CLAIMS:

1. A method for transforming organic waste to a dry organic fertilizer comprising the steps of:

(i) mixing an organic waste with an organic moisture reducing agent in the ratio of 4:1 by weight and mixing substantially 0.1% by weight of a fermentation agent to form a mixture in a digester tank; with the fermentation agent comprising thermophilic aerobic microorganisms;

(ii) fermenting the mixture at a temperature of 70-80° C for 9-12 hours;

(iii) simultaneously pasteurizing and drying the mixture at 80-95°C for 4-5 hours;

wherein the organic waste is transformable into an organic fertilizer comprising organic matter of more than 45% and a nitrogen-phosphorus-potassium (NPK) value of more than 5%.

2. The method of claim 1, wherein the organic fertilizer has a Nitrogen content that is greater than 1.5%, a Phosphorus content that is greater than 2.5%, and a Potassium content that is greater than 2.5%.

3. The method of claim 1, further comprising the step of continuously agitating the mixture during the steps of (i) mixing, (ii) fermenting, and (iii) pasteurizing and drying the mixture.

4. The method of claim 1, further comprising the step of continuously aerating the mixture during the steps of (i) mixing, (ii) fermentation, and (iii) pasteurizing and drying the mixture.

5. The method of claim 1, wherein the moisture content of the animal manure is 70-80%.

6. The method of claim 1, wherein the moisture content of the food waste is 60-70%.

7. The method of claim 1, wherein the moisture content of the moisture reducing agent is less than 10%.

8. The method of claim 1, wherein the moisture content of the fermentation agent is 0.2%.

9. The method of claim 1, wherein mixing the organic waste and the moisture reducing agent reduces the moisture content of the mixture to 50-60%.

10. The method of claim 1, wherein the organic waste comprises at least one of an animal manure, food waste, agricultural waste, plant waste and city sludge.

11. The method of claim 1, wherein the moisture reducing agent comprises at least one of a wood waste, saw dust and/or straw.

12. The method of claim 1, wherein the fermentation agent further comprises thermophilicenzymes.

13. The method of claim 12, wherein the thermophilic aerobic microorganisms further produce enzymes during the step of fermenting the mixture.

14. The method of claim 12, wherein the thermophilic aerobic microorganisms comprise at least one or more of the following: Clostridium Stercorarium Sp, Chaetomium Thermophilum Sp, Geobacillus Sp, Actinomadura Sp, Thermomonospora Sp, Myceliophthora Thermophila Sp, Phanerochaete Chrysosporium, Aspergillus Niger, Thermoactinomyces Vulgaris Sp, Bacillus Sp, Streptomyces Thermogriseus Sp, Streptomyces Cinnamoneus, Photosynthetic bacteria and Nitrobacteria.

15. The method of claim 13, wherein the thermophilic enzymes comprise at least one or more of the following: Cellulase, Lipase, Pectinase, Protease, Trypsin, Amylase, Glucanase, Phytase, Hemicellulase, Laccase, Mn Peroxidase and Lignin Peroxidase.

16. The method of claim 12, wherein the microorganisms and enzymes are operational at the fermentation temperature of 70°-80° C.

17. The method of claim 1, wherein pasteurizing the mixture at the temperature of 80-95°C for 4-5 hours exterminates harmful organisms including E. coli, Shigella, Salmonella, Ascaris and their eggs, and weed seeds without exterminating beneficial soil organisms including probiotics.

18. A system for transforming organic waste to an organic fertilizer by a mixing, fermenting, combined pasteurizing and drying process comprising:

a fermentation/digester tank having a charging port for input of the organic waste and a discharging port for output of the organic fertilizer;

a mixing means located in the fermentation/digester tank for mixing the organic waste and a moisture reducing agent into a mixture;

a heating means located in the fermentation/digester tank for controlled heating and drying of the mixture;

an air inlet means having an air filter for inputting air into the fermentation/digester tank and air outlet means for extracting air from the fermentation/digester tank; and

a control means; wherein the control means comprises predetermined settings for time duration and temperature control of the mixing, fermenting, combined pasteurizing and drying processes.

19. The system of claim 18, wherein the mixing means comprises a series of rotating arms or impellers for agitating, mixing and tossing the organic waste and fermenting agent within the fermentation/digester tank.

20. The system of claim 18, wherein the heating means comprises a series of heating elements incorporated within or close to the interior space of the fermentation/digester tank.

21. The system of claim 18, wherein the air inlet means comprises an air blower.

22. The system of claim 18, wherein the air outlet means comprises an air filter.

23. The system of claim 18, wherein the control means further comprises a programmable logic controller (PLC) programmable, and a plurality of sensors and switches for automatic control of the fermenting, pasteurizing and drying processes.