need for the Activity: To introduce students to the actual Science, that includes practical demonstration to get them a feeling of importance of studying the subject.

Description: Unnat Bharat Abhiyan, Indian Institute of Technology, Roorkee had organized a Science Workshop on 04 September 2022 in Puranpur village among the students of class 8th to 10th. The interactive workshop included several small but interesting experiments being performed to get students indulge in the practical significance of science. The experiments included the operation of an electric circuit and a volcanic eruption with elephant toothpaste. Students volunteered to perform the experiments on their own after the team discussed the idea and carried out the experiments in front of them.

Mr Anuj and Mr Yash demonstrating experiments to the students.

UNNAT BHARAT ABHIYAN

INSTITUTE / ORGANIZATION NAME

PROGRESS REPORT

July-October,2022

UBA Coordinator's Name: Mr. Abhinav Bhatnagar

Email: rceroorkee@gmail.com

Phone Number: +91 9927099228

Sr. No.	ADOPTED VILLAGES	TALUKA(Block)	DISTRICT
1	Mehwar Kalan	Roorkee	Haridwar
2	Mehwar Khurd		
3	Piran Kaliyar		
4	Rehmatpur		
5	Belda		

List of Activities:

ACTIVITY 1:

Title of the Activity: Students of Roorkee College of Engineering are teaching poor students in rural areas and in primary schools.

Need of the Activity: Some parents not having so much knowledge to guide their childrens and money to send their children in good private schools.

Brief Description (Need/Impact/Action/Picture (if any)): Picture

Next action plan:

Sr. No.	Activity to be conducted (along with reason)
1	Organic farming activity will be start in some villages

UNNAT BHARAT ABHIYAN

COLLEGE OF ENGINEERING ROORKEE, ROORKEE

PROGRESS REPORT

Month- August, 2022

UBA Coordinator's Name: Dr. Amar Nath

Email: amaranth@coer.ac.in , nathamar016@gmail.com

Phone Number: 9411926159,6395645260

Sr. No.	ADOPTED VILLAGES	TALUKA	DISTRICT
1	BADHERI RAJPUTANA	Roorkee	Haridwar
2	BAJUHERI		
3	BARAHMPUR		
4			
5			

List of Activities:

ACTIVITY 1:

Name of Activity: HAR GHAR TIRANGA

Need of the Activity: To encourage the villagers to hoist the national flag of india at their homes with pride and to instill patriotism in the hearts of villagers.

Description in 200 words(along with the Pictures): Har Ghar Tiranga is a campaign under the aegis of Azadi Ka Amrit Mahotsav to encourage people to bring the Tiranga at home and to hoist it to mark the 75th year of India's independence. Our relationship with the flag has always been more formal and institutional than personal. Bringing the flag home collectively as a nation in the 75th year of independence thus becomes symbolic of not only an act of personal connection to the Tiranga but also an embodiment of our commitment to nation-building. The idea behind the initiative is to invoke the feeling of patriotism in the hearts of the people and to promote awareness about the Indian National Flag. In view of this, College of Engineering Roorkee had organized an event 'Har Ghar Tiranga Abhiyan' in adopted villages under unnat bharat abhiyaan for the celebration of azaadi ka amrit Mahotsav on August 13, 2022 Saturday. The main objective of this event is to encourage the villagers to

hoist the national flag of india at their homes with pride and to instill patriotism in the hearts of villagers.

Action plan for next month:

Sr. No.	Activity to be conducted(along with reason)
1	Awareness sessions on Women Health &Hygiene.

UNNAT BHARAT ABHIYAN

RANI BHAGYAVATI DEVI MAHILA MAHAVIDHYALYA, BIJNOR UTTAR PRADESH

PROGRESS REPORT

July, Aug & Sept. 2022

UBA Coordinator's Name: Dr. Parul Tyagi

Email: parultyagi100@gmail.com

Phone Number: 9837787953

Sr. No.	ADOPTED VILLAGES	TALUKA	DISTRICT
1	RASEEDPUR GARHI		
2	RAMPUR BAKLI		
3	CHANDPUR FERU		BIJNOR
4	ETAVA		
5	BADSHAH PUR		

List of Activities:

ACTIVITY : Plantation Week

Name of Activity: Plantation week

Need of the Activity: Contributing in govt. plan to establish green and clean environment.

Description 200 words (along with the Pictures): under govt's. instruction a plantation week was celebrated in villages adopted by UBA cell Rani Bhagyawati Devi Mahila Mahavidyalaya Mrs. Deepa Convenor of UBA Dr. Neeru, Dr. Sharda Convenor of NSS with their team spread awareness about greenery. They planted eco-friendly plants in the campus along with the villages adopted by UBA RBD Mahila Mahavidyalaya.

On this occasion Dr. Parul Tyagi (Principal RBD) Appreciated Govt's. initiative and requested all the faulty members along with the students to contribute in making this earth pollution free and a place to live on. Dr Suresh and Dr. S Yadav From Vardhama Degree college also Presented on this occasion of plantation and they had high word for this generous activity.

Action plan for next month:

Sr. No.	Activity to be conducted(along with reason)
1	One day workshop on Menstruation hygiene
2	
3	

UNNAT BHARAT ABHIYAN

INSTITUTE OF TECHNOLOGY GOPESHWAR (C-50743)

PROGRESS REPORT

July to September, 2022

UBA Coordinator's Name: DINESH KUMAR

Email: dinesh.kumar@itgopeshwar.ac.in

Phone Number: 7417876421

Sr. No.	ADOPTED VILLAGES	TALUKA	DISTRICT
1	BANDWARA	DASHOLI	CHAMOLI
2	SIRON		
3	KATHOOD		
4	DEVALDHAR		
5			

List of Activities:

ACTIVITY 1:

Although it is challenging to get to the adopted villages, students, faculty, and staff still went there to teach the local pupils the fundamentals of computer use and to notify the locals about government programmes that will help them

ACTIVITY 2:

Our institute is situated in the hilly area of Uttarakhand. The majority of the villages we adopt are between one and three kilometres away from the nearest road and are only accessible on foot. Students visited adopted villages to raise awareness of the various Government Scheme and provide digital education with the assistance of staff and faculty so that the villagers may get benefits directly from the government.

