United Nations A/AC.105/INF/437



Distr.: General 10 July 2019

Original: English

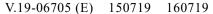
Committee on the Peaceful Uses of Outer Space

Information furnished in conformity with General Assembly resolution 1721 B (XVI) by States launching objects into orbit or beyond

Note verbale dated 21 June 2019 from the Permanent Mission of Bhutan to the United Nations (Vienna) addressed to the Secretary-General

The Permanent Mission of Bhutan to the United Nations (Vienna) has the honour to transmit, in accordance with paragraph 1 of General Assembly resolution 1721 B (XVI) of 20 December 1961, information on the Bhutan-1 CubeSat, the country's first satellite, which was launched to the International Space Station on 29 June 2018 and released into space on 10 August 2018 (see annex).







Annex

Registration data on a space object launched by Bhutan*

Bhutan-1

Committee on Space Research

international designator

1998-067PF

Name of space object

Bhutan-1

National designator/registration number

BTN1

State of registry

Bhutan

Deployment

10 August 2018 UTC; International Space Station

Basic orbital parameters

Nodal period

92.3 minutes

Inclination

51.6 degrees

Apogee radius

397 kilometres

Perigee radius

388 kilometres

General function of space object

- 1. To capture images of the Earth
- 2. To deliver Automatic Packet Reporting System (APRS) digital repeater services to amateur radio users
- 3. To collect data from remote ground sensors developed by students
- 4. To demonstrate the performance of a newly-designed global positioning system (GPS) chip in a 1U CubeSat
- 5. To demonstrate the effects of a single-event latch-up on the satellite
- 6. To measure the magnetic field in space for comparison with ground data

Space object owner or operator

Department of Information

Technology and Telecom, Ministry of Information and Communications,

Bhutan

Launch vehicle

Falcon 9 Full Thrust

Other information

Bhutan-1 was developed as part of the BIRDS-2 CubeSat constellation project hosted at the Kyushu Institute of

nosted at the Kydshu flist

Technology in Japan

2/2 V.19-06705

^{*} The information was submitted using the form prepared pursuant to General Assembly resolution 62/101 and has been reformatted by the Secretariat.