

# UBA NEWSLETTER

INDIAN INSTITUTE OF TECHNOLOGY ROORKEE



“You must be the change you wish to see in the world” – *MAHATMA GANDHI*



**Unnat Bharat Abhiyan** 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 5 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.



## RECENT INITIATIVES TAKEN

### 1. CATTLE VACCINATION

In various surveys conducted by the team, it was found that the major sources of occupation for most of the residents are agriculture and dairy and no vaccination was provided to them in some of the villages. With the main aim of benefiting the livelihood of villagers, cattle vaccination camps were conducted in the villages to provide vaccination to the cattle against Foot and Mouth Diseases (FMD). During this camp, a record number of 2952 cattle were vaccinated throughout the villages Bahadrabad, Chandpur, Belada, and Meerpur.

During the 'Education cum Employment Survey' conducted in villages Belada, Chandpur, Puranpur, and Meerpur, the team observed that agriculture and dairy is the main source of occupation for most of the residents of these villages, justifying the huge cattle population in the village. But the villagers often neglect the health of their cattle which leads to various diseases among them. After identifying this problem team UBA came up with the idea of conduction of a Cattle Vaccination Camp in the villages.



The Campaigning for the camp was done in Belada village on April 5, 2019. The four-day vaccination camp was conducted in the village from April 06, 2019, to April 09, 2019, by the team in collaboration with a team of four veterinary doctors. A total of 1695 cattle was successfully vaccinated.

The camp was organized in the Chandpur village under the supervision of Dr Satyendra Negi, livestock officer Horawala, by the team on March 30, 2019. The camp was successful with a total no. of 351 vaccinations.





The team collaborated with the government veterinary hospital in Bahadarabad for the vaccination drive in the village. As per the availability of the doctor, the camp was conducted on October 20, 2018, for which the promotions were done on October 13, 2018, and October 19, 2018. The camp was a huge success as 476 cattle were vaccinated in the village.

The camp was then organized on February 09, 2019, in Meerpur Village after the promotions, that were done on February 02, 2019. The camp was conducted by team Meerpur along with the team of four veterinary doctors under the supervision of Dr. Rajeev Yadav. More than 430 cattle were vaccinated successfully during the camp.



The Cattle vaccination camp turned out to be a huge success and witnessed massive support of cattle rearers from the villages, the team members not only provided vaccination but also created awareness among the villagers about the importance of timely vaccination for prevention of diseases and good health.



## 2. CYCLE DONATION

With the idea to inspire students of secondary school to work hard in their academics, the team decided to conduct a cycle donation camp for the academically bright students. In Chharba it was conducted on February 02, 2019 in Government Inter College (GIC) in which 9 cycles were donated and in Beladi-Salhapur it was conducted on February 16, 2019, in Secondary School in which 8 cycles were awarded to the student by their principal.



The cycle is still a dream for the village children and can serve as an efficient source of motivation for students to work hard in academics. In Chharba, the size of the village was an important factor which increased the need for the cycle donation camp. The main difficulty was the procurement of bicycles, with due permission of DoSW IIT Roorkee, the unclaimed cycles in different Bhawans of IIT Roorkee were targeted for the donation purpose. The team contacted the Chief Wardens, Wardens and Supervisors of these Bhawans in order to get information about the availability of cycles.

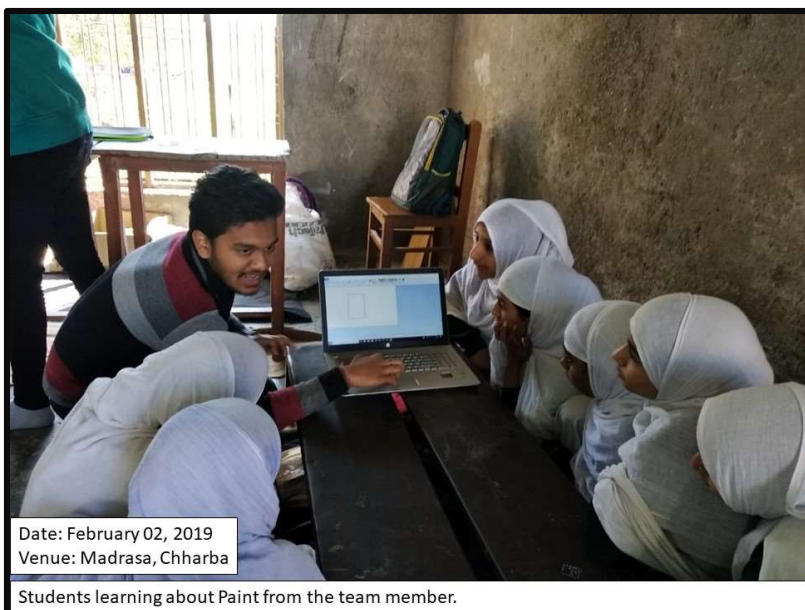
Instead of the open auction, these cycles were provided to the team to be donated to the villages. The team collected a total of 17 cycles from the Bhawans and invested ₹ 5838 on their repairing. The principal of the respective schools was asked to provide the list of the students who needed and deserved a cycle. Secondary school students were shortlisted on the basis of three parameters academic performance, the financial status of family and distance of their home from school. The donation was successfully organized on February 02, 2019 in village Chharba and on February 16, 2019, in village Beladi-Salhapur.



### 3. ICT INITIATIVE

Considering technical advancements going on in the modern world, the team decided to introduce the students of the primary and secondary schools of Chandpur, Chharba and Puranpur with basics of computer. Hence, the team organized the Information Technology Initiative (ICT) initiative and taught the students of primary and secondary schools about the computer, its components, and some basic software.

