

BIO (ORGANIC) FARMING IN AGRICULTURE A NEED OF THE NATURE**AJAY KUMAR SINGH¹**

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ABSTRACT

Organic farming or Bio farming means the secrets of nature discovered by science and the use of boards in the agricultural areas to be durable at a reasonable level so that the nature of sustainable agriculture can be given. There is no use of chemical fertilizers and insecticides. Whole management is done by natural friend techniques, it is a natural rule that changes It takes time, organic farming is a similar kind of cultivation, which has been growing rapidly in the last two decades. We all want to be happy next generation, for which we always try. But what are we leaving in inheritance for the future generation? If this is the case of the current advanced farming then for the next generation, we will leave such poisonous system in the land and environment on which the crop will become obsolete. 'Organic farming' is also a remedy for changing life-styles. Scaling up vermi composting and other sustainable agriculture practices will help increase the amount of organic matter in the soil and increase the water retention capacity of the soil in making agriculture sustainable and productive. These tiny creatures break down dead matter recycling elements that plants use to grow. Many other play a vital role in the food chain decomposing dead organic matter and thereby recycling essential elements in a form that plant can use. In fact, organic farming is exactly what is in accordance with our soil and climate and through the resources available to us and in which all the inputs should be utilized in balanced use, so that they can be available for a long time. To adopt organic farming, Once again, our traditions and old experiences and methods have to be re-understood and include the good knowledge available in science and increase its productivity. Manure, as used for farming can make much more uses. According to Science organic fertilizers make and uses is Broad level with modern technology which the object of research.

KEYWORDS: Organic Farming, Vermicompost**Why Organic Farming**

Crop demand also increased due to excessive use of fertilizers, so that tube wells are dug to give more water, the good crop made in the canals is done in the right amount and on time irrigation, but due to excessive use of water the 'Green Revolution' (Green Revolution) came, but in many places the groundwater has reached the lower surface of the ground.

Extreme use of fertilizers has also increased outbreaks of insects and diseases, for example it has been proved that by increasing the use of fertilizers, the outbreak of 'Hairy Caterpillar' increases in Soybean. Today the situation is that 10 -15 Even after spraying, the insect does not die and the crop is destroyed, it is a live example of cotton 'pink belt'. In the end, the oppressed farmer commits suicide by drinking that pesticide cup.

Damage from chemical fertilizers and pesticides may occur gradually if the use of the tractor is not for agriculture, but the sector has made cultivation like "neem grated bale gourd". All the work is done by the tactics; In a cement-like layer of 25-30 cm below, it has been proved by recent experiments that the humus available in the ground by frequent plowing is destroyed very rapidly.

Use of Mulches

The weed seeds, or crop residues removed from the farm can be made by placing them on the ground, its thickness should be 3-5 cm, for this it is either layered between the rows of the crop or in the entire farm. Between the planks, the special solution is the species of sowing of the crop in the queue, Palwal gradually becomes compost so that one or two times a new plate should be laid in the year, the use of either plastic or polyethylene sheet. In the palar, the kayakee can reduce the air circulation in the land and increase the temperature in the soil, beneficial bacteria can die, but laying palvars also reduces the problem of weed.

Vermicompost

Indigenous earthworms are always found in the farm, which are called farmers' friend, but the number of earthworms due to the poison of fertilizers and insecticides has decreased in the land. Everyone knows that organic fertilizers lying in the underground earthworms farm and eating the crop residues and make small quantities of quality like pistachios, they also help in the expected increase of bacterial fungus, protozoa, actinomysis etc. in earthworms. Around 4000 species of earthworms are found

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in the entire world and there are about 500 species in India. Two isiniya of Earthworms, Flotinda and Ydllaus are the most suitable species of Vermi-Compost, per hectare by transplantation in pre-drift and grain crops. Tons, 7.5 tons in oilseeds, spices and vegetable crops - 12.5 tons should be given, while fruits are given 5 kg per tree before tree plantation and Gumlas should be 10% of the soil weight and 2 kg / m2 in lan.

