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Patent Search

Invention Title	SEA WEED MIXTURE INDUCING GROWTH OR DEVELOPMENT AND STRESS TOLERANCE IN PLANTS
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Abstract:

ABSTRACT The present invention relates to proper utilization of unused seaweeds for the preparation of mixed seaweed liquid fertilizer from dried Sargassum plagiophyllum Turbinaria conoides, Stoechospermum marginatum, Caulerpa racemosa and Gracilaria salicornia. The invention in aspects provides a mixed proportion of seaweed liquid/ fertilizer for enhancing or inducing growth or development in a plant. The invention also provides for methods of preparation of the said mixed seaweed fertilizer composition. The process allows integrated recovery of two products from the seaweeds such as mixed seaweed liquid and mixed seaweed solid. Both are used for inducing growth development (mixed seaweed liquid fertilizer) and stress tolerance (mixed seaweed solid fertilizer) in plants.

Complete Specification

SEAWEEDS MIXTURE INDUCING GROWTH OR DEVELOPMENT AND STRESS TOLERANCE IN PLANTS

Field of Invention

The present invention relates to production of mixing different ratio of seaweeds as mixed seaweed liquid fertilizer and mixed seaweed solid fertilizer. Specifically the invention relates to preparation of liquid fertilizer from dried Sargassum plagiophyllum, Turbinaria conoides, Stoechospermum marginatum, Caulerpa racemosa and Gracilaria salicornia. The process allows integrated recovery of two products from the seaweeds such as mixed seaweed liquid fertilizer and mixed seaweed solid fertilizer. Both are used for growth development (mixed seaweed liquid) and stress tolerance (mixed seaweed solid) in plants.

Background of the Invention

Indian economy is basically depends on agriculture. Vast areas of lands in our country are not used for agricultural purposes either because of lack of water or because of salinity in such soils. Methods to improve the qualities of these wastelands rendering them cultivable would cease the pressure on food production. Seaweeds are rich in organic matter come in handy here not only with their ability to make soils more fertile but also with their ability to alleviate stress conditions caused by water discrepancy as well as salinity.

Various compositions of essential or beneficial inputs have been developed for growth or development of plants. These compositions are called as fertilizers. These fertilizers were applied to the soil to supply essential and beneficial nutrients to enhance or induce growth or development in plants. The excess application of these fertilizers lead to water pollution, air pollution, nutritional condition of the soil and existence of microorganisms. The results of the above mentioned pollutants are high

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