



**Australian
Broadcasting
Authority**

LICENCE AREA PLAN

Adelaide Analog Television

**Australian Broadcasting Authority
Canberra**

November 2002

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LICENCE AREA PLAN - Adelaide Analog Television

DETERMINATION

The Australian Broadcasting Authority hereby makes this plan for television broadcasting services in Adelaide under subsection 26(1) of the *Broadcasting Services Act 1992*.

One national television broadcasting service is to be available in the area described at Attachment A to this Determination with the use of the broadcasting services bands. The characteristics, including technical specifications, of the services that are to be available in the area described at Attachment A are set out in the Schedule and Attachments 1.1 to 1.5 to this Determination.

One national television broadcasting service is to be available in the area described at Attachment A to this Determination with the use of the broadcasting services bands. The characteristics, including technical specifications, of the services that are to be available in the area described at Attachment A are set out in the Schedule and Attachments 2.1 to 2.4 to this Determination.

One commercial television broadcasting service is to be available in the area described at Attachment A to this Determination with the use of the broadcasting services bands. The characteristics, including technical specifications, of the services that are to be available in the area described at Attachment A are set out in the Schedule and Attachments 3.1 to 3.3 to this Determination.

One commercial television broadcasting service is to be available in the area described at Attachment A to this Determination with the use of the broadcasting services bands. The characteristics, including technical specifications, of the services that are to be available in the area described at Attachment A are set out in the Schedule and Attachments 4.1 to 4.3 to this Determination.

One commercial television broadcasting service is to be available in the area described at Attachment A to this Determination with the use of the broadcasting services bands. The characteristics, including technical specifications, of the services that are to be available in the area described at Attachment A are set out in the Schedule and Attachments 5.1 to 5.3 to this Determination.

One community television broadcasting service is to be available in the area described at Attachment A to this Determination with the use of the broadcasting services bands. The characteristics, including technical specifications, of the services that are to be available in the area described at Attachment A are set out in the Schedule and Attachment 6.1 to this Determination.

(Determined by the Australian Broadcasting Authority on 21 November 2002)

SCHEDULE

The Schedule sets out:

- the category of each of the services that are to be available in that area (column one);
- the assignee of the service (column two) does not form part of the licence area plan decision and is included for reference only, and is accurate as at date of publication.
- the status of the service (column three) does not form part of the licence area plan decision and is included for reference only;
- the channel for each transmitter (column four) does not form part of the licence area plan decision and is included for reference only;
- the service licence number which has been allocated to the service, if appropriate (column five); N/A = Not Applicable, as the Broadcasting Services Act 1992 only requires service licences for Commercial and Community services;
- the transmitter specification number which has been allocated to each transmitter (column six);
- the identifying number of the attachment where the technical specifications for each transmitter are described (column seven); and
- the general area served by each transmitter (column eight).

Status Column

Licensed:	service is already licensed
Available:	new licence available for allocation
Proposed::	transmitter for existing broadcasting service licence
Alternative::	alternative channel proposed for licensed service
Reserved::	capacity reserved for a national or community service in accordance with Ministerial notification.

SCHEDULE ONE

Licence Area Plan : Adelaide Analog Television

Licence Area : Adelaide TV1

Service Category	Assignee	Status	Channel	Service Licence No	Transmitter Specification No	Attach No	Area Served
National	ABC	Licensed Reserved	2	N/A	TS57001	1.1	Adelaide
National	ABC	Licensed Reserved	46	N/A	TS57002	1.2	Adelaide Foothills
National	ABC	Licensed Reserved	63	N/A	TS57009	1.3	Elizabeth South
National	ABC	Licensed Reserved	63	N/A	TS10010392	1.4	Hallett Cove
National	ABC	Licensed Reserved	55	N/A	TS57004	1.5	Victor Harbor
National	SBS	Licensed Reserved	28	N/A	TS2230001	2.1	Adelaide
National	SBS	Licensed Reserved	43	N/A	TS2230002	2.2	Adelaide Foothills
National	SBS	Licensed Reserved	60	N/A	TS2230003	2.3	Elizabeth South
National	SBS	Licensed Reserved	52	N/A	TS2230004	2.4	Victor Harbor
Commercial	ADS	Licensed	10	SL120	TS120001	3.1	Adelaide
Commercial	ADS	Licensed	55	SL120	TS120002	3.2	Adelaide Foothills
Commercial	ADS	Licensed	64	SL120	TS120004	3.3	Victor Harbor
Commercial	NWS	Licensed	9	SL121	TS121001	4.1	Adelaide
Commercial	NWS	Licensed	52	SL121	TS121002	4.2	Adelaide Foothills
Commercial	NWS	Licensed	61	SL121	TS121004	4.3	Victor Harbor
Commercial	SAS	Licensed	7	SL122	TS122001	5.1	Adelaide
Commercial	SAS	Licensed	49	SL122	TS122002	5.2	Adelaide Foothills
Commercial	SAS	Licensed	58	SL122	TS122004	5.3	Victor Harbor
Community ¹	N/A	Reserved Available	31	SL1150811	TS3596001	6.1	Adelaide

