



# UBA NEWSLETTER

Semester: Autumn | Issue: 2 | December' 19

*"You must be the change you wish to see in the world"*  
- Mahatma Gandhi



## ABOUT UBA IITR

**Unnat Bharat Abhiyan IIT Roorkee** is inspired by the vision of transformational change in rural development processes by leveraging knowledge institutions to help build the architecture of an inclusive India. Under the aegis of UBA, IIT Roorkee has identified five villages namely: Beladi-Salhapur, Chandpur - Horawala, Chharba, Meerpur-Muwazarpur and Puranpur. The student team identifies problems persisting in the villages and proposes solutions pertaining to the fields, including, but not limited to, sanitation & cleanliness, education, skill development, agriculture, physical infrastructure, social, and institutional infrastructure.

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## ABOUT CHANDPUR

Chandpur village cluster comes under Vikasnagar block of district Dehradun, Uttarakhand, with a population of around 1,577 according to Census 2011. It is very close to mountains and is situated on the bank of one of the tributaries of Yamuna River. Some identified problems are: there are no healthcare facilities in the village, education and employment are sectors with huge potential of development.

## MINI-BANK INITIATIVE

One has to do groundwork research to nourish a village development initiative. Banking services of village Chandpur-Horawala were very difficult for a local villager to access; one needed to travel 12kms away for banking purposes. Keeping in mind the problems faced by villagers and many fraud cases, the team decided to lead an initiative, the mini bank, to make banking accessible and easy for villagers. The team in its next visit discussed this initiative with *Pradhan* of village when he suggested an individual, Mr Ashish Bhatt who helped the team in providing technical knowledge and sufficient capital for establishment of mini bank in the village. The team was in regular contact with Mr Ashish Bhatt, who mentioned about involvement of an NGO Drishtee, which provides banks upon surveying. After many proceedings and the required paper work, mini bank was successfully inaugurated on June 28, 2019 with the assistance of local bank employees from SBI Sahaspur. Along with this, a mini bank awareness program was also conducted along with the felicitation of the owner.

The bank is still nurturing and attracting the villagers. It has received lots of appreciation and positive feedback.



Date: June 28, 2019  
Venue: Chandpur-Horawala

Mini Bank set up in Chandpur village



Date: June 28, 2019  
Venue: Chandpur-Horawala

SBI Mini Bank kiosk in Chandpur village

# MISSION DIGI-SCHOOL

Pathetic conditions of classroom teaching of schools of village Chandpur-Horawala had been the concern of the team from the very beginning. Inadequate facilities, no computer labs and smart classes, somewhere affected the strength of schools and interest of students in studying. Keeping in mind these problems, the team members drafted the initiative, Mission Digi School, with the help of Srijan Foundation. The team first discussed the possibility of mentioned initiative with the Principal of Government Inter College, Horawala, after being assured that the initiative could be a great success, the team started working on the initiative. Time table and curriculum of classes 6th-11th were taken, school was provided an inverter and internet connection for proper functioning of LCD. After all the proceedings and required paperwork, the setup was installed in GIC Horawala on October 5, 2019. The event was covered by media and received huge appreciation and positive feedback from students, teachers as well as school principal. In the subsequent visits, the team handed over a hard disk containing study material of Srijan foundation to Mr Lalit Chaturvedi, coordinator of Digi School and explained him the guidelines to be followed by school teachers for smooth functioning of the initiative.



