UNION INTERNATIONALE DES TÉLÉCOMMUNICATIONS
BUREAU DES RADIOCOMMUNICATIONS

INTERNATIONAL TELECOMMUNICATION UNION
RADIOCOMMUNICATION BUREAU

UNIÓN INTERNACIONAL DE TELECOMUNICACIONES
OFICINA DE RADIOCOMUNICACIONES

RÉSEAU À SATELLITE SATELLITE NETWORK RED DE SATÉLITE	INS-2	PARTIE PART PARTE	I-S
STATION TERRIENNE EARTH STATION ESTACIÓN TERRENA	---	BR IFIC / DATE BR IFIC / DATE BR IFIC / FECHA	2996 / 16.05.2023
ADM. RESPONSABLE RESPONSIBLE ADM. ADM. RESPONSABLE	IND	LONGITUDE NOMINALE NOMINAL LONGITUDE LONGITUD NOMINAL	NGSO
NUMÉRO D'IDENTIFICATION IDENTIFICATION NUMBER NÚMERO DE IDENTIFICACIÓN	123500041 / 122500062		
RENSEIGNEMENTS REÇUS PAR LE BUREAU LE / INFORMATION RECEIVED BY THE BUREAU ON / INFORMACIÓN RECIBIDA POR LA OFICINA EL	13.03.2023		

Notifications reçues au titre de		Notifications received under		Notificaciones recibidas en virtud de lo dispuesto en	
X	**Article 11 du Règlement des radiocommunications**	X	**Article 11 of the Radio Regulations**	X	**Artículo 11 del Reglamento de Radiocomunicaciones**
	Article 5 des Appendices 30 et/ou 30A		**Article 5 of Appendices 30 and/or 30A**		**Artículo 5 de los Apéndices 30 y/o 30A**
	Article 8 de l'Appendice 30B		**Article 8 of Appendix 30B**		**Artículo 8 del Apéndice 30B**

Pour plus d'informations sur les dispositions réglementaires et l'explication des codes ou symboles utilisés dans cette publication, veuillez consulter la Préface.	For more details on the regulatory provisions and the explanation of the codes or symbols used in this publication, please consult the Preface.	Para más detalles sobre las disposiciones reglamentarias y la explicación de los códigos o símbolos utilizados en esta publicación, sírvase consultar el Prefacio.

国际电信联盟
无线电通信局

МЕЖДУНАРОДНЫЙ СОЮЗ ЭЛЕКТРОСВЯЗИ
БЮРО РАДИОСВЯЗИ

الاتحاد الدولي للاتصالات
مكتب الاتصالات الراديوية

卫星网络 **СПУТНИКОВАЯ СЕТЬ** الشبكة الساتلية	**INS-2**		部分 **ЧАСТЬ** الجزء	**I-S**
地球站 **ЗЕМНАЯ СТАНЦИЯ** المحطة الأرضية	**---**		无线电通信局国际频率信息通报 / 日期 **ИФИК БР / ДАТА** النشرة الإعلامية الدولية للترددات/ رقمها وتاريخها	**2996 / 16.05.2023**
负责主管部门 **ОТВЕТСТВЕННАЯ АДМ.** الإدارة المسؤولة	**IND**	标称经度 **НОМИНАЛЬНАЯ ДОЛГОТА** خط الطول الاسمي **NGSO**	识别号 **ИДЕНТИФИКАЦИОННЫЙ НОМЕР** رقم تعرف الهوية	**123500041 / 122500062**
通信局收到资料的日期 / **ДАТА ПОЛУЧЕНИЯ ИНФОРМАЦИИ БЮРО** / معلومات استلمها المكتب في				**13.03.2023**

根据以下条款收到的通知		Заявления, полученные согласно		بطاقات تبليغ مستلمة بموجب	
X	**《无线电规则》第11条**	X	**Статья 11 Регламента радиосвязи**	**المادة 11 من لوائح الراديو**	X
	附录30和/或30A第 5条		**Статья 5 Приложений 30 и/или 30A**	**المادة 5 من التذييلين 30 و/أو 30A**	
	附录30B第 8条		**Статья 8 Приложения 30B**	**المادة 8 من التذييل 30B**	

欲更详细了解本公报资料中使用的规则性条款和代码或符号的说明，请查阅前言。	Более подробная информация о регламентарных положениях и разъяснение кодов либо обозначений, используемых в настоящей публикации, содержится в Предисловии.	يرجى الرجوع إلى المقدمة للاطلاع على مزيد من التفاصيل الخاصة بالأحكام التنظيمية وتفسير الرموز والمعطيات المستعملة في هذا القسم.