¹ Note: The Government is currently considering the future of community television services. Please note that the ABA will not proceed to allocate a licence for this service under the *Broadcasting Services Act 1992* prior to completion of this review.

Attachment A

LICENCE AREA - ADELAIDE TV1

LICENCE AREA FOR SERVICE LICENCE NOS: SL120, SL121, SL122 and SL1150811

COMMERCIAL and COMMUNITY TELEVISION

The licence area, in terms of areas defined by the Australian Bureau of Statistics at the Census of 5 August 2001, is:

Area Description	Area Description	Area Description
Adelaide	SA CD 4031802	SA CD 4060406
Adelaide Hills (DC) - North	SA CD 4031803	SA CD 4060501
Adelaide Hills (DC) Bal	SA CD 4032801	SA CD 4060502
Alexandrina (DC)	SA CD 4032802	SA CD 4060503
Barossa (DC)	SA CD 4032803	SA CD 4060504
Light (DC)	SA CD 4032804	SA CD 4060505
Mallala (DC)	SA CD 4032805	SA CD 4060506
Mount Barker (DC)	SA CD 4032806	SA CD 4060507
Murray Bridge (RC)	SA CD 4032807	SA CD 4060508
Victor Harbor (DC)	SA CD 4040201	SA CD 4061601
Yankalilla (DC)	SA CD 4040202	SA CD 4061602
Yorke Peninsula (DC) - North	SA CD 4040203	SA CD 4061603
SA CD 4030701	SA CD 4040301	SA CD 4061604
SA CD 4030702	SA CD 4040302	SA CD 4061605
SA CD 4030703	SA CD 4040303	SA CD 4061606
SA CD 4030704	SA CD 4040304	SA CD 4061607
SA CD 4030705	SA CD 4041601	SA CD 4061608
SA CD 4030706	SA CD 4041602	SA CD 4061609
SA CD 4030707	SA CD 4041603	SA CD 4061610
SA CD 4030801	SA CD 4041701	SA CD 4062201
SA CD 4030802	SA CD 4041702	SA CD 4062202
SA CD 4030803	SA CD 4041703	
SA CD 4030804	SA CD 4041704	
SA CD 4031601	SA CD 4041901	
SA CD 4031602	SA CD 4041902	
SA CD 4031603	SA CD 4041903	
SA CD 4031604	SA CD 4041904	
SA CD 4031605	SA CD 4041905	
SA CD 4031701	SA CD 4042001	
SA CD 4031702	SA CD 4042002	
SA CD 4031703	SA CD 4042003	
SA CD 4031704	SA CD 4042004	
SA CD 4031801	SA CD 4060404	

Note:

Standard terminology used by the Australian Bureau of Statistics:

(CD) = Collection District ,

(DC) = District Council,

(RC) = Rural City

LICENCE AREA PLAN : Adelaide Analog Television – Nov 2002

Category : National

General Area Served : Adelaide (SA)

Service Licence Number : Not applicable

TECHNICAL SPECIFICATION - Television

Specification Number : TS57001

Transmitter Site :-

Nominal Location : NTL Tower Summit Road CRAFERS

Australian Map Grid Reference : Zone Easting Northing
54 290707 6126723

Site Tolerance : Refer to Technical Planning Guidelines

Emission :-

Frequency Band & Mode : VHF Band I - TV

Carrier Frequency : 64.26 MHz (Ch.2)

Polarisation : Horizontal

Maximum antenna height : 124 m

Output Radiation Pattern :-

Bearing or Sector (Clockwise direction)	Maximum ERP
At all angles of azimuth	200 kW

