



# **ADAPTATION OF MODERN EQUIPMENT FOR SUSTAINABLE FARMING SPECIFICALLY IN RICE FIELD**

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### ABSTRACT

The research entitled "Adaptation of Modern Equipment for Sustainable Farming Specifically in Rice Field" aims to elaborate the main purpose of introducing modern equipment for sustainable farming in Brgy. Rizal, Municipality of Gubat, Province of Sorsogon. Specifically, it is hoped that this research will provide to the following research questions; What are the factors needed in making a transition from traditional farming to modern agriculture, Why most of the farmers in Brgy. Rizal uses traditional practices and tools rather than modern equipment and up to date practices, how thus modern equipment affect the natural process of farming. The descriptive research design will be used in this study. According to Martin Shuttle worth, descriptive research design is a scientific method which involves observing and describing the behaviour of a subject without influencing it in any way. The respondents of this study are the randomly selected rice field owners of Brgy. Rizal, Gubat, Sorsogon. In order to determine the descriptive qualitative data, a survey questionnaire, interview and observation will be used, which is composed of four questions.

The first question is does acquiring modern equipment saves money and effort than using traditional agriculture practices, another question is as a rice field owner which do you prefer, man-power and traditional practices or using modern equipment and up to date practices to increase production rate. The next question is, is there a change in time from planting to harvesting products using modern equipment compare to traditional practices and primitive tools. The number four question is does the size of your rice field matters when using modern equipment or it is also applicable to small farmers.

The following research instrument will determine the needed data that will answer the statement of the problem of this research.

According to the majority of our respondents, using modern equipment only means spending a lot of money and also they consider the fact that they don't know how to use these modern equipment. For them it is much more convenient to use man-power and traditional practices and some of the respondents said that modern equipment does not affect the process of farming but most of them said that there is no change in the time frame from planting to harvesting by using modern equipment.

Even in the era of technology most of respondents preferred to used traditional practices and primitive tools. The level of awareness of farm owners



about modern agriculture is very lacking. Lack of information about modern equipment that will obviously help our farmers are not totally or properly given.

Our study may conduct various seminar and training to encourage our farmers to engage themselves in modern agriculture. Continuous utilization of proposed seminar and trainings that can be great help to the rice field owners. Further studies may be conducted to supplement the finding revealed.

**Keywords:** Modern Farming, Sustainable Agriculture, Rice Farming, Traditional Practices, Modern Equipment, Agricultural Transition, Farmer Awareness

**Sustainable Development Goals:** 2 Zero Hunger, 9 Industry, Innovation, and Infrastructure, 12 Responsible Consumption and Production