

Advantages of Applying Organic Fertilizer

With the rapid development of the palm oil industry, palm oil plants will produce large amounts of palm oil waste, such as stalk, shredded fruit, and nutshells. Through zero-consumption-zero-emission processing technologies, the use of palm fruit stalk waste made into organic fertilizer will reduce environmental pollution. It has become a national strategy and a sustainable development trend for palm oil refineries and plants.

Organic fertilizers made from palm fruit stalks contain various nutrients needed for crops and they are rich in organic matter. After applying it into the soil, it decomposes slowly and fertilizes the soil for a longer period of time, improving the soil structure and soil fertility. As tropical regions mostly have red soil, which lacks organic matter and nutrients, the stalk itself contains a lot of nutrients through the fermentation of organic matter that can improve the soil's physical properties and enhance soil water holding capacity. The organic matter in organic fertilizer produces organic acids as it decomposes, promoting the dissolution of minerals from the soil nutrients, thus facilitating the absorption and utilization of crops, to increase the yield of palm oil. Long-term application of organic fertilizer can enhance the resistance of palm tree, reduce the incidence of pests and diseases, reduce pesticide use, improve soil self-purification capacity, reduce fertilizer pollution of the natural environment, and protect the ecological environment of oil palm plantations, achieving sustainable development results. Through the application over recent years, it has proved to increase 10% to 20% of the oil palm yield; a significant yield recognized by the owners of oil palm plantations.

Palm oil plantations mainly use chemical fertilizer. Long-term use of chemical fertilizers increases the risks of destroying the soil structure, decreasing the yield of palm fruit, lowering the quality of oil content and causing environmental pollution. More importantly, extremely long-term use of chemical fertilizers is not conducive to the sustainable development of the palm oil industry; the replacement of chemical fertilizers into organic fertilizer has become an inevitable trend.