Attachment 1.2

LICENCE AREA PLAN : Adelaide Analog Television – Nov 2002

Category : National
General Area Served : Adelaide Foothills (SA)
Service Licence Number : Not applicable

TECHNICAL SPECIFICATION - Television

Specification Number : TS57002

Transmitter Site :-

Nominal Location : 25 Grenfell Street ADELAIDE
Australian Map Grid Reference : Zone Easting Northing
54 280728 6132515
Site Tolerance : Refer to Technical Planning Guidelines

Emission :-

Frequency Band & Mode : UHF Band V - TV
Carrier Frequency : 653.25 MHz (Ch.46)
Polarisation : Horizontal
Maximum antenna height : 145 m

Output Radiation Pattern :-

Bearing or Sector (Clockwise direction)	Maximum ERP
0°T - 10°T	400 W
10°T - 25°T	1 kW
25°T - 40°T	2 kW
40°T - 210°T	4 kW
210°T - 225°T	2 kW
225°T - 240°T	1 kW
240°T - 360°T	400 W

LICENCE AREA PLAN : Adelaide Analog Television – Nov 2002

Category : National

General Area Served : Elizabeth South (SA)

Service Licence Number : Not applicable

TECHNICAL SPECIFICATION - Television

Specification Number : TS57009

Transmitter Site :-

Nominal Location : Water Tower Kettering Road ELIZABETH SOUTH

Australian Map Grid Reference : Zone Easting Northing
54 284662 6152822

Site Tolerance : Refer to Technical Planning Guidelines

Emission :-

Frequency Band & Mode : UHF Band V - TV

Carrier Frequency : 772.224 MHz (Ch.63)

Polarisation : Vertical

Maximum antenna height : 45 m

Output Radiation Pattern :-

Bearing or Sector (Clockwise direction)	Maximum ERP
0°T - 10°T	250 W
10°T - 135°T	500 W
135°T - 205°T	1 kW
205°T - 215°T	500 W
215°T - 230°T	250 W
230°T - 350°T	100 W
350°T - 360°T	250 W

Attachment 1.4

LICENCE AREA PLAN : Adelaide Analog Television – Nov 2002

Category : National
General Area Served : Hallett Cove (SA)
Service Licence Number : Not applicable

TECHNICAL SPECIFICATION - Television

Specification Number : TS10010392

Transmitter Site :-

Nominal Location : Lighthouse Nimboya Road MARINO
Australian Map Grid Reference : Zone Easting Northing
54 272950 6118000
Site Tolerance : Refer to Technical Planning Guidelines

Emission :-

Frequency Band & Mode : UHF Band V - TV
Carrier Frequency : 772.25 MHz (Ch.63)
Polarisation : Horizontal
Maximum antenna height : 30 m

Output Radiation Pattern :-

Bearing or Sector (Clockwise direction)	Maximum ERP
0°T - 130°T	73 W
130°T - 150°T	290 W
150°T - 225°T	730 W
225°T - 245°T	290 W
245°T - 360°T	73 W

LICENCE AREA PLAN : Adelaide Analog Television – Nov 2002

Category : National

General Area Served : Victor Harbor (SA)

Service Licence Number : Not applicable

TECHNICAL SPECIFICATION - Television

Specification Number : TS57004

Transmitter Site :-

Nominal Location : NEWLAND HILL

Australian Map Grid Reference : Zone Easting Northing
54 279942 6059481

Site Tolerance : Refer to Technical Planning Guidelines

Emission :-

Frequency Band & Mode : UHF Band V - TV

Carrier Frequency : 716.224 MHz (Ch.55)

Polarisation : Vertical

Maximum antenna height : 45 m

Output Radiation Pattern :-

Bearing or Sector (Clockwise direction)	Maximum ERP
0°T - 10°T	1 kW
10°T - 75°T	2 kW
75°T - 90°T	1 kW
90°T - 105°T	500 W
105°T - 340°T	200 W
340°T - 355°T	500 W
355°T - 360°T	1 kW

Attachment 2.1

LICENCE AREA PLAN : Adelaide Analog Television – Nov 2002

Category : National
General Area Served : Adelaide (SA)
Service Licence Number : Not applicable

