

Indian Space Policy- insights on regulatory framework for authorization

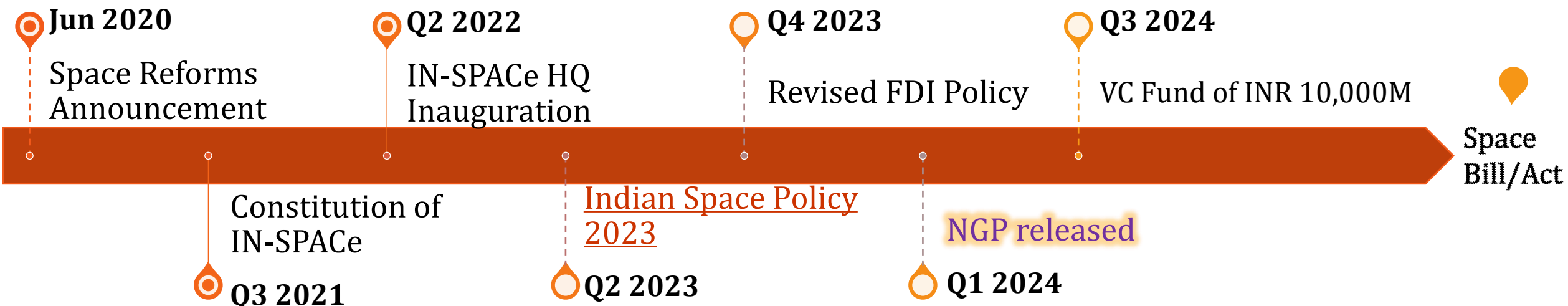
4th India Spectrum Management Conference 2024 (ISMC-24)

7 - 8 November 2024; New Delhi

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November 08, 2024

Space Reforms & Policies: Journey so far



IN-SPACe Roles

Promote	Enable	Authorize	Supervise
<ul style="list-style-type: none">Price support & fundingInternational, Industry and Academia OutreachStrategy for Indian space sector growth	<ul style="list-style-type: none">Access to ISRO facilities & TechnologyAccess to FundingMfr. Clusters, Technical CentreIncubation Centre	<ul style="list-style-type: none">Authorize all space activitiesAct as a single window agency	<ul style="list-style-type: none">Oversee space activities by NGEsSpace Industry standards and best practicesMonitoring of the authorized activities



**Norms, Guidelines and Procedures
for Implementation of
Indian Space Policy-2023
in respect of
Authorization of Space Activities
(NGP)**



**Indian National Space Promotion and Authorization Centre
Department of Space
Government of India**

May 2024

IN:ISP2023:NGP2024/V1.0

Draws its executive power from the gazette notification issued by DoS dt. October 02, 2021

List of Space Activities needing Authorization

Criteria for granting Authorization

Process of granting Authorization

Conditions/guidelines to be adhered to by an Applicant

Template application forms and Authorization Certificate

1. Who needs Authorization?

Any Entity carrying out **certain** space activities to or from Indian Territory or within the jurisdiction of India including the area to the limit of its exclusive economic zone

2. Who can apply for Authorization? Only an Indian Entity

3. Salient provisions

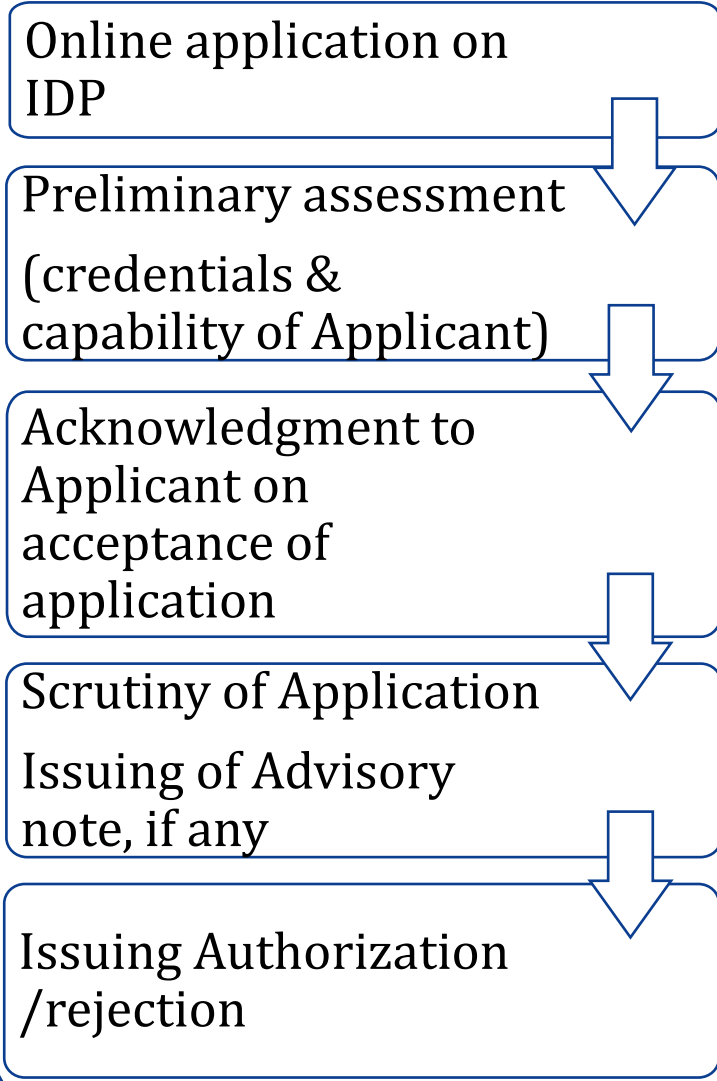
- Management & Control, ownership
- Adherence to international commitments and safe & sustainable space operations
- Adherence to safety & security requirements
- Criminal antecedents clause
- Authorization validity
- Authorization being Non-transferrable
- Financial penalty on unilateral discontinuation of services

