

Government of India
Ministry of Communications
Department of Telecommunications
(Wireless Planning and Coordination Wing)

No. J-19045/019/2024-SAT

Dated: 10-10-2024


Office Memorandum

NGSO-based communication services are being deployed for the first time in India by Licensees using authorised NGSO constellations. With a view to enable such Licensees to demonstrate compliance to security and technical conditions, the competent authority has decided that spectrum may be assigned on provisional basis subject to the following conditions:

- (i) Possess both of the following:
 - a. Satellite-based communication service License/ Authorisation, issued by the Department of Telecom (DoT), and
 - b. IN-SPACE Authorisation Certificate for NGSO constellation to be used by the Licensee for provisioning of capacity in India
- (ii) Purpose of provisional assignment of spectrum: To demonstrate all the compliances related to security and technical conditions by the Licensee.
- (iii) Period of validity of provisional spectrum assignment: upto 6 months or till compliances related to security and technical conditions are completed and demonstrated by the Licensee whichever is earlier.
- (iv) No services on commercial basis are to be provided.
- (v) Charges: Rs. 1,10,000 (one-time, non-refundable).
- (vi) Terms and Conditions:
 - a. No claim can be made for regular use/ assignment of the provisional spectrum frequencies.
 - b. Any regular spectrum assignment will be subject to the regulations/policies including authorization framework, spectrum pricing mechanism etc., prevalent at or after the time of expiry of the above security compliance period.
 - c. In case of interference to the existing usages/ telecom operations due to this assignment, operations shall be stopped immediately. The operations shall commence only after the matter gets resolved.
 - d. The Licensee may request for import of Gateway and/or User terminals for the said purpose.

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- e. The Licensee shall ensure that the network is isolated, safe and secure from all the vulnerabilities.
 - f. The Licensee, for security compliance purpose, shall use the same network that is intended to be deployed for the commercial launch of communication services.
 - g. The data generated during the security compliance period shall be stored within India and the Licensee shall ensure the security, secrecy and privacy of such data. The Licensee shall also share the location of server/ data center and possession details thereof to DoT. The Licensee will not share the data generated during operations with anyone except LEAs without explicit permission of DoT. All LEAs shall have right to inspect and seek data from the deployments of the Licensee/ terminals.
 - h. Every fortnight from the date of provisional spectrum assignment, the Licensee must report the deployment details of the user terminals (name, address, geo-coordinates, etc) to the DoT and LEA.
 - i. A consolidated report on the deployment details of the user terminals must also be submitted to the DoT at the end of the provisional spectrum assignment
 - j. Compliance to DoT directions in the above period, if any.
2. The application for spectrum assignment on provisional basis by the Licensee shall be submitted by email to WPC Wing (HQ) at sat-wpc-dot@gov.in through the Licensee's official email id as per application form given in Annexure-I. Details of personal particulars of the Owner/ Managing Director/ Executive Director of the Licensee to be submitted as per Annexure-II. The documents as listed in the check list to be submitted with the application are as per Annexure-III.
 3. This order will come into effect from 21.10.2024.
 4. This is issued with the approval of the competent authority.


(Amit Gulati)
Sr. DWA
WPC Wing

**Application for provisional assignment of spectrum for NGSO-based systems
(to be sent to sat-wpc-dot@gov.in)**

1. Name of Applicant (In Block Letters):
2. Registered Address
3. Particulars of License(s)/ authorisation(s) issued by the DoT and IN-SPACE
4. Satellite Network constellation details
 - (i) Name of NGSO constellation:
 - (ii) Orbital Information
 - a. Number of orbital planes
 - b. Number of satellites in each orbital plane:
 - c. Angle of Inclination of the orbital plane:
w.r.t. Earth's equatorial plane
 - d. Apogee of Satellites (Km):
 - e. Perigee of Satellites (Km):
 - (iii) List of prior ITU-filed NGSO/GSO Indian entities with which frequency coordination is completed:
 - (iv) Details of spectrum coordinated with prior ITU-filed NGSO/GSO Indian entities:
 - (v) Address and geo-coordinates of Gateway(s) installed or proposed to be installed in India for which provisional spectrum assignment required:
5. Technical parameters for which provisional spectrum assignment sought:
 - (i) Frequency bands for Satellite payload