On trouvera la description des éléments de données utilisés dans les publications dans le document: - ItemsDescription_F.pdf - http://www.itu.int/ITU-R/space/brific/legend/	The description of the data items used in the publications can be found in the document: - ItemsDescription_E.pdf - http://www.itu.int/ITU-R/space/brific/legend/	La descripción de los datos empleados en las publicaciones figura en el documento: - ItemsDescription_S.pdf - http://www.itu.int/ITU-R/space/brific/legend/
出版物中使用的数据项说明，见文件： - ItemsDescription_C.pdf - http://www.itu.int/ITU-R/space/brific/legend/	Описание элементов данных, используемых в данной публикации, содержится в документе: - ItemsDescription_R.pdf - http://www.itu.int/ITU-R/space/brific/legend/	يمكن الاطلاع على وصف عناصر المعطيات المستعملة في المنشورات في الوثيقة: ItemsDescription_A.pdf http://www.itu.int/ITU-R/space/brific/legend/

PARTIE I-S / PART I-S / PARTE I-S / 第I-S部分 / ЧАСТЬ I-S / I-Sالجزء

M	*A1a* Sat. Network	INS-2	*A1f1* Notif. adm.	IND	*A1f3* Inter. sat. org.		*BR1* Date of receipt	13.03.2023	*BR20/BR21* BR IFIC no./part	2996/1
BR6a/BR6b Id. no.	123500041	122500062	*BR3a/BR3b* Provision reference	11.2	N		*BR2* Adm. serial no.			

Il est prévu d'exploiter ce système à satellites non OSG dans le cadre d'une mission de courte durée conformément à la Résolution 32 (CMR-19)
This non-GSO satellite system is planned to be operated as short duration mission in accordance with Resolution 32 (WRC-19)
Está previsto que este sistema de satélites no OSG opere como misión de corta duración en los términos de la Resolución 32 (CMR-19)
此non-GSO卫星系统计划按照第32号决议(WRC-19）进行短期任务操作
Данная спутниковая система НГСО планируется к использованию для непродолжительных полетов в соответствии с Резолюцией 32 (ВКР-19)
من المخطط تشغيل هذا النظام الساتلي غير المستقر بالنسبة إلى الأرض كمهمة قصيرة المدة وفقاً للقرار32 (WRC-19)

Résumé / Summary / Resumen / 綜述 / Резюме / خلاصة

B1a Beam designation	B2 Emi-Rcp	BR8 Action code	BR7a Group id.	BR9 Action code	C3a Assigned freq. band	BR47 Frequency band (MHz)	BR53 Nb of freq.	C4a Class of station	BR54 Nb of emiss.
DPUL	R	A	123623714		12	145.819 - 145.831	1	EA	1
TCU	R		122632879		15	149.8175 - 149.8325	1	ET	1
DPDL	E	A	123623715		12	145.819 - 145.831	1	EA	1
SDAT	E		122632875		2000	2225 - 2227	1	EW	1
TMD1	E		122632876		10	435.075 - 435.085	1	EA, EK, ER	1
TMD2	E		122632878		40	2225.98 - 2226.02	1	EK, ER, ET	1

PARTIE I-S / PART I-S / PARTE I-S / 第I-S部分 / ЧАСТЬ I-S / I-Sالجزء

M | *A1a* Sat. Network: INS-2 | *A1f1* Notif. adm.: IND | *A1f3* Inter. sat. org. | *BR1* Date of receipt: 13.03.2023 | *BR20/BR21* BR IFIC no./part: 2996/1

BR6a/BR6b Id. no.: 123500041 122500062 | *BR3a/BR3b* Provision reference: 11.2 N | *BR2* Adm. serial no. | DPUL R

A1f2 Submitted on behalf

A1g Short Mission Duration Res 32: Y | *A24a* SDM commitment: Y | *A23a* Commitment Res 35: N

A4b1 No. of orbital planes: 2 | *A4b2* Ref. body: T | *BR110* Total number of satellites: 4

A4b1a Constellation: N

A4b3a No. of space stations simult. trans. on Northern Hemisphere | *A4b3b* No. of space stations simult. trans. on Southern Hemisphere

A4b7a Max. sat. rcv. simult. | *A4b7b* Avg. no. of As. E-stn | *A4b7c* Avg. distance

A4b7d1 Excl. zone type | *A4b7d2* Excl. zone width

A4b6bis Limited or Extended set

Action code	*Orbital plane id. no.*	*A4b1d Orbit set id.*	*A4b4a Inclination angle*	*A4b4b No. of satellites in this plane*	*A4b4c Period* / *A4b4f Min. altitude*	*A4b4d Apogee* / *A4b4e Perigee*	*A4b4g Right asc.* / *A4b4i Arg. of perigee*	*A4b6c Station keeping* / *A4b6d Repeat period*	*A4b6e Specific modelled station* / *A4b6f Precession rate*	*A4b4j Long. asc. node* / *A4b6j Long. tolerance*	*A4b4m,n,o Sun synchronous* *Y/N*	*Reference node*	*Node local time*
	1		97.5	2	0-01:35	527.63e0					Y		
					522.11e0	522.11e0							
A	2		37.2	2	0-01:33	450e0					N		
					450e0	450e0							

