4.6 M Earth Station Antenna SPECIFICATIONS

ELECTRICAL		
Antenna size	4.6Mtr	
Antenna Type	Prime Focus / Gregorian system	
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	43.0	47.0
Ext – C Band	44.5	48.0
Ku - Band	53.0	54.5
G / T (Typical)		
C – Band	25.0 dB / °K with 35°K LNA	
Ext – C Band	26.0 dB / °K with 35°K LNA	
Ku - Band	31.8 dB / °K with 70°K LNA	
Cross pol Descrimination	30dB Min	
VSWR	1.30 : 1	
Output wave guide flange	**Rx**	**Tx**
C – Band	CPR 229G	CPR 137G
Ext – C Band	CPR 229G	CPR 137G
Ku - Band	WR 75	WR 75
Power Handling Capacity		
C – Band	2KW	
Ext – C Band	2KW	
Ku - Band	2KW	
Radiation Pattern	As per ITU – R.S.580 - 6	
MECHANICAL		
Coverage		
Azimuth Travel	110˚ Continuous, and 180˚in 2 positions	
Elevation Travel	5˚ - 90˚	
Travel Rate	4˚/Min for Az & El	
Polarisation Travel	Manual ±95˚	
Weight of Reflector	500Kgs	
Weight of Mount	1000Kgs	
Reflector Structure	Aluminium Alloy	
Mount Structure	Steel (Galvanised)	
Foundation Size	4 x 4 x 0.5 Mtr	
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%	
Solar Radiation	360˚ BTU / hr / ft 2 or 1000 K Cal / hr / m2	
Atmospheric Conditions	As encountered in Marine / Industrial	