

TOWER QUOTE REQUEST FORM

CUSTOMER CONTACT INFORMATION		
Your Name:		
Company Name:		
Address:		
City:	State:	Zip Code:
Phone:	Fax:	
E-mail:		

TOWER SITE INFORMATION		
Site Name/Number:		State:
City:		Country:
Type of Tower:	<input type="checkbox"/> Self-supporting	<input type="checkbox"/> Pole <input type="checkbox"/> Camo <input type="checkbox"/> Other (specify):
Soil Report & Plot Plan recommended.	List Radius: List Drops & Rises or assume flat:	
Overall Height of tower (specify Meter or Feet):		
Base Elevation above surrounding terrain:		
Engineering Standard to be used:	<input type="checkbox"/> EIA-F <input type="checkbox"/> TIA-G <input type="checkbox"/> Use TIA Wind speed	
Other Code/Standard:		
OR Customer specified basic wind speed (MPH) or KPH Specify in notes:	<input type="checkbox"/> 3-second Gust Wind Speed	<input type="checkbox"/> Fastest km/Mile Wind Speed
Radial Ice (optional) Inches:		
<input type="checkbox"/> Load Reduced 25% per TIA/EIA	<input type="checkbox"/> Ice Considered Simultaneous (standard)	
REQUIRED INFORMATION FOR TIA-G DESIGN:		
Structure Class:	<input type="checkbox"/> II (Default) <input type="checkbox"/> Class I	<input type="checkbox"/> Class III
Exposure:	<input type="checkbox"/> C (Default) <input type="checkbox"/> A	<input type="checkbox"/> B
Topography Category:	<input type="checkbox"/> 1 (Default) <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5	
Coordinates: LATITUTDE:		LONGITUDE:
Site Address:		

ANTENNAS AND LINES (APURTENANCES)					
Height m/ft.	Quantity	Model #	Mount	Line Size	Line Qty

DISHES					
Height m/ft.	Quantity	Size & Type-Solid,Grid,Radome,HP	Azimuth & Frequency	Line Size	Line Qty

OPTIONAL EQUIPMENT		
Lights:	<input type="checkbox"/> Red Beacons <input type="checkbox"/> Medium Intensity Strobes	<input type="checkbox"/> Dual Lights <input type="checkbox"/> Other (specify):
Paint Color:		Transmission Line Bridge Length:
List Other Options:		

GEOTECHNICAL INVESTIGATIONS FOR TELECOMMUNICATION TOWERS

A soil investigation by a geotechnical engineering firm is recommended for each tower site to determine its unique soil and physical characteristics. To ensure that the report furnishes useful information to the foundation designer, the guidelines listed below should be followed.

Number Soil of Borings

SS Tower Preferred one at each tower leg or one at center of tower base if base width is less than 4.5 meters (15 feet)
Minimum one at center of tower base if base width less than 6 meters (20 feet)

Monopole

one at center of monopole base

Depth of Boring

The depth is dependent on the magnitude of the tower reaction forces and the type of soil encountered.

Self-Support Tower

6 - 8 meters (20 to 25 feet) minimum if shallow pad type foundation is anticipated

9 -15 meters (30 to 50 feet) minimum if drilled pier type foundation is anticipated

Monopole

8 - 12 meters (25 to 40 feet) if fill soil are not encountered

6 - 12 meters (20 to 40) feet into native soil if fill soil is encountered

If rock anchors are anticipated, the rock should be cored a minimum of 3 - 6 meters (10 to 20 feet).

Geotechnical Data (cont.)

Soil Properties – The soil report should provide the following, including all applicable factors of safety.

Minimum Required Information

- a. Allowable Bearing Pressure – values vs. depth and expected settlement, mainly at tower base (all tower types)
- b. Allowable Passive Pressure – values vs. depth (all tower types)
- c. Allowable Skin Friction – values vs. depth (SS and guyed towers only)
- d. Angle of Internal Friction – (all tower types)
- e. Unit Weight – buoyant, if submerged (all tower types)
- f. Cohesion – values vs. depth, if any (all tower types)
- g. Rock Quality Designation (RQD) – if rock is encountered (all tower types)
- h. If rock anchors are anticipated
 - i. Ultimate Rock Shear Strength
 - ii. Unit Weight
 - iii. Rock/Grout Friction or Bond Strength
 - iv. Rock Engagement Angle

Optional Information (if drilled piers are anticipated for monopole)

- a. Lateral Modulus of Subgrade Reaction
- b. Strain at 50% of the Maximum Principal Stress Difference (E_{50})

Boring Logs

- a. Date, sampling methods, and number of samples
- b. Soil strata classification per USCS, and their depth
- c. Depth of free water encountered and groundwater depth to be used for design
- d. Standard Penetration Test (SPT) blow counts (blows per foot)
- e. Maximum and average frost penetration depth
- f. Unit weight of soil, buoyant unit weight (if submerged)
- g. Type of rock encountered

Recommendations

- a. Foundation system best suited for existing soil conditions
- b. Alternative foundation system that can also be considered
- c. Construction problems anticipated (e.g. temporary casings, drilling slurry, rock augers or core barrels, jack hammering, etc.)
- d. Other variables that will affect the installation and design
- e. Depth of saturated soil if expected
- f. Soil resistivity if any special corrosion mitigating measures are required