Action plan for next month:

Sr. No.	Activity to be conducted (along with reason)
1	In order for the villagers to receive direct government benefits, faculty, staff, and volunteer students are planned to raise knowledge about computers and their fundamental uses in the coming months.
2	

UNNAT BHARAT ABHIYAN (2.0)

THDC Institute of Hydropower Engineering and Technology, Tehri, Uttarakhand-249124

PROGRESS REPORT

July-Sept 2022

UBA Coordinator's Name: Mandeep Guleria

Email: mandeep@thdcihet.ac.in

Phone Number: 8171644880

Sr. No.	ADOPTED VILLAGES	TALUKA	DISTRICT
1	Khemra	Chamba	Tehri Garhwal Uttarakhand-249124
2	Jakh		
3	Godmu-Jaspur		
4	Kutha		
5	Painula		

List of Activities:

ACTIVITY 1: Azadi Ka Amrit Mahotsav

Name of Activity: Celebrations of 75 years of our independence.

Need of the Activity: To Commemorate the 75 years of Indian independence, Azadi ka Amrit Mahotsav event was celebrated on 15th August 2022 in institute campus and nearby adopted villages (under UBA 2.0)

To celebrate the Indian independence 75th anniversary, Gram Pradhan's of the nearby adopted villages was contacted and Independence Day celebrations was done on 15th august 2022. Also Villagers in their households hoisted national flag and captured selfie with the Tiranga. Apart from this, faculty members/staffs in the institute also celebrated the occasion with great zeal.

Prepared By:

Mandeep Guleria

UBA Coordinator
(THDC-IHET, Uttrakhand-249124)

Unnat Bharat Abhiyan

Plan of Action at Gram Sabha Level for Participating Institutions (PIs)

Reporting Period(Month & Year)	July August & September 2022

1. Name of the Participating Institution (PI) and AISHE Code:

Name Dr Manuj Kumar Agarwal	AISHE Code:

2. Contact details- UBA Office

Mobile number	8909288878
E-mail ID	manuj6july@gmail.com

3. Details of cluster/villages where UBA activity is being carried out

SN.	Villages	Block	District
1	Kuchawli	Kanth	Moradabad
2	Sadarpur	Kanth	Moradabad
3	Sonakpur	Kanth	Moradabad
4			
5			

4. Gram Sabha level activity and information

A: Program organised in Gram Sabha

SN.	Name of Activity	Date	Remark
1	Plantation on the occasion of "Van Mahotsav"	10 July 2022	

2	**Entrepreneurship Development**	**18th August 200**	**Villagers were guided how they can utilize their free time to make more earning**
3	**Flag Distribution & Discussion about how they can improve their livelihood**	**15 August 2022**	**On the occasion of Independence day flags were distributed in the villages**
4	**Dental Check-up Camp**	**23th September 2022**	**Camp Was held in MIT campus and villagers were special invitees for the camp.**

B: Plan of action for village development (Gram Sabha)

SN.	Name of village	Major issues identified in village	Action plan
1	Kuchawli, Sadarpur, Sonakpur, Mohammadpur, Karanpur	Villagers are having enough time after crops cutting but not have enough means of earning so that they can improve their lifestyle	Suggested a business of Dona making and Candle Making. It is our plan that we will guide the villagers for making candles and will try to sell on the occasion of Deepawali .

Photographs


MIT Group of Institutions, Moradabad
celebrating
आजादी का
अमृत महोत्सव

UNNAT BHARAT ABHIYAN

MIET Kumaon, Haldwani [C-21279]

PROGRESS REPORT

July August September 2022

UBA Coordinator's Name: Dr. Kamal Singh Rawat

Email: kamal.rawat@mietkumaon.ac.in

Phone Number: 9639858711

Sr. No.	ADOPTED VILLAGES	Block	DISTRICT
1	Aan Singh Nawar	Haldwani	Nainital
2	Padampur Padaliya	Haldwani	
3	Jaipur Padaliya	Haldwani	
4	Jeetpur	Haldwani	
5	Kuriya Gaun	Haldwani	

ACTIVITY 1:

Name of Activity	:	**Plantation on Harela**
Need of the Activity	:	**awareness about environment**
Date	:	**16 July 2022**

Activity Details:

Harela is celebrated in Uttarakhand region, it means 'day of green' and is celebrated in the month of Shravan. It is a festival of greenery, peace, prosperity and environmental conservation to worship Lord Shiva and Goddess Parvati. The seeds of five to seven types of crops maize, til (sesame), urad (black gram), mustard, oats— are sown in donas (bowl made of leaves) or ringalare (hill bamboo baskets) nine days before the festival. They are harvested on the ninth day and distributed to neighbors, friends and relatives. The flourish of the crops symbolizes prosperity

in the year ahead. This year Harela was celebrated on **16th July, Saturday** on this occasion MIET Kumaon Institute with ABVP and panchayat representatives celebrated & planted trees in as well as in nearby areas of Aan Singh Nawar. Saplings were planted under the Vriksha Mitra campaign run through the organization's SFD.

The overall motive of this program was to create awareness about environment wherein the advantages of planting trees and disadvantages of cutting down trees was discussed. Dr. B S Bisht (Director MIET Kumaon), Dr. Kamal Singh Rawat (UBA, Coordinator), Mr. Sooraj Ramola, Mr. Kamlesh Bhatt, Mrs. Rashmi Lamgariya, Mrs Isha Badalwal, Mr. Alok Tripathi, Mrs. Poonam, Mr. Shubham, staff, students and others were present during the plantation.

एबीवीपी कार्यकर्ताओं ने किया पौधरोपण

हल्द्वानी। एमआईईटी कुमाऊं संस्थान में शुक्रवार को एबीवीपी कार्यकर्ताओं ने हरेला पर्व पर पौधरोपण किया। संगठन के आयाम एसएफडी के माध्यम से संचालित वृक्ष मित्र अभियान के तहत संस्थान परिसर में पौधे लगाए गए। इस मौके पर डॉ. बीएस बिष्ट, सूरज रमोला, कमलेश भट्ट, रश्मि लमगड़िया, ईशा बदलवाल, आलोक त्रिपाठी, पूनम, शुभम सहित अन्य मौजूद रहे।

ACTIVITY 2:

Name of Activity	:	**Stress Management**
Need of the Activity	:	**Long-term stress can damage your health, personal life and contribute to farm accidents. Stress needs to be recognised, understood and managed.**
Date	:	**26th July 2022,**

Activity Details:

The session on stress management was organized in the campus of MIET kumaon. The session was taken by Dr. A K Pratihar (Professor- Mechanical Engineer, GBPUAT, Pantnagar). Effect of stress on physical, mental and emotional life was discussed in the session. The session was followed by meditation and self-realization exercise.