Vermiwash

The 'Ark' of earthworm manure is called Vermiwash, in a blank container, it can be made by sprinkling a bit of water regularly on the compost made by earthworms, Vermiwash's vegetable-spraying on the leaves of flowers, flowers and fruits look good and also the disease Seem less.

Bio-dynamic Farming

In order to utilize the energy stored in the universe, in order to use it in the field, all works of farming are done according to bio-dynamical almanac. It is used to make fertilization with the help of bacteria.

Agnihotra Farming

It is also called 'Vedic' or 'Rishi' farming. It is used in the field in the morning and evening havana. The ashes of the havan is used in all the processes of farming i.e. preparation of land, seed treatment, disease control etc.

Uses of Bio-Fertilizers

Various beneficial bacteria in the forests keep their families up to the proper level, but in farming, they have almost destroyed them with the use of chemical fertilizers and pesticides; some other factors such as the cultivation of tractors and biological products in the land. Deficiency has also helped to destroy them, so increasing the number of these bacteria is necessary for the cultivation of healthy and low cost. These bacteria are airborne Establishment of Reason (Rhizobium and *Azotobacter*, *Azosprillum*, PSB-PSB and VAM -VAM Ajola), The phosphorus present in the land, making the pond available and also releases many types of harmonics and chemicals which increase the strength of the plant and fight against the diseases. Nowadays, these bacteria are also used by the fertilization of composts for convenience. Or have been successful in making more types of bacteria available in the same packet like Azote-N + Bacteria-Bacteria (PSB-Phosphorus Solublizing Bacteria).

Table 1: The amount of neutron received from the rhizobium and the savings of urea

Crops	Received nitrogen per hectare(kg)	Urea savings per hectare (kg)
Soybean	60-80	150
Mercurial diaphan (Species of Sasbaniarustratea)	100 -120	215
Moong / urad / tur	50 -55	110
Peanuts	50 -60	110
gram	85 -110	200
peas	55 -70	110
Lentil	60 -65	130

NADEP Compost

This method was developed by Shri Narayana Devrao Pandhari Pandey, Village-Pusad District-Yavatmal (Maharashtra), N-0.75 - 1.75%, P-0.7 -0.9%, K-1.2 - 1.4% and Micro-Elements This manure is prepared in 100 -120 days in pulses / oilseeds crops 5-6 tonnes of paddy / wheat in wheat, 12-15 tonnes / hectare in vegetable crops is given before sowing.

Green Manuring

Although biological fertilizers (compost, vermi-compost) are able to meet the crop requirements, many times the availability of organic culture is less and the mode of Khali is done in the animal feed, so the land And green manure is a good solution to meet the crops requirements, this has the following additional benefits:-

1. Large amount of nitrogen (40 -60 kg) and 75 -80 kVant biodiversity per hectare is found in 30- 45 days and the availability of other elements also increases.
2. Improvement of saline and alkaline soil.
3. The physical condition of the soil improves, i.e. organic cultivation, soil water hydrocarbon improves
4. With green manure many weeds also grow but do not grow, so less weeds grow in the later crop.

Table 2: The major green manure crops and the amount of organic matter available in them

Crops	Sowing time	Seed rate kg / ha	Quantity of green material / ton	Percentage of nutrients		
				Nitrous	Phosphorus	Potash
Clarinet	April-july	80 -100	18 -28	0.75	0.12	0.51
Dhaincha	April-july	80 -100	20 -25	0.62	-	-
Loony	April-july	40-45	15-18	0.71	0.15	0.5
Urad	June- July	20 -22	10 -12	0.85	0.18	0.53
Coriander	June- July	20 -22	8-10	0.72	0.18	0.53
Guar	April-july	30 -40	20 -25	0.34	-	-
Sanji	October-December	25-30	26 -29	0.51	-	-
Barseem	October-December	20 -30	16	0.43	-	-
Pea	October – November	80-100	21	0.36	-	-

Crop Rotation

Proper crop cycle should be adopted for proper use of water and in the three-four year crop cycle, half of the crops want more water and want lesser water, like once the rabi wheat and other mustard seeds are taken or the other crops should be harvested. To be taken as crop circles online. Thus, the balance of water in the land will remain medicinal plants are also less water-sinners, so they must be included in the crop circle.

