

**UNIVERSITY OF AGRICULTURAL AND HORTICULTURAL SCIENCES,
NAVILE, SHIVAMOGGA**



Success Story on
“Establishment of Farm Machinery Workshop cum Service and Training Centre”



Dr. Sharanappa Jangandi,
Professor (Agricultural Engineering)
ZAHRS, Hiriyyur, UAHS, Shivamogga.

Title - “Empowerment of Farmer through Mechanization”

1. Initiatives

A thousand mile journey begins with a first step, so our project was initiated by the purchase / To introduce suitable equipments/ machineries for pre and post harvest mechanization under dry land agriculture based on crop specific requirement to suit small and marginal land holdings, the workshop required equipments like lathe, tractor drawn implements, and field testing equipments etc., also purchased to modify and develop equipments based on their feedback and techno economic feasibility, Then activities was planted in the following methodology,

- Establishment of custom hiring center for dry land agriculture crops with special reference to resource poor farmers ,
- Procurement/development/modification of pre and post harvesting equipment and machines that specially suit for present day farmers,
- Identification of region, crop and land specific equipments and machineries for custom hiring centers
- Popularization and commercialization of equipments /machineries through pamphlets, video, mass media and workshops/seminar/krishimela,
- To record and analyze the impact of mechanizes cultivation

2. Beneficiaries

- Custom hiring center was established in ZAHRS, Babbur farm, Hiriur, Brahmavar Centre and Shivamogga, which provides the equipments for farmers as required at a very low rent.
- Rural Youths and Manufacturer get acquainted by training and demonstration.

3. Challenge

Short coming are the part and parcel of the today’s spanned life, but these short coming of the farmers are the target point of agriculture engineering , the trouble shooters for our play was the lack of knowledge about technology, lack of understanding found in farmers leading to difficulty in conveyance of the matter about the mechanization, lack of

availability of the advanced equipments for multiple operation at a time and set back of the farmers in their economy which resists the affordability on the equipments.

Our project was put forward for the following constraints like:

- Lack of awareness on utilization of modern efficient equipments to suit their requirements depending on his land holdings.
- Poor purchasing ability towards costlier equipments and machineries.
- Non availability of required farm equipments/machineries to suit precision farming under small land holdings.
- Poor knowledge on the source and mode of availability.
- High initial cost of equipments and Lack of knowledge in the aspect of operation.
- In a crop season, on the onset of rains all the farmers will take-up sowing at a stretch to exploit the available moisture, there farmers in general face scarcity of labour/farm equipments
- Poor knowledge on the source and mode of availability

The challenge accepted by us through this project taken a strong and determined step in our play to eradicate these lacunae, through “establishment of farm machinery workshop cum service and training center”, was won by favoring the farmers in terms of cost-labour-time saving services, economic strength by increasing the yield, standard of living,

4. Solutions

- Savings in Labour and money, timeliness of operation and area coverage in a short period by providing low rent basis.
- University of Agricultural and Horticultural Sciences, Shivamogga extended support in infrastructure and skilled training programmes for needy formers.
- The conducting awareness programmes on functional working of the advanced machineries is through demonstrations.

5. Impact

Since, the A-Z Mechanization in Groundnut is available our station and farmers are benefited from it through custom hiring center and also demands for equipments like castor thresher, decorticator , cycle weeder, bund formers tamarind deshuking and tamarind de-

seeding machines, A-Z mechanizations in onion is under progress, role of engineering in agricultural field is important it should reach the resource poor farmers.

Mechanization in Groundnut

- Land Preparation
- Sowing
- Weeding
- Plant protection
- Harvesting
- Threshing
- Decortications
- Grading



Demonstration of Groundnut Digger
Intercultural Operation



Demonstration of Tractor Drawn



Demonstration of Power Operated and Hand Operated weeder



Demonstration of
Combine Harvester

- Custom hiring center was established in ZAHRS, Babbur farm, Hiriyur



- Employment for rural youth by creating awareness about modern technology applications in agriculture through training camp, seminars and demonstration,