In the session Dr. B.S. Bisht, MD MIET Kumaon, Dr. Kamal Rawat, UBA Coordinator, Mr. Kamal paldaiya (Gram Pradhan Jaipur Padaliya), Pramjeet Kaur (Gram Pradhan) Mr. B.D. Joshi (Villager) , Mr. B.C. Joshi (Villager), students, staff and other were presented.

ACTIVITY 3:

Name of Activity	**:**	**Health awareness program and fruits distributed to the cancer patient at Susheela Tiwari Government Hospital**
Need of the Activity	**:**	**As part of Azadi Ka Amrit Mahotsav towards the celebration of 75 years of independence**
Date	**:**	**11 and 12 August 2022**

Activity Details:

As part of Azadi Ka Amrit Mahotsav towards the celebration of 75 years of independence, MIET kumaon College of Nursing Haldwani, organized a patriotic poster and Rangoli competition, Health awareness program and fruits distributed to the cancer patient at Susheela Tiwari Government Hospital, Haldwani. A patriotic poster competition was organized on august 11, 2022, from 2.00 PM to 3.00 PM. A patriotic Rangoli competition was conducted on August 12, 2022, from 2.00 PM to 3.00PM. Under Unnat bharat abhiyan health awareness program and fruits distributed to the cancer patient at Susheela Tiwari Government Hospital, Haldwani. The overall program was coordinated by Assistant Professor Mrs. Priyanka Joshi, Nursing Tutor Ms. Lalita Takuli, Ms. Sonal, Ms Neelam dev and Mrs. Rekha.

ACTIVITY 4:

Name of Activity	**:**	**Independent Day**
Need of the Activity	**:**	**As part of Azadi Ka Amrit Mahotsav Independent Day**
Date	**:**	**15th August 2022,**

Activity Details:

- MIET Kumaon celebrated the 75th Independence Day on **Monday 15th August 2022** with great patriotic spirit and zeal. With the motive and intention to inculcate patriotism among the students.
- National flag distribution under Har Ghar Tiranga Abhiyan
- Participated in rally organized by Amar Ujala

ACTIVITY 5:

Name of Activity	**:**	**Meeting with SHGs for discussion on possible livelihood opportunities**
Need of the Activity	**:**	**Promoting rural entrepreneurship using local resources, local skills and local knowledge involving women workforce**
Date	**:**	**3rd September 2022,**

Activity Details:

- The meeting was held in Padampur Padaliya village on the 26th august 2022. In the meeting Dr. Kamal Rawat, UBA Coordinator MIET Kumaon, women from various SHGs, VLF and Block office representatives were presented.
- Discussion on the problem facing in marketing, packaging and training on possible livelihood opportunities
- A training / workshop on mushroom farming required




Action plan for next month:

1. Workshop on mushroom farming
2. Skill workshop for SHG
3. Awareness program on malnutrition in children

UNNAT BHARAT ABHIYAN

PROGRESS REPORT

(AUGUST-OCTOBER,2022)

SUBMITTED

by

UBA TEAM
KUMAUN UNIVERSITY
NAINITAL

UBA Coordinators Name: Dr. Neelu Lodhiyal

Email:neelulodhiyal@gmail.com

Phone.No. 6395172331 / 9411538146

S.No.	Adopted Village	Block	District
1.	Basani	Haldwani	Nainital
2.	Matiyal	Dhari	
3.	Saur	Kotabagh	
4.	Sawalde	Ramnagar	
5.	Vijaypur	Haldwani	

List of Activities:

Activity-1

Title of Activity: Gram Sabha Meeting at village Basani.

Brief Description: Team of UBA KU, Nainital has celebrated the Independence day in Primary and Junior High School of village Basani with the theme 'Sikshit Bharat Unnat Bharat'. UBA team has distributed stationary and books to school children to inculcate the reading and writing habit in them.

UBA team has also organised a Gram Sabha at village. Gram Pradhan Mrs. Vimla Taragi and villagers has actively participated in Sabha. Team has discussed the various issues of village and initiatives which can be taken in near future to improve the condition of village.

Major issues identified in village:

- There is no proper road connectivity outside as well as inside the village which is one of the predominant struggle of villagers on a daily basis.
- Due to poor cellular or mobile network infrastructure, the villagers also face problems pertaining to no usage of internet.
- The villagers also face poor medical facilities in the village.

- There is presence of only primary school in the village. In order to pursue higher education, villagers have no alternative but to send their children in schools and colleges located far away from the village.

GLIMPSES OF ACTIVITIES AT VILLAGE BASANI

Activity-2

Title of Activity: Books and plants distribution at village Matiyal.

Brief Description: Unnat Bharat Abhiyan (UBA) team has visited village Matiyal. Team has interacted with the children of primary school and attended the cultural programs organized by them. All children actively participated in the program.

In the presence of Gram Pradhan Mrs. Saroj Arya, teachers and staff , UBA team has distributed books and stationary to inculcate reading and writing habits in children. Team has also distributed some medicinal and fruit plants to children and villagers.

GLIMPSES OF ACTIVITIES AT VILLAGE MATIYAL

UNNAT BHARAT ABHIYAN

SEOHARA DEGREE COLLEGE, SEOHARA (BIJNOR) 24676

PROGRESS REPORT

Month- July to September

UBA Coordinator's Name: Dr. Akhlesh Kumar Agrawal

Email: sscins786@gmail.com

Phone Number: 9219834047, 8755877739

Sr. No.	ADOPTED VILLAGES	TALUKA	DISTRICT
1	GARHI	DHAMPUR	BIJNOR
2	SADAFAL		
3	SARKARI		
4	KURI		
5	KRISHNA RAMPUR		

List of Activities:

ACTIVITY 1:

Name of Activity: WATER RESOURSE

Need of the Activity: To make the public aware about the resources of water.

Description in 200 words (along with the Pictures):

Today, most countries are placing unprecedented pressure on water resources. The global population is growing fast, and estimates show that with current practices, the world will face a 40% shortfall between forecast demand and available supply of water by 2030. Furthermore, chronic water scarcity, hydrological uncertainty, and extreme weather events (floods and droughts) are perceived as some of the biggest threats to global prosperity and stability. Acknowledgment of the role that water scarcity and drought are playing in aggravating fragility and conflict is increasing.

