

Roof Top Cell Towers



Roof Top Towers Design & Supply

Qualified and competent in-house design teams at Aster are proficient in designing and developing all types of towers using relevant and latest software that use national standards.

ATPL has seven tower manufacturing units with total production capacity of 170,000 mT per annum, spread through three strategic locations of Hyderabad, Raipur and Vadodara. This ensures cost effectiveness and proximity to the customer site locations.

Equipped with state-of-the-art technology and machinery for Tower manufacturing and allied Structural Fabrication Facilities and with significant technical expertise, Aster builds solutions that are fast and reliable.

Based on Design of Tower

- Square Angular Tower
- Tri-Angular Tower
- Polygonal Tower
- monopoles
- Guyed masts

Based on type of material Sections

- Angular Towers
- Tubular Towers
- Hybrid Tower

Designs Capabilities

Sl. No.	Description	Base Width C/C (mm)	Top Width C/C (mm)	Antenna Loading	Wind Speed (kmph)	Approval
TUBULAR ROOFTOP TOWERS						
1	25 m Tubular	3000	1500	MW 3.0 m dia. – 1 no.	200	SERC-Chennai
	22 m	2800		MW 1.8 m dia. – 1 no.		
	19 m	2600		MW 1.2 m dia. – 3 nos.		
	16 m	2400		Patch Panel – 6 nos. or equivalent		
	13 m	2200				
2	25 m Tubular	3000	1500	MW 1.2 m dia. – 2 nos.	180	SERC-Chennai
	22 m	2800		MW 0.6 m dia. – 2 nos.		
	19 m	2600		Patch Panel – 6 nos. or equivalent		
	16 m	2400				
	13 m	2200				
3	30 m Tubular	4000	1500	MW 1.2 m dia. – 2 nos.	180	SERC-Chennai
	27 m	3750		MW 0.6 m dia. – 2 nos.		
	24 m	3500		Patch Panel – 6 nos. or equivalent		
	21 m	3250				
	18 m	3000				
	15 m	2750				
	12 m	2500				
	9 m	2250				
4	18 m Tubular TOWER	2100	1500	MW 0.6 m dia. – 2 nos.	180	SERC-Chennai
	15 m Tubular TOWER	1950	1500	Patch Panel – 9 nos. or equivalent	180	
	12 m Tubular TOWER	1800	1500		180	
5	9 m Tubular TOWER	1500	1500	MW 1.2 m dia. – 1 no.	180	SERC-Chennai
				MW 0.6 m dia. – 1 no.		
				Patch Panel – 3 nos. or equivalent		
6	9 m Tubular TOWER	1500	1500	MW 0.6 m dia. – 2 nos.	180	SERC-Chennai
				Patch Panel – 9 nos. or equivalent		
ANGULAR ROOFTOP TOWERS						
1	30 m Triangular Angular	3250	1500	MW 0.6 m dia. – 3 nos.	210	SERC-Chennai
				Patch Panel – 12 nos. or equivalent		
2	18 m Triangular Angular	2013	1200	MW 0.6 m dia. – 3 nos.	210	SERC-Chennai
	15 m	1741		Patch Panel – 6 nos. or equivalent		
	12 m	1470				
	9 m	1210				
3	30 M Square Angular	2924	1500	MW 1.2 m dia. – 2 nos.	180	IIT-Chennai
	27 m	2709		MW 0.6 m dia. – 4 nos.		
	24 m	2515		Patch Panel – 6 nos. or equivalent		
	21 m	2301		FOS 1.5		
	18 m	2086				
	15 m	1876				

