



**MICROWAVE FORM
(POINT TO POINT)**

ADDITIONAL INFORMATION REQUIRED FOR POINT TO POINT MICROWAVE SYSTEM

NB: Please attach a detailed Network and Frequency Plan

	MICROWAVE	STATION A	STATION B
A	SITE INFORMATION		
1	Site Location		
2	Station Name		
3	Town/City		
4	Site Altitude (m)		
5	Building Height (m)		
6	Path Length(m)		
7	Latitude(deg)		
8	Latitude(min)		
9	Latitude(sec)		
10	Longitude(deg)		
11	Longitude(min)		
12	Longitude(sec)		
13	Site Type Code(see Annex A)		
14	GSM Site Type (see Annex B) - Optional		
B	EQUIPMENT SPECIFICATIONS		
1	Type(Transmitter,Receiver or Transceiver)		
2	Make		
3	Model		
4	Serial Number		
5	Lower Frequency(MHz)		
6	Upper Frequency(MHz)		
7	Emission Class(Annex B)		
8	Power To Antenna		
9	Number of Preset Channels		
10	Channel Separation(MHz)		
11	Rx Selectivity		
12	Rx Sensitivity(dBm)		
13	Capacity(Mbits/sec)		
14	Call Sign		
15	Tx Gain Range(dB)		
16	Tx Threshold level (dBm)		
17	Rx Threshold level (dBm)		
18	Tx output (dBm), (Watts)		
19	Channel Bandwidth		
C	TOWER INFORMATION		
1	Type		
2	Height (m)		

MICROWAVE FORM - Cont'd

D	ANTENNA CHARACTERISTICS	SITE 1	SITE 2
1	Type(Annex C)		
2	Make		
3	Model		
4	Height (m)		
5	Antenna Gain (dB)		
6	Beam Width H (Deg)		
7	Beam Width V (Deg)		
8	Frequency (MHz)-Lower		
9	Frequency (MHz)-Upper		
10	Directivity		
11	Polarization(Annex D)		
12	Tilt Angle (Deg)		
13	Main Lobe Azimuth (Deg)		
14	Line Attenuation (dB)		
15	Cable Type		
16	Feed Length(m)		
17	Antenna diameter		
18	Elevation (-90 -+90)		
E	SIGNAL SPECIFICATIONS		
1	Type (analog/digital)		
2	Type of modulation		
3	Polarisation		
4	Carrier Frequency (MHz)		
5	Minimum Frequency (MHz)		
6	Maximum Frequency (MHz)		
7	Emission designation		
8	Effective radiated power (dBm)		
<u>FOR OFFICIAL USE ONLY</u>			
	Site ID		
	Company Name:		
	Sublicense Type		
	Service Class Code:		
	Comments:		

ANNEX A – Site Type Code

Site Types	
Code	Description
Fixed	Fixed Site
Mobile	Mobile Site
Portable	Portable
Receive	Receive Site
Repeater	Repeater Site

ANNEX B – Emission Class Codes

EmissionClass		
Id	EmissionClass	Description
1	100KF3E	100 Hz Frequency modulation, A single channel containing analogue information, Telephony (including sound broadcasting).
2	10M0F8W	10 MHz Frequency modulation, Two or more channels containing analogue information, Cases not otherwise covered.
3	12K5F2D	12.5 KHz Frequency modulation, A single channel containing quantized or digital information with the use of a modulating sub-carrier excluding time-division multiplex, Data transmission, telemetry, telecommand.
4	14M0F7W	14 MHz Frequency modulation, Two or more channels containing quantized or digital information, Cases not otherwise covered.
5	15K0F2D	15 KHz Frequency modulation, A single channel containing quantized or digital information with the use of a modulating sub-carrier excluding time-division multiplex, Data transmission, telemetry, telecommand.
6	16K0F2DEN	16K0F2DEN
7	16K0F2DWN	16K0F2DWN
8	16K0F3E	16 KHz Frequency modulation, A single channel containing analogue information, Telephony (including sound broadcasting).
9	16K0F3EJN	16K0F3EJN
10	16K0F9WWN	16K0F9WWN
11	16K5G3E	16.5 KHz Phase modulation, A single channel containing analogue information, Telephony (including sound broadcasting).
12	16M3F8E	16.3 MHz Frequency modulation, Two or more channels containing analogue information, Telephony (including sound broadcasting).
13	180KF3E	180 KHz Frequency modulation, A single channel containing analogue information, Telephony (including sound broadcasting).
14	1K50F3E	1.50 KHz Frequency modulation, A single channel containing analogue information, Telephony (including sound broadcasting).
15	1M25F7W	1.25 MHz Frequency modulation, Two or more channels containing quantized or digital information, Cases not otherwise covered.