Feeding 10 billion people by 2050 will require a 50% increase in agricultural production, (which consumes 70% of the resource today), and a

15% increase in water withdrawals. Besides this increasing demand, the resource is already scarce in many parts of the world. Estimates indicate that over 40% of the world population live in water scarce areas, and approximately ¼ of world's GDP is exposed to this challenge. By 2040, an estimated one in four children will live in areas with extreme water shortages. Water security is a major – and often growing –challenge for many countries today.

Climate change will worsen the situation by altering hydrological cycles, making water more unpredictable and increasing the frequency and intensity of floods and droughts. The roughly 1 billion people living in monsoonal basins and the 500 million people living in deltas are especially vulnerable. Flood damages are estimated around $120 billion per year (only from property damage), and droughts pose, among others, constraints to the rural poor, highly dependent on rainfall variability for subsistence.

The fragmentation of this resource also constrains water security. There are 276 transboundary basins, shared by 148 countries, which account for 60% of the global freshwater flow. Similarly, 300 aquifers systems are transboundary in nature, with 2.5 billion people worldwide are dependent on groundwater. The challenges of fragmentation are often replicated at the national scale, meaning cooperation is needed to achieve optimal water resources management and development solutions for all riparians. To deal with these complex and interlinked water challenges, countries will need to improve the way they manage their water resources and associated services.

To strengthen water security against this backdrop of increasing demand, water scarcity, growing uncertainty, greater extremes, and fragmentation challenges, clients will need to invest in institutional strengthening, information management, and (natural and man-made) infrastructure development. Institutional tools such as legal and regulatory frameworks, water pricing, and incentives are needed to better allocate, regulate, and conserve water resources. Information systems are needed for resource monitoring, decision making under uncertainty, systems analyses, and hydro-meteorological forecast and warning. Investments in innovative technologies for enhancing productivity, conserving and protecting resources, recycling storm water and wastewater, and developing non-conventional water sources should be explored in addition to seeking opportunities for enhanced water storage, including aquifer recharge and recovery. Ensuring the rapid dissemination and appropriate adaptation or application of these advances will be a key to strengthening global water security.

Action plan for next month:

Sr. No.	Activity to be conducted(along with reason)
1	Tree planting (Special contribution in balancing the environment)
2	Homegrown Manure (Essential for healthy foods for Human and Animals)

UNNAT BHARAT ABHIYAN

Graphic Era Deemed to be University, Dehradun

PROGRESS REPORT

July to September 2022

UBA Coordinator's Name: Dr. Sanjeev Kumar

Email: hod.civil@geu.ac.in

Phone Number:7906256094

Sr. No.	ADOPTED VILLAGES	TALUKA	DISTRICT
1	Khata	Doiwala	Dehradun
2	Khari		
3	Bullawala		
4	Jhabrawala		
5	Dharmuchak		

List of Activities:

ACTIVITY 1:

Name of Activity: Meeting with Gram Pradhan and Members

Need of the Activity: Miscellaneous

Description in 200 words (along with the Pictures): Two meetings with Gram Pradhan and ward members of Adopted villages have been done. The main objective of the meeting was to finalize various activities to be plan in coming months. In addition to that some psychological counselling of youths has been done towards their future plan and awareness about ill effects of drugs.

Sr. No.	Activity to be conducted (along with reason)
1	Soil testing and crop recommendation along with awareness program for villagers about benefit of organic farming has been planned.
2	Carrier guidance for school students in adopted village.
3	Cleanliness drive in adopted village

UNNAT BHARAT ABHIYAN

INSTITUTE / ORGANIZATION NAME

PROGRESS REPORT

August, 2022

UBA Coordinator's Name: Dr. Bibhash Kumar

Email: bibhash.92@nituk.ac.in

Phone Number: 7500149697

Sr. No.	ADOPTED VILLAGES	TALUKA	DISTRICT
1	Janasu	Kot	Pauri Garhwal
2	Pharasu	Khirsu	Pauri Garhwal
3	Dungripanth	Khirsu	Pauri Garhwal
4	Kaliyasaud	Khirsu	Pauri Garhwal
5	Bagi	Devprayag	Tehri Garhwal

List of Activities:

ACTIVITY 1:

Name of Activity: *Visit to adopted village under Unnat Bharat Abhiyan to Celebrate "Har Ghar Tiranga" under Azadi Ka Amrit Mahotsav*

Need of the Activity: *To motivate the rural population to celebrate the event Har Ghar Tiranga under Azadi Ka Amrit Mahotsav and also to distribute the national flag to the individual household.*

Description in 200 words (along with the Pictures): *Attached in Annexure 1*

ACTIVITY 2:

Name of Activity: Visit to government school of the adopted village Farashu, where a presentation regarding "Water Harvesting Methods and its Importance " has been delivered followed by some quiz completions and prize distribution.

Need of the Activity: *To present the importance of water conservation and the different methods used for water harvesting amongst the school students.*

Description in 200 words (along with the Pictures): *Attached in Annexure 1*

Action plan for next month:

Sr. No.	Activity to be conducted(along with reason)
1	Visited to the school, where information regarding some of the basic science experiments, hygiene and importance of library along with books will be presented amongst the students.

2	Visited to the school information about basic computer applications and use of computer and technology in day to day activities
3	Ideas about rain water harvesting in water conservation will be presented amongst the villagers

Annexure 1

Activity 1: *Visit to adopted village under Unnat Bharat Abhiyan to Celebrate "Har Ghar Tiranga" under Azadi Ka Amrit Mahotsav*

UBA Cell of NIT Uttarakhand had visited the adopted village Kaliyasaud and Dungari Panth to Celebrate "Har Ghar Tirang campaign under Azadi Ka Amrit Mahotsav. In these villages national flag Tiranga were distributed at all the possible households. They were motivated to celebrate Har Ghar Tirang campaign. It is worth mentioning that after distributing the National flag, each citizen was made aware to dispose the damaged flag according to the National flag code maintaining due regard to its dignity after celebration of Independence Day on 15th August 2022.

