Annex B **Specifications for a new radio link**

			Site A		Site B			Notes on completion for an assignment application
Site data:								
BAKOM Code			_____		_____		A)	Insert BAKOM code if site location already exists in database for point-to-point microwave radio links, e.g. BNTG, 2-MNOP
BAKOM name			_____		_____		A)	Insert BAKOM site name if site location already exists in database for point-to-point microwave radio links, e.g. BANTIGER S
Applicant's Site code			_____		_____		C)	Site code may be an abbreviation or a number
Applicant's Site name			_____		_____		B)	Name or designation of site locations
Address / field name			_____		_____		B)	Address of site locations or field names according to map 1:25'000
Postal zip code, place			_____		_____		B)	Municipality of site locations, postal zip code, please refer to www.post.ch/db/owa/pv_plz_pack/pr_main?p_language=en
Canton	Country	__	_____	__	_____		B)	Canton and country of site locations (official abbreviations), e.g. ZH / SUI, -/D,-/ F,..
Co-ordinates			_____		_____		B)	Swiss national co-ordinates (CH1903, LV95) for nadir of antenna tower, e.g. 2600 000 / 1200 000, accuracy +/- 10 m according to map 1:25'000, check co-ordinates with: http://map.geo.admin.ch
Height above sea level		m asl	_____		_____		B)	Ground level, height above sea level (asl) at nadir, accuracy +/- 5 m according to map 1:25'000
Joint use of site (third parties), site sharing			_____		_____		C)	Is this site location used also by other operators, which ones ?
Distance		km	_____					Path length, distance between both site locations, e.g. 15.123 km
Frequency band		GHz	_____					Selected frequency band depends on path length and transmission rate according to *RIR 0302-nn*
Antenna:								Please refer also to *RIR 0302-nn Pt. 11*
Manufacturer			_____		_____			Name of manufacturer
Type			_____		_____			Exact type designation
RPE Nr.			_____		_____			Exact manufacturer's designation of RPE (radiation pattern envelope)
Diameter		m	_____		_____		B)	Diameter of antenna
Gain		dBi	_____		_____		B)	Midband antenna gain, typical value
Half power beam width		°	_____		_____		B)	Angle relative to main beam axis between the two directions at which the co-polar pattern is 3 dB below the value on main beam axis
Height above ground		m	_____		_____			Height of antenna above nadir (height of building and/or tower), accuracy +/- 1 m

Equipment:						Please refer also to *RIR 0302-nn*
BAKOM Code			_____		A)	Insert BAKOM Code if link equipment is already in database of BAKOM, e.g. ABCD22C15S
Manufacturer			_____		B)	Name of manufacturer
Type			_____		B)	Exact type designation and name of equipment family
Bandwidth	Modulation	MHz	_____	_____	B)	Bandwidth, e.g. 13.75 MHz, 14 MHz, 27.5 MHz, Modulation, e.g. 4-QPSK, 32-TCM, 128-QAM
Data rate		Mbit/s	_____		B)	Transmission rate in Mbit/s, e.g. 155.0
TX power min.	max	dBm	_____	_____	B)	Minimal and maximal TX power, typical values
ATPC Range		dB	_____		B)	Control range of ATPC
BER 10^{-3}	BER 10^{-6}	dBm	_____	_____	B)	RX thresholds for BER 10^{-3} and BER 10^{-6}, typical values
kTBF		dBm	_____		B)	RX noise floor, typical value
Noise figure		dB	_____		B)	Noise figure of the RX, typical value
Link data:						Please refer also to *RIR 0302-nn*
Frequency Polarization		MHz	_____ _____	_____ _____	D)	Desired operation frequency and polarization, will be taken into consideration for frequency assignment, e.g. 12‘345.6789 MHz / H
TX power reduction		dB	_____		D)	Reduction of max. TX power, necessary for operation
ATPC		dB	_____		D)	ATPC range required for operation of link
Losses TX		dB	_____	_____		Insert losses TX-side caused by couplers, waveguides, a.s.o.
Losses RX		dB	_____	_____		Insert losses RX-side caused by couplers, waveguides, a.s.o.
ACM, Reference Mode			_____	_____		If adaptive modulation is used please insert Reference Mode, e.g. 16-QAM
Max EIRP		dBm	_____	_____	C)	Max. radiated power in case of worst rain weather conditions
Nom. P RX		dBm	_____	_____	C)	Nominal RX power at clear weather conditions, corresponds with max. ATPC or min. P TX, refer also to *RIR 0302-nn item 11.*
Remarks:						
_____						

Please fill in all fields, further explanations:

A) insert information already delivered to BAKOM

B) insert information if not already delivered to BAKOM

i. For new antennas complete information are required according to: Microwave Antennas, Demand on technical specifications

ii. For new Radio equipment complete information are required according to: Microwave Radio Equipment, Demand on technical specifications

C) information desired but not necessary.

D) Fill in desired dates for link operation but they are definitively set at the frequency assignment according to the results of interference power calculation. These results are used for the “Description of radio link network”.