

Different Agriculture Equipment Used in Indian Farming

Amol S. Ghadge¹, P.U. Shahare², Jatin Patel³, Sharad Patel⁴

Department of Farm Machinery and Power, Dr. BSKKV Dapoli.

¹Ph.D. Student Department of Farm Machinery and Power, Dr. BSKKV Dapoli.

²Professor & Head of the department of Farm Machinery and Power, Dr. BSKKV Dapoli.

³Technical Director, ASPEE Agricultural Research and Development Foundation, Tansa.

⁴Managing Director, ASPEE Agricultural Research and Development Foundation, Tansa.

ARTICLE ID: 014

Introduction

Smart farmers made by adopting modern agriculture smart Agriculture Equipment, increasing income most farmers in India do farming through traditional methods. Due to which they get less crop production. As a result, their income starts declining. At the same time, the farmer increases his crop production by farming with the help of modern resources and automatic farming equipment. This gives him a good profit which increases his income. Uses of this Agriculture Equipment will increase farmer production and profits Today, the farmers who are doing smart farming are making good profits by using new farming tools made with modern technology, which is increasing their income.

Agricultural equipment used for farming

1. Two stroke and four stroke sprayer pump (Agricultural Sprayer)

Agricultural sprayers used in agricultural work are available in 2 and 4 stroke spray pumps in the market. These have been launched in the market with some features. With this help, the farmer can easily spray insecticides on crops in his fields. Apart from this, they can also be used for the cleanliness of the environment. Talking about the price of 2 & 4 Stroke power supply sprayer, it is available in an affordable price range at Rs. 9,000 – Rs. 22,000. The price of 2 & 4 Stroke Sprayer Pump is very convenient and budget-friendly, also very easy to buy. 2 & 4 Stroke spray pumps, both come in high quality, but 4 stroke spray pumps have twice the capacity than 2 stroke spray pumps. Now let's talk about 4 stroke spray pumps, these are high capacity pumps which have twice the capacity of 2 stroke spray pumps. Rajsan – 89-1000, 4 stroke power supply spar is now available in the market for Rs 11,500 instead of 11,000, and Sparman-1000 power supply spar 12,000 for Rs 11,500. Thus,

the prices of both these 2 and 4 stroke spray pumps (agricultural sprayers) have been reduced significantly, which the farmers can avail.



Fig.1 stroke sprayer pump



Fig.2 4 stroke sprayer pump

2. Engine Driven Portable Agricultural Sprayer:

A special sprayer is an engine-driven portable sprayer in agricultural sprayers. It is also a useful sprayer used in disinfectant and hygiene operations. It is shaped like an electric motor. It can be placed comfortably in a low place. It has been launched in two categories with many attractive features. It has an engine-powered portable sprayer and the other is a disinfectant / sanitary sprayer engine-driven portable sprayer.



Fig.3 Engine Driven Portable Agricultural Sprayer

There are different rates in their market according to their special features, capacity and brand. With the engine-powered portable sprayers, it comes in a reasonable price range

of Rs. Rs. 50,000 – Rs. 1.25 Lakh. This price range considers every model of Engine Driven Portable Agricultural Sprayer.

3. Mini sprayer:

These sprayers are proving to be extremely useful for small farmers due to their manual operation. It costs neither engine nor electricity. For this reason, every small farmer can use them. There are many types of mini sprayers in the market which are available in 1.2 liters to 100 liters. The farmer can buy it from the market at very cheap prices according to its utility. These mini sprayers help you to reduce the work of spreading the water from hands. With the adorable and handy design of mini sprayer, its price comes according to tank capacity. Here is the table below.