Some of the photos taken during our recent visits

Activity 2: *Visit to government school of the adopted village Farashu, where a presentation regarding "Water Harvesting Methods and its Importance " has been delivered followed by some quiz completions and prize distribution.*

A One-day Interaction session on Water harvesting methods and its importance in the life of residents of the village followed by quiz competition and prize distribution was organised by through offline mode. The aim of this Interaction program is to enhance the knowledge of the students about the current trends on which we can improve the village life of the residents in daily working style. In this regard Power Point Presentation was made available amongst the students for better understanding of the subject matter. After this session, we opened the session for the interaction between the students and some residents in the village who are called by the principal of the school. After that a quiz completion was organized for the students followed by prize distributions.

UNNAT BHARAT ABHIYAN INSTITUTE

AISHE CODE: C - 46966

DEWAN VS INSTITUTE OF ENGINEERING & TECHNOLOGY, MEERUT

PROGRESS REPORT

JULY, AUGUST, SEPTEMBER 2022 (03 MONTHS QUARTERLY REPORT)

UBA Coordinator's Name: PRASHANT RAGHAV, MEENAKSHI SINGH

Email: prashant@dewaninstitutes.org , singh28.minakshi@gmail.com

Phone Number: 8476020835, 8218472711

Sr. No.	ADOPTED VILLAGES	TALUKA(Block)	DISTRICT
1	MOHIUDDINPUR (CT)	MEERUT, RAJPURA, JANI KHURD	MEERUT
2	MOHIUDDINPUR LALSANA		
3	TIKRI		
4	ITAYIRA		
5	AMINAGAR URF BHOORBARAL		

List of the Activities:

1	09 July 2022	Tikri	Organized a career counseling session for the students of village Tikri Meerut on July 9, 2022 at Panchyat Ghar to give a right direction to the students and enable them to take progressive decisions for choosing their career. **Dr. KP Jayant HOD (CS), and Mr. Prashant Raghav, Ms. Minakshi Singh, Mr. Deepak Sharma.**
2	17 July 2022	Lalsana	Organized a career counseling session for the students of village Tikri Meerut on July 9, 2022 at Panchyat Ghar to give a right direction to the students and enable them to take progressive decisions for choosing their career. **Dr. KP Jayant HOD (CS), Ms. Minakshi Singh and Mr. Surya Lab technician.**
3	15 Aug 2022	Lalsana & Itayira	Introduction of Har Ghar Takniki Shiksha Scheme of Dewan group under the occasion of Azadi ka amritmahotsav at the two villages with gram pradhan and other people of villages. **Done by Ms. Meenakshi Singh & Mr. Prashant Raghav.**
4	28 Sep 2022	Lalsana	A visit to the village Mohiuddinpur Lalsana was made in order to determine the best occupation for women in the village and set up the resource people and means accordingly. The leader of self help organisation was spoken to. **Done by Ms. Meenakshi Singh & Mr. Manu Tyagi.**

Need of the Activity:

The economically weaker section of students of village who want to pursue their higher studies and not getting any directions towards government scholarships.

Next action plan:

Sr. No.	Activity to be conducted
1	Planning for training and technical workshops of computer literacy and electronic hardware.
2	Planning for khand preparation out of sugarcane juice.
3	Planning for production of skin products by villages with the help of some outside agencies.

Dr. Shilpi Bansal
(Director, DVSIET)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UNNAT BHARAT ABHIYAN

VMSB Uttarakhand Technical University, Dehradun

PROGRESS REPORT

JUL-SEP, 2022

UBA Coordinator's Name: Dr Dheerendra Singh Gangwar

Email: dsgangwar@gmail.com

Phone Number: 9319352461

Sr. No.	ADOPTED VILLAGES	TALUKA(Block)	DISTRICT
1	Shishamwara	Vikas Nagar	
2	Dhulkot	Sahaspur	
3	Chak Manshah	Sahaspur	Dehradun
4	Rudrapur	Sahaspur	
5	Bhopalpani	Raipur	

List of Activities:

ACTIVITY 1:

Title of the Activity: Conduction of 5 Day Workshop on Commercial Production of Floor Cleaner/Disinfectant under UBA Project on Capacity Building, 4-8, Jul-2022.

Need of the Activity: Participatory Capacity Building

Brief Description (Need/Impact/Action/Picture): A 5-Day workshop on Commercial Production of Floor Cleaner/Disinfectant under Unnat Bharat Abhiyan Project on Capacity Building was conducted from 4 July to 8 July, 2022. During this training program details related to Raw Material, Packaging, Marketing, and Financial Management of Business Activities were shared with the participants. Women from various Self Help Groups from Chakmanshah and Shishamwara Villages participated in this workshop. Mr. Rajesh Kumar from Multi Discplinary Training Center, Dehardun of Khandi and Village Industries Commission trained the participants as a resource person.

5-Day workshop on Commercial Production of Floor Cleaner/Disinfectant, 4-8, July-2022

ACTIVITY 2:

Title of the Activity: **Calibration of Azadi Ka Amrit Mahotasv and Inauguration of Three Community Enterprises and One Community Learning Centre**

Need of the Activity: **Capacity Building among Rural People.**

Brief Description (Need/Impact/Action/Picture): **Unnat Bharat Abhiyan Cell of VMSB-UTU Dehradun helped rural women in establishing their own community enterprises. On 10-Aug-2022, UBA Cell of the University organised an Inaugural Ceremony for Three Community Enterprises and One Community Learning Centre in Shishamwara and Chakmanshah Villages. The chief guest of this program Padmabhushan Dr Anil Prakash Joshi emphasized on enhancing the livelihood opportunities using available local resources.**

Women associated with these community enterprises were trained for making Agarbatti, Dhoopbatti, Disinfectant, Floor Cleaner, Detergent Powder, etc.

The Community Learning Centre established at Nageshwarnath Mandir in Shishamwara Village will help in Capacity Building among rural people to improve the overall quality of their lives.

During this Program UBA Coordinator, Dr D S Gangwar explained the importance of collective actions for community development. Dr Sandeep Singh Negi, Monika Gupta, Pooja Semwal actively participated In this program.

