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(71)Name of Applicant :

**1)Dr. Priyanka Kumari**

Address of Applicant :Assistant Professor, Dept of Chemistry, Shivaji college, University of Delhi New Delhi New Delhi India New Delhi -----

**2)Dr. Neeraj Kumari**

**3)Dr. Chandra Mohan**

**4)Dr. Anoop Yadav**

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

**1)Dr. Priyanka Kumari**

Address of Applicant :Assistant Professor, Dept of Chemistry, Shivaji college, University of Delhi New Delhi New Delhi India New Delhi -----

**2)Dr. Neeraj Kumari**

Address of Applicant :Assistant Professor, School of Basic & Applied Sciences, K R Mangalam University Gurugram Haryana India 122103 Gurugram -----

**3)Dr. Chandra Mohan**

Address of Applicant :Associate Professor, School of Basic & Applied Sciences K R Mangalam University Gurugram Haryana India 122103 Gurugram -----

**4)Dr. Anoop Yadav**

Address of Applicant :Assistant Professor, Dept of Environmental Studies, Central University of Haryana, Jant Pali Mahendergarh Haryana India 123031 Mahendergarh -----

(57) Abstract :

The present invention discloses a seed coating biofilm composition comprising starch, clay having a weight percentage in a range of 15-25% with respect to the starch, glycerol having a weight percentage of 30% with respect to the composition, and zinc sulphate having a weight percentage in a range of 1-10% with respect to the clay. The invention also discloses a process of preparing the seed coating biofilm and method of its application on seeds to optimize nutrient usage and facilitating better germination, and yield growth by providing nutrients directly in the immediate vicinity of the germinating seed, and wherein the biofilm swells by absorbing water and disintegrates, thereby boosting the growth of seedling during its critical early stages of development.

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