CHAPTER 3

OBJECTIVE
Recently, the application of MW technique has been reported in the field of environmental treatment, such as, remediation of soil, waste water treatment, purification of air and regeneration of activate carbon (AC). For my work, I used *E.coli* and *B.subtilis* as a model organisms. Main objectives of my work are:

1. Comparing the growth of *E.coli* and *B.subtilis* after exposing with microwave radiation (2.45GHz frequency).
2. Growth of both the bacterial strains of exposed culture were also checked ,in presence and absence of SDS.
3. The exposed bacterial cells were tested for their in vitro susceptibility to various antibiotics.
4. Influence of pH variation on Growth pattern of microwave exposed bacterial population.