

**Secretariat**Distr.: General
13 August 2019

Original: English

**Committee on the Peaceful
Uses of Outer Space****Information furnished in conformity with the Convention
on Registration of Objects Launched into Outer Space****Note verbale dated 12 April 2019 from the Permanent Mission of
India to the United Nations (Vienna) addressed to the
Secretary-General**

The Permanent Mission of India to the United Nations (Vienna), in accordance with article IV of the Convention on Registration of Objects Launched into Outer Space (General Assembly resolution 3235 (XXIX), annex), has the honour to transmit information concerning Indian space objects and launches relating to the Microsat, EMISAT, Kalamsat, GSAT and PSLV missions, launched from the Satish Dhawan Space Centre, Sriharikota, India, and from the Guiana Space Centre, Kourou, French Guiana, during the period January to April 2019 (see annex).*

* The data on space objects referenced in the annex had been entered into the Register of Objects Launched into Outer Space as at 30 April 2019.



Annex

Registration data on space objects launched by India during the period January to April 2019*

Number	Name of the space object	Appropriate designator of the space object	Date and territory or location of launch			Basic orbital characteristics				General function of the space object
			Launch vehicle	Launch date	Launch site	Apogee (km)	Perigee (km)	Inclination (degrees)	Period (minutes)	
Spacecraft missions										
1.	Microsat-R	2019-006A	PSLV-C44	24 January 2019	SDSC	349	214	96.64	90.14	Experimental imaging satellite
2.	PS4 Orbital Platform of PSLV-C44 with Kalamsat-V2	2019-006B	PSLV-C44	24 January 2019	SDSC	452	445	98.8	93.55	Kalamsat-V2 is a students' experimental payload
3.	GSAT-31	2019-007B	Ariane-5 VA-247	6 February 2019	CSG	35 800	35 775	0.02	1 436.14	Communications satellite
4.	EMISAT	2019-018A	PSLV-C45	1 April 2019	SDSC	759	736	98.38	99.77	Electromagnetic spectrum measurement
5.	PS4 Orbital Platform of PSLV-C45 with three experimental payloads	2019-018AC	PSLV-C45	1 April 2019	SDSC	515	435	97.52	94.1	Three payloads: (a) Automatic Identification System (AIS) for maritime satellite applications; (b) Automatic Packet Repeating System (APRS) for amateur radio operations; and (c) Advanced Retarding Potential Analyzer for Ionospheric Studies (ARIS) for structural and compositional studies of the ionosphere

Note: Space objects were launched from the Satish Dhawan Space Centre (SDSC), Sriharikota, India, or from the Guiana Space Centre (CSG), Kourou, French Guiana.

* The registration data are reproduced in the form in which they were received.