Les renseignements figurant dans le tableau «PHASE» (éléments A.4.b.4.j, A.4.b.4.h et A.4.b.4.l de l'Appendice 4) ne sont pas inclus dans le présent fichier et peuvent être consultés directement dans la base de données mdb, si besoin est.	Information from the “PHASE” table (A.4.b.4.j, A.4.b.4.h and A.4.b.4.l of Appendix 4) is not included in this file and may be consulted directly from the mdb database if needed.	En este archivo no se incluye información del Cuadro «FASE» (A.4.b.4.j, A.4.b.4.h y A.4.b.4.l del Apéndice 4) que, en caso necesario, puede consultarse directamente en la base de datos mdb.
本文件不包括“阶段”表（附录4的A.4.b.4.j、A.4.b.4.h和A.4.b.4.l）中的信息，如有需要，可直接从mdb数据库中查询。	Information from the “PHASE” table (A.4.b.4.j, A.4.b.4.h and A.4.b.4.l of Appendix 4) is not included in this file and may be consulted directly from the mdb database if needed. Информация из таблицы "ФАЗА" (A.4.b.4.j, A.4.b.4.h и A.4.b.4.l Приложения 4) в этот файл не включена и при необходимости может быть получена непосредственно из базы данных mdb.	معلومات جدول "الطور" (البنود A.4.ب.4.ي وA.4.ب.4.ح وA.4.ب.4.ل من التذييل 4) غير مدرجة في هذا الملف ويمكن الحصول عليها مباشرة من قاعدة البيانات mdb إذا لزم الأمر.

A17a Compliance with PFD limit dB(W/(m²·1MHz)) in the band 1164 - 1215 MHz

A17a.bis a Calculated EPFD value in the band 1610.6 – 1613.8 MHz at RA SDT dB(W/(m²·20 kHz))

A17a.bis b Calculated EPFD value in the band 1610.6 – 1613.8 MHz at RA VLBI dB(W/(m²·20 kHz))

A17b2 Calculated aggregate PFD value in the band 5030.0 - 5150.0 MHz dB(W/(m²·150 kHz))

A17b3 EPFD in the band 4990.0 - 5000.0 MHz dB(W/(m²·10 MHz))

A17d Mean PFD dB(W/(m²·1 MHz))

A17e1a Calculated EPFD value in the band 42.5 - 43.5 GHz at RA SDT dB(W/(m²·1 GHz))

A17e1b Calculated EPFD value in the band 42.5 - 43.5 GHz at RA SDT dB(W/(m²·500 kHz))

A17e1c Calculated EPFD value in the band 42.5 - 43.5 GHz at RA VLBI dB(W/(m²·500 kHz))

A15a EPFD compliance | *A18a* Aircraft earth station commitment

PARTIE I-S / PART I-S / PARTE I-S / 第I-S部分 / ЧАСТЬ I-S / I-Sالجزء

M | *A1a* Sat. Network: INS-2 | *A1f1* Notif. adm.: IND | *A1f3* Inter. sat. org. | *BR1* Date of receipt: 13.03.2023 | *BR20/BR21* BR IFIC no./part: 2996/1

BR6a/BR6b Id. no.: 123500041 122500062 | *BR3a/BR3b* Provision reference: 11.2 N | *BR2* Adm. serial no. | DPUL R

BR104 Commitment Res 770: N | *BR103* Demonstration Res 770:

BR108 Indication under No. 11.41.2 that efforts have been made to effect coordination with those administrations whose assignments were the basis of the unfavourable findings under No. 11.38, without success: N

BR109 Confirmation that frequency assignments which operates under No. 4.4 will meet the conditions referred in RoP No. 4.4 §1.6: N

A | *B1a/BR17* Beam designation: DPUL | *B1b* Steerable | *B2* Emi-Rcp: R | *B3a1* Max. co-polar gain: 1.5

B2a1 Transmit only when visible from notified service area: Y | *B2a2* Min. Elev. Angle

B3c1 Co-polar antenna pattern

Co-polar ref. pattern	Coef. A	Coef. B				Co-polar rad. diag.
ND-SPACE						

List of orbital planes

2

B4a3a1 Angle alpha | *B4a3a2* Angle beta

BR92 Attach. for missing angle alpha/beta

BR7a/BR7b Group id.: 123623714 | *BR1* Date of receipt: 13.03.2023 | *C2c* RR No. 4.4 | *BR97* No. 11.43A | *BR98* For use in accordance with Res 163/164

A2a Date of bringing into use as submitted by the Administration: 10.02.2023

A2a Date of bringing into use: 10.02.2023 | *A2b* Period of valid.: 3 | *A3a* Op. agency: 011 | *A3b* Adm. resp.: A | *BR16* Value of type C8b | *A4b7cbis* Min. elevation angle

BR96 Start date for 9.1/9.1A: 12.02.2021

BR62 Expiry date for bringing into use: 12.02.2028 | *BR63* Confirmed date of bringing into use | *BR64* Date of receipt of 1st Res49

BR14 Special Section

C4a Class of station: EA | *C3a* Assigned freq. band: 12 | *C5a* Noise temperature: 606 | *B4b5* Peak of pfd