Digital Teaching classroom in GIC Horawala



Digital Teaching classroom in GIC Horawala

www.jagran.com

## स्मार्ट क्लास में पढ़ेंगे होरावाला के बच्चे

जगारना संगठनाता, विकासनाथर: सृजन एक सोच संस्था ने उन्नत भारत अभियान के तहत आईआईटी रुडकी के सहयोग से गांधका होरावाला में स्मार्ट क्लासेज की शुरुआत की है। इस दौरान बतौर मुख्य अधिकारी पूर्ण प्रधान रविंद्र ने कहा कि स्मार्ट क्लासेज से समाजी स्कूल के बच्चे भी निजी स्कूल की सुविधाओं का आभास करेंगे। जो उनके कैरियर में काम आएगा। सरकारी स्कूलों में इस तरह की

सुविधाओं की ज्यादा जरूरत है। कार्यक्रम की शुरुआत सरस्वती वंदना से हुई। मंच पर बच्चों के बीच अंतिखण्डन ने आगे अनुभव साझा किए। कार्यक्रम में सूजन की तरफ से अंगेशन कार्यक्रम में सूजन की तरफ से अंगेशन डायरेक्टर रविंद्र गुप्ता व हरिश्चारण मिश्र ने स्मार्ट क्लास के उपयोग व संचालन के तरोंके बारे पर बातेए। स्मार्ट क्लासेज की शुरुआत का फावदा छात्र छात्राओं को अवश्य मिलेगा। उन्होंने बच्चों से कहा कि वे लक्ष्य निर्धारित कर अपने कैरियर की दिशा में आगे बढ़ें। संसाधनों की कमी बहुत शिक्षा के आड़े नहीं आनी चाहिए। यदि बच्चों में कुछ कर गुजरने का जन्मा है तो सफलता अवश्य मिलती है। जीआइसी होरावाला में उन्नत भारत अभियान आईआईटी रुडकी से विलोज को-ऑर्डिनेटर अजय मंत्रवालिया, इन्सीसियेटिव लॉडर कहैंया मंथेश्वार, अजय गाटनी, शिक्षक आदि मौजूद रहे।

Article of Digi-School Initiative in Dainik Jagran

“

Education is the passport to the future, for tomorrow belongs to those who prepare for it today.  
- Jim Rohn

# SWACHTA HI SEVA

**“Cleaning and organising is a Practice not a Project”**

With the aim to spread awareness about the harms of using plastic the team organised a “Swachhta Hi Seva” Campaign in all the five village clusters adopted by the UBA team, Beladi, Chandpur, Chharba, Meerpur, Puranpur on September 29th, 2019. The purpose of the campaign was to spread awareness about the harmful effects of polythene on the environment and on the health of humans and animals. It is also aimed at getting rid of polybags from households by encouraging the use of cloth bags. Under this campaign the team went door to door collecting polythenes and in return distributing clothbags. The team also told the disadvantages of using plastic and provided the villagers with cloth bags to be used in their place instead.



MEERPUR

Date: September 29, 2019  
Venue: Meerpur

Team during the Swacchta Hi Seva Campaign.



BELADI

Date: September 29, 2019  
Venue: Beladi-Salhapur

Team during the Swacchta Hi Seva Campaign.

Villagers were explained the adverse effects of using plastic on the environment and water bodies since garbage disposal had always been an issue in these villages. Rallies were carried out with maximum involvement of village children in the campaign. The team successfully conducted the campaign with the distribution of a total of 525 cloth bags in exchange of plastic bags in all the five village clusters. The villagers appreciated team's effort and were willing to actively participate in the campaign, often joining in for the campaign.



PURANPUR

Date: September 29, 2019  
Venue: Puranpur

Team posing for a photo with plastic collected during the Swacchta Hi Seva



CHANDPUR

Date: September 29, 2019  
Venue: Chandpur

Team posing for a photo with banners and plastic collected in Swacchta Hi Seva

In addition to the Swacch Bharat Campaign, village and household survey were also conducted alongside in all the adopted villages. A total of 309 households were surveyed along with the village survey data collected for 3 village clusters, which included 8 individual villages.

This co-ordinated effort on part of all five teams of Unnat Bharat Abhiyan would be a step forward towards a greener and cleaner future through reducing the use of single-use plastic in villages of Uttarakhand.



