

1.1 Company Name:-

INFORMATION AND COMMUNICATION TECHNOLOGIES AUTHORITY (ICTA)

Level 12, The Celicourt 6, Sir Celicourt Antelme Street Port Louis Mauritius Tel.: (230) 211 5333/4 Fax: (230) 211 9444 email: icta@intnet.mu

Please complete in BLOCK letters.

Application made on behalf of a body corporate should be signed by a person duly authorised by the body corporate.

Payment by cheque should be made to the order of the Information and Communication Technologies Authority.

INFORMATION

SECTION 1: PARTICULARS OF APPLICANT

1.2. Trading Name:-

You are kindly informed that the determination of this application by the ICT Authority may be subject to successful coordination as per the provisions of Article 9 of the ITU Radio Regulations. Kindly note that the maximum duration for the coordination procedure is four months.

(or partnership, sole trader, individual) 1.3. (a) Registered address	(b) Business address (for correspondence)
1.5. (a) Registered address	(b) Busiless address (for correspondence)
1.4 Details of contact person for official communication	on .
(a) Name:-	(d) Mobile No.:-
(b) Designation:-	(e) Fax No.:-
(c) Day time Tel. No.:-	(f) Email:-
SECTION 2: LICENCE A	AND SERVICE DETAILS
Please fill in and tie	ck the boxes as appropriate
24.71	TOP P. J. G. J.
2.1 Please specify the purpose for which you are sett	ting up a TCR Earth Station
2.2 Please specify whether you are setting a TCR Ear	rth Station under any particular licence.
□ NO □ YES (If in the affirmative, please	quote the type and licence number)
2.3 Type of licence under this present application	
210 Type of meenee under this present appreciation	
☐ New licence, Operation start date	
☐ Amendment to existing licence	
☐ Temporary licence, from t	to
	···

SECTION 3: TYPE APPROVAL
Please indicate whether any radiocommunication and telecommunication equipment which is intended to be used for the proposed TCR Earth Station have been type approved by this Authority:
☐ Yes (Please attach copy of type approval certificate issued by ICT Authority)
□ No
In case the answer is No, please submit the following information together with your request for type approval:
1. A copy of the equipment brochure detailing all technical specifications
2. The type approval certificates obtained in the country of origin, if available.
3. Test reports or Certificates of compliance with international standards issued by accredited
independent test houses and laboratories having tested or type approved the equipment.
4. Certificates of compliance with international standards issued by the manufacturer (optional)

	SECTIO	N 4: T(CR EA	RTH ST	TATION I)ETA	ILS		
Name of TCR Earth Stat	ion								
Address of TCR Earth S									_
					<u></u>				
			itude				titude		
	Degrees	E/W	Min	Sec	Degrees	N/S	Min	Sec	
Geographical coordinate	s:								
		Azin	nuth		Eleva	ition			
	From (De	grees)	To (De	grees)	(Degr	ees)			
Operating Angles:						*	9 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		
EIRP dB	W								
			г.	> 7					
Horizontal Elevation dia	gram attac	ened, se	ee Figu	re No: _					
Height of ground above	mean sea	level:			m				
Height at the base of the	aerial sys	tem abo	ove me	an sea le	evel:		m		
Height of centre of anten	na above	mean s	ea leve	.]·	r	n			
_									
Height at highest point o	i aeriai sy	stem at	oove m	lean sea	levei:		m		
Associated Space Station	ı (if appli	cable)_							
						Degree	es	E/W	
Nominal orbital longitud	e (if geos	tationar	v)			*			
	(8		-						
		SEC'	TION	5: ANT	ENNA DE	TAIL	S		
5.1 Type of antenna (e.g.	. Cassegra	in/Greg	gorian	etc)					
5.2 Diameter of dish	_	n	n						
			•						
5.3 Characteristics Of	Fransmitt	ing An	itenna						
	dB	i				Degree	s		
Maximum Isotropic gain		*		Beamwi	dth				
Polarisation									
Antenna radiation pattern	ı (give ref	erence	patterr	or prov	ide diagrar	n as at	tachme	nt)	