शीशमबाड़ा गांव में बुधवार को सामुदायिक उद्यम केन्द्र का उद्घाटन करते पद्मभूषण डॉ. अनिल प्रकाश जोशी। • हिन्दुस्तान

शीशमबाड़ा में उद्यम केंद्रों का शुभारंभ

देहरादून, कार्यालय संवाददाता। शीशमबाड़ा गांव में बुधवार को तीन सामुदायिक उद्यम केंद्रों और एक सामुदायिक अधिगम केंद्र का उद्घाटन किया गया।

यहां बतौर मुख्य अतिथि पहुंचे हेस्को के संस्थापक पद्मभूषण डॉ. अनिल प्रकाश जोशी ने आत्मनिर्भरता का महत्व बताया। इसके साथ ही, उत्तराखंड के विकास में महिलाओं के योगदान को सराहा।

उन्होंने स्थानीय संसाधनों के समुचित उपयोग से आजीविका के नए अवसरों को बढ़ाने पर जोरदिया। यह कार्यक्रम प्रौद्योगिकी विवि के उन्नत भारत अभियान प्रकोष्ठ के सौजन्य से किया गया था। इस दौरान नागेश्वरनाथ मंदिर में मुफ्त वाई-फाई सुविधा के साथ सामुदायिक अधिगम केंद्र के रूप में लाइब्रेरी भी स्थापित की गई।

मंदिर परिसर में धार्मिक महत्व के पौधे रोपे गए। इस दौरान डॉ. धीरेंद्र सिंह गंगवार, डॉ. संदीप सिंह नेगी, दर्शनलाल बाबू, राजेश कुमार, मोनिका गुप्ता, पूजा सेमवाल, मधु गुप्ता, रानी ध्यानी, नेहा ठाकुर, ममता भट्ट मौजूद थे।

Hindustan Media Report, 11-Aug-2022

Invite for the program

Felicitation of the Chief Guest

Plantation on the Occasion of Azadi Ka Amrit Mahotsav

Azadi ka Amrit Mahotsav

Group Photograph

Self Help Group Members from Nari Shakti Community Enterprises

ACTIVITY 3:

Title of the Activity: **Workshop on Role of Community Enterprises in Socio-economic Wellbeing**

Need of the Activity: **Capacity Building among Community Members of adopted Villages.**

Brief Description (Need/Impact/Action/Picture): **Unnat Bharat Abhiyan Cell of VMSB Uttarakhand Technical University Dehradun helped rural women in capacity building among rural women for establishing their own community enterprises. In continuation of it, a Workshop on Role of Community Enterprises in Socio-Economic Wellbeing was conducted in Shishamwara village on 19-September-2022. It was attended by the villagers from Shishamwara, Chakmansha, and Dhulkot Villages. This workshop was conducted in collaboration with Multi-Disciplinary Training Center, Dehradun of Khadi and Village Industry Commission.**

During this workshop, participants were sensitized on Community Enterprises Management, Financial Inclusion, Digital Transformation, Prime Minister Employment Generation Program and Socio-Economic Wellbeing. While addressing the audience, Hon'ble Vice Chancellor Prof. Onkar Singh emphasized on mass production, quality control, technological interventions and financial self-reliance. He appreciated the efforts made by the villagers assured that the University will continue to support in their future endeavors.

The State Director of Khandi and Village Industries Commission, Mr. Ram Narayan highlighted the role of Prime Minister Employment Generation Program and Community Entrepreneurship in socio-economic wellbeing of rural communities. He appreciated the efforts of women for the formation of Self-Help Groups and Community Enterprises to ensure higher standards of living and motivated them to adopt professional practices to promote their undertaken business activities.

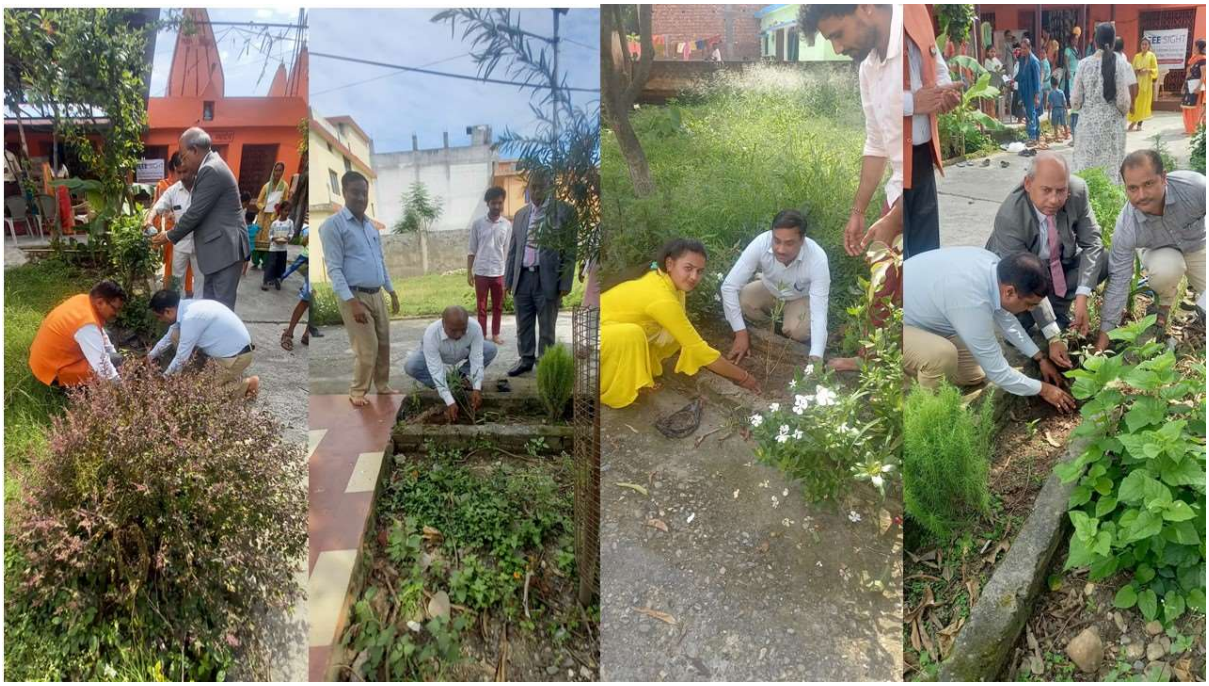
A progress report on Activities carried out under Unnat Bharat Abhiyan and Village Adoption Program was presented by the UBA Coordinator, Dr Dheerendra Singh Gangwar. During this program, faculty members Dr Sandeep Singh Negi, Ms. Monoka Gupta, Ms. Sangeeta Dhyani, and Pooja Semwal from the university also shared their views. The village pradhan of Chakmanshah village, Ms. Komal Devi explained the importance of Participatory Capacity Building and encouraged the women to increase their participation in community development activities. On this occasion, certificates for successful completion of the Workshop on Floor Cleaner making were provided to the participants.

