



# Irrigation and Farm Machinery unit of Rural Development Academy

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## Introduction

Irrigation and agriculture Machinery unit of RDA is a support service unit in the demonstration farm which providing activities of irrigation pump and agricultural machinery technology dissemination and development inside and outside of RDA. Total agricultural water supply system of RDA is covered by four bore-hole pump and irrigate in the farmland using buried pipe system which ensure proper use of water resources. This unit is covered 80 acres of farm at RDA. The main role of the unit is helps to others units for land preparation, tillage operation by tractor and power tiller, rice planting by rice transplanter intercultural operations by modern equipment's, pre and post-harvest processing by reaper and thresher. Also, two mini combine harvesters are recently added to the units that largely helping to process agricultural crops as contact basis inside and other sides of the RDA. Modern agricultural machinery and equipment like combine harvester, rice transplanter, sprinkler and drip irrigation, power tiller, tractor, Reaper, Thresher are used introduced in this unit which has greater impact on farm development. Irrigation and agriculture Machinery unit of RDA is not only covered land preparation works but also contract basis rent works have done to many farmers in Bangladesh.



### Types of equipment:

- Tillage Machineries
- Intercultural operation machineries
- Harvesting machineries
- Irrigation pump



## Activities of the unit

1. Provides regular assistance in land cultivation, irrigation, transportation of dung straw etc.
2. Cover irrigation water in the RDA and regular cleaning and maintenance of irrigation canals.
3. Rent agricultural machinery to other units of RDA.
4. Provides training on agriculture and farm mechanization technology.
4. Joint research collaboration with all units and different universities.



## Annual budget of the unit

Items	Gross income (Tk. in Lakh)	Expenditure (Tk. In Lakh)	Net Profit (Tk. in Lakh)
Agricultural machinery rent and Irrigation-2020-2021	6.23	5.33	0.90

## Prospect and challenges

- Renting irrigation equipments outside will increase the unit and income, in which case extra manpower is required.
- At the end of the project, if all the agricultural machinery is handed over to the unit, the unit will be rich because all machine are very old condition.
- The manpower is very low as compared to the past, so, additional manpower is required.

## Future planning

- Research activities will be increased by jointly working together with domestic and foreign organizations.
- Most of the machinery are very old, so new agri machinery will be purchased.