

FARM MACHINERY –

Farm machinery refers to complex machine and implement used for carrying out farming operations. Examples includes: Tractors, Bulldozer, Sheller, Dryer, and Incubator. The most important implement or machines in the farm, which is used for operating many farm implements is the **Tractor**.

Examples of this Farm Machinery are:

- i. Tractor
- ii. Bulldozer
- iii. Sheller
- iv. Dryers
- v. Incubators.

These farm machines and implement can be classified into three groups based on source and generation of power as follows:

(a) **Primary Machines:** These are the machines that can supply power to other machines and implement for their farming operations. An example is the Tractor.

(b) **Secondary Machines:** These are tractors coupled or mounted machinery or implement used for different operations. Examples are Ploughs, harrows, ridgers, planters, harvesters, and sprayers.

Intermediate Machines: These are powered by a tractor, electricity, or an electric generating set

i. **Tractor:** It is a powerful multi-purpose farm machine capable of using its power to perform various farm operations. It has internal combustion engine with either two or four strokes. It transmits power through the power take-off (PTO) shaft, or by means of a moving belt connecting the tractor to another machine.

A draw bar attached to the tractor is used in coupling other farm implement to it.

Tractors are of different types:

(a) **Two-wheeled tractor:** - These are tractors with two wheels, used on small farms and in vegetable gardens. They are operated by a man walking behind them and used mainly for light cultivation.

(b) **General – purpose tractor:** - This is the most common type of tractor. It has power rating of between 30 to 60 horse powers.