CHHARBA

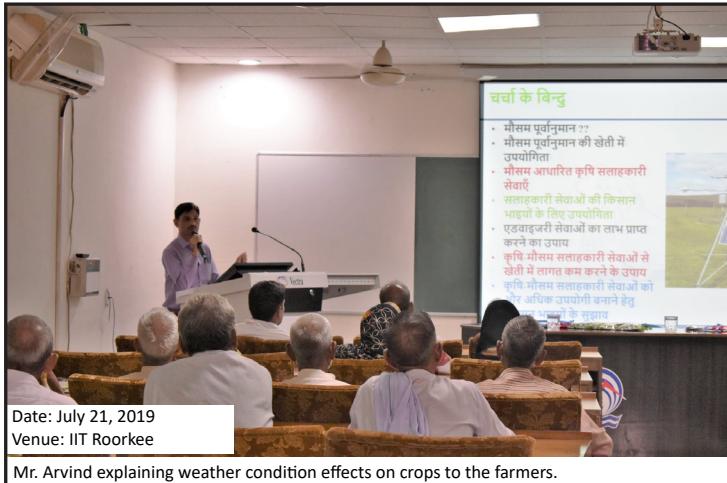
The LED bulb gives better light output even though it consumes only one-tenth of energy than an ordinary bulb. Due to the high installation cost, it's not affordable for domestic consumers. The team took the initiative to provide an efficient and eco-friendly form of lighting under the scheme UJALA (Unnat Jyoti by Affordable LEDs for ALL). The aim of this initiative was to ensure that LED bulbs are used in place of regular bulbs so as to save electricity. The villagers were given the bulbs at the rate of Rs. 70 / (9W Power). These bulbs were procured by the team members from the Roorkee Post Office. A total of 126 bulbs were purchased by the villagers. This initiative was conducted alongside a Solar Lamp Making workshop for children in the community hall of village Puranpur. They were told about the advantages of using LEDs.



## LED DISTRIBUTION DRIVE

# AGROMET INITIATIVE FOR FARMERS

To enlighten farmers about changing and unpredictable weather conditions through the use of modern-day weather forecasting equipment, Unnat Bharat Abhiyan organized a farmer awareness session in collaboration with Water Resources Development and Management Department (WRD&M), IIT Roorkee on July, 21st 2019.



Date: July 21, 2019  
Venue: IIT Roorkee

Mr. Arvind explain

Mrs. Alvin explaining weather condition effects on crops to the farmers

## मौसम पूर्वानुमान किया जागरूक

जागरण संसाधनका, रुझ़ीकी: भारतीय प्रौद्योगिकी का अधिकारी (आई एस आई) रुझ़ीकीमें उत्तर भारत अधिकारीके तहत जल संसाधन विभासएवं प्रबन्धन विभास संसाधन विभासएवं कृषि-भौमिक संसाधन परियोगियोंकी ओर से किसिना जागरणका कार्यक्रम का आवाहन किया गया। इसमें विशेषता ने किसानों को मौसम के अनुसार फसल प्रबन्धन करना, प्राप्तिकाल आदाएवं फसल का ब्राचारा आदि के संबंध में जागरूकी दी।



28 farmers from village Meerpur and Puranpur including the Gram Pradhan of Meerpur attended the session where they were told about seasonal crop management, protection of crops from sudden weather changes, etc. The session was administered by Dr. Aashish Pandey and Dr. Arvind Kumar (Research Associate, Department of WRD&M, IITR).

The information provided will help the farmers earn more profit, produce quality crops that will have impact on a bigger scale as it encourages the active participation of farmers in water conservation. The farmers also visited AGROMET Observatory in the campus and were shown the observatory equipment.

