



Criterion 7- Institutional Values and Best Practices

Key Indicator- 7.2 Best Practices

7.2.1 Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual

Best Practice-I

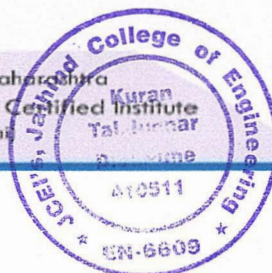
1. Title of the Practices – Farmers Connect through Technology

2. Objective of the Practice

- To make a farmers aware about modern agricultural invention and motivate them to use it
- To minimize the efforts of farmer.
- To help the farmers to solve problems related to agricultural work
- To establish a relationship between the college and surrounding community.
- To increase overall income of the farmer with minimum investment.
- To develop entrepreneurial skills in students.

3. The Context

Agricultural sector is a back bone of our Nation. Implementation of modern technology in agricultural sector is need of today's era. Most of the rural community students who are from agricultural family background are studying in our institute. Keeping local needs in mind, the institute has introduced best practice of agricultural projects. Institute organizes a conference to present student's agricultural projects and papers. Students make modification in their agricultural based project as per farmer's suggestions and need. Parents and Farmers from nearby areas are invited to see the working model of the projects. Implementation of the Technical knowledge of students in agriculture sector will get increase by involvement of farmers. To achieve the excellence in agriculture, proper survey, planning, manufacturing, testing and identifying corrective measures has to be follows.



4. The Practice

Agricultural sector requires more man hours and extensive labour work. The institute tries to overcome this problem and tends to fulfill need of the farmers by implementation of agricultural equipment at its best level.

Institute encourages student's involvement in agriculture sector to know-how the problems facing by the farmers.

Institute permits students for sponsored agricultural projects in every year with the support of agricultural industries and Firms.

Institute has signed the MOU with major manufactures and utilizers in agricultural equipment like Baliraja Agrotech, Otur, Shri Vaghnhar Sugar Factory, Dhalewadi and Krushivardhan Agrotech Pvt Ltd, Pandharpur for agricultural projects sponsorship.

Institute provides technical support to the farmers especially of the surrounding areas to solve the problems related to agricultural work. The professors of the department or the external experts visiting to the department give the useful suggestions to the farmers. The institute conducts extra awareness sessions for final year students to guide farmers about agricultural innovations in farm equipments. For the preparation of project model and papers, institute provides faculty as an internal project guide also.

Students had developed various working models which are benefitted to farmers. These projects reduced manpower requirement as well as man-hours in actual field. Few of these projects are self-explanatory about their working:

- Engine operated cycle weeder with multiple tools – These machine used for sowing, harvesting, mowing, ploughing, making beds, adding and leveling soil.
- Combination of seeding, fertilizing and sprayer planter- Machine is highly suitable for mechanized application of seeds, mineral fertilizer, Chemical accounts and compost.
- Design and development of onion harvester- Onion harvester design an earth separation mechanism to dig up the onion with soil on their roots, remove the soil and transfer them to tray.



- Design & Development of Crop Harvester- This is a mechanical cotton picker machine that automates cotton harvesting in a such a way that reduces harvest time & maximizes efficiency.
- Design & Development of Corn Sheller Machine- This project is about the idea of creating and machine for corn peeling and shelling machine, having compact size, more production rate and provision for separation of cobs and shells from one side at appropriate height and corn seeds from another side.
- Design & Fabrication of Sugar Cane Seeding Machine- Cane sowing machine is a device which helps in the sowing of canes in the desired position hence assisting the farmers in saving time and money.

5. Evidence of Success

- Around 30% self-motivated final year students in last five years involved in agricultural projects which are helpful for the community at satisfactory level. These students work placed role model for their successors.
- Agricultural Sponsored Project Company started production of “Engine operated cycle weeder with multiple tools” and “Combination of seeding, fertilizing and sprayer planter” as a new product in market which is created by students and it is also purchased by farmers for agricultural work.
- Baliraja Agrotech pvt ltd and Krushivardhan Agrotech pvt ltd manufactured and commercialized agricultural projects of our students like Engine operated cycle weeder with multiple tool and Combination of seeding, Fertilizing & Sprayer planter for low HP Tractor equipment.
- This activity developed entrepreneurial skill among these students and also motivated by Startup India and Make in India government initiatives.
- Institute always supports to student for participating in Agricultural Project Exhibitions which are mostly organized by various institutes and organizations.

6. Problem encountered and resources required

- **Low awareness in agricultural project implementation.**



To overcome this problem, institute arranges expert lectures for relevant field, conferences and workshops.

- **Requirement to develop work place to manufacture these projects.**

Institute provides space for these type of projects and purchases required instruments and materials whatever necessary for agricultural projects.

- **Huge funds requirement for projects.**

Institute provides financial support to student for purchasing material and also provide assistance to participate in Project Exhibitions.

