

(54) Title of the invention : A PROCESS OF PREPARATION OF ALGAL POLYSACCHARIDE STICKS EXHIBITING PROPERTIES OF SOIL WATER HOLDING & BIO-SHIELD FOR SEEDS

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(57) Abstract :
 TITLE: A PROCESS OF PREPARATION OF ALGAL POLYSACCHARIDE STICKS EXHIBITING PROPERTIES OF SOIL WATER HOLDING & BIO-SHIELD FOR SEEDS APPLICANT: Dr. P. VARALAKSHMI ABSTRACT The present invention discloses a process of preparation of algal polysaccharide sticks which exhibits the property of enhancer of soil water holding thereby promoting plant growth. The process of the present invention comprising of a. hot water extraction of marine green macroalgae *Caulerpa taxifolia* to obtain *Caulerpa taxifolia* polysaccharide and residual biomass of *Caulerpa taxifolia*; b. hot water extraction of marine red macroalgae *Portieria hornemannii* to obtain *Portieria hornemannii* polysaccharide and residual biomass of *Portieria hornemannii*; c. mixing residual biomass of *Caulerpa taxifolia*, residual biomass of *Portieria hornemannii*, *Caulerpa taxifolia* polysaccharide, *Portieria hornemannii* polysaccharide and cellulose with distilled water to obtain semisolid paste followed by rolling into sticks to form algal polysaccharide sticks. The present invention also discloses algal polysaccharide sticks exhibiting the property of enhancer of soil water holding thereby promoting plant growth prepared by the process as described above.

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