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Gateway Link

	Frequency Range (GHz)	Radiocommunication Service ¹
Earth-to-Space		
Space-to-Earth		

User Link

	Frequency Range (GHz)	Radiocommunication Service ¹
Earth-to-Space		
Space-to-Earth		

- (ii) Carrier Centre Frequency, Bandwidth, Emission, Antenna Gain, EIRP, Polarisation (Gateway and User Terminals)

Gateway (Earth-to-Space)

Carrier No.	Carrier Centre frequency (MHz)	Assigned bandwidth (MHz)	Antenna Gain Max (dBi)	EIRP Max (dBW)	Emission	Polarisation
1						
2						

Gateway (Space-to-Earth)

Carrier No.	Carrier Centre frequency (MHz)	Assigned bandwidth (MHz)	Emission	Polarisation
1				
2				

User Terminal (Earth-to-Space)

Carrier No.	Carrier Centre frequency (MHz)	Assigned bandwidth (MHz)	Antenna Gain Max (dBi)	EIRP Max (dBW)	Emission	Polarisation
1						
2						

User Terminal (Space-to-Earth)

Carrier No.	Carrier Centre frequency (MHz)	Assigned bandwidth (MHz)	Emission	Polarisation
1				
2				

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¹ as per Section III of Article 1 of ITU Radio Regulations

6. Details of equipment to be imported, if needed:
7. Particulars of foreign nationals, if any,
who will operate the wireless equipment
(Name, Nationality, address, passport and
Visa details)
8. Charges paid through Bharatkosh Portal²: Rs 1,10,000

DECLARATION: I/ We hereby affirm that:

- (i) details given above are correct & factual;
- (ii) the conditions imposed for the assignment of spectrum on provisional basis shall be observed;
- (iii) no unauthorised person shall be permitted to have access to the wireless installations;
- (iv) this provisional spectrum assignment is at my/ our cost and risk;
- (v) I/ We shall have no right to claim provisionally assigned spectrum after the expiry of this provisional assignment;
- (vi) I/ We take full responsibility of any consequences arising out of such provisional spectrum assignment;
- (vii) I/ We agree to demonstrate compliance to security/ technical conditions as communicated by DoT;
- (viii) I/ We shall submit a plan to demonstrate compliance to security/ technical conditions within 4 weeks of issue of the provisional spectrum to DoT else this assignment shall be liable to be terminated without notice.

Place & Date

(SIGNATURE)

Name & Designation

Office stamp

²(Charges to be paid through BharatKosh (<https://www.bharatkosh.gov.in>) using following details

Payment Type: Spectrum Usage Charges

Functional Head: 127500103040600-Demonstration of License

Ministry: Telecommunications

Pay and Account Office: 077188-Controller of Communication Accounts, PAO Hq

Drawing & Disbursing Office (DDO): 205155-Dept of Telecommunication (Hq), SO (Cash)

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**PERSONAL PARTICULARS OF OWNER/MANAGING
DIRECTOR/EXECUTIVE DIRECTOR**

1. Name in full :
2. Father's name :
3. Designation :
4. Nationality :
5. Date of birth :
6. Place of birth :
7. Permanent address :
8. Present address :
9. Passport No., if any :

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Annexure-III

CHECK LIST

(to be digitally signed)

<u>S.No.</u>	<u>Document(s)</u>	<u>Yes/ No</u>
<u>1</u>	Digitally signed filled application form in PDF format to WPC Wing (Hq)	
<u>2</u>	Digitally signed copy of License(s)/ Authorisation(s) issued by DoT and IN-SPACe (in PDF format)	
<u>3</u>	Technical literature/ schematic network diagram, specifications of the equipment proposed to be used during the security compliance period (in PDF format)	
<u>4</u>	Details of equipment to be imported (digital signed copy in PDF format)	
<u>5</u>	Digitally signed copy of BharatKosh receipt of payment of Rs <u>1,10,000</u>	

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