

## CHAPTER II

### OBJECTIVE

The main aim of this study is to perform land suitability assessments for rice, jute, potato and lentil crop and also to investigate the possibility of selecting best crop rotation in *Tarakeswar*, Hooghly, West Bengal using GIS/RS technique. The objective can be elaborated as follows:

- Crop area selection using GIS/RS technique for the study area.
- Land suitability study for crops in the two season (*Kharif*: rice and jute; *Rabi*: potato and lentil) based on AHP weightage.
- Land suitability study based on soil morphological layers (top 0-15cm, shallow 15-30cm and deep 30-45 cm).
- Best crop rotation selection through land suitability approach for the study area.
- Future recommendations for better crop selection.