C4b Nature of service: CP | *C6a* Polarization type: M | *C6b* Polarization angle

C11a1 Service area no.: 1 | *C11a3* Service area diagram

A5/A6 Coordinations/Agreements

C2a1 Assigned frequency

145.825	MHz																		

A13 Ref. to Special Sections	*C7a* Design. of emission		*C8a1/C8b1* Max. peak pwr	*C8a2/C8b2* Max. pwr dens.	*C8c1* Min. peak pwr	*C8c2* Attch.	*C8c3* Min. pwr dens.	*C8c4* Attch.	*C8e1* C/N ratio	*C8e2* Attch.
API/A/12767	1	12K0G1D--	11.2	-29.6	6.7		-34.1		21	

C7b Carrier frequency of the emissions (12K0G1D--)

145.825	MHz																		

C10b1 Assoc. earth station id.	*C10b2* Type	*C10c1* Geographical coord.		*C10c2* Ctry	*C10d1/C10d2* Cls. / Nat.		*C10d3* Max. iso. gain	*C10d4* Bmwdth		*C10d7* Ant. diameter		*C8g1* Max. aggr. pwr.	*C8g2* Aggr. bandwidth	*C8g3* Transp. bandwidth = Aggr. bandwidth
DPES	T				1	TA CP	2.2	60						

C10d5a Co-polar antenna pattern

C10b1 Assoc. earth station id.	Co-polar ref. pattern	Coef. A	Coef. B	Coef. C	Coef. D	Phi1	Co-polar rad. diag.
DPES	ND-EARTH						

13C Remarks

PARTIE I-S / PART I-S / PARTE I-S / 第I-S部分 / ЧАСТЬ I-S / I-Sالجزء

M *A1a* Sat. Network: INS-2 *A1f1* Notif. adm.: IND *A1f3* Inter. sat. org.: *BR1* Date of receipt: 13.03.2023 *BR20/BR21* BR IFIC no./part: 2996/1

BR6a/BR6b Id. no.: 123500041 122500062 *BR3a/BR3b* Provision reference: 11.2 N *BR2* Adm. serial no.: DPUL R

B1a/BR17 Beam designation: TCU *B1b* Steerable: *B2* Emi-Rcp: R *B3a1* Max. co-polar gain: 0

B2a1 Transmit only when visible from notified service area: Y *B2a2* Min. Elev. Angle:

B3c1 Co-polar antenna pattern

Co-polar ref. pattern	Coef. A	Coef. B				Co-polar rad. diag.
						5

List of orbital planes

1

B4a3a1 Angle alpha: *B4a3a2* Angle beta:

BR92 Attach. for missing angle alpha/beta:

BR7a/BR7b Group id.: 122632879 *BR1* Date of receipt: 07.04.2022 *C2c* RR No. 4.4: *BR97* No. 11.43A: *BR98* For use in accordance with Res 163/164:

A2a Date of bringing into use as submitted by the Administration: 14.02.2022

A2a Date of bringing into use: 14.02.2022 *A2b* Period of valid.: 3 *A3a* Op. agency: 011 *A3b* Adm. resp.: A *BR16* Value of type C8b: *A4b7cbis* Min. elevation angle:

BR96 Start date for 9.1/9.1A: 12.02.2021

BR62 Expiry date for bringing into use: 12.02.2028 *BR63* Confirmed date of bringing into use: 14.02.2022 *BR64* Date of receipt of 1st Res49:

BR14 Special Section:

C4a Class of station: ET *C3a* Assigned freq. band: 15 *C5a* Noise temperature: 1000 *B4b5* Peak of pfd:

C4b Nature of service: OT *C6a* Polarization type: M *C6b* Polarization angle:

C11a1 Service area no.: *C11a3* Service area diagram:

A5/A6 Coordinations/Agreements:

C2a1 Assigned frequency

149.825	MHz																		

A13 Ref. to Special Sections	*C7a* Design. of emission		*C8a1/C8b1* Max. peak pwr	*C8a2/C8b2* Max. pwr dens.	*C8c1* Min. peak pwr	*C8c2* Attch.	*C8c3* Min. pwr dens.	*C8c4* Attch.	*C8e1* C/N ratio	*C8e2* Attch.
API/A/12767	1	15K0G1D--	24.7	-11.2	20		-16		17	

C7b Carrier frequency of the emissions (15K0G1D--)

149.825	MHz																		

C10b1 Assoc. earth station id.	*C10b2* Type	*C10c1* Geographical coord.		*C10c2* Ctry	*C10d1/C10d2* Cls. / Nat.			*C10d3* Max. iso. gain	*C10d4* Bmwdth		*C10d7* Ant. diameter		*C8g1* Max. aggr. pwr.	*C8g2* Aggr. bandwidth	*C8g3* Transp. bandwidth = Aggr. bandwidth
8EYUL	S	080E57 25	26N54 48	IND	1	TT	OT	16	23						
8EYU	S	077E30 42	13N02 05	IND	1	TT	OT	16	23						
TAMPERE	S	023E45 39	61N29 52	FIN	1	TT	OT	13.5	44.3						
DELFT	S	004E21 25	52N00 06	HOL	1	TT	OT	11.5	30						

