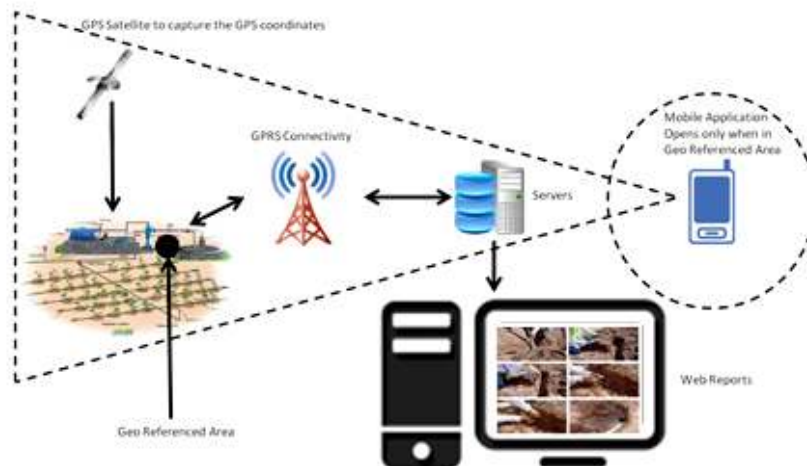


# Mobile Governance for National Mission on Micro Irrigation / Work Progress Monitoring of State Horticulture Farms



## **MOBILE GOVERNANCE FOR NATIONAL MISSION ON MICRO IRRIGATION**

### **At Village Level**

Commissionerate of Horticulture and Plantation Crops is implementing National Mission on Micro Irrigation Scheme. Under this scheme, farmers are being provided with 75% and 100 % subsidy for installation of Micro Irrigation System in their fields. During this year, exclusive Micro Irrigation Villages will be developed with latest Irrigation techniques. As per Honorable Minister for Agriculture' announcement, mobile – Governance would be adopted for effective monitoring of the scheme, at a cost of **Rs. 200.00 Lakhs** as per G.O.Ms No. 165 Agriculture (AP1) department dated 1.8.2012. Work order for implementing this unique project has been issued on 31/8/2012 and filed work is in progress.

Mobile phones based software using GIS/GPS and geofencing concepts is being procured for the monitoring of micro irrigation installations and works undertaken in the 56 State Horticulture Farms, various parks and gardens under TANHODA.

The minimum parameters that are to be captured using this module includes: Every land surveyed needs to be uniquely identified with its geo-references such GPS coordinates and geo-fencing. When the location-aware device of a location-based service (LBS) user enters or exits a geo-fence, the device receives a generated notification. This notification might contain information about the location of the device. The geo-fence notice might be sent to a mobile telephone or an email account or could be stored in the database for better MIS.

The supervisory officers visit the field location and capture the photograph of the installations. The application for this purpose must work only when the mobile phone camera is with a geo-fencing reference of 3 – 5 meters. The image/photograph that is captured must be augmented GPS coordinates, date and time of capturing the images and also unique identification of the Plot of installations.

The stage wise image gallery of the construction will be available in the chronological order of its capturing in the form of image gallery. The captured information will be tagged to GIS map using Google map services or any other such similar services.

## **WORK PROGRESS MONITORING OF STATE HORTICULTURAL FARMS, CONSTRUCTION AND DEVELOPMENT OF PARKS AND GARDENS**

This module primarily addresses capturing facilities and its cleanliness for all the parks, whose development is completed. Here the maximum geo-fencing distance that is allowed in the application shall be a maximum of 3 – 5 meters. It is envisaged that the supervisor's responsibility includes keeping the farm/parks premises neat and clean and the same is not limited to just the floras. Toilets, any room, corridors and walking paths shall also fall into this category. The image/photograph that is captured must be augmented GPS coordinates, date and time of capturing the image and also unique identification of the Plot of installations. The date wise image gallery of the condition of the park will be available in the chronological order of its capturing in the form of image gallery with time stamping

### **Advantages of the mobile based monitoring:**

1. Higher officials can monitor the progress of a scheme from their desktop.
2. Multiple accounting cannot be done, because the system will not allow duplication due to geo-fencing
3. Instant clarifications and guidance can be given from the headquarters.
4. This will instill confidence in the District Collectors who chair the DMC approving expenditure for micro irrigation installation.