



Organic Farming: A brief summary

Suman Kumari, Email Id- sumanmathur989@gmail.com

Abstract – The furtherance of technology and progress in agriculture has empowered our country to furnish food security. But this technology negative effect also. That types of technology imbalanced our ecosystem. Under such status, dangerous earthly concerns have been verbalized regarding the use of heavy chemicals, pesticides and fertilizers in agriculture in footing of their negative effect on the human health and the environment. The chance of ‘Organic Agriculture’ is the only solution to nurture the land and to reproduce the soil by going back to our traditional method of farming *i.e.*, free from chemicals, pesticides and fertilizers. This is a potential step for sustainable development by adopting not to use chemicals, synthetic materials, pesticides and generate hormones to produce high nutritional quality food and in appropriate quantity. This article provides an overview of organic agriculture in India.

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Introduction: property development has trapped the imagination and course everywhere the planet. property agriculture is pressing to achieve the aim of property development. in line with the Food and Agriculture Organization (FAO), property agriculture "is the roaring management of resources for agriculture to satisfy alteration human wants. All definitions of property agriculture lay down accent on care Associate in Nursing agriculture rate of growth, which might meet the demand for food of all living things while not exhausting the fundamental resources. Organic farming is one amongst the fundamental things to found to satisfy the objectives of property agriculture. several techniques utilized in organic farming like inter-cropping, mulching and integration of crops and eutherian mammal don't seem to be alien to varied agriculture systems as well as the normal agriculture practiced in recent countries like Asian country. However, organic farming is predicated on numerous laws and certification program, that forbid the employment of just about all artificial inputs, and health of the soil is recognized because the central theme of the tactic. Bed effects of contemporary agricultural ways not solely on the farm however conjointly on the health of all living things and therefore on the setting are well documented everywhere the planet. the employment of technology, significantly in terms of United States|the utilization|the employment} of chemical fertilizers and pesticides all around us has persuaded individuals to assume aloud. Their negative effects on the setting square measure manifested through erosion, water shortages, salivation, soil contamination, genetic erosion, etc. Organic farming is one amongst the wide used ways, that square measure thought of because the best ways to avoid the unwell effects of chemical farming. There square measure several definitions of organic farming and also the one given by the USA Department of Agriculture (USDA) is read the foremost logical and rigorous. it's outlined as 'a system that's planed maintenance|and maintenance} to provide agricultural product by the employment of ways and substances that upkeep the integrity of organic agricultural product till they reach the buyer. this is often accomplished by victimization substances, to satisfy any special fluctuation among the system therefore on maintain long run soil biological activity, guarantee effective peak management, recycle wastes to come back nutrients to the land, offer attentive look after stock and handle the agricultural product while not the employment of extraneous artificial additives or process in accordance with the act and also the laws during this half.

Objectives:

- To understand the advantage of Organic Farming.
- To utilization of best natural resources.
- To understand the property development.
- To analyze the issues and challenges in introduction of organic farming in Asian country.

Methodology:

The paper is predicated on secondary information. data from literature on the historical evolution of the organic farming and also the progress it's created each in Asian country and abroad collected from the printed sources just like the websites of the eu Union countries.



Need of organic farming: Due to extend of population our compulsion would be not solely to stabilize agricultural production however to increase it more in property kind. the planet has accomplished that the inexperienced Revolution'with high input use has reached a upland and is currently sustained with fall come back of falling earning. Thus, a natural balance has to be maintained in any respect price for existence of life and property. the plain quality for that may be a lot of applicable within the gift era, once these agrochemicals that square measure generate from fuel and don't seem to be regenerate and square measure weakened in accessibility. it's going to conjointly price heavily on our exchange in future.

The key characteristics of organic farming include:

- Protecting the long run fertility of soils by victimization organic matter.
- Providing crop nutrients indirectly victimization comparatively insoluble nutrient sources.
- Nitrogen self-direction through the employment of legumes and biological biological process, similarly as effective utilisation of organic materials as well as crop residues and eutherian mammal manures.
- Weed, illness and persecutor management relying totally on crop rotations, natural predators, diversity, organic maturing, resistant varieties and restricted (preferably minimal) thermal, biological and chemical intervention.
- The in depth management of eutherian mammal, paying full reference to their organic process diversifications, behavioural wants and animal welfare problems with relation nutrition, housing, health, breeding and rearing .

