

RANCHI CENTRE

Soil and Land Use Survey of India (SLUSI), Ranchi Centre is located in the campus of Birsa Agricultural University, Kanke, Ranchi, Jharkhand amidst the Green Research Field of B.A.U. It is located in South Eastern India. The Centre has two storied 'L' shaped building with a Portico constructed on approx. one acre land including horticulture garden, raised beautiful plantation and security guard room. The ground floor of the building comprises Reception Room and Central hall in the Entrance. Soil laboratory, Guest room and covered parking of the vehicles are also available in Ground floor. The Officer's room, Administrative Section, Conference Room, GIS and Remote Sensing laboratory, Cartography, Library and rooms for technical staff are situated on the first floor of the building.

Ranchi Centre of SLUSI started operating in December, 1976 in a rented building at Ashok Nagar, Ranchi. In December, 2010, the Centre had been shifted to its newly constructed Office building at B.A.U. Campus Kanke, Ranchi. The Centre is engaged in conducting Soil Survey of different intensities in DVC, Subarnarekha, Hiraikud, Koel Karo, Mahanadi, Punpun, Rengali, Mandira and Son Catchment and Non-RVP catchment in the states of Jharkhand, Bihar, Odisha, Chhattisgarh, Madhya Pradesh and Uttar Pradesh as per the guidelines and targets of Headquarters. The mandate of the Centre is to generate detailed scientific database on soil and land characteristics for various user departments for planning and implementation of soil and water conservation in the watershed based development programme for natural resource management. The staff strength of the Centre is 47. The Centre is well equipped with the facilities of GIS and Remote Sensing laboratory, Soil Analysis and Cartographic laboratories.

A Soil Survey Officer with the support of Assistant Soil Survey Officer manages the activities of the Centre. The survey includes Rapid Reconnaissance Survey (1:50K Scale), Soil Resource Mapping (1:50 K Scale), Detailed Soil Survey (1:4 K to 1:10 K Scale), District wise Land Degradation Mapping (1:50K Scale) etc.



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In addition to development of Soil Information System (SIS) preparation of Micro-watershed Atlas of Jharkhand and Bihar, PMKSY, RKVY, Monitoring of Soil Health Card Scheme, Preparation of Fertility Maps, etc. are also undertaken by the Centre. The Centre is also open to consultancy projects and other scientific/technical programmes for which the Organisation is committed.

FACILITIES :-

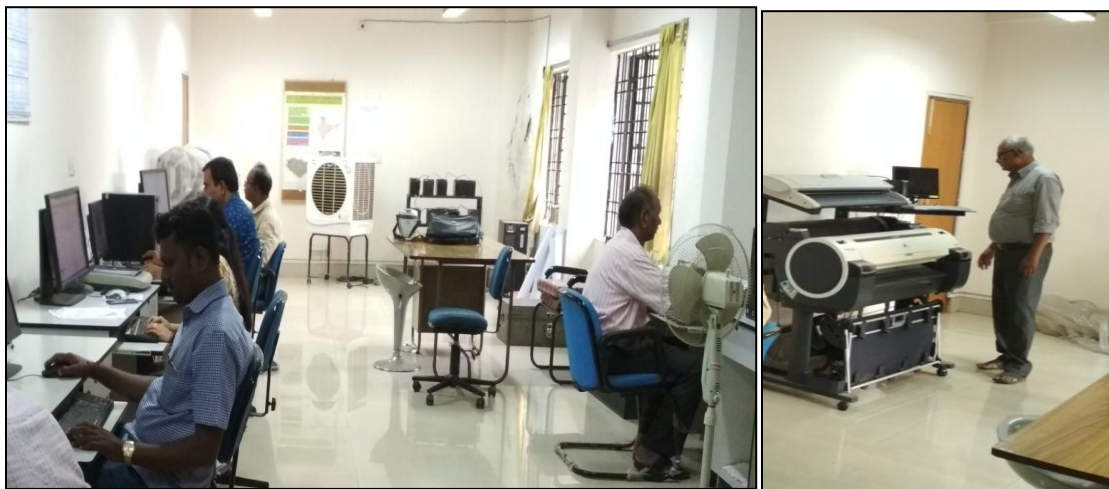
1. COMPUTER & GIS LABORATORY :-

There is no separate Remote Sensing Lab. in this Centre. It is combined with Computer and GIS lab.

1.	HARDWARE:		
A.	COMPUTERS		QUANTITY
	i.	HP Workstation	03
	ii.	High End System	03
	iii.	Desktop	03
	iv.	GPS Etrax -30	04
B.	SCANNER CUM PRINTER :		
	i.	Canon ipf 771 Repro MFP Scanner (36" width) with 1 No. PC (Attached)	01
	ii.	Canon ipf 771 Plotter (36" width)	01
	iii.	HP Scanjet-4570 C Scanner	01
	iv.	HP Laserjet Printer P 1007	03
	v.	Konica Minolta Photocopier Machine	01
2.	SOFTWARE :		
	i.	Arc GIS -10	01 No. Licence
	ii.	ERDAS Imagine -9.3	01 No. Licence
	iii.	Auto CAD 3D Map	02 No. Licence
	iv.	MS Office 2016	04 No.
3.	INTERNET AND LAN :		
	i.	BSNL Internet	
	ii.	All PCs & Workstation are not connected through LAN	

2. REMOTE SENSING LAB.

1.	Visual Interpretation	a. Light tables for Image Interpretation – 2 Nos. b. Stereoscope for Aerial Photo Interpretation – 3 Nos.
2.	Digital Analysis/GIS	i. 6 KVA Online UPS -01 No.



RS & GIS LABORATORY

3. PHOTO PROCESSING LABORATORY & PRINTING CELL :-

There is as such no photo processing lab. or printing cell in this Centre. However, Geo coded Images are printed with the help of Repro MFP Scanner cum Printer. Besides, technical reports are also printed with the help of hp Laserjet Printer/ KONICA MINOLTA Photocopier 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 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	1
10.	LPG Gas Cylinder (Bharat)	2
11.	LPG Gas Cylinder (Mini)	1
12.	Photo Chem Calorimeter	1
13.	Digital Weighing Balance	1
14.	Analog Weighing Balance	1



SOIL LABORATORY

5. INFRA STRUCTURE FACILITIES : CARTOGRAPHIC GIS LAB.

Sl. No.	Name of the Instrument	Purpose
1	Optical Pantograph -1 No.	<i>This machine is required for enlargement and reduction of various scales of maps for publication of reports</i>
2	Lamination Machine -1 No.	<i>This machine is required for preservation & Archival purpose for long lasting of different types of reference and thematic maps</i>
3	Ammonia Printing 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>This machine is required for Title 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 publication of the organisation as well as those received from other Centre of SLUSI are available in the library. Total number of reference books available in the library is 933.

7. DOCUMENTATION AND USER SERVICES :-

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. Upto the year 2018-19, **124** reports have been published by this Centre. Out of which **59** reports of Detailed Soil Survey and **43** reports of Rapid Reconnaissance Survey, **8** reports of Land Degradation Mapping, **14** reports of Soil Resource Mapping .The published reports of the Centre cover the area of Jharkhand, Bihar, Chhattisgarh, Madhya Pradesh, Odisha and Uttar Pradesh in the form of hard copy and are available since 1977. Abstract of the 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, watershed management, farm level planning, land reclamation etc.

Last Updated on 16th September, 2019