

Chapter 5

DATA USED

To delineate the course of river Ganga between Ara to Patna, the following remote sensing data and Survey of India (SOI) toposheets were used.

5.1 Remote Sensing Data

For delineation of the course of river Ganga between Ara to Patna for the year 1989, False Colour Composite (FCC) paper prints of IRS-1A LISS-II sensor have been used. The details of the satellite remote sensing data used are given in Table 2. These data were procured from National Remote Sensing Agency (NRSA), Hyderabad.

Table 2: Remote sensing data used for delineation of the course of river Ganga between Ara to Patna during the year 1989

Sl. No.	Date	Satellite & Sensor	Spatial Resolution	Format	Scene	Path/Row
1	07.12.89	IRS-1A LISS-II	36.5 m	FCC	A2	22/50

For delineation of the course of river Ganga between Ara to Patna for the years 1996, 1998 and 2000 digital data of IRS-1C LISS-III sensor have been used. Also, digital data of IRS-1C PAN sensor have been used for delineation of the course of river Ganga between Ara to Danapur for the years 1996 and 2000. Details of the digital satellite remote sensing data used are given in Table 3. These data were also procured from National Remote Sensing Agency (NRSA), Hyderabad.

Table 3: Remote sensing data used for delineation of the course of river Ganga between Ara to Patna during the year 1989, 1996 and 2000

Sl. No.	Date	Satellite & Sensor	Spatial Resolution	Format	Scene	Path/Row
1	23.11.96	IRS-1C LISS-III	23.5 m	Digital	Full (30 % Shift Along Track)	104/53
2	23.11.96	IRS-1C PAN	5.8 m	Digital	Full (40 % Shift Along Track)	104/53
3	07.12.98	IRS-1C LISS-III	23.5 m	Digital	Full	104/53
4	02.11.2000	IRS-1C LISS-III	23.5 m	Digital	Full (30 % Shift Along Track)	104/53
5	02.11.2000	IRS-1C PAN	5.8 m	Digital	Full (40 % Shift Along Track)	104/53

5.2 Survey of India (SOI) Toposheets

Survey of India (SOI) toposheet numbers 72C and 72G of the scale 1:2,50,000 and 72 C/10, 72C/13, 72C/14 and 72G/2 of the scale 1: 50,000 have also been used. The details of the SOI toposheets are given in Table 4.

Table 4: Survey of India Toposheets used for delineation of the course of river Ganga between Ara to Patna during the year 1974-76

Scale	Toposheet No.	Year of Survey
1: 2,50,000	72C	1973-76
	72G	1973-74
1: 50,000	72 C/10	1968-70
	72C/13	1973-74
	72C/14	1973-74
	72G/2	1973-74