TECHNICAL SPECIFICATION - Television

Specification Number : TS2230001

Transmitter Site :-

Nominal Location : NTL Tower Summit Road CRAFERS
Australian Map Grid Reference :
Zone Easting Northing
54 290707 6126723
Site Tolerance : Refer to Technical Planning Guidelines

Emission :-

Frequency Band & Mode : UHF Band IV - TV
Carrier Frequency : 527.224 MHz (Ch.28)
Polarisation : Horizontal
Maximum antenna height : 155 m

Output Radiation Pattern :-

Bearing or Sector (Clockwise direction)	Maximum ERP
At all angles of azimuth	795 kW

LICENCE AREA PLAN : Adelaide Analog Television – Nov 2002

Category : National

General Area Served : Adelaide Foothills (SA)

Service Licence Number : Not applicable

TECHNICAL SPECIFICATION - Television

Specification Number : TS2230002

Transmitter Site :-

Nominal Location : 25 Grenfell Street ADELAIDE

Australian Map Grid Reference : Zone Easting Northing
54 280728 6132515

Site Tolerance : Refer to Technical Planning Guidelines

Emission :-

Frequency Band & Mode : UHF Band V - TV

Carrier Frequency : 632.224 MHz (Ch.43)

Polarisation : Horizontal

Maximum antenna height : 145 m

Output Radiation Pattern :-

Bearing or Sector (Clockwise direction)	Maximum ERP
0°T - 10°T	400 W
10°T - 25°T	1 kW
25°T - 40°T	2 kW
40°T - 210°T	4 kW
210°T - 225°T	2 kW
225°T - 240°T	1 kW
240°T - 360°T	400 W

Attachment 2.3

LICENCE AREA PLAN : Adelaide Analog Television – Nov 2002

Category : National
General Area Served : Elizabeth South (SA)
Service Licence Number : Not applicable

TECHNICAL SPECIFICATION - Television

Specification Number : TS2230003

Transmitter Site :-

Nominal Location : Water Tower Kettering Road ELIZABETH SOUTH
Australian Map Grid Reference : Zone Easting Northing
54 284662 6152822
Site Tolerance : Refer to Technical Planning Guidelines

Emission :-

Frequency Band & Mode : UHF Band V - TV
Carrier Frequency : 751.224 MHz (Ch.60)
Polarisation : Vertical
Maximum antenna height : 45 m

Output Radiation Pattern :-

Bearing or Sector (Clockwise direction)	Maximum ERP
0°T - 10°T	250 W
10°T - 135°T	500 W
135°T - 205°T	1 kW
205°T - 215°T	500 W
215°T - 230°T	250 W
230°T - 350°T	100 W
350°T - 360°T	250 W

LICENCE AREA PLAN : Adelaide Analog Television – Nov 2002

Category : National

General Area Served : Victor Harbor (SA)

Service Licence Number : Not applicable

TECHNICAL SPECIFICATION - Television

Specification Number : TS2230004

Transmitter Site :-

Nominal Location : NEWLAND HILL

Australian Map Grid Reference : Zone Easting Northing
54 279942 6059481

Site Tolerance : Refer to Technical Planning Guidelines

Emission :-

Frequency Band & Mode : UHF Band V - TV

Carrier Frequency : 695.224 MHz (Ch.52)

Polarisation : Vertical

Maximum antenna height : 45 m

Output Radiation Pattern :-

Bearing or Sector (Clockwise direction)	Maximum ERP
0°T - 10°T	1 kW
10°T - 75°T	2 kW
75°T - 90°T	1 kW
90°T - 105°T	500 W
105°T - 340°T	200 W
340°T - 355°T	500 W
355°T - 360°T	1 kW

Attachment 3.1

LICENCE AREA PLAN : Adelaide Analog Television – Nov 2002

Category : Commercial
General Area Served : Adelaide (SA)
Service Licence Number : SL120

TECHNICAL SPECIFICATION - Television

Specification Number : TS120001

Transmitter Site :-

Nominal Location : Channel 7/10 Site 115 Summit Road CRAFERS
Australian Map Grid Reference : Zone Easting Northing
54 290670 6126481
Site Tolerance : Refer to Technical Planning Guidelines

Emission :-

Frequency Band & Mode : VHF Band III - TV
Carrier Frequency : 209.25 MHz (Ch.10)
Polarisation : Horizontal
Maximum antenna height : 122 m

