













































## APPENDIX 8.1 : LIST OF INDIAN SATELLITES

S.No.	Name	Launch Date	Launch Vehicle	Application
1.	Aryabhata	Apr. 19, 1975	C-1 Intercosmos <sup>a</sup>	Experimental
2.	Bhaskara-I	Jun. 07, 1979	C-1 Intercosmos <sup>a</sup>	Earth Observation, Experimental
3.	Rohini Technology Payload (RTP)	Aug. 10, 1979	SLV-3E1 <sup>b</sup>	Experimental
4.	Rohini Satellite RS-1	Jul. 18, 1980	SLV-3E2 <sup>b</sup>	Experimental
5.	Rohini Satellite RS-D1	May 31, 1981	SLV-3D1 <sup>b</sup>	Earth Observation
6.	APPLE	Jun. 19, 1981	Ariane -1(V-3) <sup>c</sup>	Communication, Experimental
7.	Bhaskara-II	Nov. 20, 1981	C-1 Intercosmos <sup>a</sup>	Earth Observation, Experimental
8.	INSAT-1A	Apr. 10, 1982	Delta <sup>d</sup>	Communication
9.	Rohini Satellite RS-D2	Apr. 17, 1983	SLV-3 <sup>b</sup>	Earth Observation
10.	INSAT-1B	Aug. 30, 1983	Shuttle [PAM-D] <sup>d</sup>	Communication
11.	SROSS-1			Experimental
12.	IRS-1A			Earth Observation
13.	SROSS-2			Earth Observation, Experimental
14.	INSAT-1C			Communication
15.	INSAT-1D			Communication
16.	IRS-1B			Earth Observation
17.	SROSS-C			Experimental
18.	INSAT-2A			Communication
19.	INSAT-2B			Communication
20.	IRS-1E			Earth Observation
21.	SROSS-C2			Experimental
22.	IRS-P2			Earth Observation
23.	INSAT-2C			Communication
24.	IRS-1C			Earth Observation
25.	IRS-P3	Mar. 21, 1996	PSLV-D3/IRS-P3 <sup>b</sup>	Earth Observation
26.	INSAT-2D	Jun. 04, 1997	Ariane-44L H10-3 <sup>c</sup>	Communication
27.	IRS-1D	Sep. 29, 1997	PSLV-C1/IRS-1D <sup>b</sup>	Earth Observation
28.	INSAT-2E	Apr. 03, 1999	Ariane-42P H10-3 <sup>c</sup>	Communication
29.	Oceansat (IRS-P4)	May 26, 1999	PSLV-C2/IRS-P4 <sup>b</sup>	Earth Observation
30.	INSAT-3B	Mar. 22, 2000	Ariane-5G <sup>c</sup>	Communication
31.	GSAT-1	Apr. 18, 2001	GSLV-D1/GSAT-1 <sup>b</sup>	Communication
32.	The Technology Experiment Satellite (TES)	Oct. 22, 2001	PSLV-C3/TES <sup>b</sup>	Earth Observation
33.	INSAT-3C	Jan. 24, 2002	Ariane5-V147 <sup>c</sup>	Climate & Environment, Communication