5.4 Characteristics Of Receiving Antenna dBi Degrees Maximum Isotropic gain Beamwidth	
Polarisation Antenna radiation pattern (give reference pattern or provide diagram as attachment) Maximum aggregated bandwidth Maximum aggregated data rate/Bit rate	
SECTION 6: TRANSMITTING	
6.1 Satellite Receiving Beam Designation (if applicable)6.2 Characteristics common to the following list of assigned frequencies	
C4a. Class of Station C3a. Assigned Frequency Aggregate Type If linear, provide	te Power
C4b. Nature of Service angle in degrees (kHz) +/- d	lBW
6.3 Emissions common to the Assigned Frequencies listed below C7a. Designation of emission C8a1/C8b1.* Max. C8a2/C8b2.* Max. C8c1. Minimum Peak Power Density Power Density Power Density C8c1. Minimum Power Density Power Density Power Density Power Density Power Density C8c1. Minimum Power Density Power Density C8c1. Minimum Power Density Power Density C8c1. Minimum Power Densi	ensity
+/- dbw +/- dbw/nz +/- dbw +/- dbw.	/IIZ
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If maximum peak power and maximum power density values are of type C8b, check this box . Provide reason for minimum peak power and minimum power density (C8c) values being absent as atta	achment
No	acimile iii

	ed Frequency k/M/GHz	C2a. Assigned	Frequency k/N	//GHz
			-	
			-	
			-	
			-	
			• []	
			•]]	
			•	
More on attachm	ent No			
any types of mo	SECTION 7: MODULATIOn odulation please indicate where approximately secure and the security of			y dispersal
1 For a carrier by a signal that are the lowest and action of basebar	r frequency modulated by a frequency and highest frequencies of the baseband frequency?	ency division multi-chan	nel telephor l.	ne baseban
1 For a carrier by a signal that are the lowest and anction of basebar	odulation please indicate where appropriate of the description of the baseb	ency division multi-chan	nel telephor	ne baseban
For a carrier by a signal that are the lowest and nction of baseban t For a carrier	r frequency modulated by a frequency modulated by a multi-chart dhighest frequencies of the baseband frequency? Highest frequency modulated by a televis	ency division multi-chanannel telephony baseband and the rms frequence Deviation ion signal.	nel telephord.	ne baseban
For a carrier The by a signal that are the lowest and action of basebar The for a carrier are the standards	r frequency modulated by a frequency modulated by a multi-chart dhighest frequencies of the baseband frequency? Highest	ency division multi-chamannel telephony baseband and the rms frequence Deviation ion signal.	nel telephord.	ne baseban
For a carrier by a signal that are the lowest and action of basebar For a carrier are the standards on for the referen	r frequency modulated by a frequency modulated by a multi-chart description of the baseband frequency? Highest frequency modulated by a televis of the television signal (including	ency division multi-chanannel telephony baseband and the rms frequence division signal. g the standard used for cost characteristic?	nel telephord. cy deviation ns	ne baseban ns of the te

Bit rate	Number of phases		
coordination.	on, please provide such particulars as n	nay be useful for an interfer	rence study, i.e.
	SECTION 8: RECEI	VING	
8 1 Satellite Transmitting	g Beam Designation (if applicable)		
7.1 Satellite Transmitting	5 Death Designation (if applicable)		
3.2 Characteristics comm	non to the following list of assigned free	quencies	
C4a. Class	C6. Polarisation	C3a. Assigned Frequency	C5b. Receiving System Noise Temperature
of Station	Type If linear, provide angle in degrees	Band (kHz)	kelvins
C4b. Nature of Service			
	C7a. Designation of	C8e. C/N Objective	
	C7a. Designation of emission	(total-clear sky)	
		(total-clear sky)	
		(total-clear sky) dB -	
		(total-clear sky)	
		(total-clear sky) dB -	
		(total-clear sky) dB -	
		(total-clear sky) dB -	
		(total-clear sky) dB -	
		(total-clear sky) dB -	
		(total-clear sky) dB -	
		(total-clear sky) dB -	
		(total-clear sky) dB -	

C2	a. Ass	igned F	requen	cy k/N	I/GHz	
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						FO
eceived:	••••					• • • • • •
omme	ents:					
oved:						

Guidance Notes regarding application for a Telemetry, Command and Ranging (TCR) Earth Station Licence (RA17)

Notes:

- 1. There may be insufficient space on the application form to a nswer particular questions, in such cases the appropriate section should be photocopied and added to the form.
- 2. The processing of the application may be delay ed if any of the details given on the form are not complete or correct.
- 3. The determination of this application by the ICT Authority is subject to successful coordination as per the provisions of Article 9 of the ITU Radio Regulations. Kindly note that the maximum duration for the coordination procedure is four months.

