

CHAPTER 1

INTRODUCTION

Indian agriculture is dependent on the monsoons which is not a reliable source of water, so there is a need for an automatic irrigation system in the country which can provide water to the farms according to their moisture and soil types. Modern drip Irrigation is today's need because water resources are very limited, diminishing day by day and most of them depend upon monsoons. The one and only one solution to this problem is automated Drip Irrigation system. In the field of agriculture, use of proper method of irrigation is important and it is well known that irrigation by drip is very economical and efficient.

Taking into consideration all the problems that arise in the irrigation system it is very difficult to control it normally by the farmers. It will also be a hectic process for a human being to continuously monitor all required actions that has to be carried out in the field. So this project has been implemented in order to solve all these problems. It will also help in a great way to reduce the man power and water wastage by the introduction of efficient devices. This system allows the user who will be monitoring the entire flow process of the irrigation system to control it both in the manual and automatic mode. Hence it is very easy and reliable method of monitoring and controlling the irrigation system using a long distance ZigBee module.