Output Radiation Pattern :-

Bearing or Sector (Clockwise direction)	Maximum ERP
At all angles of azimuth	200 kW

LICENCE AREA PLAN : Adelaide Analog Television – Nov 2002

Category : Commercial

General Area Served : Adelaide Foothills (SA)

Service Licence Number : SL120

TECHNICAL SPECIFICATION - Television

Specification Number : TS120002

Transmitter Site :-

Nominal Location : 25 Grenfell Street ADELAIDE

Australian Map Grid Reference : Zone Easting Northing
54 280728 6132515

Site Tolerance : Refer to Technical Planning Guidelines

Emission :-

Frequency Band & Mode : UHF Band V - TV

Carrier Frequency : 716.25 MHz (Ch.55)

Polarisation : Horizontal

Maximum antenna height : 145 m

Output Radiation Pattern :-

Bearing or Sector (Clockwise direction)	Maximum ERP
0°T - 10°T	400 W
10°T - 25°T	1 kW
25°T - 40°T	2 kW
40°T - 210°T	4 kW
210°T - 225°T	2 kW
225°T - 240°T	1 kW
240°T - 360°T	400 W

Attachment 3.3

LICENCE AREA PLAN : Adelaide Analog Television – Nov 2002

Category : Commercial
General Area Served : Victor Harbor (SA)
Service Licence Number : SL120

TECHNICAL SPECIFICATION - Television

Specification Number : TS120004

Transmitter Site :-

Nominal Location : NEWLAND HILL
Australian Map Grid Reference :
Zone Easting Northing
54 279942 6059481
Site Tolerance : Refer to Technical Planning Guidelines

Emission :-

Frequency Band & Mode : UHF Band V - TV
Carrier Frequency : 779.25 MHz (Ch.64)
Polarisation : Vertical
Maximum antenna height : 45 m

Output Radiation Pattern :-

Bearing or Sector (Clockwise direction)	Maximum ERP
0°T - 10°T	1 kW
10°T - 75°T	2 kW
75°T - 90°T	1 kW
90°T - 105°T	500 W
105°T - 340°T	200 W
340°T - 355°T	500 W
355°T - 360°T	1 kW

LICENCE AREA PLAN : Adelaide Analog Television – Nov 2002

Category : Commercial

General Area Served : Adelaide (SA)

Service Licence Number : SL121

TECHNICAL SPECIFICATION - Television

Specification Number : TS121001

Transmitter Site :-

Nominal Location : NWS 9 site 109 Summit Road CRAFERS

Australian Map Grid Reference : Zone Easting Northing
54 290698 6126331

Site Tolerance : Refer to Technical Planning Guidelines

Emission :-

Frequency Band & Mode : VHF Band III - TV

Carrier Frequency : 196.26 MHz (Ch.9)

Polarisation : Horizontal

Maximum antenna height : 153 m

Output Radiation Pattern :-

Bearing or Sector (Clockwise direction)	Maximum ERP
At all angles of azimuth	200 kW

Attachment 4.2

LICENCE AREA PLAN : Adelaide Analog Television – Nov 2002

Category : Commercial
General Area Served : Adelaide Foothills (SA)
Service Licence Number : SL121

TECHNICAL SPECIFICATION - Television

Specification Number : TS121002

Transmitter Site :-

Nominal Location : 25 Grenfell Street ADELAIDE
Australian Map Grid Reference : Zone Easting Northing
54 280728 6132515
Site Tolerance : Refer to Technical Planning Guidelines

Emission :-

Frequency Band & Mode : UHF Band V - TV
Carrier Frequency : 695.25 MHz (Ch.52)
Polarisation : Horizontal
Maximum antenna height : 145 m

Output Radiation Pattern :-

Bearing or Sector (Clockwise direction)	Maximum ERP
0°T - 10°T	400 W
10°T - 25°T	1 kW
25°T - 40°T	2 kW
40°T - 210°T	4 kW
210°T - 225°T	2 kW
225°T - 240°T	1 kW
240°T - 360°T	400 W

LICENCE AREA PLAN : Adelaide Analog Television – Nov 2002

Category : Commercial

General Area Served : Victor Harbor (SA)