Tank capacity of mini sprayer	Price (low to high) all India
1 liters to 100 liters	Rs. 2000 to Rs. 43,110



Fig.4 Mini sprayer

4. Trolley Pump:

The trolley pump is more useful for those farmers who have a lot of land for cultivation. In this, disinfectants can be sprayed in a short time. This will save the labor and time of the farmers and increase the yield and increase the profits. This pump is definitely expensive, but its quality and usage are worth noting. The best trolley pump available in the market. It is a portable and trolley type spray pump. According to its best features, no one would compromise with its price. It comes at a very affordable price range which starts from Rs. 19,000* up to Rs. 60,000*.It may vary depending on the model variants and horsepower category.

**Fig. 5 Pump****5. Trailer sprayer:**

Trailer mounted sprayers or tractor mounted sprayers are those used for mounting trailers and tractors. The farmer should choose this in view of its necessity and ease of use. There are many types of tractor sprayers available in the market which is extremely useful. According to its features and use, trailer sprayer price starts from Rs.1,00,000* to Rs. 3.00 lakh*. This price can vary on the brand, model, weight and tank capacity.

**Fig.6 Trailer sprayer****6. Combine harvester:**

It is used for the processes of farming such as reaping, threshing, and winnowing. Combine Harvester is the best machine that is used to harvest all types of crops like barley, wheat, rye, oats, corn, and much more. To increase farming activities a combine harvester is a perfect option for you. The price of John Deere combine harvester starts from Rs. 24.5 lakh* to Rs. 28 lakh*. It may vary according to the model and region. Find the best Agriculture Equipment as Harvester for your farming needs

**Fig.7 Combine harvester****7. Cultivator:**

It is one of the most essential farming machines that are used for tillage activities. It is the oldest farming machine that has been used many of the years. It is used to stir or loosen the soil or either to eliminate weeds and to provide drainage. The cultivator is used by an attachment from a tractor or self-propelled. The price of a Mahindra cultivator with 9 tynes is very affordable and every cultivator price starts from Rs. 19,000* to Rs. 80,000*. It can vary on the brand, No. of tynes, Hp and weight.

**Fig. 8 Cultivator****8. Roto Seed Drill:**

It is one of the popular machines for farming that is made with the combination of Rotary Tiller and Seed Drill. It is used in almost all over India for the purpose of sowing seeds of wheat, barley, grass seeding. This farming machine is easy to operate and also gives fewer maintenance expenses. It has an easy operating system of changing seed varieties with less wastage of seeds. Its price starts from Rs. 1.4 lakh* to Rs. 1.37 lakh*. It also can vary on its tank capacity, HP, material and brand. This machine is economically friendly so every farmer is able to buy this machine at their targeted budget. This is the best Agriculture Equipment for farmers.



Fig.9 Roto seed drill

9. Manure Spreader

Manure Spreader is a machine that is used for agriculture purposes. In agriculture purposes, its main work is to distribute manure in a field as in a form of fertilizer. It is not working on its own engine but it is towed behind a tractor. This machine of agriculture is not so expensive; it is available at an affordable price starts from Rs. 55,000* to Rs. 5.00 lakh*, so every farmer can buy it in an easy way. It may vary on its capacity, brand, product type and material. In the price range, this farming technology can be adjusted in the budget of every farmer because its rate is cheaper.



Fig. 10 Manure spreader

10. Rotary Tiller:

It is an important farming machine to perform all the activities of agriculture and using this farmer can easily increase their farming activities is the simplest way. It has curved tines that are connected to a rotating shaft to dig the soil and make it ready for planting. This machine is economical in the budget so there is no possibility to don't use this machine in farming. It's comfortable to buy a brand new Rotary Tiller, due to its low price. Its price starts from Rs. 49,900* to Rs. 1.25 lakh*. It also can vary on its model, material, capacity and

size. All farmers can buy this machine at their favorable budget line. Here we are providing top 10 Agriculture Equipment.



Fig. 11 Rotary tiller

Conclusion:

The farm machinery and equipment comes with high end technology which helps to reduce labor work. Also agricultural equipment's works done in stipulated time and reduced the unnecessary farming time. Implements used in agriculture can boost agriculture production and increase the markets food production.