

## **II.B.7. Ground Water Resource, Technology Change and Sustainability of Agrarian Growth in Saurashtra Region**

**P.G. Marvania**

Associate Professor, Department of Economics, Saurashtra University, Rajkot-360 005.

The paper attempts to highlight theoretical issues involved in managing groundwater resource for sustainable agrarian growth in the Saurashtra region. The paper is divided into three parts. The first part provides the geomorphic characteristics of the region. The second part analyses theoretical issues like CPR characteristics of the resource, the question of property and use rights, the conflicts of group interests and possibility of a trade off, role of institutions in helping to avoid the tragedy of commons, etc. in the framework of sustainable development. The third part discusses case of this region in the light of impact of changes in the technology of lift irrigation and accessing of the resource.

This paper raises following issues for the discussion based on Gujarat experience within the framework of sustainable management of the resource: (i) How resolve the conflict of optimisation of private gains versus sustainable use of resource to avoid the tragedy of commons? (ii) What is the possibility of involving technological solutions to prevent the degradation of resource? (iii) What sort of educational packages are to be envisaged to sensitise the resource users of impending danger of resource exhaustion/degradation? and (iv) What are options based on public policy/legal system/institutions for better management of the resource?