4. Third party liability guidelines, Registration of Space Objects, ITU filings by NGEs, access of Indian orbital resources to NGEs.



- 1. Establishment and/or operations of Space Object(s)**
 - Communication/ Remote Sensing / amateur satellite systems
 - Hosted payload(s)
 - Objects other than communication and remote sensing satellite systems
- 2. Operations of Space Transportation Systems**
 - Undertaking Sub-orbital and/or Orbital Launches;
 - Establishment and operation of launch facility.
- 3. Planned re-entry of Space Objects with or without recovery**
- 4. Establishment and/or operation of the ground systems**
(SCC-TT&C + MCC, Data reception stations, SSA related ground sensors)
- 5. Dissemination of earth observation/Remote Sensing data**
- 6. Sale/ purchase/ transfer of Space Objects in-orbit**
- 7. Any other kinds of Authorizations announced by IN-SPACe**

Authorization Process




Authorization criteria

- Applicant’s credentials, management & control, foreign shareholding
- Safety & national security
- Geopolitical considerations
- Compliance to national & international spectrum guidelines, including RF interference
- Third party liability
- Safe & Sustainable operations in Space
- Export & import regulations

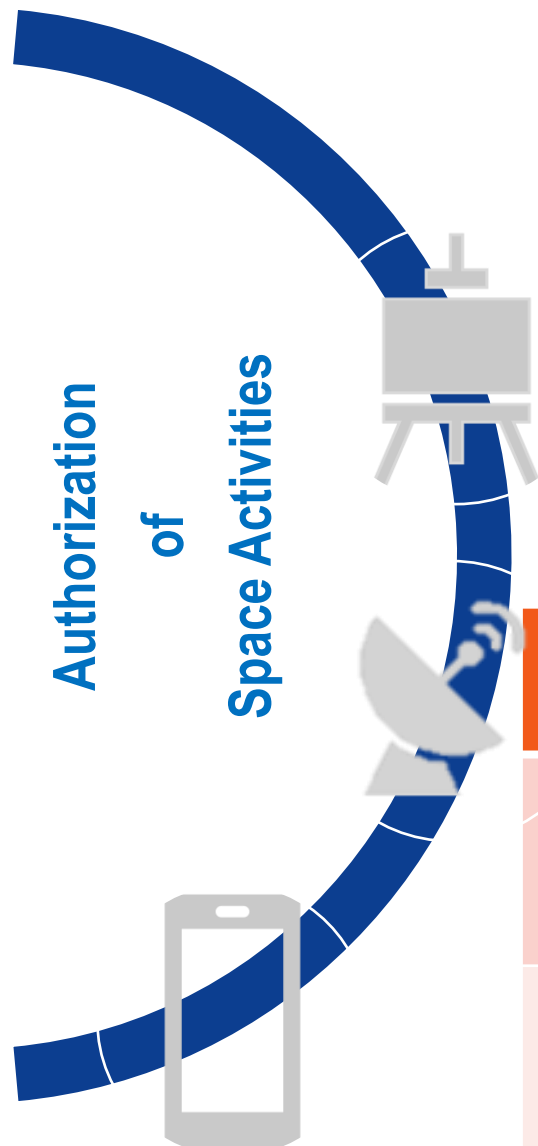
Timeline

Review within IN-SPACe (Type-1)	Review on security & geo-political considerations (Type-2)	Inter-departmental review (Type-3)
$T_0 + 75$ days (Max)	$T_0 + 90$ days (Max)	$T_0 + 120$ days (Max)
<i>T_0 – Receipt of complete information</i>		

AUTHORIZATION NGP (SATCOM)



