

Survey of India topographical maps: Reference scheme

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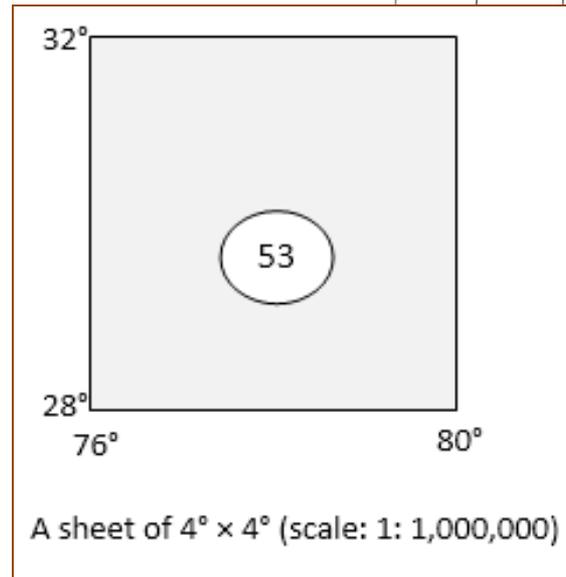
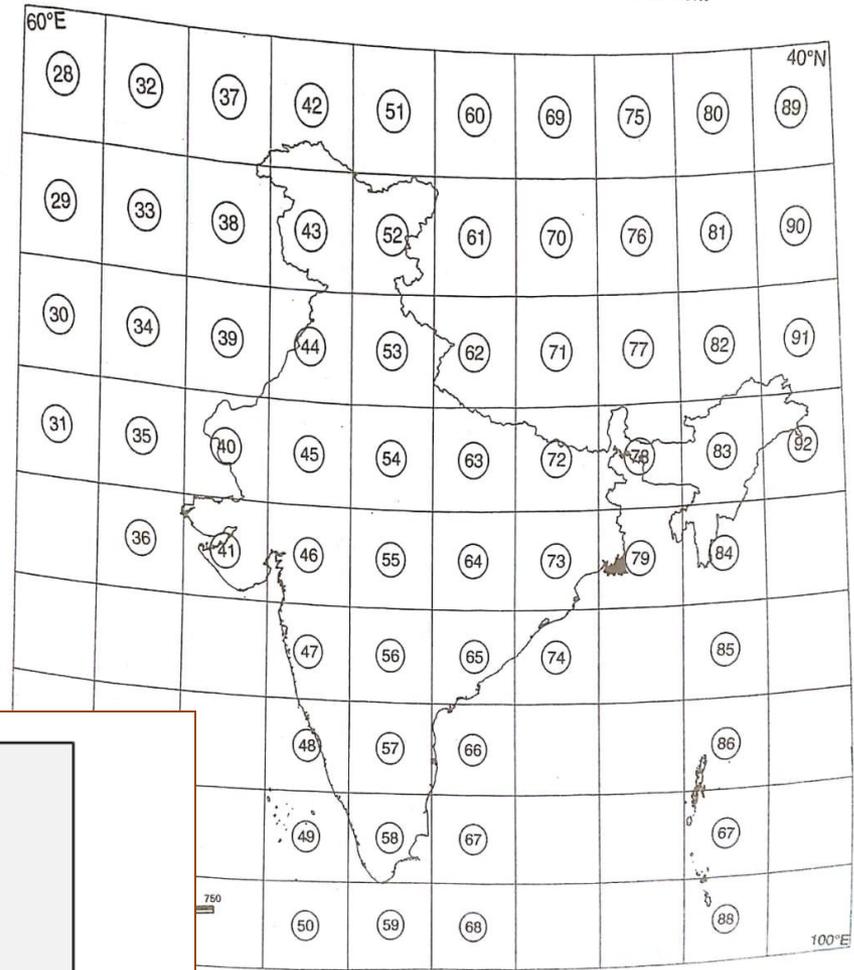
Fig. 8.3 Layout of Million Sheets Covering the Indian Subcontinent

❑ The British surveyors mapped the area of land between **4° N to 40° N Latitude** and **44° E to 124° E**

Longitude at the scale of 1: 1,000,000 is considered as a base map.

❑ Designated by numerals, 1-106.