Benefits of organic farming: Organic farming could be a science of agriculture that uses the biological product for cultivating crops to regarding the character. Positive observe for organic farming are often helpful in each manner and might be extremely profit as compared to the normal. edges|the advantages|the advantages} of organic farming square measure huge and a few of the foremost benefits are often listed as:

- Practice of organic farming are often terribly price effective and also the cost are often reduced to over twenty five p.c as compared to the normal farming as just in case of organic farming you'll be able to cut the value incurred within the use of artificial fertilizers, herbicides and pesticides. additionally to it, the employment of organic farming reduces the erosion to fifty p.c resulting in the rise within the productive 5|to 5} times in five years.
- In Associate in Nursing organic farm particularly in lowlands, variety of life is supported and therefore rising the complete scheme and spring water that is sort of useful for agriculture practices.
- The nutritionary advantages of food big|grownup|mature} in organic farming square measure considerably superior than the crops grown by the opposite trendy standard ways.
- Organic farming retains the fertility of the soil for a extended amount of your time and therefore permits the farmers to use the land for a extended amount for cultivation.
- One of the foremost necessary advantages to the customers of the organic foods is that they contain no harmful chemicals, artificial flavors and preservatives in it because the use of artificial fertilizers, herbicides, fungicides and pesticides square measure fully restricted just in case of organic farming.
- The plants grownup in organic farms square measure a lot of drought resistant and thence square measure a new advantage for the farmers. Organic farming promotes the fertility of the soil in conjunction with retentive it because of the employment of biological manures and helpful small organism that helps to extend the fertility of the soil by correct decomposition and stimulation of biological process.
- In addition to the producer and also the customers, organic farming has established to be terribly useful for the dairy farm business too because the cows of the dairies feed and graze on the organic farms that square measure wealthy in nutrients and therefore the cows stay a lot of healthy and free from diseases and produces top quality and higher tasting milk.
- Apart from all the opposite advantages one amongst the foremost necessary advantages of organic farming square measure the health advantages of organic



foods. individuals overwhelming organic foods cut back the chance of risks of physical ailments like heart attacks, cancer, and even strokes.

Problems, Constraints and Prospects: it's quite natural that a modification within the system of agriculture during a country of quite a billion individuals ought to be a well thought out method, which needs utmost care and caution. There could also be many impediments on the method. Associate in Nursing understanding of those issues and prospects can go a protracted method in deciding.

Problems and Constraints: the foremost necessary constraint felt within the progress of organic farming is that the inability of the govt political beliefs level to require a firm call to push organic agriculture. Unless such a transparent and unambiguous direction is obtainable in terms of each money and technical supports, from the Centre to the Panchayath levels, mere regulation creating can quantity to zilch. the subsequent square measure found to be the foremost drawback areas for the expansion of organic farming within the country:

Lack of Awareness: it's a undeniable fact that several farmers within the country have solely obscure ideas concerning organic farming and its benefits as against the traditional farming ways. Use of bio-fertilizers and bio pesticides needs awareness and temperament on the a part of the farming community. information concerning the supply and quality of supplementary nutrients to counterpoint the soil is additionally very important to extend productivity. Farmers lack information of compost creating victimization the fashionable techniques and conjointly its application. the utmost they are doing is creating a pit and fill it with tiny quantities of wastes. usually Hell is flooded with fresh water and result's the highest of the compost remains below composted the lowest becomes sort of a onerous cake. correct coaching to the farmers are necessary to create vermicompost on the fashionable lines.

Output promoting Problems: it's found that before the start of the cultivation of organic crops, their marketability which too at a premium over the traditional turn out has got to be assured. Inability to get a premium value, a minimum of throughout the amount needed to attain the productivity levels of the traditional crop are a occurrence. it absolutely was found that the farmers of organic wheat in Rajasthan got lower costs than those of the traditional wheat. the value of selling of each kinds of product was conjointly same and also the patrons of wheat weren't ready to pay higher costs to the organic selection (Rao, 2003).

