## 7.5 M Earth Station Antenna SPECIFICATIONS

	ELECTRICAL				
Antenna size	7.5Mtr				
Antenna Optics	Shaped Parabolic Cassegrain system				
Feed Type	Composite, Conical Horn Feed & Sub – Reflector				
Feed options	Feed - 2 Port / 4 Port Linear / Circular Feed in C / Ext - C / Ku Band. Composite C / Ku Band Rx only.				
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	47.8	51.3			
Ext – C Band	48.5	52.0			
Ku - Band	57.0	58.5			
G / T ( Typical )					
C – Band	28.0 dB / °K with 35°K LNA				
Ext – C Band	30.5 dB / °K with 35°K LNA				
Ku - Band	35.0 dB / °K with 70°K LNA				
Cross pol Descrimination	30dB Min				
VSWR	1.30 : 1				
Tx to Rx Isolation	90 0	dB with TRF			
Insertion Loss	Rx port	Tx port			
	0.2dB	0.15dB			
Feed Rotation		orised Drive			
Output wave guide flange	Rx	Tx			
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	3KW				
Ext – C Band	3KW				
Ku – Band	2KW				
Radiation Pattern		TU – R.S.580 – 6			
Radiation Pattern	· ·	0 - 1.3.300 - 0			
	MECHANICAL				
Coverage	11000				
Azimuth Travel ( Optional )		, 330° Continuous with Slewing Ring Bearing			
Elevation Travel	5° - 90°				
Az & EL Travel Rate	4°/Min				
Polarisation Travel	190° Minimum				
Feed Rotation	± 190° Min				
Weight of Reflector	2000Kgs				
Weight of Pedestal	2500Kgs				
Reflector Structure	Aluminium Alloy				
Mount Structure Foundation Size	Steel ( Galvanised )				
r ouridation Size	Varies as per pedestal Design				
Oppositional IMPs de	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%				
Atmospheric Conditions	As encountere	ed in Marine / Industrial			