SECTION 4: EARTH STAT	TION DETAILS
Name of the TCR Earth Station	Indicate the name by which the TCR Earth Station will be known.
Horizon Elevation Diagram	Enter a Figure number of the diagram indicating the horizon elevation angle for each azimuth around the earth station; the horizon elevation angle is the angle viewed from the centre of the earth station antenna between the horizontal plane and a ray that grazes the visible physical horizon in the direction concerned.
Operating Angles	Enter the planned range of operating azimuthal angles. These angles are to be calculated for the nominal orbital longitude, taking into account the tolerances.
Associated Space Station	Indicate the name of the associated space station, as applicable, with which communication is to be established as registered with the IFRB.
Nominal Orbital Longitude	Enter the nominal longitude of the orbital position of that of the satellite expressed in decima I de grees E (the value should not exceed 180 Degrees).

SECTION 5: ANTENNA I	SECTION 5: ANTENNA DETAILS					
Type of Antenna	ie Cassegrain/Gregorian etc.					
Maximum Isotropic Gain	Enter the gain (Gi: see RRS1.160a) of the antenna in the direction of maximum radiation, expressed in dBi.					
Beamwidth	Enter the total beamwidth at the mean half-power points of the main lobe, expressed in decimal degrees. Describe in detail in attachment if not symmetrical.					
Radiation Pattern	If a reference radi ation pattern cannot be indicated by one of the symbols below, or the measured radiation diagram of the antenna is available, give the relevant information in an attachment. If an attachment is provided, enter a figure number identifying its presence. Indicate the reference radiation pattern, preferably by means of the					

following symbols or similar symbols not exceeding 12 characters.

	Symbol	Description of the Radiation Pattern
F	REC-465 Currer	nt version of ITU-R Recommendation 465: "Reference earth station radiation pattern for use in coordination and interference assessment in frequency range from 2 to about 30 GHz."
F	REC-580 Currer	"Radiation diagrams for use as design objectives for antennas of earth stations operating with geostationary satellites."
A	AP28	Point 4, Anne x II of A ppendix S7. Note: This radiation diagram is identical to that in Annex III to Appendix S8.
2	29-25LOG(FI)	Represents a reference radiation pattern similar to that in ITU-R Rec.465 with side lobe radiation reduced by 3dB.
2	27-25LOG(FI)	As above with side lobe radiation reduced by 5dB.

Assigned frequency band

SECTION 6: TRANSMIT	TING DETAILS
Satellite Receiving Beam Designation	Enter the receiving beam designation by a symbol consisting of up to four characters. For practical reasons, there are different approaches for the designation of the beam, it may consist of: (a) number such as 1, 2, 3, etc., which refer to the number of the figure representing the corresponding antenna gain contour published in the relevant Special Section; or (b) number such as 195, which identify a beam having a maximum gain of 19.5dB; or (c) a symbol of up to three letters (or a letter and a figure), which is used to represent the abbreviated beam name, such as G for global, NWQ for North West Quadrant, WH for West Hemisphere, Z1 for Zone 1, O for Omnidirectional.
	For steerable beams, the last character shall always be the letter $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$
Class of station / Nature of service	Indicate the appropriate class of station and the nature of service using the symbols given in Tables Nos. 6A1 and 6B1 respectively of the Preface to the IFL, the SRS and the WIC. Up to four pairs of values can be provided.
Polarisation	Enter the symbol for the type of polarisation in the first box (see symbols for the type of polarisation in Table No. 9D1 of the Preface to the IFL, the SRS and the WIC). In the case of linear polarisation (symbol "L"), indicate in the second box the angle (in degrees) measured counter-clockwise in a plane normal to the beam axis from the equational plane to the electric vector of the waves as seen from the satellite.

Enter the bandwidth of the assigned frequency band as defined in RR.S1. 147 expressed in kHz. The assigned frequency band should in no case exceed the bandwidth of a single satellite transponder.