34.	KALPANA-1	Sep. 12, 2002	PSLV-C4/ KALPANA-1 <sup>b</sup>	Climate & Environment, Communication
35.	INSAT-3A	Apr. 10, 2003	Ariane5-V160 <sup>c</sup>	Climate & Environment, Communication
36.	GSAT-2	May 08, 2003	GSLV-D2/GSAT-2 <sup>b</sup>	Communication
37.	INSAT-3E	Sep. 28, 2003	Ariane5-V162 <sup>c</sup>	Communication
38.	IRS-P6 / RESOURCESAT-1	Oct. 17, 2003	PSLV-C5/ RESOURCESAT-1 <sup>b</sup>	Earth Observation
39.	EDUSAT	Sep. 20, 2004	GSLV-F01/ EDUSAT(GSAT-3) <sup>b</sup>	Communication
40.	HAMSAT	May 05, 2005	PSLV-C6/ CARTOSAT-1/HAMSAT <sup>b</sup>	Communication
41.	CARTOSAT-1	May 05, 2005	PSLV-C6/ CARTOSAT-1/HAMSAT <sup>b</sup>	Earth Observation
42.	INSAT-4A	Dec. 22, 2005	Ariane5-V169 <sup>c</sup>	Communication
43.	INSAT-4C	Jul. 10, 2006	GSLV-F02/INSAT-4C <sup>b</sup>	Communication
44.	CARTOSAT-2	Jan. 10, 2007	PSLV-C7/CARTOSAT-2 /SRE-1 <sup>b</sup>	Earth Observation
45.	SRE-1	Jan. 10, 2007	PSLV-C7/CARTOSAT-2 /SRE-1 <sup>b</sup>	Experimental
46.	INSAT-4B	Mar. 12, 2007	Ariane5 <sup>c</sup>	Communication
47.	INSAT-4CR	Sep. 02, 2007	GSLV-F04/INSAT-4 CR <sup>b</sup>	Communication
48.	IMS-1	Apr. 28, 2008	PSLV-C9/ CARTOSAT-2A <sup>b</sup>	Earth Observation
49.	CARTOSAT - 2A	Apr. 28, 2008	PSLV-C9/ CARTOSAT-2A <sup>b</sup>	Earth Observation
50.	Chandrayaan-1	Oct. 22, 2008	PSLV-C11 <sup>b</sup>	Planetary Observation
51.	RISAT-2	Apr. 20, 2009	PSLV-C12/RISAT-2 <sup>b</sup>	Earth Observation
52.	ANUSAT	Apr. 20, 2009	PSLV-C12/RISAT-2 <sup>b</sup>	University/ Academic Institute
53.	Oceansat-2	Sep. 23, 2009	PSLV-C14/ OCEANSAT-2 <sup>b</sup>	Climate & Environment, Earth Observation
54.	GSAT-4	Apr. 15, 2010	GSLV-D3 / GSAT-4 <sup>b</sup>	Communication
55.	CARTOSAT-2B	Jul. 12, 2010	PSLV-C15/ CARTOSAT-2B <sup>b</sup>	Earth Observation
56.	STUDSAT	Jul. 12, 2010	PSLV-C15/ CARTOSAT-2B <sup>b</sup>	University/ Academic Institute
57.	GSAT-5P	Dec. 25, 2010	GSLV-F06/GSAT-5P <sup>b</sup>	Communication
58.	RESOURCESAT-2	Apr. 20, 2011	PSLV-C16/ RESOURCESAT-2 <sup>b</sup>	Earth Observation
59.	YOUTHSAT	Apr. 20, 2011	PSLV-C16/ RESOURCESAT-2 <sup>b</sup>	Student Satellite
60.	GSAT-8	May 21, 2011	Ariane-5 VA-202 <sup>c</sup>	Communication

61.	GSAT-12	Jul. 15, 2011	PSLV-C17/GSAT-12 <sup>b</sup>	Communication
62.	Megha-Tropiques	Oct. 12, 2011	PSLV-C18/Megha-Tropiques <sup>b</sup>	Climate & Environment, Earth Observation
63.	SRMSat	Oct. 12, 2011	PSLV-C18/Megha-Tropiques <sup>b</sup>	University/Academic Institute
64.	Jugnu	Oct. 12, 2011	PSLV-C18/Megha-Tropiques <sup>b</sup>	University/Academic Institute
65.	RISAT-1	Apr. 26, 2012	PSLV-C19/RISAT-1 <sup>b</sup>	Earth Observation
66.	GSAT-10	Sep. 29, 2012	Ariane-5 VA-209 <sup>c</sup>	Communication, Navigation
67.	SARAL	Feb. 25, 2013	PSLV-C20/SARAL <sup>b</sup>	Climate & Environment, Earth Observation
68.	IRNSS-1A	Jul. 01, 2013	PSLV-C22/IRNSS-1A <sup>b</sup>	Navigation
69.	INSAT-3D	Jul. 26, 2013	Ariane-5 VA-214 <sup>c</sup>	Climate & Environment, Disaster Management System
70.	GSAT-7	Aug. 30, 2013	Ariane-5 VA-215 <sup>c</sup>	Communication
71.	Mars Orbiter Mission Spacecraft (Mangalyaan-1)	Nov. 05, 2013	PSLV-C25 <sup>b</sup>	Planetary Observation
72.	GSAT-14	Jan. 05, 2014	GSLV-D5/GSAT-14 <sup>b</sup>	Communication
73.	IRNSS-1B	Apr. 04, 2014	PSLV-C24/IRNSS-1B <sup>b</sup>	Navigation
74.	IRNSS-1C	Oct. 16, 2014	PSLV-C26/IRNSS-1C <sup>b</sup>	Navigation
75.	GSAT-16	Dec. 07, 2014	Ariane-5 VA-221 <sup>c</sup>	Communication
76.	Crew module Atmospheric Reentry Experiment	Dec. 18, 2014	LVM-3/CARE Mission <sup>b</sup>	Experimental
77.	IRNSS-1D	Mar. 28, 2015	PSLV-C27/IRNSS-1D <sup>b</sup>	Navigation
78.	GSAT-6 (INSAT-4E)	Aug. 27, 2015	GSLV-D6 <sup>b</sup>	Communication
79.	Astrosat	Sep. 28, 2015	PSLV-C30 <sup>b</sup>	Space Sciences
80.	GSAT-15	Nov. 11, 2015	Ariane-5 VA-227 <sup>c</sup>	Communication, Navigation
81.	IRNSS-1E	Jan. 20, 2016	PSLV-C31/IRNSS-1E <sup>b</sup>	Navigation
82.	IRNSS-1F	Mar. 10, 2016	PSLV-C32/IRNSS-1F <sup>b</sup>	Navigation
83.	IRNSS-1G	Apr. 28, 2016	PSLV-C33/IRNSS-1G <sup>b</sup>	Navigation
84.	Cartosat-2 Series Satellite	Jun. 22, 2016	PSLV-C34/CARTOSAT-2 Series Satellite <sup>b</sup>	Earth Observation
85.	SathyabamaSat	Jun. 22, 2016	PSLV-C34/CARTOSAT-2 Series Satellite <sup>b</sup>	University/Academic Institute
86.	Swayam	Jun. 22, 2016	PSLV-C34/CARTOSAT-2 Series Satellite <sup>b</sup>	University/Academic Institute