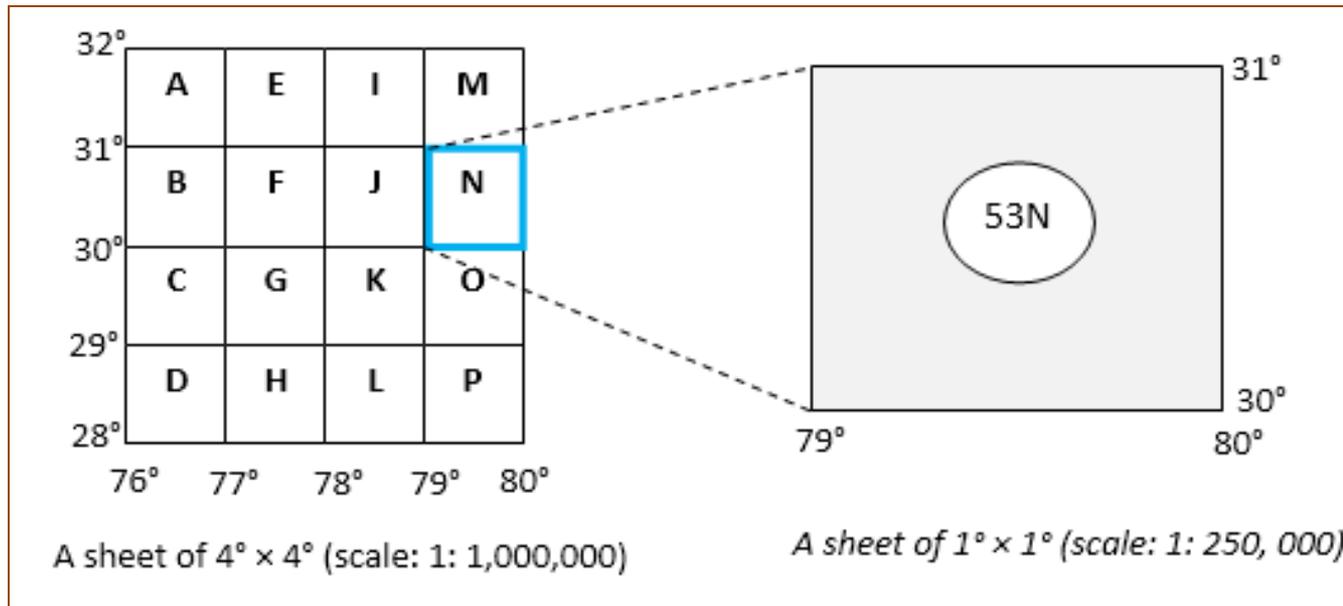
❑ 1 inch to 16 mile scale (1:1000,000): **Million sheet.**



❑ Each section is further divided into **16 degree sheets** (4 rows and 4 columns) each of **1° latitude × 1° longitude**. The sections start from Northwest direction, run column wise and end in Southeast direction.

❑ Designated by alphabets A-P.

❑ 1 inch to 4 mile scale (1: 250,000)



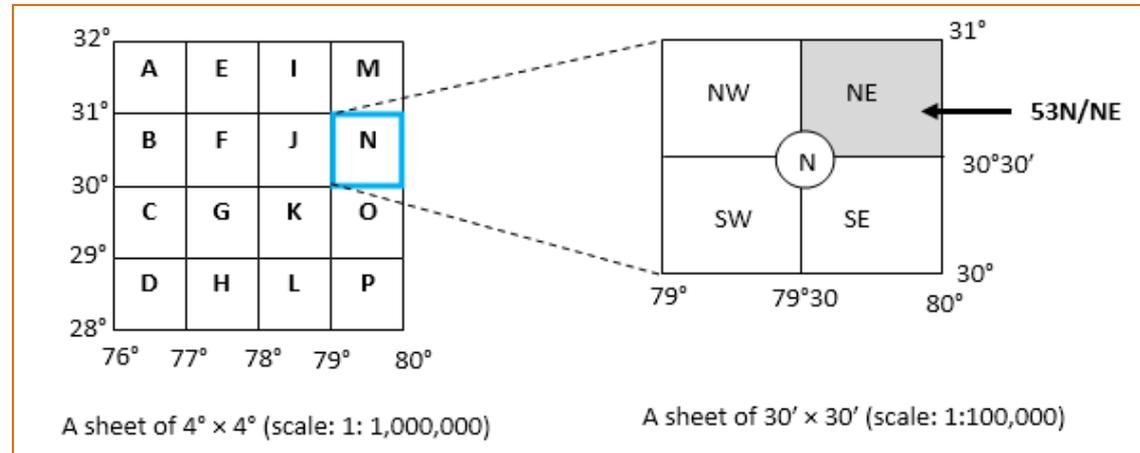
A Degree sheet is then further divided into 2 types:

