**Abstract**

The present investigation was carried out to find out a suitable technology to compost the coir pith. For this, pre-composting of coir pith by Effective Micro organism (EM) technology followed by subsequent vermicomposting was studied. The earthworm species used for the experimental study was *Eudrillus eugeniae* (Kingberg) and *Eisenia foetida* (Savigny). Reduction in pH, bulk density, particle density, lignin, cellulose, hemicellulose, phenol contents, CO2 evolution and C:N ratio in the coir pith composted by combining the EM technology and vermicomposting. However when a comparative study was made between the worms on its influence on the macro and micronutrient levels, significant difference was not observed except for iron.