C10d5a Co-polar antenna pattern

C10b1 Assoc. earth station id.	Co-polar ref. pattern	Coef. A	Coef. B	Coef. C	Coef. D	Phi1	Co-polar rad. diag.
8EYUL	AP8						
8EYU	AP8						
TAMPERE	AP8						
DELFT	AP8						

PARTIE I-S / PART I-S / PARTE I-S / 第I-S部分 / ЧАСТЬ I-S / I-Sالجزء

M | *A1a* Sat. Network: INS-2 | *A1f1* Notif. adm.: IND | *A1f3* Inter. sat. org.: | *BR1* Date of receipt: 13.03.2023 | *BR20/BR21* BR IFIC no./part: 2996/1

BR6a/BR6b Id. no.: 123500041 122500062 | *BR3a/BR3b* Provision reference: 11.2 N | *BR2* Adm. serial no.: | TCU R

13C Remarks:

A | *B1a/BR17* Beam designation: DPDL | *B1b* Steerable: | *B2* Emi-Rcp: E | *B3a1* Max. co-polar gain: 1.5

B2a1 Transmit only when visible from notified service area: Y | *B2a2* Min. Elev. Angle:

B3b1b Applicable PFD will be met by applying the method in Annex 1 of ROP 21.16: | Attach. no.:

B3c1 Co-polar antenna pattern

Co-polar ref. pattern	Coef. A	Coef. B				Co-polar rad. diag.
ND-SPACE						

List of orbital planes

2

B4a3a1 Angle alpha: | *B4a3a2* Angle beta:

BR92 Attach. for missing angle alpha/beta:

BR7a/BR7b Group id.	*BR1* Date of receipt	*C2c* RR No. 4.4	*BR97* No. 11.43A	*BR98* For use in accordance with Res 163/164
123623715	13.03.2023			

A2a Date of bringing into use as submitted by the Administration: 10.02.2023

A2a Date of bringing into use: 10.02.2023 | *A2b* Period of valid.: 3 | *A3a* Op. agency: 011 | *A3b* Adm. resp.: A | *BR16* Value of type C8b: | *A4b7cbis* Min. elevation angle:

BR96 Start date for 9.1/9.1A: 12.02.2021

BR62 Expiry date for bringing into use: 12.02.2028 | *BR63* Confirmed date of bringing into use: | *BR64* Date of receipt of 1st Res49:

BR14 Special Section:

C4a Class of station: EA | *C3a* Assigned freq. band: 12 | *B4b5* Peak of pfd:

C4b Nature of service: CP | *C6a* Polarization type: M | *C6b* Polarization angle:

C8d1 Max. tot. peak pwr.: -3.5 | *C8d2* Contiguous bandwidth:

C11a1 Service area no.: 2 | *C11a3* Service area diagram:

A5/A6 Coordinations/Agreements:

C2a1 Assigned frequency

145.825	MHz												

A13 Ref. to Special Sections	*C7a* Design. of emission		*C8a1/C8b1* Max. peak pwr	*C8a2/C8b2* Max. pwr dens.	*C8c1* Min. peak pwr	*C8c2* Attch.	*C8c3* Min. pwr dens.	*C8c4* Attch.	*C8e1* C/N ratio	*C8e2* Attch.
API/A/12767	1	12K0G1D--	-3.5	-44.3	-3.5		-44.3		21	

C7b Carrier frequency of the emissions (12K0G1D--)

145.825	MHz												

C10b1 Assoc. earth station id.	*C10b2* Type	*C10c1* Geographical coord.		*C10c2* Ctry	*C10d1/C10d2* Cls. / Nat.		*C10d3* Max. iso. gain	*C10d4* Bmwdth	*C10d6* Noise temp.	*C10d7* Ant. diameter	
DPES	T				1	TA CP	2.2	60	511		

C10d5a Co-polar antenna pattern

C10b1 Assoc. earth station id.	Co-polar ref. pattern	Coef. A	Coef. B	Coef. C	Coef. D	Phi1	Co-polar rad. diag.
DPES	ND-EARTH						

13C Remarks:

PARTIE I-S / PART I-S / PARTE I-S / 第I-S部分 / ЧАСТЬ I-S / I-Sالجزء

M | *A1a* Sat. Network: INS-2 | *A1f1* Notif. adm.: IND | *A1f3* Inter. sat. org.: | *BR1* Date of receipt: 13.03.2023 | *BR20/BR21* BR IFIC no./part: 2996/1

BR6a/BR6b Id. no.: 123500041 122500062 | *BR3a/BR3b* Provision reference: 11.2 N | *BR2* Adm. serial no.: | DPDL E

B1a/BR17 Beam designation: SDAT | *B1b* Steerable: | *B2* Emi-Rcp: E | *B3a1* Max. co-polar gain: 5