Computer literacy is a vital skill for higher education and jobs nowadays and none of the government schools focuses on this. Although provided with the basic computer education at private schools of village, the UBA Team found (via various visits and conversations with the principal of the school) most of the students deprived of minimum adequate knowledge of computer education and its applications. Identifying this problem, the team got an inspiration to start the ICT (Information and communication technology) initiative in the schools of the villages of Haridwar and Dehradun adopted by Unnat Bharat Abhiyan IIT Roorkee.



After consulting the principal, the topics to be taught were decided and study material booklets were printed of these topics for students to read. Basic knowledge of computer software such as MS Office to the students of middle school of GIC (Government Inter College), Horawala. The students were acknowledged about the hardware and software systems of the computer and later were familiarized with the desktop and its components like a taskbar, folder icons, etc.





They were also taught to use Notepad and Paint. Basics of Word, Excel, and PowerPoint were also taught under different sessions in the villages. Students were not much familiar with the basics of computer, therefore, the theory session couldn't witness any excitement among them. Therefore, the team decided to bring their own laptops to the villages for practical sessions which attracted the students and increased their enthusiasm in studies. ICT initiative was successfully organized in Chandpur, Chharba, and Puranpur.

ICT (Information and Communication Technology) initiative helped students to learn something that was not a part of their regular academic curriculum. For interested and motivated students, this may open different career prospects. This initiative was marked with great enthusiasm from the students and positive feedback from the principal and the staff members. Conclusively, ICT initiative has been another success for the team UBA IIT Roorkee.



## 4. SCIENCE EXHIBITION

The knowledge base and resources of the premier institutions of the country are to be leveraged to bring in the transformational change in the rural developmental process. It aims to create a vibrant relationship between the society and the higher educational institutes, with the latter providing the knowledge and technology support to improve the livelihoods in rural areas. So, in concordance with this aim of providing knowledge, team UBA IIT Roorkee came up with the INSPIRE initiative, under which, a science exhibition was conducted in two of the adopted villages, Beladi and Meerpur.



This exhibition observed the participation of more than 140 secondary school students divided into several teams out of which 61 students were declared as winners. All the winning teams were felicitated. In Beladi, the science exhibition was conducted on October 30, 2018, which observed active participation of the students. A total of 8 teams, with 5 members each, participated in this competition, where they had to make a working model of balloon powered boat.

The team demonstrated how to make a boat and explained the basic principles of floatation and working of a boat. Students were provided with the required materials and all kind of help. After judging all the teams on the basis of the idea, working, creativity, and aesthetics, three teams were announced as winners and they were awarded by the school principal.







To nurture the interest of the students towards science and to give an insight to the students on the practical use of science to develop technologies that can be used for the benefit of the society, Team UBA IIT Roorkee decided to conduct science exhibitions for classes IX and X of Government Secondary School, Beladi, and for classes VIII, IX and X of Junior High School, Meerpur. But considering the fact that “Retention is best when the learner is involved”, in INSPIRE 2.0 the team thought to involve the students in doing experiments rather than demonstrating them how to do it.

In Meerpur, prior to the exhibition, on September 29, 2018, the team members demonstrated the working of the projects and distributed the required materials to the students. The Science exhibition was conducted on October 02, 2018 and it received overwhelming participation of more than 100 students. On October 13, 2018, 46 students from various classes were announced as winners and felicitated with prizes. Such events help a lot in developing scientific temperament in school students.



These exhibitions received enthusiastic participation of secondary students, especially female students and it was highly appreciated by the school principals and teachers. The felicitation encouraged students to continue learning and to keep exploring new things. Owing to the success of this event, Team UBA IIT Roorkee has decided to continue this initiative on an annual basis.



## 5. UREDA AWARD

Working towards the goal of energy efficient and eco-friendly appliances, Unnat Bharat Abhiyan, IIT Roorkee took up the project for LED Distribution in villages of Haridwar and Dehradun in 2016-17. With the support of Uttarakhand Renewable Energy Development Agency (UREDA), in the last two years, UBA IITR distributed LED bulbs, tube lights and ceiling fans of total worth ₹ 1,34,470. Recognizing the efforts made by UBA IITR, UREDA and Bureau of Energy Efficiency decided to present an appreciation award to UBA on National Energy Conservation Day.

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). This scheme was implemented by the Energy Efficiency Services Limited (EESL), Government of India in which energy efficient appliances were provided with 60% subsidized rate to domestic consumers.



The team collaborated with EESL and Uttarakhand Renewable Energy Development Agency (UREDA). The team of Mr Amarjeet Singh, Deputy Chief Project Officer of UREDA and Mr Abhishek Tyagi, Project Officer of EESL, accompanied Chharba team of UBA for distribution of Energy Efficient appliances at the subsidized rate. Beladi-Salhapur team conducted an Awareness camp generating concern for the necessity of efficient and eco-friendly energy resources on October 27, 2017. The distribution camp was held on the following day and ended up in distributing 150 LED bulbs. Puranpur team of UBA organized the distribution of Energy Efficient appliance held at Ambedkar Hall in Puranpur and succeeded in distributing 120 LED bulbs. Chandpur team of UBA conducted the camp on September 03, 2017. The team was successful in selling 167 units of LED bulbs, 4 units of LED tube light and 9 units of ceiling fans.

Marking this achievement, UBA IITR was asked to attend the award ceremony on December 14, 2018, at ONGC – Dehradun, Nehru stadium. Our team members Roshan Kumar, Ujjwal Gupta, Vishvdeepak and Dilkush Malav joined the ceremony and received the award from the chief guest of the event, Mr Prakash Pant, Minister of Finance, Excise, Drinking Water and Sanitation of Uttarakhand Government. UBA IITR accepted the badge of honor and continues to work at the technological, social and cultural betterment of rural India.