First,

The $1^\circ \times 1^\circ$ sheets are further subdivided into four parts, each of **30' latitude \times 30' longitude**. These are identified by the cardinal directions NE, NW, SE and SW.

Half Degree sheet
or Half-inch sheet

Scale 1 inch to 2
mile (1: 100,000)

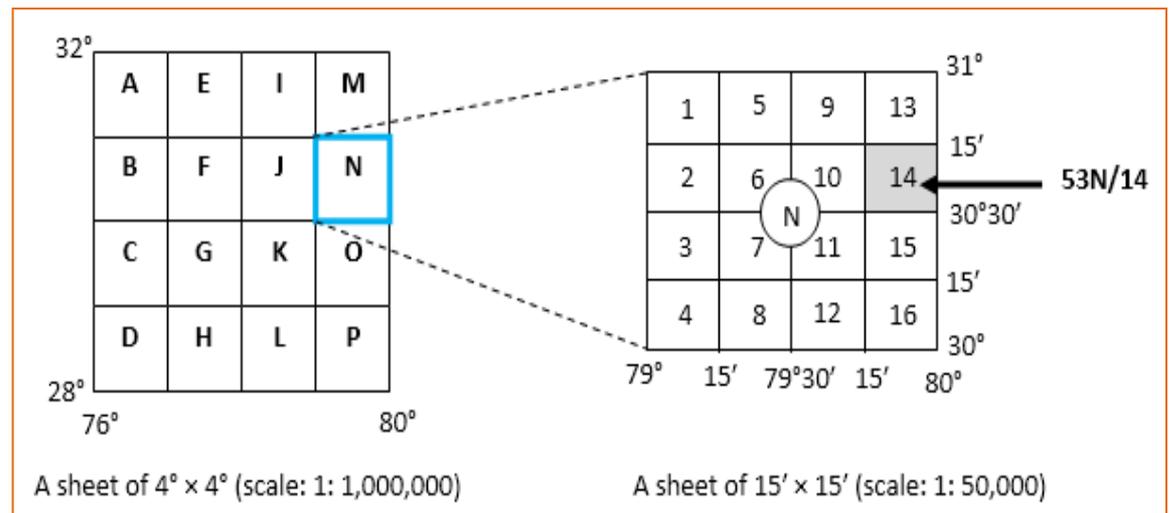


Second,

The $1^\circ \times 1^\circ$ sheets can also be divided into 16 sections each of **15' latitude \times 15' longitude** and are numbered from 1 to 16 in a columned manner.

Inch sheet or 15'
sheet

1 inch to 1 mile,
1:50,000



Name	Extension	Scale	Metric scale	R.F.	Reference No.
Million sheet or 1M sheet	4° × 4°	1 inch to 16 mile	1 to 10km	1: 1000,000	53
Degree sheet or Quarter- inch sheet	1° × 1°	1 inch to 4 mile	1 to 2.5km	1: 250000	53N
1/2 inch or 1/2 Degree sheet	30' X 30'	1 inch to 2 mile	1 to 1 km	1: 100000	53 N/ NE
Inch sheet or 15' sheet	15' X 15'	1 inch to 1 mile	2 to 1 km	1:50,000	53 N/14

❑ Late 1970s, topographical maps were redrawn on metric scales.

❑ More detailed maps were drawn on 1: 25000 scale and referenced in a two way:

➤ 6 special sheets of 7'30" X 5', designated by numerals 1-6.

➤ 4 sheets of 7'30" X 7'30", designated as NW, NE, SW and SE.