B2a1 Transmit only when visible from notified service area: Y | *B2a2* Min. Elev. Angle:

B3b1b Applicable PFD will be met by applying the method in Annex 1 of ROP 21.16: | Attach. no.:

B3c1 Co-polar antenna pattern

Co-polar ref. pattern	Coef. A	Coef. B				Co-polar rad. diag.
						6

List of orbital planes

1

B4a3a1 Angle alpha: | *B4a3a2* Angle beta:

BR92 Attach. for missing angle alpha/beta:

BR7a/BR7b Group id.: 122632875 | *BR1* Date of receipt: 07.04.2022 | *C2c* RR No. 4.4: | *BR97* No. 11.43A: | *BR98* For use in accordance with Res 163/164:

A2a Date of bringing into use as submitted by the Administration: 14.02.2022

A2a Date of bringing into use: 14.02.2022 | *A2b* Period of valid.: 3 | *A3a* Op. agency: 011 | *A3b* Adm. resp.: A | *BR16* Value of type C8b: | *A4b7cbis* Min. elevation angle:

BR96 Start date for 9.1/9.1A: 12.02.2021

BR62 Expiry date for bringing into use: 12.02.2028 | *BR63* Confirmed date of bringing into use: 14.02.2022 | *BR64* Date of receipt of 1st Res49:

BR14 Special Section:

C4a Class of station: EW | *C3a* Assigned freq. band: 2000 | *B4b5* Peak of pfd:

C4b Nature of service: OT | *C6a* Polarization type: M | *C6b* Polarization angle:

C8d1 Max. tot. peak pwr.: -3 | *C8d2* Contiguous bandwidth:

C11a1 Service area no.: | *C11a3* Service area diagram:

A5/A6 Coordinations/Agreements:

C2a1 Assigned frequency

2226	MHz																		

A13 Ref. to Special Sections	*C7a* Design. of emission		*C8a1/C8b1* Max. peak pwr	*C8a2/C8b2* Max. pwr dens.	*C8c1* Min. peak pwr	*C8c2* Attch.	*C8c3* Min. pwr dens.	*C8c4* Attch.	*C8e1* C/N ratio	*C8e2* Attch.
API/A/12767	1	2M00G1D--	-3	-66	-3		-66		14	

C7b Carrier frequency of the emissions (2M00G1D--)

2226	MHz																		

C10b1 Assoc. earth station id.	*C10b2* Type	*C10c1* Geographical coord.		*C10c2* Ctry	*C10d1/C10d2* Cls. / Nat.			*C10d3* Max. iso. gain	*C10d4* Bmwdth	*C10d6* Noise temp.	*C10d7* Ant. diameter	
TYP-11	S	077E30 40	13N02 04	IND	1	TW	OT	45	0.75	200		
TYP-11L	S	080E57 27	26N54 47	IND	1	TW	OT	45	0.75	200		

C10d5a Co-polar antenna pattern

C10b1 Assoc. earth station id.	Co-polar ref. pattern	Coef. A	Coef. B	Coef. C	Coef. D	Phi1	Co-polar rad. diag.
TYP-11	REC-465-5						
TYP-11L	REC-465-5						

PARTIE I-S / PART I-S / PARTE I-S / 第I-S部分 / ЧАСТЬ I-S / I-Sالجزء

M | *A1a* Sat. Network: INS-2 | *A1f1* Notif. adm.: IND | *A1f3* Inter. sat. org. | *BR1* Date of receipt: 13.03.2023 | *BR20/BR21* BR IFIC no./part: 2996/1

BR6a/BR6b Id. no.: 123500041 122500062 | *BR3a/BR3b* Provision reference: 11.2 N | *BR2* Adm. serial no. | SDAT E

13C Remarks

B1a/BR17 Beam designation: TMD1 | *B1b* Steerable | *B2* Emi-Rcp: E | *B3a1* Max. co-polar gain: 0

B2a1 Transmit only when visible from notified service area: Y | *B2a2* Min. Elev. Angle

B3b1b Applicable PFD will be met by applying the method in Annex 1 of ROP 21.16 | Attach. no.

B3c1 Co-polar antenna pattern

Co-polar ref. pattern	Coef. A	Coef. B				Co-polar rad. diag.
						6

List of orbital planes

1

B4a3a1 Angle alpha | *B4a3a2* Angle beta

BR92 Attach. for missing angle alpha/beta

BR7a/BR7b Group id.: 122632876 | *BR1* Date of receipt: 07.04.2022 | *C2c* RR No. 4.4 | *BR97* No. 11.43A | *BR98* For use in accordance with Res 163/164

A2a Date of bringing into use as submitted by the Administration: 14.02.2022

A2a Date of bringing into use: 14.02.2022 | *A2b* Period of valid.: 3 | *A3a* Op. agency: 011 | *A3b* Adm. resp.: A | *BR16* Value of type C8b | *A4b7cbis* Min. elevation angle

BR96 Start date for 9.1/9.1A: 12.02.2021

BR62 Expiry date for bringing into use: 12.02.2028 | *BR63* Confirmed date of bringing into use: 14.02.2022 | *BR64* Date of receipt of 1st Res49