Shortage of Bio-mass: several consultants and well educated farmers don't seem to be certain whether or not all the nutrients with the desired quantities are often created accessible by the organic materials. notwithstanding this drawback are often head, they're of the read that the accessible organic matter isn't merely enough to satisfy the necessities. The crop residues helpful to arrange vermin-compost square measure removed when harvest from the farms. and that they square measure used as fodder and fuel. notwithstanding some square measure disregarded on the farms termites, etc destroy them. Experiments have shown that the crop residues tilled back to soil can increase productivity and a higher various is conversion into compost. The small and marginal cultivators have difficulties in obtaining the organic manures compared to the chemical fertilizers, which might be bought simply, after all if they need the money ability. however they need to either turn out the organic manures by utilizing the bio-mass they need or they need to be collected from the neighbourhood with a minimum effort and value. Increasing pressure of population and also the disappearance of the common lands as well as the wastes and government lands create the task troublesome.

Marketing issues of Organic Inputs: Bio-fertilizers and bio-pesticides square measure nonetheless to become in style within the country. there's a scarcity of selling and distribution network for them as a result of the retailers don't seem to be interested to deal in these product, because the demand is low. The erratic provides {and the|and therefore the|and conjointly the} low level of awareness of the cultivators



also increase the matter. Higher margins of profit for chemical fertilizers and pesticides for marketing, significant advertizing campaigns by the makers and dealers square measure different major issues moving the markets for organic inputs in Asian country.

Lack of economic Support: The developing countries like Asian country ought to style a excess of national and regional standards in correct with those of the developed countries. The adoption and maintenance of such a restrictive framework and its implementation are pricey.

Low Yields: In several cases the farmers expertise some loss in yields on discarding artificial inputs on conversion of their farming technique from standard to organic. Restoration of full biological activity in terms of growth of useful insect populations, biological process from legumes, persecutor suppression and fertility issues can take it slow and also the reduction within the yield rates is that the end in the interim. it's going to even be doable that it'll take years to create organic production doable on the farm.

Small and marginal farmers cannot take the chance of low yields for the initial 2-3 years on the conversion to organic farming. There aren't any schemes to compensate them throughout the gestation. the value premiums on the organic product won't be a lot of of facilitate, as they're going to disappear once vital quantities of organic farm product square measure created accessible.

Inability to satisfy the Export Demand: The demand for organic product is high within the advanced countries of the west like USA, global organization and Japan. it's reportable that the USA customers square measure able to pay a premium value of sixty to a hundred per cent for the organic product. The higher categories in Asian country are following this trend as elsewhere. The market survey done by the International Trade Centre (ITC) throughout 2000 indicates that the demand for organic product is growing chop-chop in several of the planet markets whereas the provision is unable to match it.

Prospects for Organic Farming in Asian country: India is blessed with numerous kinds of naturally possible organic type of nutrients through totally different areas of the country which can be useful in organic farming of crops. this can facilitate considerably in organic farming .There is a large selection in climate and eco-system. Asian country features a sturdy ancient farming system with innovative farmers, immense dry lands and least use of chemicals. Infact, the rained social group, north-east and cragged regions of the country wherever negligible chemicals square measure utilized in agriculture, are active subsistence agriculture for a protracted period; such square measureas are organic by default.

Indian agriculture ought to be in a position not solely to take care of however conjointly should attempt to extend the assembly of food grains. It seems that given the supply of organic infrastructure, minimum efforts for conversion because of the low use of chemical farming ways and also the limit of the general public investment, organic farming are often more and more introduced. The potential areas and crops, that fulfill the on top of constraints, may be explored and brought below organic agriculture. The rained, tribal, north-east and cragged regions of Asian country wherever the normal farming is a lot of or less practiced may be thought of (Veers, 2003 Agriculture production in these areas continues to be virtually on the normal eco-friendly lines and creating the farmers attentive to the ways of organic farming might not be terribly troublesome.

Suggestion and Recommendation:

- The farmers' should be trended about organic farming.
- Government should be providing subsidies for organic agriculture.
- Higher prices should be determined by the government for organic product.
- Agriculture universities should encourage the research in the field of organic farming.
- Government, NGO's and extension workers should organize various workshops, seminars, conferences for farmer about organic farming.
- Private companies should invest in the project of producing organic food products.



- At an individual level, should promote the use of organic product.

Conclusion: Organic agriculture is a healthy food production system works with the sustainable use of topically available natural resources. The need is to follow a comprehensive approach for the advancement of organic agriculture by taking cooperation of all stakeholders, environmental friendly technologies, marketing infrastructure and financial support for quality and quantity organic food production . An environmentally sustainable system of agriculture like organic agriculture will be able to maintain a resource balance, avoid over exploitation of resource, conserving soil nutritional quality and s health, and biodiversity.

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