

## **SPACE BASED INFORMATION SUPPORT FOR DE-CENTRALISED PLANNING( SIS-DP) PROJECT**

At the behest of Planning Commission, GOI and Planning Committee of National Natural Resources Management System (PC-NNRMS) initiative, ISRO has taken up a programme on “Space Based Information Support for Decentralized Planning” (SIS-DP). The programme aims at generating geo-spatial layers on 1:10K scale on natural resources/infrastructure (land cover, settlements, soils, ground water prospect maps etc.), creating inventory of resources (water sources, road network, public utilities, communication network, health care etc.) and disseminating them by using platforms like Web enabled information system, digital CD/DVD ROMs etc. for use in planning at grassroots level. The project also aims at developing site specific interactive Decision Support System (DSS) for local level planning.

SIS-DP is proposed to be executed by involving individual state government departments by keeping respective State Government identified department/ centers as nodal center. ISRO will be playing the role of enabler by providing technological solution, methodology/approach, strengthening the State Remote Sensing Applications Centres(SRSAC)s and building capacities at every stage of the project.

As a first step of SIS-DP project implementation, it is proposed to take up the 1:10K scale thematic mapping activity for entire Odisha state.

### **SCOPE OF WORK AND METHODOLOGY:**

The full project on SIS-DP aims at generating Thematic geo-spatial layers on 1:10K scale on natural resources/infrastructure (land cover, settlements, etc.), creating inventory of resources (water sources, road network, drainage, rail network etc.) from high resolution ortho rectified satellite Cartosat-1 PAN(2009-10),LISS-IV-MX(2012) and merged images. Respective stakeholder departments’ data will be integrated with the spatial layer in GIS environment.

The database shall be shareable with Spate Spatial Data Infrastructure database as per the OGC standards.

### **QUANTUM OF WORK TO REALIZE THE OBJECTIVES**

The SIS-DP thematic resource layers for the Odisha state have to be prepared for 155707 sq. km. pertaining to 6884 nos. 3’ x 3’ map sheets on 1:10K scale (30 Administrative Districts)

## **DELIVERABLES AND EXPECTED OUTPUTS :**

### **Geospatial database:**

- State wise seamless SIS-DP project 10K thematic layers as per the open GIS standards.

### **Digital maps :**

- Fixed output digital maps at village/block//district level on thematic layers (e.g. land cover, base details, road network etc.)
- Derived/processed maps required for planning (customized to the stake holders requirement will be made available)
- User department requirements will be met as feasible (e.g. alternate route/location for canal, road, health center etc.)

### **Reports :**

- Digital Resource Atlases/Reports

## **STATUS**

Thematic mapping on Landuse(Built-up land,Settlements-both urban and rural, forests, plantations, agriculturalland, aquacultureland, wasteland,waterbodies reservoirs/tanks/Ponds etc), Transport details and Drainage layers for twenty five districts (including KBK ) have been completed.

Sample map(JPEG): Refer path ...../pkumar/orsac-ce/SISDP-SAMPLE-MAP