BR14 Special Section

C4a Class of station: EA EK ER | *C3a* Assigned freq. band: 10 | *B4b5* Peak of pfd

C4b Nature of service: OT OT OT | *C6a* Polarization type: M | *C6b* Polarization angle

C8d1 Max. tot. peak pwr.: -3.4 | *C8d2* Contiguous bandwidth

C11a1 Service area no. | *C11a3* Service area diagram

A5/A6 Coordinations/Agreements

C2a1 Assigned frequency

435.08	MHz

A13 Ref. to Special Sections	*C7a* Design. of emission	*C8a1/C8b1* Max. peak pwr	*C8a2/C8b2* Max. pwr dens.	*C8c1* Min. peak pwr	*C8c2* Attch.	*C8c3* Min. pwr dens.	*C8c4* Attch.	*C8e1* C/N ratio	*C8e2* Attch.
API/A/12767	1 10K0G1D--	-3.4	-43.4	-3.4		-43.4		14	

C7b Carrier frequency of the emissions (10K0G1D--)

435.08	MHz

C10b1 Assoc. earth station id.	*C10b2* Type	*C10c1* Geographical coord.		*C10c2* Ctry	*C10d1/C10d2* Cls. / Nat.	*C10d3* Max. iso. gain	*C10d4* Bmwdth	*C10d6* Noise temp.	*C10d7* Ant. diameter
10EYU	S	077E30 45	13N02 08	IND	1 TA OT	17	16	600	
					2 TR OT				
					3 TK OT				
10EYUL	S	080E57 28	26N54 48	IND	1 TA OT	17	16	600	
					2 TR OT				
					3 TK OT				

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M | *A1a* Sat. Network: INS-2 | *A1f1* Notif. adm.: IND | *A1f3* Inter. sat. org.: | *BR1* Date of receipt: 13.03.2023 | *BR20/BR21* BR IFIC no./part: 2996/1

BR6a/BR6b Id. no.: 123500041 122500062 | *BR3a/BR3b* Provision reference: 11.2 N | *BR2* Adm. serial no.: | TMD1 E

TAMPERE	S	023E45 39	61N29 52	FIN	1	TA	OT	14	30	600		
					2	TR	OT					
					3	TK	OT					
DELFT	S	004E21 25	52N00 06	HOL	1	TA	OT	15.5	30	447		
					2	TR	OT					
					3	TK	OT					

	C10d5a Co-polar antenna pattern						
C10b1 Assoc. earth station id.	Co-polar ref. pattern	Coef. A	Coef. B	Coef. C	Coef. D	Phi1	Co-polar rad. diag.
10EYU	AP8						
10EYUL	AP8						
TAMPERE	AP8						
DELFT	AP8						

13C Remarks:

B1a/BR17 Beam designation: TMD2 | *B1b* Steerable: | *B2* Emi-Rcp: E | *B3a1* Max. co-polar gain: 5

B2a1 Transmit only when visible from notified service area: Y | *B2a2* Min. Elev. Angle:

B3b1b Applicable PFD will be met by applying the method in Annex 1 of ROP 21.16: | Attach. no.:

B3c1 Co-polar antenna pattern						
Co-polar ref. pattern	Coef. A	Coef. B				Co-polar rad. diag.
						7

List of orbital planes
1

B4a3a1 Angle alpha: | *B4a3a2* Angle beta:

BR92 Attach. for missing angle alpha/beta:

BR7a/BR7b Group id.: 122632878 | *BR1* Date of receipt: 07.04.2022 | *C2c* RR No. 4.4: | *BR97* No. 11.43A: | *BR98* For use in accordance with Res 163/164:

A2a Date of bringing into use as submitted by the Administration: 14.02.2022

A2a Date of bringing into use: 14.02.2022 | *A2b* Period of valid.: 3 | *A3a* Op. agency: 011 | *A3b* Adm. resp.: A | *BR16* Value of type C8b: | *A4b7cbis* Min. elevation angle:

BR96 Start date for 9.1/9.1A: 12.02.2021

BR62 Expiry date for bringing into use: 12.02.2028 | *BR63* Confirmed date of bringing into use: 14.02.2022 | *BR64* Date of receipt of 1st Res49:

BR14 Special Section:

C4a Class of station: EK ER ET | *C3a* Assigned freq. band: 40 | *B4b5* Peak of pfd:

C4b Nature of service: OT OT OT | *C6a* Polarization type: M | *C6b* Polarization angle:

C8d1 Max. tot. peak pwr.: -3 | *C8d2* Contiguous bandwidth:

C11a1 Service area no.: | *C11a3* Service area diagram:

A5/A6 Coordinations/Agreements:

C2a1 Assigned frequency																	
2226	MHz																

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M	*A1a* Sat. Network	INS-2	*A1f1* Notif. adm.	IND	*A1f3* Inter. sat. org.		*BR1* Date of receipt	13.03.2023	*BR20/BR21* BR IFIC no./part	2996/1