Service Licence Number : SL121

TECHNICAL SPECIFICATION - Television

Specification Number : TS121004

Transmitter Site :-

Nominal Location : NEWLAND HILL

Australian Map Grid Reference : Zone Easting Northing
54 279942 6059481

Site Tolerance : Refer to Technical Planning Guidelines

Emission :-

Frequency Band & Mode : UHF Band V - TV

Carrier Frequency : 758.25 MHz (Ch.61)

Polarisation : Vertical

Maximum antenna height : 45 m

Output Radiation Pattern :-

Bearing or Sector (Clockwise direction)	Maximum ERP
0°T - 10°T	1 kW
10°T - 75°T	2 kW
75°T - 90°T	1 kW
90°T - 105°T	500 W
105°T - 340°T	200 W
340°T - 355°T	500 W
355°T - 360°T	1 kW

Attachment 5.1

LICENCE AREA PLAN : Adelaide Analog Television – Nov 2002

Category : Commercial
General Area Served : Adelaide (SA)
Service Licence Number : SL122

TECHNICAL SPECIFICATION - Television

Specification Number : TS122001

Transmitter Site :-

Nominal Location : Channel 7/10 Site 115 Summit Road CRAFERS
Australian Map Grid Reference : Zone Easting Northing
54 290670 6126481
Site Tolerance : Refer to Technical Planning Guidelines

Emission :-

Frequency Band & Mode : VHF Band III - TV
Carrier Frequency : 182.26 MHz (Ch.7)
Polarisation : Horizontal
Maximum antenna height : 122 m

Output Radiation Pattern :-

Bearing or Sector (Clockwise direction)	Maximum ERP
At all angles of azimuth	200 kW

LICENCE AREA PLAN : Adelaide Analog Television – Nov 2002

Category : Commercial

General Area Served : Adelaide Foothills (SA)

Service Licence Number : SL122

TECHNICAL SPECIFICATION - Television

Specification Number : TS122002

Transmitter Site :-

Nominal Location : 25 Grenfell Street ADELAIDE

Australian Map Grid Reference : Zone Easting Northing
54 280728 6132515

Site Tolerance : Refer to Technical Planning Guidelines

Emission :-

Frequency Band & Mode : UHF Band V - TV

Carrier Frequency : 674.25 MHz (Ch.49)

Polarisation : Horizontal

Maximum antenna height : 145 m

Output Radiation Pattern :-

Bearing or Sector (Clockwise direction)	Maximum ERP
0°T - 10°T	400 W
10°T - 25°T	1 kW
25°T - 40°T	2 kW
40°T - 210°T	4 kW
210°T - 225°T	2 kW
225°T - 240°T	1 kW
240°T - 360°T	400 W

Attachment 5.3

LICENCE AREA PLAN : Adelaide Analog Television – Nov 2002

Category : Commercial
General Area Served : Victor Harbor (SA)
Service Licence Number : SL122

TECHNICAL SPECIFICATION - Television

Specification Number : TS122004

Transmitter Site :-

Nominal Location : NEWLAND HILL
Australian Map Grid Reference :
Zone Easting Northing
54 279942 6059481
Site Tolerance : Refer to Technical Planning Guidelines

Emission :-

Frequency Band & Mode : UHF Band V - TV
Carrier Frequency : 737.25 MHz (Ch.58)
Polarisation : Vertical
Maximum antenna height : 45 m

Output Radiation Pattern :-

Bearing or Sector (Clockwise direction)	Maximum ERP
0°T - 10°T	1 kW
10°T - 75°T	2 kW
75°T - 90°T	1 kW
90°T - 105°T	500 W
105°T - 340°T	200 W
340°T - 355°T	500 W
355°T - 360°T	1 kW

LICENCE AREA PLAN : Adelaide Analog Television – Nov 2002

Category : Community

General Area Served : Adelaide (SA)

Service Licence Number : SL 1150811

TECHNICAL SPECIFICATION - Television

Specification Number : TS3596001

Transmitter Site :-

Nominal Location : Mount Lofty ADELAIDE

Australian Map Grid Reference : Zone Easting Northing
54 290800 6126400

Site Tolerance : Refer to Technical Planning Guidelines

Emission :-

Frequency Band & Mode : UHF Band IV - TV

Carrier Frequency : 548.224 MHz (Ch.31)

Polarisation : Horizontal

Maximum antenna height : 15 m

Output Radiation Pattern :-

Bearing or Sector (Clockwise direction)	Maximum ERP
At all angles of azimuth	20 kW