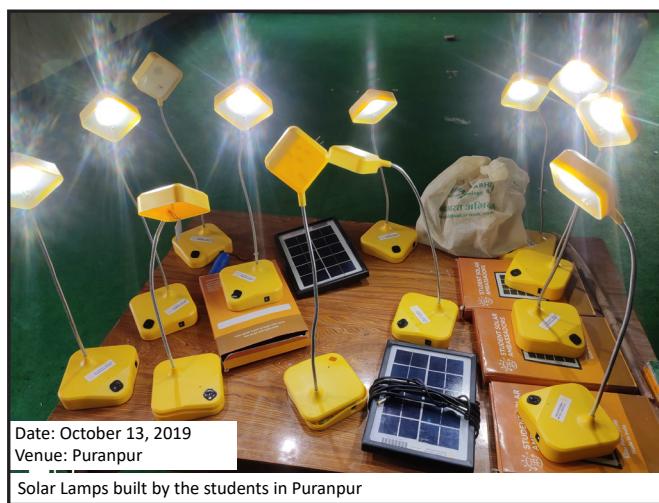


Scan the QR code  
for link to the  
**AGROMET Portal**:



Agriculture is the most healthful, most useful and most noble employment of man.  
– George Washington

# SOLAR AMBASSADOR WORKSHOP



Members of team UBA organized a solar lamp set-up workshop, under ‘Gandhi Global Solar Yatra’ in Puranpur and Meerpur village on October 13th & 14th, 2019. The objective of the workshop was to sensitize the young minds towards Solar energy and dire consequences of climate change.

This initiative gave them hands-on experience to make their own solar study lamp. The team first explained the advantages Solar Energy over the conventional energy sources. Then the team divided the students in a group of five and distributed one lamp kit to each group and guided them to construct the lamp.



This workshop received enthusiastic participation of village students, especially girl students and it was highly appreciated by the school principals, *Pradhan* and teachers. This encouraged students to continue learning and to keep exploring new things. A total of 138 students participated in the workshop and 50 lamps were successfully made by the students.

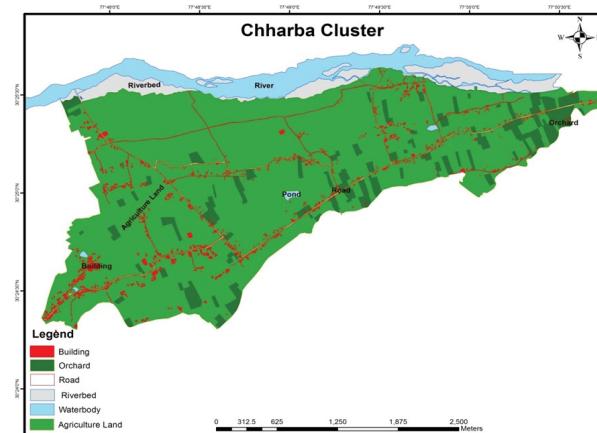


# SELF DEFENSE CAMP

Certain times call the need of certain skills and techniques but self defense is the need of the hour, as it not only protects oneself but also helps in cultivating confidence, discipline and self control. Therefore to make our thoughts a reality, a self defense camp was organized in Madarsa, Chharba on August 17, 2019. A team of 5 Taekwando experts accompanied by the members of UBA took lead of this camp. A lecture was held by the Taekwando team leader Mr Abhishek Gupta. The children were divided into small groups and each group was assigned a Taekwando expert who taught all the basic aspects of Taekwando and asked them to perform the same. The principal of Madarsa, Mr Anzar supported the camp with great enthusiasm



Chharba is a large village located in Vikasnagar of Dehradun district, Uttarakhand with total 1425 families residing according to Census 2011. Chharba covers an area of about 1567 hectares. It is situated 7km away from sub-district headquarter Vikasnagar and 22km away from district headquarter Dehradun. One of the prime ingredient for growth of a place is present in Chharba. That factor is religious and cultural Diversity. Although the majority of people are Hindus, there are about 40% Muslims and 3% Sikhs in the composition of total population.



## PMKVY INITIATIVE

The team of Unnat Bharat Abhiyan conducted door to door promotion of PMKVY (Pradhan Mantri Kaushal Vikas Yojana), the scheme of MSDE (Ministry of Skill Development and Entrepreneurship) with the objective to enable a large number of Indian Youth to take up industry relevant skill training in the village Chharba, Dehradun. Mr. Manoj, who is the head of PMKVY Silakui Centre explained the registration process to the UBA team members. The team along with 12 PMKVY members did the registrations in village Chharba.

