11 M Earth Station Antenna SPECIFICATIONS

	ELECTRICAL	
Antenna size	11 Mtr	
Antenna Optics	Shaped Parabolic Cassegrain system	
Feed Type	Composite, Conical Horn Feed & Sub – Reflector	
Feed options	Feed - 2 Port / 4 Port Linear / Circular Ku Band Rx only.	r Feed in C / Ext - C / Ku Band. Composite C /
Frequency of operation	Rx (Ghz)	Tx (Ghz)
C – Band	3.625 – 4.2	5.85 - 6.425
Ext – C Band	4.5 - 4.8	6.725 – 7.025
Ku - Band	10.700 – 12.750	14 – 14.5
Antenna Gain dBi (Mid Band)	Rx (dBi)	Tx (dBi)
C – Band	51.0	55.0
Ext – C Band	53.0	56.0
Ku - Band	60.8	62.3
G / T (Typical)		
C – Band	22.0 40 /	°K with 35°K LNA
Ext – C Band		
	33.5 dB / °K with 35°K LNA	
Ku - Band	39.0 dB / °K with 70°K LNA	
Cross pol Descrimination	>30dB Min	
VSWR	1.30 : 1	
Tx to Rx Isolation	90 dB with TRF	
Feed Rotation	Motorised Drive	
Output wave guide flange	Rx	Тх
C – Band	CPR 229G	CPR 137G
Ext – C Band	CPR 229G	CPR 137G
Ku – Band	WR 75 flat	WR 75 flat
Power Handling Capacity		
C – Band	ЗКW	
Ext – C Band	3KW	
	-	
Ku – Band	2KW	
Radiation Pattern		TU – R.S.580 – 6
	MECHANICAL	
Coverage		
Azimuth Travel	a) 110° Continuous, and 180°in 2 positions,	
	^{b)} ±360 [°] in 20 [°] Segments.	
	C) ±330° Continuous.	
Elevation Travel	5° - 90°	
Az & EL Travel Rate	4°/Min	
Polarisation Travel	± ^{95°}	
Feed Rotation	± 190 [°] Min	
Weight of Reflector	4 Tonnes	
Weight of Pedestal	4 Tonnes	
Reflector Structure	Aluminium Alloy	
Mount Structure	Steel (Galvanised)	
Foundation Size	Varies as per pedestal Design	
	ENVIRONMENTAL	-
Operational Winds	70 Kmph gusting to 100 Kmph	
Survival Winds	200 Kmph	
Ambient Temperature	- 15° to + 50° C	
Rain	Upto 100 mm/hr	
Humidity	100%	
Turnuity		