NATURAL FARMING: **STAR PROMOTER OF ZERO BUDGET NATURAL** FARMING (ZBNF) JAGADEESH REDDY

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"Natural farming is a type of farming that is closest Government, and various other awards from Delhi to nature." His strongest desire to save the soil from and across India. chemicals and pesticides made Mr. Jagadeesh Reddy a natural farmer. Jagadeesh Reddy is an Indian Farming was always his major interest since agriculturist who practices Zero Budget Natural childhood. He joined the family farm with his father, Farming. Jagadeesh was born to Mr. Krishna a chemical farmer. Having learned of pesticides Moorthy Reddy.& Mrs.Suguna in Chittoor district and artificial fertilizers, Jagadeesh started reading of Andhra Pradesh in India. He has an agricultural about natural farming methods, interventions and background and practices natural farming without protocols of Subhash Palekar. Books have introduced using pesticides to cultivate. He conducted many him to the legendary farmer Mr. Subhash Palekar, workshops, seminars, webinars and conferences Padmashriawardee in 2016. Jagadeesh once attended all over India and was awarded Futuristic farmer his workshop conducted in Tirupathi and practically award, Innovative farmer award in 2019 by Central understood natural farming techniques at his level of



. He started applying ZBNF methods in his farm and this unique approach to farming involves manures and agroecology. His transformation from chemical to natural has attracted the attention of various social media platforms and his fellow farmers. IAS officers, Doctors, IT employees and people from various professions come to visit his natural farms to buy some quality naturally grown chemical free food. Now, many farmers around his village are practicing natural farming under his guidance and he stands as an inspiration to many farmers' co-operative groups.

Natural farming is an ecological farming approach with the avoidance of manufactured inputs and equipment. It is related to fertility farming and sustainable agriculture. Essentially, natural farming is to grow crops without fertilisers, pesticides or herbicides. Observing the conditions of the local ecosystem, and mimic nature rather than heavily relying on outside nutrients and artificial chemicals does the trick. When done properly, natural farming saves upto 90 percent of water, electricity and expenditure. It also avoids water pollution, prevents loss of biodiversity and halts soil erosion and all of

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this, without sacrificing the output of yield. Jagadeesh the requirement of specific manures, and it has an can demonstrate step-by-step on how to turn your ecological impact on surrounding environments; farm into a completely natural, chemical-free farm whereas, natural agriculture is an extremely lowthat produces highly nutrional food. Understanding cost farming method, completely based on local the healthier and beneficial alternatives to using biodiversity. There are many working models of chemical fertilizer and other invasive substances on natural farming all over the world, the zero budget crops is important. It can affect consumers health natural farming (ZBNF) is the most popular model and cause illnesses as a result of digesting hazardous in India. chemicals used in farming.

The cost of cultivation in natural farming is To our surprise, there are key differences between considered to be very cheap comparatively. One natural and organic farming. Natural and organic desi (native) cow is sufficient to maintain land upboth are chemical or poison free farming methods. to thirty acres. Fertilizer they commonly use is Both systems discourage farmers from using any jeevamrutam which provides all macro and micro chemical fertilizers, pesticides on plants and in all nutrient requirements to the crop. Requirements to agricultural practices. Organic and natural farming prepare this natural fertilizer are desi cow dung, desi methods promote nonchemical and homemade cow urine, jaggary, green or black gram flour and pest control methods. In organic farming, organic forest soil. 200 litres liquid fertilizer is sufficient to fertilizers and manures like compost, vermicompost, serve one acre. It can be applied through irrigation, desi cow dung manure, etc. are used and added flooding, drip etc. Natural pesticide prepared and to farmlands from external sources. In natural used namely Neemastram (prepared with neem farming, neither chemical nor organic fertilizers are extract, cow urine, cow dung and water). added to the soil. In fact, no external fertilizers are Farmers following such practices need not spend added to soil or given to plants. In natural farming, more money for crop protection. According to stage decomposition of organic matter by microbes and of the crop these naturally prepared are applied to earthworms is encouraged right on the soil surface avoid occurrence of the pests and diseases on the itself, which gradually adds nutrition in the soil over crop. Other farmers are requested to visit such type the period. Organic farming still requires basic agro of farms following natural farming methods and practices like plowing, mixing of manures, weeding, try this cow based natural farming. Farmers who etc. to be performed. In natural farming there is no got converted to natural method farming are only plowing, no fertilizers, and weed removal is manually practising by their adaptive trials. Adaptability is a done. Organic farming is still expensive due to key component during the land conversion from



