This thesis comprises of two different environmental impact assessment studies. The two studies are presented as two separate parts viz Part-A and Part-B. In the first part, (Part-A) the environmental impact of utilizing *Eucalyptus hybrid* for the ecorestoration of reclaimed soil in a thermal power plant (at Neyveli Lignite Corporation situated in Tamil Nadu, India) has been assessed. The second part (Part-B) presents the assessment of environmental impact of an industrial complex situated in Pillayakuppam-Kirumampakkam region at Pondicherry, India.