87.	INSAT-3DR	Sep. 08, 2016	GSLV-F05/ INSAT-3DR <sup>b</sup>	Climate & Environment, Disaster Management System
88.	ScatSat-1	Sep. 26, 2016	PSLV-C35/ SCATSAT-1 <sup>b</sup>	Climate & Environment
89.	Pratham	Sep. 26, 2016	PSLV-C35/ SCATSAT-1 <sup>b</sup>	University/ Academic Institute
90.	PiSat	Sep. 26, 2016	PSLV-C35/ SCATSAT-1 <sup>b</sup>	University/ Academic Institute
91.	GSAT-18	Oct. 06, 2016	Ariane-5 VA-231 <sup>c</sup>	Communication
92.	ResourceSat-2A	Dec. 07, 2016	PSLV-C36/ RESOURCESAT-2A <sup>b</sup>	Earth Observation
93.	Cartosat -2 Series Satellite	Feb. 15, 2017	PSLV-C37/Cartosat -2 Series Satellite <sup>b</sup>	Earth Observation
94.	INS-1A	Feb. 15, 2017	PSLV-C37/Cartosat -2 Series Satellite <sup>b</sup>	Experimental
95.	INS-1B	Feb. 15, 2017	PSLV-C37/Cartosat -2 Series Satellite <sup>b</sup>	Experimental
96.	GSAT-9	May 05, 2017	GSLV-F09/GSAT-9 <sup>b</sup>	Communication
97.	GSAT-19	Jun. 05, 2017	GSLV Mk III-D1/ GSAT-19 Mission <sup>b</sup>	Communication
98.	Cartosat-2 Series Satellite	Jun. 23, 2017	PSLV-C38/Cartosat-2 Series Satellite <sup>b</sup>	Earth Observation
99.	NIUSAT	Jun. 23, 2017	PSLV-C38/Cartosat-2 Series Satellite <sup>b</sup>	University/ Academic Institute
100.	GSAT-17	Jun. 29, 2017	Ariane-5 VA-238 <sup>c</sup>	Communication
101.	IRNSS-1H	Aug. 31, 2017	PSLV-C39/IRNSS- 1H Mission <sup>b</sup>	Navigation
102.	INS-1C	Jan. 12, 2018	PSLV-C40/Cartosat-2 Series Satellite Mission <sup>b</sup>	Experimental
103.	Mircosat	Jan. 12, 2018	PSLV-C40/Cartosat-2 Series Satellite Mission <sup>b</sup>	Experimental
104.	Cartosat-2 Series Satellite	Jan. 12, 2018	PSLV-C40/Cartosat-2 Series Satellite Mission <sup>b</sup>	Earth Observation
105.	GSAT-6A	Mar. 29, 2018	GSLV-F08/GSAT-6A Mission <sup>b</sup>	Communication
106.	IRNSS-1I	Apr. 12, 2018	PSLV-C41/IRNSS-1I <sup>b</sup>	Navigation

India has so far also launched 239 foreign satellites of 28 countries from Satish Dhawan Space Center, Sriharikota, Andhra Pradesh: May 26, 1999 (02); Oct. 22, 2001 (02); Jan. 10, 2007 (02); Apr. 23, 2007 (01); Jan. 21, 2008 (01); Apr. 28, 2008 (08); Sep. 23, 2009 (06); July 12, 2010 (03); Jan. 12, 2011 (01); Apr. 20, 2011 (01) Sep. 09, 2012 (02); Feb. 25, 2013 (06); June 30, 2014 (05); July 10, 2015 (05); Sep. 28, 2015 (06); Dec. 16, 2015 (06); June 22, 2016 (17); Sep. 26, 2016 (05); Feb. 15, 2017 (101) and thus setting a world record; June 23, 2017 (29). Jan 12, 2018 (28); Sep. 16, 2018 (02).

Details can be seen at [www.isro.gov.in](http://www.isro.gov.in).

- a Launched from Kapustin Yar Missile and Space Complex, Soviet Union (now Russia)
- b Launched from Satish Dhawan Space Centre, Sriharikota, Andhra Pradesh
- c Launched from Centre Spatial Guyanais, Kourou, French Guiana
- d Launched from Air Force Eastern Test Range, Florida
- e Launched from Baikonur Cosmodrome, Kazakhstan