

HYDERABAD CENTRE

Soil and Land Use Survey of India (SLUSI), Hyderabad Centre is located at picturesque location near to **Professor Jayashankar Telangana State Agricultural University (PJTSAU) Budvel, Rajendra Nagar Road, Hyderabad-500030**. Located in South Central India, the Centre has a two-storied building with a central courtyard. Reception, Officer's room, and Administrative section is situated in the ground floor. GSI & Remote Sensing laboratory, Cartography, Soil Laboratory, Library and rooms of technical staff are situated on the first floor of the building.

Hyderabad Centre of SLUSI is primarily engaged in conducting soil survey of different intensities as per the guidelines and targets of Head Quarter. The soil survey is based on scientific criteria of soil mapping and soil classification in order to provide scientific database for developmental programmes encompassing soil and water conservation planning, watershed development, scientific land use planning etc. The database generation of the Centre is commensurate with the requirement of soil and land use information of various land-based development programmes. The centre is well equipped with facilities of GIS & Remote sensing lab, Soil analysis and Cartographic laboratories.

A Soil Survey Officer with the support of Assistant Soil Survey Officers manages the activities of the centre. The surveys include, Rapid Reconnaissance Survey (1:50K scale), Detailed Soil Survey (1:4 -15K scale), Soil Resources Mapping (1:50K scale), District wise Land Degradation Mapping on 1:50K, etc. In addition to development of Soil Information System, Preparation of Microwatershed Atlas of Orissa, PMKSY, RKVY, Soil Health Card scheme monitoring, etc. are also undertaken by the Centre. The centre is also open to consultancy projects and other scientific/ technical programmes for which the organization is committed.



Fig: Building of HYDERABAD CENTRE

FACILITIES

1. COMPUTER LAB:

1. Hardware		
A. Computers		Quantity
i.	HP Workstation	4 Nos.
ii.	GPS	4 Nos.
iii.	HP PC (Admin.)	4 Nos.
B. Scanner Cum Printers :		
i.	Canon iPF771 Ripro Scanner (36" Width) with 1 No. PC (Attached)	1 No.
ii.	Canon iPF771 Plotter (36" Width)	1 No.
iii.	HP Deskjet T1200 (42" Width)	1 No.
2. Software :		
i.	Arc GIS – 10	1 No. License
ii.	ERDAS Imagine – 9.3	1 No. License (Digital Image Analysis Software)
iii.	Windows 8.0 Pro.	6 Nos.
iv.	AutoCAD 3D Map	2 Nos. License
v.	Ms Office 2016	1 No. License
3. Internet and LAN :		
i.	BSNL Internet	
ii.	All Workstation and PCs are connected through LAN	

2. REMOTE SENSING LAB:

1.	Visual Interpretation	a. Light tables for Image Interpretation – 2Nos b. Stereoscope for Aerial Photo interpretation.
2.	Digital Analysis / GIS	i. HP Workstations- 5 Nos. ii. Canon iPF771 Scanner (36"Width)- 1 No. iii. Canon Ipf771 Plotter (36") Plotter-1 No. iv. Arc GISSoftware -1 No. v. ERDAS Imagine Software for DigitalImage -1 No. Analysis. vi. 2 AutoCAD 3D Map -1 No. vii. Ms Office 2016 – 1No.



Fig:REMOTE SENSING & DIGITAL CARTOGRAPHIC LAB

3. PHOTO PROCESSING LABORATORY & PRINTING CELL:

There is as such no Photo Processing Laboratory or Printing Cell in this Centre. However, Geo coded Imageries are printed with the help of Ripro MSP Scanner. Besides, technical reports are also printed with the help of Work Centre KYOCERA Task alfa machine.

4. SOIL LABORATORY:

This Centre is well equipped with Soil Laboratory for physical and physico-chemical analysis of soil samples. The instruments available in the Soil Laboratory are as follows:

Sl.No.	Name of the Instrument	Quantity
1.	Mechanical Shaker	1
2.	Oven (Electric)	1
3.	Centrifuge (Remi)	1
4.	Flame Photometer	1
5.	Conductivity Bridge	1
6.	pH meter	1
7.	Hot plate (Round)	1
8.	Electrical Balance	1
9.	Soil Hydrometer	2
10.	LPG gas cylinder	1
11.	Colorimeter	1
12.	Water Distrillation Unit (Metal)	1
13.	Digital Weighing Balance	1
14.	Analog Weighing Balance	1



Fig: SOIL LABORATORY

5. INFRASTRUCTURAL FACILITIES: CARTOGRAPHY GISLAB

Sl. No.	Name of the Instruments	Purpose
1.	Optical Pantograph – 1 No.	<i>This machine required for enlargement and reduction of various scales of maps for publication of reports.</i>
2.	Lamination Machine – 1 No.	<i>Preservation & Archival purpose for long lasting of different types of reference and thematic maps.</i>
3.	Ammonia Machine – 1 No.	<i>For printing of maps for publication of reports and day to day use in Carto.GIS Labs.</i>
4.	Electronic Typing Machine – 1 No.	<i>For Tittle writing on Final Soil Maps for Reports</i>

6. LIBRARY:

The Centre maintains a library containing selected reference books on soil science, soil survey, remote sensing and other allied disciplines. Copies of the Soil Survey Reports and Other Publications of SLUSI as well as those received from other central and state organizations are available in the library. Total number of reference books available in the library is 1236.

7. DOCUMENTATION AND USERSERVICES

The Centre publishes the results of various kinds of soil survey and special projects in the form of soil and land use survey reports and maps. Up to the year 2017-2018 , published 135 reports by this Centre, out of which 82 reports of Detailed Soil Survey, 03 reports of Land Degradation Mapping, 04 reports of Soil Resource Mapping and 46 reports of Rapid Reconnaissance Survey. The published reports of the Centre covers the area of Andhra Pradesh, Karnataka, Madhya Pradesh, Odisha, Telangana and Maharashtra. In the form of hard copy and is available since 1961. Abstracts of these reports are available on the website of SLUSI on free of cost.

These reports are made available to the user agencies of states and central departments, agricultural universities/ institutions and related organizations for planning various developmental programmes on soil and water conservation, water management, farm level planning, land reclamation, etc.