Program Schedule

Address by Hon’ble Vice Chancellor Sir

Products of Community Enterprises

Group Photograph



Plantation of Saplings

आर्थिक उत्थान में उद्यमियों की भूमिका पर चर्चा की

■ सहारा न्यूज ब्यूरो

देहरादून।

■ यूटीयू के उन्नत भारत अभियान प्रकोष्ठ ने आयोजित की कार्यशाला

वीर माधो सिंह भण्डारी उत्तराखंड प्रौद्योगिकी विश्वविद्यालय के उन्नत भारत अभियान प्रकोष्ठ द्वारा सिंघनीवाला में एक कार्यशाला का आयोजन किया गया। कार्यशाला में मुख्य रूप से महिलाओं के सामाजिक, आर्थिक उत्थान में सामुदायिक उद्यमियों की भूमिका पर प्रकाश डाला गया।

सोमवार को आयोजित कार्यशाला में महिलाओं को उत्पादन, गुणवत्ता सुधार, विपणन, उपभोक्ता मनोविज्ञान, तकनीकी एवं वित्तीय प्रबन्धन से संबंधित विषयों पर चर्चा की गई। यूटीयू के कुलपति प्रो. ओंकार सिंह ने कहा कि स्वयं सहायता समूह की महिलाओं द्वारा तैयार किये जा रहे उत्पाद स्वरोजगार की तरफ प्रेरित करने वाला सराहनीय प्रयास है। सकारात्मक सोच के साथ महिलाओं के द्वारा किये जा रहे प्रयास में यूटीयू सदैव सहयोग के लिए तत्पर रहेगा। ऐसे प्रशिक्षण कार्यक्रमों से ग्रामीण महिलाओं की सामाजिक एवं आर्थिक स्थिति में निश्चित रूप से सुधार होगा।

उन्होंने कहा कि महिलाओं के स्वयं सहायता समूहों द्वारा तैयार उत्पादों को निश्चित केन्द्रों के माध्यम से बेचने का प्रयास किया जाना चाहिए जिसमें विवि हरसम्भव सहयोग करेगा। राज्य निदेशक खादी एवं ग्रामोद्योग आयोग के राम नारायण ने महिलाओं द्वारा बनाई गई वस्तुओं के विपणन के लिए खादी और ग्रामोद्योग आयोग की दुकानों का प्रयोग किये जाने का आश्वासन दिया। कार्यशाला में उन्नत भारत अभियान के समन्वयक डा.धीरेन्द्र गंगवार, संदीप सिंह नेगी, मोनिका गुप्ता, संगीता ध्यानी, पूजा सेमवाल, कोमल देवी, मधु गुप्ता, महावीर उनियाल, मुकेश गुप्ता आदि मौजूद थे।

कार्यशाला में विचार व्यक्त करते यूटीयू के कुलपति।

8 उत्तर भारत

महिलाओं के सामाजिक आर्थिक उत्थान पर डाला प्रकाश

» माधो सिंह भण्डारी विवि में कार्यशाला का आयोजन

» वित्तीय प्रबन्धन से संबंधित विषयों पर चर्चा

उत्तर भारत लाइव ब्यूरो
uttarbharatlive.com

देहरादून। वीर माधो सिंह भण्डारी उत्तराखण्ड प्रौद्योगिकी विश्वविद्यालय के उन्नत भारत अभियान प्रकोष्ठ के सौजान्य से एक कार्यशाला का आयोजन किया गया। इस कार्यशाला में महिलाओं के सामाजिक, आर्थिक उत्थान में सामुदायिक उद्यमियों की भूमिका पर प्रकाश डाला गया। उन्नत भारत अभियान के अन्तर्गत विश्वविद्यालय द्वारा केन्द्रीय खादी एवं ग्रामोद्योग के सहयोग से शीशमबाड़ा एवं चकमनशाह गांव की महिलाओं को आत्मनिर्भर बनाने के उद्देश्य से सामुदायिक उद्यमों की स्थापना की गई है। इस कार्यशाला में महिलाओं को उत्पादन, गुणवत्ता सुधार, विपणन, उपभोक्ता मनोविज्ञान, तकनीकी एवं वित्तीय प्रबन्धन से संबंधित विषयों पर चर्चा की गई। कार्यशाला में विश्वविद्यालय के कुलपति प्रो. ओंकार सिंह ने कहा कि स्वयं सहायता समूह की महिलाओं द्वारा तैयार किये जा रहे उत्पादों से महिलाओं के सामाजिक, आर्थि कीमें सुधार हेतु स्वरोजगार की तरफ प्रेरित करने वाला सराहनीय प्रयास है। उन्होंने कहा किस कारात्मक सोच के साथ महिलाओं के द्वारा किये जा रहे इस तरह के प्रयास मेंउत्तराखण्ड प्रौद्योगिकी विश्वविद्यालय सदैव सहयोग हेतु तत्पर रहेगा। विशेषकर इलैक्ट्रिक उत्पाद यथा-एलईडी बल्ब बनाना एवं इनकी मरम्मत करने आदिमें तकनीकी विश्वविद्यालय अपनी महत्वपूर्ण भूमिका अदा कर सकता है। कार्यक्रम के अंत में कुलपति ने कहा कि ईमानदारी और लगनशीलता से आप कार्य करेंगे तो निश्चित रूपसे प्रयासों में सफलता मिलेगी। राज्य निदेशक खादी एवं ग्रामोद्योग आयोग श्री राम नारायण ने महिलाओं द्वारा बनाई गई वस्तुओं के विपणन हेतु खादी एवं ग्रामोद्योग आयोग की दुकानों का प्रयोग किये जाने का आश्वासन दिया गया। कार्यशाल में उन्नत भारत अभियान के समन्वयक डॉ धीरेन्द्र ग गवार, संदीप सिंह नेगी,मोनिका गुप्ता, संगीता ध्यानी, पूजा, सेमवाल, कोमल देवी, मधु गुप्ता, महावीर उनियाल, मुकेश गुप्ता आदि उपस्थित रहे।

Media Report: Rashtriya Sahara and Uttar Bharat Live

Next action plan:

Sr. No.	Activity to be conducted (along with reason)
1	Data Analysis and Report Preparation for UBA Project on Capacity Building.
2	Interaction with the farmers to encourage them for adoption of Natural Farming and other innovations to improve their farm productivity and incomes.
3	Formation of teams, SHGs, FPOs etc. to support villagers in their pursuit for better livelihood opportunities in association with National Rural Livelihood Mission (NRLM).
4	Interventions to enhance connectivity of the villagers with Knowledge, Networks and Institutions.
5	Sensitization workshops on Healthcare, Nutrition, Sanitation and Entrepreneurship.