Authorization
of
Space Activities



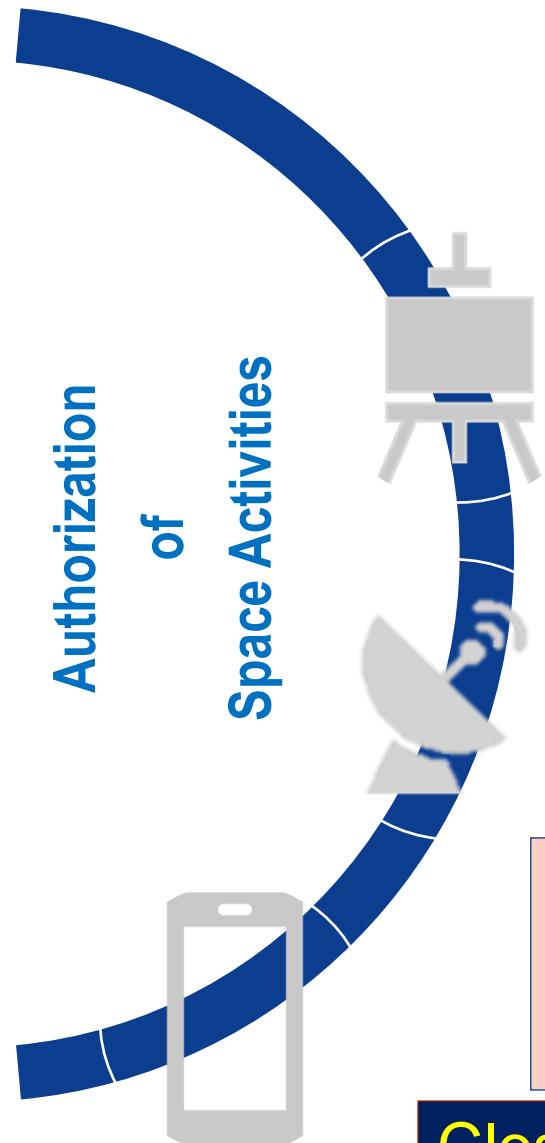
I. Establishment and/or operation of **Indian** satellite/constellation for communication services in GSO and/or NGSO using

(a) Indian Orbital Resources (b) Non-Indian Orbital Resources;

II. Authorization of **non-Indian GSO/NGSO satellite/constellation** to enable provisioning of its capacity in India for comm services;

Existing lease agreement involving NSIL/Antrix (DoS) or direct lease of the C-Band capacity of the Non-Indian Satellite permitted/valid only till March 31, 2025.

Satellite	Registration	ITU filing	SCC (TT&C+MCC)	Validity
Indian	Yes	New Or Existing Filing or orbital resource	Nominally within Indian Territory (1 MCC in India)	Till end of operation life
Non-Indian	No	Indian* or Non-Indian (not for Plan bands)	Outside or Within India	5 years/ * May be considered for up to end of operation life



- Protection from interference of the existing services of Indian and non-Indian satellites by the new entrant.
- New entrant & Authorized satellite operators to collaborate, negotiate & enter into freq coordination/coexistence arrangements in good faith ensuring operations over India are without harmful interference.
- In-orbit procurement/acquisition of a satellite/constellation is permitted with prior IN-SPACE authorization.
- Capacity can be further provisioned through lease/sub-lease/sale/resale
- **Priority to non-Indian satellites willing to operate under Indian ITU Filing**

Access to the available un-utilized/under-process Indian ITU Filings or coordinated/ allotted orbit resource to NGEs through Announcement of Opportunity.

Close coordination with WPC/DoT during entire process of authorization

Making New Indian ITU Filing for operating Indian/Non-Indian satellite

- ✓ Application to IN-SPACE on IDP
- ✓ Advisory Note by IN-SPACE after requisite due diligence and evaluation
- ✓ Applicant applies to WPC with Advisory Note
- ✓ DoT OM *“Guidelines and Procedures for Submission of Satellite Network Filings to International Telecommunication Union (ITU) by Indian Entities”*
- ✓ Applicant enjoys ‘rights of use’ as long as it continues to operate a satellite (after MIFR Registration)
- ✓ With prior approval of IN-SPACE, Applicant is permitted to
 - seek suspension of the satellite network assignment
 - relinquish/surrender or transfer/sublet the ITU Filing

Available resources through Announcement of Opportunity

- ✓ Mechanism, T&C as per the NGP
 - Only Entities with **Indian Management & Control** eligible
 - AO to have pre-defined selection criteria and pre-defined method to apply these criteria
 - Beneficiary free to relinquish/surrender or seek suspension with prior IN-SPACE approval: **no transfer/sublet permitted**
 - Beneficiary enjoys “rights of use” as long as it operates a satellite
- ✓ First AO for unutilized ITU filing(s) in process- one ITU filing for communication satellite being identified on ‘**as is where is**’ basis, *Bids received, under evaluation.*
- ✓ Close coordination with WPC and ISRO (for Filings made by them)

Thank you

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