Sl. No.	Description	Base Width C/C (mm)	Top Width C/C (mm)	Antenna Loading	Wind Speed	Approval
4	24 m Square Angular	3278	1600	MW 1.2 m dia. – 2 nos.	180	SERC-Chennai
	21 m	2890		MW 0.6 m dia. – 2 nos.		
	18 m	2540		Patch Panel – 6 nos. or equivalent		
	15 m	2190				
	12 m	1840				
	9 m	1840				
	5	25 m Square Angular	3100	1200		
22.5 m		2900		MW 0.6 m dia. – 2 nos.		
20 m		2700		Patch Panel – 8 nos. or equivalent		
17.5 m		2500				
15 m		2300				
6	25 m Square Angular	1900	750	MW 1.2 m dia. – 3 nos.	200	SERC-Chennai
	20 m	1650		Patch Panel – 3 nos. or equivalent		
	17.5 m	1525				
	15 m	1400				
	12.5 m	1300				
7	24 m Square Angular	2540	1200	MW 0.6 m dia. – 4 nos.	170	SERC-Chennai
	21 m	2340		Patch Panel – 6 nos. or equivalent		
	18 m	2140				
	15 m	1940				
	12 m	1740				
8	27 M Triangular Angular	2800	1000	MW 0.6 m dia. – 2 nos.	210	SERC-Chennai
	24 m	2536		Patch Panel – 6 nos. or equivalent		
	21 m	2266				
	18 m	2009				
	15 m	1739				
	12 m	1475				
	9 m	1203				
9	30 M Square Angular (Type 1)	2930	1500	MW 0.6 m dia. – 4 nos.	170	SERC-Chennai
	27 m	2716		Patch Panel – 6 nos. or equivalent		
	24 m	2501				
	21 m	2281				
	18 m	2066				
	15 m	1855				
	9 m	1500				

Sl. No.	Description	Base Width C/C (mm)	Top Width C/C (mm)	Antenna Loading	Wind Speed	Approval
10	30 M Square Angular (Type 2)	2930	1500	MW 1.2 m dia. – 2 nos.	170	SERC-Chennai
	27 m	2716		MW 0.6 m dia. – 2 nos.		
	24 m	2501		Patch Panel – 6 nos. or equivalent		
	21 m	2281		FOS 1.5		
	18 m	2066				
	15 m	1855				
	12 m	1640				
	9 m	1500				
11	30 M Square Angular	2910	1500	MW 1.2 m dia. – 2 nos.	180	SERC-Chennai
	27 m	2705		MW 0.6 m dia. – 4 nos.		
	24 m	2500		Patch Panel – 6 nos. or equivalent		
	21 m	2300		FOS 1.5		
	18 m	2095				
	15 m	1880				
	12 m	1670				
12	30 M Tri Angular Angular	3069	1000	MW 1.2 m dia. – 2 nos.	180	IIT-Chennai
	24 m	2538		MW 0.6 m dia. – 4 nos.		
	21 m	2278		Patch Panel – 6 nos. or equivalent		
	18 m	2008		FOS 1.1		
	15 m	1737				
	12 m	1473				
13	30 M Square Angular	2910	1500	MW 1.2 m dia. – 12 nos.	180	SERC-Chennai
	24 m	2490		MW 0.6 m dia. – 12 nos.		
	21 m	2272		Patch Panel – 6 nos. or equivalent		
				FOS 1.5		
14	24 M Square Angular	2443	1500	MW 1.2 m dia. – 2 nos.	170	IIT-Chennai
	21 m	2256		MW 0.6 m dia. – 6 nos.		
	18 m	2056		Patch Panel – 6 nos. or equivalent		
	15 m	1860		FOS 1.2		
	12 m	1660				
15	24 M Square Angular		1500	MW 3.0 m dia. – 2 nos.	170	IIT-Chennai
	21 m	2678		MW 2.4 m dia. – 1 no.		
	18 m			MW 1.8 m dia. – 1 no.		
	15 m			MW 1.2 m dia. – 2 nos.		
				Patch Panel – 9 nos. or equivalent		
				FOS 1.5		
16	24 M Square Angular	2943	1500	MW 1.2 m dia. – 4 no.	170	IIT-Chennai
	21 m	2643		MW 0.6 m dia. – 4 nos.		
	18 m	2343		Patch Panel – 12 nos. or equivalent		
	15 m	2060		FOS 1.2		
	12 m	1760				

Note:

MW - Microwave (Type - Solid Parabolic)

Patch Panel - Base Station Antennae (GSM / CDMA etc.,) or Conventional (Frequency Range - 900 / 1800 MHz)

