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(57) Abstract :
The Integral Larval Grub Composting Reactor (ILGCR) is undoubtedly one of the best bioreactor systems which have been fabricated with an intention of wholesome waste treatment under a single platform. Unlike the existing reactors, the above-mentioned novel reactor is capable of addressing a wide variety of solid and liquid waste via the larval decomposition activity. The reactor is capable of auto pupal segregation. It has been designed such a way that it strengthens the zero discharge concept. In the case of macro conversion the utmost attention use to be paid towards the 1st inster stage namely, larva and the innovative technique prolongs the larval period and hence the treatment efficiencies get increased in attributed to the minimization of the treatment period (i.e. 2 weeks). Additionally, it accelerates the body growth factor of the larvae and it has been found that the larvae introduced to this reactor grow approximately double to the larvae introduced to the existing bioreactors which are readily available in the market. Thus, due to the multiple beneficial and novelty components, the above technology clearly gains superiority over the conventional bioreactor system.

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