EmissionClass		
Id	EmissionClass	Description
16	200KF8E	200 KHz Frequency modulation, Two or more channels containing analogue information, Telephony (including sound broadcasting).
17	20M0F9W	20 MHz Frequency modulation, Composite system with one or more channels containing analogue information, Cases not otherwise covered.
18	25KG3E	25 KHz Phase modulation, A single channel containing analogue information, Telephony (including sound broadcasting).
19	28M0F7W	28 MHz Frequency modulation, Two or more channels containing quantized or digital information, Cases not otherwise covered.
20	29M5F3F	29.5 MHz Frequency modulation, A single channel containing analogue information, Television (video).
21	2K10A2A	2.10 KHz Double-sideband, A single channel containing quantized or digital information with the use of a modulating sub-carrier excluding time-division multiplex, Telegraphy - for aural reception.
22	2K10A2AAN	2K10A2AAN
23	2K11H2B	2.11 KHz Single-sideband, full carrier, A single channel containing quantized or digital information with the use of a modulating sub-carrier excluding time-division multiplex, Telegraphy for automatic reception.
24	2K70J3E	2.70 KHz Single-sideband, suppressed carrier, A single channel containing analogue information, Telephony (including sound broadcasting).
25	2K70R3E	2.70 KHz Single-sideband, reduced or variable level carrier, A single channel containing analogue information, Telephony (including sound broadcasting).
26	2K80J3EJN	2K80J3EJN
27	2M00F7W	2 MHz Frequency modulation, Two or more channels containing quantized or digital information, Cases not otherwise covered.
28	3K00H3E	3 KHz Single-sideband, full carrier, A single channel containing analogue information, Telephony (including sound broadcasting).
29	3M00PONAN	3M00PONAN
30	3M00PON	3 MHz Sequence of unmodulated pulses, No modulating signal, No information transmitted
31	3M50F7W	3.50 MHz Frequency modulation, Two or more channels containing quantized or digital information, Cases not otherwise covered.
32	3M50F8W	3.50 MHz Frequency modulation, Two or more channels containing analogue information, Cases not otherwise covered.
33	3M50F9W	3.50 MHz Frequency modulation, Composite system with one or more channels containing analogue information, Cases not otherwise covered.
34	3M50G7W	3.50 MHz Phase modulation, Two or more channels containing quantized or digital information, Cases not otherwise covered.
35	400HA2A	400 Hz Double-sideband, A single channel containing quantized or digital information with the use of a modulating sub-carrier excluding time-division multiplex, Telegraphy - for aural reception.
36	50KF3E	50 KHz Frequency modulation, A single channel containing analogue information, Telephony (including sound broadcasting).
37	5K75J8E	5.75 KHz Single-sideband, suppressed carrier, Two or more channels containing

EmissionClass		
Id	EmissionClass	Description
		analogue information, Telephony (including sound broadcasting).
38	5M00F8W	5 MHz Frequency modulation, Two or more channels containing analogue information, Cases not otherwise covered.
39	5M75C3F	5 MHz, Television
40	6K00A3E	6 KHz Double-sideband, A single channel containing analogue information, Telephony (including sound broadcasting).
41	6K00B8E	6 KHz Independent sidebands, Two or more channels containing analogue information, Telephony (including sound broadcasting).
42	6K25F2D	6025 KHz Frequency modulation, A single channel containing quantized or digital information with the use of a modulating sub-carrier excluding time-division multiplex, Data transmission, telemetry, telecommand.
43	6K80J3EJN	6K80J3EJN
44	6M25C3F	6.25 MHz Vestigial sideband, A single channel containing analogue information, Television (video).
45	70000K	
46	750KF3E	750 KHz Frequency modulation, A single channel containing analogue information, Telephony (including sound broadcasting).
47	7M00F7W	700 MHz Frequency modulation, Two or more channels containing quantized or digital information, Cases not otherwise covered.
48	8K00A3E	8 KHz Double-sideband, A single channel containing analogue information, Telephony (including sound broadcasting).
49	8K00A3EJN	8K00A3EJN
50	8K00G3E	8 KHz Phase modulation, A single channel containing analogue information, Telephony (including sound broadcasting).
51	8K50F2D	8.50 KHz Frequency modulation, A single channel containing quantized or digital information with the use of a modulating sub-carrier excluding time-division multiplex, Data transmission, telemetry, telecommand.
52	8K50F3E	8.50 KHz Frequency modulation, A single channel containing analogue information, Telephony (including sound broadcasting).

ANNEX C – Antenna Type Code

Antenna Types	
Antenna Code	Description
CA	Curtain Antenna
CFHD	Center-fed Horizontal Dipole
CFVD	Center-fed Vertical Dipole
CG	Constant Gain
CL	Crossed Loop
HD	Horizontal Dipole
HLP	Horizontal Log-Periodic
HY	Horizontal Yagi
IL	Inverted L
IR	Interlaced Rhombic
OD	Omni Directional
PD	Parabolic Dish
SHL	Small Horizontal Loop
SR	Sloping Rhombic
SVL	Small Vertical Loop
TR	Terminated Rhombic
TSV	Terminated Sloping Vee
VLP	Vertical Log-Periodic
VLPA	Vertical Log Periodic Array
VM	Vertical Monopole

ANNEX D – Antenna Polarization Code

Antenna Polarization	
Code	Description
CL	Left-hand circular or indirect
CR	Right-hand circular or direct
E	Elliptical
H	Horizontal Linear
L	Linear
M	Mixed
SL	Left-hand slant
V	Vertical Linear

ANNEX E:

Site Types	
Code	Description
Fixed	Fixed Site
Mobile	Mobile Site
Portable	Portable
Receive	Receive Site
Repeater	Repeater Site