BR6a/BR6b Id. no.	123500041	122500062	*BR3a/BR3b* Provision reference	11.2	N	*BR2* Adm. serial no.		TMD2	E

A13 Ref. to Special Sections
API/A/12767

	C7a Design. of emission	*C8a1/C8b1* Max. peak pwr	*C8a2/C8b2* Max. pwr dens.	*C8c1* Min. peak pwr	*C8c2* Attch.	*C8c3* Min. pwr dens.	*C8c4* Attch.	*C8e1* C/N ratio	*C8e2* Attch.
1	40K0G1D--	-3	-61	-3		-61		14	

C7b Carrier frequency of the emissions (40K0G1D--)

2226	MHz

	C10b1 Assoc. earth station id.	*C10b2* Type	*C10c1* Geographical coord.		*C10c2* Ctry	*C10d1/C10d2* Cls. / Nat.			*C10d3* Max. iso. gain	*C10d4* Bmwdth	*C10d6* Noise temp.	*C10d7* Ant. diameter	
	TYP-11	T				1	TT	OT	45	0.75	200		
						2	TR	OT					
						3	TK	OT					
	TYP-11L	T				1	TT	OT	45	0.75	200		
						2	TR	OT					
						3	TK	OT					

	C10d5a Co-polar antenna pattern						
C10b1 Assoc. earth station id.	Co-polar ref. pattern	Coef. A	Coef. B	Coef. C	Coef. D	Phi1	Co-polar rad. diag.
TYP-11	REC-465-5						
TYP-11L	REC-465-5						

13C Remarks

Figure / Figura / 图 / Рисунок / 1 الشكل

ZONE DE SERVICE
SERVICE AREA
ZONA DE SERVICIO
业务区
Зона обслуживания
منطقة الخدمة

Faisceau / Beam / Haz / 波束 / Луч / الحزمة : DPUL

Numéro de diagramme GIMS / GIMS diagram number / Número de diagrama GIMS / GIMS图形编号 / Номер диаграммы GIMS / GIMS مخطط رقم : 1

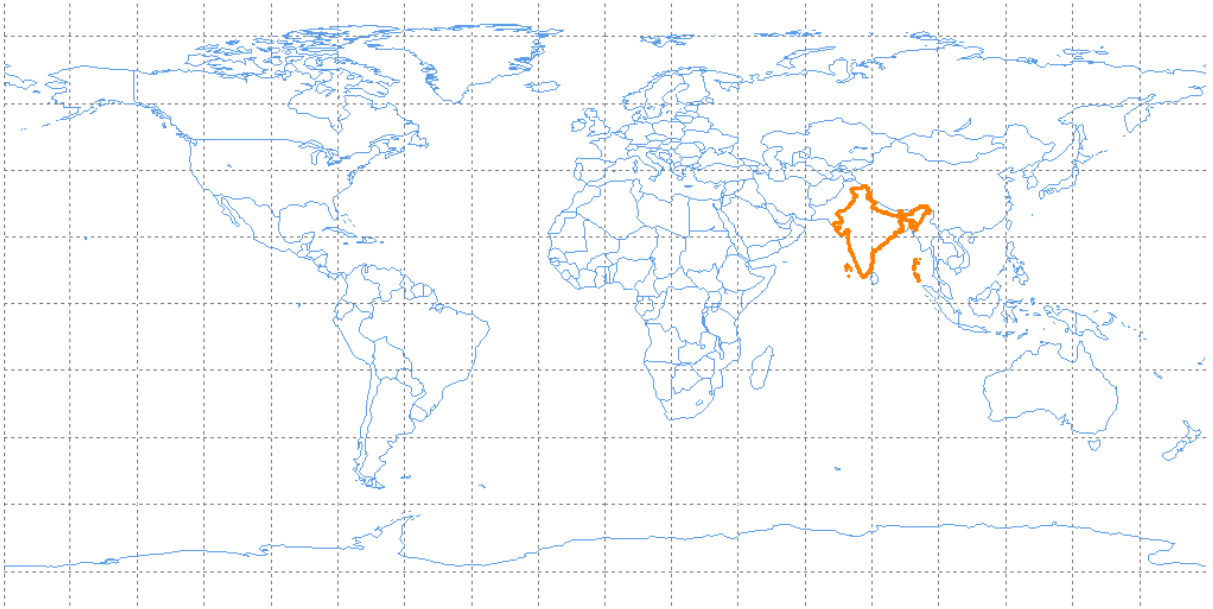

Figure / Figura / 图 / Рисунок / 2 الشكل

ZONE DE SERVICE
SERVICE AREA
ZONA DE SERVICIO
业务区
Зона обслуживания
منطقة الخدمة

Faisceau / Beam / Haz / 波束 / Луч / الحزمة : DPDL

Numéro de diagramme GIMS / GIMS diagram number / Número de diagrama GIMS / GIMS图形编号 / Номер диаграммы GIMS / GIMS رقم مخطط : 2