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MANJARA CHARITABLE TRUST
RAJIV GANDHI INSTITUTE OF TECHNOLOGY, MUMBAI
UNNAT BHARAT ABHIYAN CELL
Wholesome Rural Development Through Techno-Social Initiatives

IMPLEMENTATION OF RAIN WATER HARVESTING

VENUE: INDAPURWADI-RICKTOLI, RATNAGIRI, MAHARASHTRA

17TH MAY, 2019 TO 19TH MAY, 2019



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INTRODUCTION

Ministry of Human Resources Development (MHRD), Government of India has launched the national programme called Unnat Bharat Abhiyan (UBA), with the vision to involve professional and higher educational institutions in development process of rural areas in our country to achieve sustainable development and better quality of life. Indian Institute of Technology, New Delhi has been designated to be the National Coordinating institute by the MHRD. Our institute is one of the active participants for UBA. RGIT has adopted a cluster of five villages in Ratnagiri district.

Our team visited Riktoli and Indapurwadi and conducted household survey in the month February 2019. After the collecting the data, it was observed that the people living in the village are facing water scarcity during every summer season. So RGIT UBA decided to conduct an on-site survey of Riktoli and Indapurwadi for Rain Water harvesting which was done in the month of March 2019 by a team of Four members guided by one of the professor from RGIT, Mumbai. After positive reply from villagers, meeting was arranged with them implementation of the Rain Water harvesting project was scheduled to be in the month of May 2019.

OBJECTIVES:

- ❖ To interact with the villagers regarding the issue faced by them on a regular basis.
- ❖ To develop interest of students in technical domain with demonstration of small technical project.
- ❖ To maintain and build strong relationship with the villagers.
- ❖ To implement Bore well recharge pit by conventional digging methods.
- ❖ To get the work done by villagers for the villagers.


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BRIEF OVERVIEW

Unnat Bharat Abhiyan Cell of Rajiv Gandhi Institute of Technology, Mumbai conducted a survey for implementation of Rainwater harvesting project on March 30, 2019 at Riktoli and Indapurwadi with the team of 5 members from UBA Cell, RGIT. After that a meeting was arranged in our college on April 4, 2019 with the migrated villagers who are settled in Mumbai.

On May 1, 2019 meeting was arranged with the villagers of Indapurwadi for the planning of implementation of Bore well recharging. So, the date fixed for the actual implementation which was scheduled to be May 17th-19th, 2019. On May 17, 2019 Prof. Narendra N. Bhostekar from Mechanical Department reached at Indapurwadi. On the next day survey was performed of the bore wells present there which were completely empty. There are two bore wells of 350 feet and 600 feet, one of them was empty and the other one was not in working condition as it was destroyed due to conflagration as stated by Villagers. Since the equipment's were not in working condition so we, along with 10 villagers present there decided to purchase the equipment's from Chiplun. For the restoration the equipment's purchased were 1.5 HP motor, control panels by the funds provided by RGIT, Mumbai. And Pipeline (300 feet), electric cables (300 feet), installation charges and the polythene bags were purchased by Villagers of Indapurwadi. On May 19, 2019 the actual recharging of bore well was done by using conventional digging method with the help of villagers. We dug a pit around the bore wells and drilled some holes around the pipe and covered it with polythene bags for the filtration. After successful implementation of recharge pit and the necessary equipment our visit was concluded. As it was implemented in May 2019 so the results will come in the summer of 2020.

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(Moments during implementation of Rain Water Harvesting)

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OUTCOMES:

- ❖ Successfully implemented Rain Water Harvesting project in Indapurwadi.
- ❖ Our students got an excellent opportunity to work with villagers.
- ❖ Bore wells equipped with the necessary equipment.
- ❖ During this project RGIT UBA Cell established good relation with the villagers.
- ❖ Problem solving ability of the students is developed.