

Ground Based Cell Towers



Ground Based 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 (Legs with tubes and bracings with angles)



Designs Capabilities

SI No	Description	Base Width C/C	Top Width C/C	Antenna Loading	Wind Speed	Approval
TUBULAR GROUND BASED TOWERS						
1	40M Tubular	6590mm	1310 mm	M/W1.2-3, 6- GSM	180 KMPH	SERC-CHENNAI
	34m	5800mm				
2	40M Tubular	4000mm	1500 mm	M/W1.2-3, 6- GSM	180 KMPH	SERC-CHENNAI
	34m	3600mm				
3	60M Tubular	6500mm	1500 mm	M/W2.4-2, 6- GSM, M/W 0.6-4	170 KMPH	SERC-CHENNAI
	54m	6000mm				
	51M	5750mm				
	45M	5250mm				
	42m	5000mm				
ANGULAR GROUND BASED TOWERS						
1	70M Square Angular	6970	1500 mm	9-GSM, 2-2.4M/W, 3-1.8M/W, 3-1.2M/W	180 KMPH	SERC-CHENNAI
	60m	6040				
	50m	5133		MS+HT		
	40m	4206				
2	70M Square Angular	6360 B/B	1200 mm	6-GSM, 2-1.8M/W, 2-1.2M/W & 2-0.6M/W	170 KMPH	SERC-CHENNAI
	60m	5400				
	50m	4540				
	40m	3686				
	30m	2826				
3	60M Square Angular	6250 B/B	1500 mm	12-GSM& 2-0.6M/W	180 KMPH	SERC-CHENNAI
				MS+HT		
4	80M Square Angular	9346	1500 mm	6-GSM, 2-2.4M/W, 2-1.8M/W, 2-1.2M/W & 2-0.6M/W	180 KMPH	IIT-CHENNAI
	70m	8211				
	60m	7088				
	50m	5955		1.5 FOS		
	40M	4821		MS+HT		
5	40M Square Angular	3918	1500 mm	6-GSM, 2-1.8M/W, 2-1.2M/W & 2-0.6M/W	180 KMPH	IIT-CHENNAI
	30m	3095				
6	60M Square Angular	5643	1500 mm	6-GSM, 2-1.8M/W, 2-1.2M/W & 2-0.6M/W	180 KMPH	IIT-CHENNAI
	50m	4919				
	40m	4069				
	30m	3217				
7	60M Square Angular	6167	1500 mm	12-GSM, 4-0.6M/W, 6-1.2M/W	170 KMPH	IIT-CHENNAI
	50m	5238				
	40m	4288		fos - 1.2		
	30m	3333				

SI No	Description	Base Width C/C	Top Width C/C	Antenna Loading	Wind Speed	Approval
8	80M Square Angular	8800	1500 mm	6-GSM,4-3.0M/W, 2-2.4M/W,2-1.8M/W, 4-0.6M/W, 2-1.2M/W	180 KMPH	IIT-CHENNAI
	70m	7793		MS+HT		
	60m	6750		LIFE PERIOD:100YRS.		
	50M	5583				
	40M	4541		fos - 1.5		
9	60M Square Angular	5643	1500 mm	6-GSM, 6-0.6M/W, 2-1.2M/W	170 KMPH	IIT-CHENNAI
	50m	4831				
	40m	3981		fos - 1.2		
10	80M Square Angular	8810	1500 mm	9-GSM, 5-0.6M/W, 4-3.0M/W, 3-1.8M/W	180 KMPH	SERC-CHENNAI
	50m					
	40m					
11	80M Square Angular	8210mm	1500 mm	12-GSM, 6-0.6M/W, 2-1.8M/W,2-1.2M/W	180 KMPH	SERC-CHENNAI
	70m	7262				
	60m	6305				
	50m	5230				
	40m	4293				
12	70M Triangular Angular	6820mm	1500 mm	6-GSM, 4-0.6M/W,2-1.2M/W	180 KMPH	IIT-CHENNAI
	60m	5893				
	50m	4969				
	40m	4073		FOS -1.1		
13	80M Square Angular(Type 1)	8088mm	1500 mm	6-GSM, 2-0.6M/W, 2-1.8M/W	170 KMPH	SERC-CHENNAI
	70m	7163				
	60m	6206				
	50m	5252		MS+HT		
	40m	4307				
	30m	3360				
14	80M Square Angular (Type 2)	8088mm	1500 mm	6-GSM, 2-1.2M/W, 2-2.4M/W	170 KMPH	SERC-CHENNAI
	70m	7163				
	60m	6206				
	50m	5252				
	40m	4307		MS+HT		
	30m	3352				
15	80M Square Angular (Type 3)	8088mm	1500 mm	6-GSM, 2-1.2M/W, 2-1.8M/W, 2-2.4M/W	170 KMPH	SERC-CHENNAI
	70m	7163				
	60m	6206				
	50m	5252		MS+HT		
	40m	4307				
	30m	3352				