The team has successfully registered 60 people in which 34 were female and 26 were male. We look forward to conduct more such promotions, so that more and more people can take benefits of this scheme, thereby developing skills and creating new employment opportunities.



## iINSPIRE INITIATIVE

In concordance with the aim of providing knowledge, team UBA IIT Roorkee organized a science exhibition in GIC, Chharba. The exhibition was organized for the students of IX, X, XI, XII standard. The students made the projects like water tank alarm, kalaeidoscope, volcano, Potato light bulb experiment, Generator. The team demonstrated the basic principles behind the projects and the students were provided with materials. These exhibitions received enthusiastic participation of secondary students and it was highly appreciated by the school principals and teachers as well.



## TREE PLANTATION DRIVE

With the idea to inspire the young minds of India, the team decided to conduct tree plantation drives on August 17, 2019, in the Primary School and the Secondary School of the village Beladi.

The drive observed a huge participation of around 100 students as well as teachers from the Primary School. The students, with the help of team members, successfully planted 115 plants of 4 different varieties.

In Secondary School, 95 plants were planted with the participation of about 80 students. Students participated enthusiastically and were highly motivated towards preserving the environment.



Date: August 17, 2019  
Venue: Primary School, Beladi

Schoolchildren waiting for their turn for planting the saplings.



Date: August 17, 2019  
Venue: Secondary School, Beladi

Secondary school teacher assisting team member in tree plantation



Date: October 12, 2019  
Venue: Scholars Academy, Puranpur

Mr. Anadi explaining children the basics of MS Word during an ICT Session.

Computer literacy is a vital skill for higher education and jobs nowadays and none of the schools focus on this. The UBA Team in village Puranpur found (via various visits and conversations with the principal of the school) that most of the

students lacked minimum adequate knowledge of computer and its applications. The team decided to bring their own laptops to the villages which attracted the students and increased their enthusiasm. The students were taught about the hardware and software systems of the computer and later were taught to use Notepad and Paint, Word and PowerPoint. Under ICT (Information and Communication Technology) initiative a total of 12 man hours were spent and 24 students were taught.

## ICT INITIATIVE

# KAAGAZI AAGAZ

*'Innovation is the calling card of the future.'*

We must aspire to find innovative solutions for a better and bright future of the nation. Utilizing the fun element to spread a message of 'Plastic Free India', Unnat Bharat Abhiyan IIT Roorkee organized 'Kaagazi Aagaz' in collaboration with Thomso, the annual cultural fest of IIT Roorkee in October 2019. Participants had to build their own paper bags using all the craft our team provided to promote the idea of "No more plastic". Symbolizing the beginning of a change, the event attracted children, students, staff and professors alike. Collectively, 430 paper bags were made, making the event a huge success and filling the participants with enthusiasm and creativity. We look forward to organizing such events in the future.



## UBA IITR WINTER SCHOOL

UBA Winter School, a three day programme scheduled on 17-19 January 2020 is aimed to yield effective result in target oriented modules in earmarked villages. Studded with structured guiding sessions of distinguished



WINTER SCHOOL 2020  
UNNAT BHARAT ABHIYAN IIT ROORKEE  
17th - 19th January 2020



professional experts, the programme shall have output through Technological Innovation, Entrepreneurship, Socio Economy, and Government Interface.

Learn more:





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**WINTER SCHOOL 2020**  
UNNAT BHARAT ABHIYAN IIT ROORKEE  
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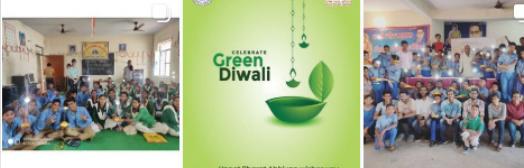
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