UNNAT BHARAT ABHIYAN

Dev SanskritiVishwavidyalaya

Gayatrikunj-Shantikunj, Haridwar-249411

PROGRESS REPORT

JULY to SEPTEMBER, 2022

UBA Coordinator's Name: Dr. Ashwani Kumar

Email: ashwani.sharma@dsvv.ac.in

Phone Number: 9258369607

S.No	Name of Adopted Villages	Name of Blocks	District	State
1.	Udpalta(उद्पाल्टा)	Kalsi	Dehradun	**Uttrakhand**
2.	Rani Pokhari(रानीपोखरी)	Doiwala	Dehradun	
3.	Itharna(इठारना)	Doiwala	Dehradun	
4.	Rakhwal(रखवाल)	Doiwala	Dehradun	
5.	Boodpur(बूड़पुर जट)	Narsan	Haridwar	

List of Activities:

ACTIVITY 1:

Name of Activity: Plantation at **Udplata**, (Kalsi), **Itharna** (Doiwala) Dehradun on 21-8-2022& 28-8-2022 respectively.

Need of the Activity: Nature is God's most beautiful creation. It felicitates the growth, development and nourishment of all its creatures. **Dev SanskritiVishwavidyalayaUnnatBhartAbhiyan**took the initiative to encourage students to enhance their intellectual, social, personal and emotional growth. Under the UBA initiative, a **"TREE PLANTATION DRIVE"** was organized in the UdaplataRajkiyeUcchtarMadhyamicSchoolon Sunday, 21 August, 2022andon the hill top around the Gram Panchayat Building and Shiv Mandirin Itharna village on 28 August, 2022**.** The campaign's main aim was to direct student's mind in constructive activities with the positive outcome through the facilitation of contributing to the society.The students brought various saplings including Ashoka, Neem, Amla, Guava, Kadamb, Pipal,Kachnaar etc**.** The Villagers participated in the drive enthusiastically along with the students in the plantation activity which connected them with their peers, elders, community and environment.

Udpalta Village

Itharna (Gadool)

ACTIVITY 2:

Name of Activity: **Problem identification through PRA Exercise (imitation)**

Need of the Activity: To bring out major constraints/problems in the identified villages.

Description in 200 words (along with the Pictures):

An unstructured PRA exercise was initiated in three villages namely BoodapurJat, Itharna and Udpalta in the form of brain storming sessions to encourage village participants to speak out the problems faced by them. After listing the problems discussions were heled to narrow down the major issues/problems which need immediate redressal/solution.

Major problems of **BoodpurJat**(Narsan) village-

1) Adduction and Drugs Menace
2) Choked Drainage System, encroachment and silting of water bodies
3) Lack of guidance forself-employment of educated women and youth
4) Loss of value system and ethics among the youth
5) Acute need forplantation

Major problems of **Itharna** (Doiwala) village-

1) Accessibility of batter quality primary education facility
2) Women self-employment
3) Lack of access to computer education for girls
4) Lack of knowledge for value addition of local produce
5) Access to dependable health facility

Major problems of **Udpalta** (Kalsi) village-

1) Accessibility of batter quality primary education facility
2) Drinking water
3) Women self-employment
4) Lack of knowledge for value addition of local produce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mehar's home, 3, Itharna Rd, Gadool, Uttarakhand 248145, India
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AGENDA
PRA-Exercise


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ACTIVITY 3:

Name of Activity: Establishment of an operational station at Udpalta (Kalsi)

Need of the Activity: To strengthen the primary education and to impart training for self-employment and value addition.

Description in 200 words (along with the Pictures):

Udpalta is located around 160 kilometre away from university headquarter at an altitude at above 5000 fit making it difficult to access on a routine basis for the developmental work. In order to implement the planed programmes effectively, the university has establish an operational station in a building (loaned by a villagers) in Udpalta village. The building has now been renovated by the University to

house its volunteers for who would undertake the developmental activities. The main aim of this establishment will be to provide a better quality primary education to children which will complement the existing primary education setup.

ACTIVITY 4:

Name of Activity: Participation in the Gram Sabha on 15 August, 2022.

Need of the Activity: To live in perfect harmony with natureand protect the environment.

Description in 200 words (along with the Pictures):

On the occasion of **Azadi Ka Amrit Mahotsav**, on **August 15, 2022**, in village BudpurJat, Narsan block, Haridwar the students and faculty of Dev SanskritiVishwavidyalaya, along with teachers and principal of Shiv Gyan Vidya Mandir, Rajesh Kumar, were also present. After the rally, sweets and other food items were distributed by the university to the school children on the occasion of Independence Day. After this, a **Gram Sabha** was organized where faculty members and students of the university participated. Detailed discussions were held by the attendees on various issues concerning development of the village. Issues like **computer literacy, water conservation, health issues,** etc. were discussed in the meeting. The inhabitant of the village will immensely benefit from suggested activities in future.


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ACTIVITY 5:

Name of Activity: To establishment of Bal Sanskar Shala

Need of the Activity: **To inculcate ethics and values in young children and help they develop Mentally and physically**

Description in 200 words (along with the Pictures):

Students have undertaken establishment of three `**Bal Sanskar Shalas**' in the village **Rakhwal** (Doiwala), Dehradun for children aged between 6 to 13 yrs for Cultural & Values Development. This activity was taken up in three consecutive Sundays starting from 11th September. This an important activity that helps in bringing Awareness about spiritual glory of Indian Culture & inculcate divine qualities through that Improving physical, mental and spiritual wellbeing of future generation. This is achieved through learning human/moral values, ethics, spiritual practices through games and stories. Presently, five activities have been undertaken in all three Bal Sankar Shalas

Help children to complete their homework given in the school

Impart moral education through stories

Practice Yoga/Asanas/Pranayama

Sports and entertainment

Poem recitation

Action plan for next quarter:

Sr. No.	Activity to be conducted(along with reason)
1	Preparation of action plan for each village
2	Undertake activities as per the above plan