

## 1.2 M Mobile Antenna SPECIFICATIONS

<b>ELECTRICAL</b>		
<b>Antenna size</b>	1.2 Mtr Prime Focus Offset	
<b>Feed Type</b>	Offset	
<b>Frequency of operation</b>	<b>Rx ( Ghz )</b>	<b>Tx ( Ghz )</b>
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	13.75 – 14.50
<b>Antenna Gain dBi ( Mid Band )</b>	<b>Rx ( dBi )</b>	<b>Tx ( dBi )</b>
C – Band	31.5	35.0
Ext – C Band	32.0	35.5
Ku - Band	41.6	43.0
Cross pol Discrimination ( CPD )	>30dB ( on axis )	
Polarisation	Linear / Circular	
VSWR	1.30 : 1	
<b>Power Handling Capacity</b>	<b>Tx</b>	
C – Band	1KW	
Ext – C Band	1KW	
Ku - Band	1KW	
<b>Feed Interface</b>	<b>Rx</b>	<b>Tx</b>
C – Band	CPR 229G	CPR 137G or N Connector
Ext – C Band	CPR 229G	CPR 137G
Ku – Band	WR 75 flat	WR 75 flat
<b>Radiation Pattern</b>	As per ITU – R.S.580 – 6 , Meets Current FCC requirement for 2 ° spacing	
<b>MECHANICAL</b>		
Reflector Type	GFRP / CFRP	
Mount Geometry	Elevation over Azimuth	
Azimuth Travel	± 200° Continuous	
Elevation Travel	0° - 160° from sleep Mode	
Polarization Travel	± 95° for 2 Port	
Polarization Travel Rate	1.5 ° / Sec	
<b>Motors</b>	<b>Elevation</b>	<b>Azimuth</b>
	24 V, DC variable speed, constant torque	24 V, DC variable speed, constant torque
<b>Speed</b>	<b>Slewing / Deploying</b>	<b>2° / Second</b>
	Peaking	0.1° / Second
	Pedestal	Hot Dip Galvanized Plate & Aluminium alloy construction.
	Weight of System	160Kgs
<b>ENVIRONMENTAL</b>		
Operation Wind	80 Kmph	
Survival Wind	150 Kmph ( in sleep Mode )	
Ambient Temperature	-40° C to + 60° C	
Rain	Upto 100 mm/hr	
Humidity	100%	
Shock & Vibration	As encountered during road conditions.	
Corrosive Atmosphere	As encountered in marine atmosphere.	