

## NATIONAL GCP LIBRARY:

Survey of India is the only government agency, which provides Geodetic Control throughout the country and also provides data to the various governments and other national organizations including defence forces, according to their requirements. With the introduction of GPS technology, Survey of India also develop a GPS Control network throughout the country. Standard Ground Control Points (GCPs) enable state cadastral department besides other agencies engaged in generating geo-spatial information to carry out their job in a national geodetic reference system.

Survey of India Prepared a Plan Scheme “Creation of National Ground Control Points (GCP) Library for India” during 10<sup>th</sup> and 11<sup>th</sup> five year plan to carried out in three phases. The first phase envisages the establishment of 300 well spread high precision Ground Control Points (GCPs) at a spacing of 250-300 km apart. In the second phase, the responsibility will be to densify it with 2200 precision Ground Control Points at a spacing of 30 to 40 km apart and in the third phase, it will be further densified to 65,000 GCPs connecting all the tri-junction village boundary pillars available on the ground.

### **Objective:**

### **National Control Frame work for Surveying and Mapping activities.**

### **Achievement:**

#### a) Establishment of GCP Library

##### **i. Status of GCP Library Phase I as on 30<sup>th</sup> June 2014**

<b>Sl. No.</b>	<b>Name of Project</b>	<b>Number of GCPs on which Processing and Network Adjustment Completed</b>
1.	GCP Library Phase I	292

##### **ii. Status of GCP Library Phase II as on 30<sup>th</sup> June 2014**

<b>Sl. No.</b>	<b>Name of Project</b>	<b>State in which GCPs Fall</b>	<b>Number of GCPs on which Processing and Network Adjustment Completed</b>
1.	GCP Library Phase II	Andhra Pradesh	329
2.	GCP Library Phase II	<i>Assam &amp; Nagaland</i>	59
3.	GCP Library Phase II	Bihar	81
4.	GCP Library Phase II	<i>Chhattisgarh</i>	73
5.	GCP Library Phase II	Delhi	---
6.	GCP Library Phase II	Gujarat, Daman & Diu	145
7.	GCP Library Phase II	Haryana	42
8.	GCP Library Phase II	Himanchal Pradesh	34
9.	GCP Library Phase II	<i>Jammu &amp; Kashmir</i>	53
10.	GCP Library Phase II	<i>Jharkhand</i>	58
11.	GCP Library Phase II	Karnataka	131
12.	GCP Library Phase II	Kerala & Lakshyadeep	46
13.	GCP Library Phase II	Madhya Pradesh	173

<b>Sl. No.</b>	<b>Name of Project</b>	<b>State in which GCPs Fall</b>	<b>Number of GCPs on which Processing and Network Adjustment Completed</b>
14.	GCP Library Phase II	Maharashtra & Goa	219
15.	GCP Library Phase II	Meghalaya & Arunachal Pradesh	37
16.	GCP Library Phase II	Orissa	95
17.	GCP Library Phase II	Punjab & Chandigarh	41
18.	GCP Library Phase II	Rajasthan	240
19.	GCP Library Phase II	Tamilnadu, Pondichery and Andaman & Nicobar Islands	116
20.	GCP Library Phase II	Tripura, Manipur & Mizoram	34
21.	GCP Library Phase II	Uttar Pradesh	86
22.	GCP Library Phase II	Uttarakhand	87
23.	GCP Library Phase II	West Bengal & Sikkim	73
		<b>Total</b>	<b>2252</b>

GCP Library Project field work and computations have been completed. Scrutiny, Network Adjustment, accuracy assessment and preparation of final report is under progress.

iii. GCP Library monuments have replaced erstwhile GT stations. These stations are subjected to weathering and human interference, owing to which these get damaged.

Catalogue of National GCP library is published in [www.surveyofindia.gov.in](http://www.surveyofindia.gov.in)