MANJARA CHARITABLE TRUST RAJIV GANDHI INSTITUTE OF TECHNOLOGY, MUMBAI UNNAT BHARAT ABHIYAN CELL

Wholesome Rural Development Through Techno-Social Initiatives

RURAL DEVELOPMENT INTERNSHIP 2.0 DATE-3rd DECEMBER, 2019- 3rd JANUARY, 2020



Manjara Charitable Trust Rajiv Gandhi Institute Of Technology, Mumbai Unnat Bharat Abhiyan Cell

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INTRODUCTION

Unnat Bharat Abhiyan Cell of Rajiv Gandhi Institute of Technology had introduced Rural Development Internship in month of July 2019 with a view of harnessing the skills and resources available within the institution. The aim is to develop the rural areas through value based social awareness and implementing the technical solution to the mass problem. In its second edition more emphasis was put on domain of renewable energy, food processing and digitalization. Also, to boost the working skill of the interns and strengthened their motive to contribute to a prosperous nation.

On February 19, 2019, UBA Cell, RGIT had conducted a survey in 5 villages of Ratnagiri district, to get acquainted with day to day problems faced by the villagers and gain information about the infrastructural conditions prevailing in the village area. A total of 104 households were surveyed from the district. This visit also aimed to develop healthy interpersonal relationship with the villagers, so that they could openly discuss their problems with the student members, put forth their requirements and basic needs and entrust the team to take responsibility and implement ideas that would provide optimal solution. The problems identified through the survey include inadequate water supply, load shedding, poor mobile network connectivity, lack of medical facility, transportation and unemployment.

OBJECTIVES

- To make the students understand the rural social system and community living.
- To study the problems faced by rural communities and design approaches and strategies for improvement.
- To study and understand the role of technology in the local livelihood of adopted villages and in teaching methods.
- To learn about the use of renewable energy systems in day-to-day life of the villagers.
- To learn the understanding of small scale businesses among the villagers.

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In its second phase, Rural Development Internship commenced technical projects in Renewable Energy, Food Processing & Entrepreneurship Building and School Management System domains to benefit the village community and bring about a change in their lives for good. The projects have been explained in detail.

1. RENEWABLE ENERGY:

NAME OF PROJECT: Providing Pumping Arrangement to Provide Safe Drinking Water to the village.

VILLAGE NAME : Mundhe Tarf Savarda

After a thorough survey, it became clear that inadequate drinking water supply is a severe issue faced by villagers as water being a basic necessity isn't sufficiently available for them to use. The survey highlighted that currently, an electric pump is used to transport water from the wells situated far away from the vicinity of the village. Thereafter, water gets stored in storage tanks and is made available for daily use.

People are facing various issues such as load shedding, water shortage due to power failure as, for water supply they are totally dependent on electricity and high costs incurred in the process that get reflected on their electricity bills. After considering various geographical parameters and appropriate considerations the team along with villagers took a decision of establishing solar water pump in Mundhe Tarf Savarda village. This will help them solve issues they face in their day to day lives. The installation of a solar water pump which makes use of solar energy to generate electricity will be able to supply water to various parts of the village in a cost effective and energy efficient manner.

The proposed system of solar pump will use sun as a renewable energy source which has environmental as well as social benefits considering that solar energy is available in abundance and its use does not have any harmful impact on the environment. Therefore, it becomes economically viable to use it for technical implementation of the proposed idea.

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2. FOOD PROCESSING UNIT:

NAME OF PROJECT: Development of integrated multi size semiautomatic Food Processing Unit

VILLAGE NAME : Mundhe Tarf Savarda

After a thorough study and analysis of the problems faced by villagers and suggestions they presented, the team of UBA took a decision of establishing food processing unit in Mundhe Tarf Savarda village, which will help them solve their economic instabilities and help them become self-reliant. The region in consideration i.e. Mundhe Tarf Savarda (dist. Ratnagiri) has a great production of mangoes nearly 40,000 to 50,000 in number, that are harvested during the period of late June, the time by which market is already flooded with variety of mangoes. This causes a decline in the market price of the fruit resulting in disuse and wastage of the mangoes produced.