SI No	Description	Base Width C/C	Top Width C/C	Antenna Loading	Wind Speed	Approval
16	60M Triangular Angular	5850mm	1200 mm	12-GSM, 2-0.6M/W	200 KMPH	SERC-CHENNAI
	50	5040				
	40	4080				
	30	3119				
17	60M Square Angular	5360mm	1200 mm	6-GSM, 2-0.6M/W, 2-1.2M/W, 2-1.8M/W	200 KMPH	SERC-CHENNAI
	50m	4496				
	40m	3636				
	30m	2920				
18	60M Square Angular	5400mm	1200 mm	6-GSM, 2-0.6M/W, 2-1.2M/W, 2-1.8M/W		
	55m	4982				
	50m	4540				
	40m	3686				
	30m	2826				
	25m	2435				
19	60M Square Angular	5400mm	1200 mm	6-GSM, 2-0.6M/W, 2-1.2M/W, 2-1.8M/W	120 KMPH	SERC-CHENNAI
	50m	4540				
	40m	3686				
	30m	2920				
20	80m Square Angular	12700mm	1500 mm	M/w 3.0-2+ M/w0.6-2 +M/W1.2-2, 4- GSM	180 KMPH	SERC-CHENNAI
	70m	11300				
	65m	10600				
	60m	9780				
	55m	9080				
	50m	8412				
	45m	7712				
	40m	7012				
	35m	6312				
	30m	5480				
21	60m Square Angular	9900mm	1500 mm	M/w 0.6-2+ M/w1.2-2 +M/W3.0-2, 8- GSM	250 KMPH	SERC-CHENNAI
	50m	8500mm				
	40m	6990				
	30m	5400				
22	100m Square Angular	15500mm	1500 mm	M/w 3.0-3+ M/w 2.4 - 3	200 KMPH	SERC-CHENNAI
	90m	14100				
	80m	12700				
	70m	11300				
	65m	10600				
	60m	9780				
	55m	9080				
	50m	8412				

SI No	Description	Base Width C/C	Top Width C/C	Antenna Loading	Wind Speed	Approval
	45m	7712				
	40m	7012				
	35m	6312				
	30m	5400				
23	60m Square Angular	5090mm	1200 mm	M/w1.2-2 + 4- GSM	180 KMPH	SERC-CHENNAI
	50M	4290				
	40M	3490				
	30M	2700				
24	50m Square Angular	5130mm	1200 mm	M/w1.2-2 +M/W 2.0-2, 8- GSM	180 KMPH	SERC-CHENNAI
	45m	4690				
	40m	4290				
	35m	3890				
	30m	3490				
25	50m Square Angular	6400mm	1500 mm	M/W 0.6-4,M/W 1.2-1, 6- GSM	170 KMPH	SERC-CHENNAI
	45m	5775				
	40m	5150				
	35m	4525				
	30m	3900				
26	100m Square Angular	15500mm	1500 mm	M/w1.2 - 4 , 8- GSM	180 KMPH	SERC-CHENNAI
	90m	14100				
	80m	12700				
	70m	11300				
	65m	10450				
	60m	9780				
	55m	9080				
	50m	8412				
	45m	7712				
	40m	7012				
	35m	6312				
	30m	5480				
27	70m Angular	6800	1500 mm	M/w 3.0-3+ M/w 2.4 - 3	200 KMPH	SERC-CHENNAI
	60m	6000				
	50m	5200				
	40m	4400				
	30m	3500				
	36m	4500mm				