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chemical to natural form. It may not always be Naturally grown foods are in increasing demand possible for an agroecosystem to regain it's previous because of the hazardous highly contaminated food properties and function the way it was before. It being sold in the markets. Food contamination is a slow process to be followed with patience and occurs if the food has come into contact with determination as initial yields will be marginally harmful chemicals. Exposures to such contaminated very low. Once the land regains it's properties, it food at large creates adverse health effects. Once a will start giving good yield and continue to increase person is exposed to a chemical, it may enter the there on. Finally, sustainable agriculture is not a blood stream, and eventually reach the liver. The single, well-defined end goal. It is continuously liver attempts to detoxify harmful chemicals in the evolving and is influenced by contemporary issues, body by converting them to less toxic ones or ones perspectives, and values. For example, agriculture's that could be used by the body. The body naturally ability to adapt to climate change was not considered attempts to eliminate substances that are harmful. a critical issue before, but is now receiving increasing The kidneys filter substances out of the blood and attention. When the production of food and fiber excrete them in urine. Also, chemicals are removed degrades the natural resource base, the ability of from the body in feces, sweat and exhalation. future generations to produce good food and flourish However, the body may not be able to remove all decreases. A sustainable agriculture approach seeks the chemicals. The amount, type, and length of time to utilize natural resources in such a way that they the human body gets exposed to harmful substances can regenerate their productive capacity, and also associated with food will determine adverse health minimize harmful impacts on ecosystems beyond a effects. Substances that are added to food to maintain field's edge. One way that farmers try to reach these or improve the safety, freshness, taste, texture, or goals is by considering how to capitalize on existing appearance of food are known as food additives. natural processes. Hope this type of farming will Many different food additives have been developed spread in India to make marginal profits to small over time to meet the needs of food production, as and poor farmers.

ZBNFhassofarbeenadoptedmostprominentlyin the states of Karnataka and Andhra Pradesh. Evolution According to the World Health Organization of ZBNF, beginning as a grassroots social movement (WHO), the two objectives in relation to pesticides and evolving into a major policy initiative in some are to ban pesticides that are most toxic to humans, states of India. Some of the first available findings as well as the pesticides that remain for the longest on the impacts of ZBNF amongst early-adopters in time in the environment. WHO intends to protect Andhra Pradesh, focusing on crop yields, costs of public health by setting maximum limits for cultivation, farmer income and observed impacts on pesticide residues in food and water. The most at farm ecosystems and within households. Efficiency risk population are people who are directly exposed is additive and incremental, though can involve to pesticides. This includes agricultural workers who step changes within existing agricultural regimes. apply pesticides, and other people in the immediate Natural farming involves reducing waste and making area during and right after pesticides are spread. the best use of easily available resources. Techniques Consumers can further limit their intake of pesticide of sustainable farming started coming to light and residues by peeling or washing fruit and vegetables, various training workshops are being organized in which also reduces other foodborne hazards, such as the state with the help of some experienced natural harmful bacteria. In children, accidental exposures farmers like Mr. Subash Palekar and Mr. Jagadeesh. to high levels of pesticides are associated with Farmers transitioning to ZBNF are thus embedded childhood cancers, attention deficit hyperactivity within a supportive network of peers, practitioners disorder (ADHD). and formally trained agronomists, together forming a dense learning ecosystem. Farmers are encouraged Eating locally grown foods might be considered a to experiment with ZBNF, progressively deepening safer option, but it depends on the practices of the their practice. Naturally grown crops health and individual farm. Hence, it is highly recommended for climate resilience to shocks are proving to be the everyone to have a genuine farmer who can suggest best compared to chemically grown crops.

making food on a large scale is very different from making them on a small scale.

and grow good food for you and your family. Eating chemical free or poison less food automatically develops immunity power which can combat any kind of viruses or diseases. Even chronic diseases like diabetes, arthritis, etc can be kept at bay with the consumption of naturally grown foods. Having a specific food producer contact benefits mutually to both you and the farmer. What Jagadeesh always says is "Every family must have a family farmer like a family doctor" which is a well said factual statement. Path to good health and well-being is not so easy. What a noble service by heroes like Jagadeesh who are striving hard to create health awareness among public. It is evident that knowing what you eat has become crucial to lead a healthy lifestyle.

Messages from Mr. Jagadeesh Reddy to readers, farmers and scientists

"Farmers should take step towards poison less farming because this is the only way to sustain a better life and they should also make earth a habitable place for the future generation. Today farmer should understand the current need and look for more meaningful and sustainable ways of pursuing agriculture instead of fulfilling their monetary needs."

"Today cancer like Disease is spreading among the people is because of chemicals being used by the farmers. I'm not saying that farmers shouldn't use fertilizer and pesticide, but they should reduce its use and switch to organic farming. In this way they can stop the soil and water pollution and can also prevent cancer like deadly diseases.

"Every farmer must do natural farming, if not possible to a larger extent then at least try it in a smaller area for home purpose. In this way, they can create a difference in their own lives and make it better."



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