Maximum aggregate power	Enter the maximum aggregate power (dBW) of all carriers supplied to the input of the antenna. This information applies only to the case of a re ceiving satellite antenna beam operating with a transmitting associated earth station.
Designation of emission	Indicate the necessary bandwidth (RR.S1.152) and class of emission (RR.S1.139) in accordance with Article 4 and Appendix 6; see also IFRB Circular-letters No. 457 of 2 June 1980 and No. 511 of 8 July 1982.
Maximum peak power	Enter the appropriate sign ($+$ or $-$) and the maximum value of the total peak envelope power (RR .S1.157), expressed in dBW, supplied to the input of the antenna for each corresponding emission.
	Note: If the max imum values of peak envelope power are being provided for individual carriers, they should be of type C8a1. If the notification does not concern individual carriers (e.g. as in spread spectrum applications) provide a general designation of emission (item C7a) and total peak power values of type C8b1.
Maximum power density	Enter the appropriate sign (+ or -) fo llowed by the value of the maximum power density per Hertz (expressed in dBW/ Hz) supplied to the input of the antenna averaged over the worst 4 kHz band for carriers below 15 GHz, or average d over the worst 1 MHz band for carriers above 15 GHz. For narrow band carriers with a necessary bandwidth (RR.S1.152) less than the reference bandwidth, the peak power should be averaged over the reference bandwidth (4 kHz or 1 MHz) to obtain this value of maximum power density.
	Note: If the values of maximum power density are being provided for individual carriers, they should be of type C8a2. If the notification does not concern individual carriers (e.g. as in spre ads pectrum applications) provide a general designation of emission (item C7a) and maximum power density values of type 8b2.
Minimum peak power	Enter the appropriate sign (+ or -) and the minimum value of the peak envelope power (RR.S1.157), expressed in dBW, supplied to the input of the antenna for each corresponding emission (carrier type).
Minimum power density	Enter the appropriate sign (+ or -) followed by the value of the minimum power density per Hertz (expressed in dBW/Hz) supplied to the input of the antenna for each corresponding emission (carrier type) averaged over the worst 4 kHz band for carriers below 15 GHz, or averaged over the worst 1 MHz band for carriers above 15 GHz. For narrow band carriers with a necessary bandwidth (RR .S1.152) less than the reference bandwidth, the peak power should be averaged over the reference bandwidth (4 kHz or 1 M Hz) to obtain this value of minimum power density.
Assigned frequency	Enter the assigned frequency as defined in RR.S1.148 expressed in kHz up to 28 000 kHz inclusive, in MHz above 28 000 kHz to 10 500

MHz inclusive, and in GHz above 10 500 MHz, and enter the letter k,
M or G, as appropriate.

SECTION 7: RECEIVING DETAILS		
Satellite Transmitting Beam Designation	Enter the transmitting beam designation by a symbol consisting of up to ten characters (as for Satellite Receiving Beam Designation in Sec 6).	
Class of station / Nature of service	Same as for 'Class of station / Nature of service' in Sec 6.	
Polarisation	Same as for 'Polarisation' in Sec 6.	
Assigned frequency band	Same as for 'Assigned frequency band' in Sec 6.	
Receiving system noise temperature	Enter the total recei ving system noise t emperature expressed in kelvins, referred to the output of the space station receiving antenna.	
Designation of Emission	Is made up of three parts, Bandwidth (four characters), Emission (three characters) & Description of Emission (two characters). This makes a nine character emission code. See Guide to Class of Emissions RA97. e.g. 30M0F8FHN is 30M0 = 30MHz, F = Frequency modulated, 8 = Composite system with one or more channels containing analogue information, F = Television (video), H = Sound of broadcasting quality (stereophonic or quadrophonic), N = No multiplexing employed. Indicate the necessary bandwidth (RR.S1.152) and class of emission (RR.S1.139) in accordance with Article 4 and Appendix 6; see also IFRB Circular-letters No. 457 of 2 June 1980 and No. 511 of 8 July 1982.	
C/N objective (total-clear sky)	Enter the required carrier to noise ratio, in decibe ls, for the overall link for each carrier when clear sky propagation conditions apply.	
Assigned frequency	Enter the assigned frequency as defined in RR.S1.148 expressed in kHz up to 28 000 kHz inclusive, in MHz above 28 000 kHz to 10 500 MHz inclusive, and in GHz above 10 500 MHz, and enter the letter k, M or G, as appropriate.	