The Mango Food Processing Unit Project aims to utilize mangoes that get wasted every year and sell them commercially by using various processing methods such as pulping which would help people become self-sufficient and economically stable. This project focuses on implementing a mango processing unit including mechanisms of washing, cutting/sorting, pulping and preserving the final product. While the preserving unit will increase the shelf life of pulp by adding sugar as a preservative; methods such as stirring, heating, cooling and vacuum sealing by canning or bottling process are being worked upon. Presently, the pulping of mangoes is carried out in the village but on an individual level by a few farmers.

The implementation of this project would benefit the village community and bring about a change in their lives for good by increasing the shelf-life and market value of the fruit. Along with, it also guarantees employability for the local villagers by working on daily wages. Therefore, UBA Cell, RGIT expresses the interest of installing mango processing unit in Mundhe Tarf Savarda, Chiplun, Ratnagiri.

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3. DIGITALIZATION OF SCHOOLS:

NAME OF PROJECT: Developing a Digital School Management System

VILLAGE NAME : Mundhe Tarf Savarda

Schools in concerned village carry out their administration process manually which involves collection and storage of data about students, admission of new students, issuing mark sheets and essential certificates etc. Separate books are used for maintaining records for each student and are updated manually to keep them up to date. This is a tiring process that takes up lot of time and space, involves a lot of paperwork which is difficult to handle. Another issue that arises is of data security and damage or loss of critical information due to mishaps, which are difficult to recover back.

The digital system would replace the need of paper and result in a robust and easy to use system that would require minimum maintenance. It would bridge the gap between teachers and technology enabling them to perform their day to day operations with much more accuracy and efficiency. The system does not require internet for its functioning which is the biggest advantage as it would enable the school authorities to manipulate and store data offline using database connectivity implying security measures and keeping the data safe.

NAME OF PROJECT: Developing a Career Guidance Webportal VILLAGE NAME : Mundhe Tarf Savarda

Mundhe Tarf Savarda is one such village, devoid of the internet facility where students lack exposure and guidance over what career path to choose in future. Currently, only the teachers are able to impart whatever knowledge they have about career options and higher studies. However, no one in the village is completely aware about the actual scope in different fields available for the students. The teachers are also in limited numbers and there are no external organizations or entities that can guide the students in this direction.

Career guidance is indeed important for each and every student, irrespective of him/her being in rural area or urban area. Hence, an idea of creating a web portal has been proposed that would throw light on various fields of education, job opportunities, recruitment procedures etc. and make this kind of information easily available and accessible to the students and teachers of the village. It would be an offline portal which the students can access without internet connection also. It will be very user-friendly and an easy to understand application. So, the students don't face any problem and would be willing to use it.

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GALLERY







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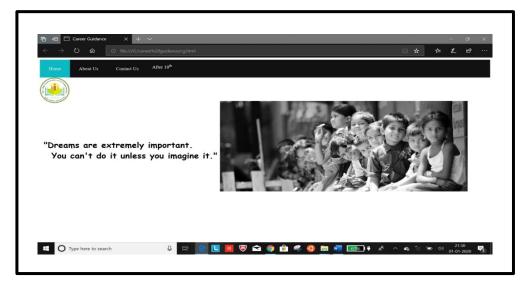
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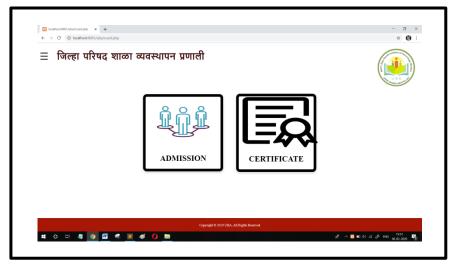
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OUTCOMES

- Completed the planning phase of the desired projects and started approaching funding agencies
- Rollback mechanism was created within the institution therefore delivering wider experience to the students
- Details of the project were presented to the villagers and discussed the importance of development in the villages
- Sparked the interest of the interns in making a valuable contribution to society.
- Furthermore, intervention can be done in development of village through Bachat Gat, localities and various government initiatives.