Follow Farming Organisms (Animals, Birds, Fish, Bee)

Farming is not only a relationship between man and crops, but it is supported by every organism found in nature, it is called Food Chain in ecological science, and many food chains are combined to make food web. By which all the organisms get food and all help in running that order. In simple language it can say that the grass grows with soil, it is deer The lion is eating and after the death of the lion, the other creatures and the bacteria mix it again in the soil. This is a cycle that breaks a terrible imbalance, the use of chemical fertilizers and insecticides has led to the breakdown of this food chain. And the result is in front of everyone. The food that was first cultivated in

the field was given to the cattle or fodder animals. During the crop, many kits and birds also used They used to get food, straw or fodder was given to the animals, while growing crops, insects and birds on many kites and birds were also able to get their meals, while eating pests on many bird crops, honey is also known as Makkhan And used to pollinate which made the fruit good, it is also considered today's science.

Neem Village Pharmacy

India has been rescued from 'Neem Patent' America's WR Grace Company and found again in the year 2005 (March), the use of neem oil, products, bark-patties, Khal etc., which is a ketnasi.

Indicators of Organic Farming

Organic farming is one way to rejuvenate the natural food cycle. Coming into the field of bees-bee, kachua, paddock, insecticides, birds etc. The signal is that the 'organic farming' program is going on well. Land of all these creatures with agriculture - Adherence to the climate is not only the best use of resources available but in the bad weather conditions (famine, flood, pala, lu) when the crop yield is low, these subsidiary farmers In the financially

located situation, there is a scare in Chennai, Chennai (Tamil Nadu) near Dr. MS The Swaminathan Research and Development Institute has introduced a good example by connecting with the cultivation of fifteen such subsidiaries (animal husbandry, fish farming etc.)

Use of Weeds as Medicinal

Most of the weeds have medicinal properties such as for bunions and puranovna urinary diseases, in the root-arthritis of nemagmotha, in the leaves of arthritis (Vihoriviadiffusa) in rasna leaf-arthritis (Sat) in jaundice, inverted chirchita / Or latrine (achyranthusaspera) in womb in womb, etc. are weed with many types of medicinal properties, so the best way is to do this before weeding-fruit The Ikllkar and drying can be sold to the seller of medicinal plants. Many weeds such as BathuaDua, Datura etc. come under the control of the diseases of keto It should always be noted that the control of weed should not be done with chemical weed waste, because it contains pollution in the land and water for a long time, whose relics have a detrimental effect on human and animal health.

IPM- Integrated Pest Management

The main points of IPM performance is:-

1. Experiments in the use of coordination of several means, use of interceptive types and other synthesis, technological means, biological means and chemicals.
2. Chemicals should be used only when it is necessary that chemicals should be used only when reaching a fixed number / density of different insects and diseases.
3. Less expensive and effective means to be adopted
4. Protects the environment and the environment from being contaminated.

Can say IPM in Kishan language. -'Catch it and hit 'or' Hit it with love Appropriate 'IPM' technology for different crops should be adopted. For this, research work is going on in various agricultural universities and ICARs. For the success of organic farming in the country, we will have to adopt our patriotic / indigenous technology knowledge (ITK-indigenous / inherited technical knowledge) in the fields of crop / crop production. If we take a look at the bitter experiences in the past 4-5 years, we are now getting distracted from the harm-health, ecological soil, etc. through pests / diseases of weed chemicals. Be aware that India exported wheat to Iraq in the year 2000, exported to China from Malihabad Lucknow

(UP) in 2003 and potato was exported to Pakistan in 2004, which returned to India due to the use of three items of insecticide Given. They have to learn from us and adopt organic farming. Hope is not only in the future of our country but the future of organic farming in the world will be bright.

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