SUMMARY

A higher number of 93 rotifer species including 4 orders, 16 families and 41 genus belonging to 2 classes is the first of its sort in Palayamkottai of South east India which reveals that this particular area will be a promising zone to collect various species of rotifers for taxonomical studies and also to collect suitable species for experimental cultures for research purpose.

Electron microscopic studies on the surface topography of the resting eggs of *B. calyciflorus f. amphiceros*, *B. calyciflorus f. dorcas* and *Asplachna intermedia* confirms the 'species specific characteristics' with different forms within the species and genus specific features' in between *Brachionus* and *Asplanchna* by exhibiting variation in size, shape and morphology.
Greater density of rotifer population raised from sediments confirms the fact that the storage of resting eggs in the pond sediment itself will be the cheap and best viable technology to preserve the resting eggs and maintain a stock to be used as inocula for mass cultures.