

How to prepare a Radio Survey Report

To submit a survey report we have to analyze and measure some parameters. The survey report should be prepared by pursuing below methodology:

We measure the exact location of the sight by GPS meter.

GPS:

The Global Positioning System (GPS) is a satellite-based navigation system made up of a network of 24 satellites. GPS works in any weather conditions, anywhere in the world, 24 hours a day. There are no subscription fees or setup charges to use GPS.

How it works

GPS satellites circle the earth twice a day in a very precise orbit and transmit signal information to earth. GPS receivers take this information and use triangulation to calculate the user's exact location. Essentially, the GPS receiver compares the time a signal was transmitted by a satellite with the time it was received.

With GPS meter we can measure Latitude, Longitude, Bearing and Elevation of the survey location.

The GPS location parameters:

Latitude: Latitude values indicates the angular distance between the equator and points north or south of it on the surface of the earth.

Longitude: Longitude values indicates the angular distance between the prime meridian and points east or west of it on the surface of the earth.

Bearing: Bearing is a measurement of direction between two points.

Elevation: Elevation is the height of a place above sea level.

The another parameters are:

- Media Type : (The Media type should be mentioned)
- Associated with : (The Associated BTS should be mentioned by associated with which BTS)
- Possible Link type : (Possible link type should be mentioned by Point to point or point to multipoint)
- LOS : (Line of sight should be mentioned by Clear or not)

- Obstacle : (The obstacle should be mentioned tree or building)
- Obstacle Height : (The obstacle height should be mentioned)
- Distance : (The distance should be mentioned from our associated BTS)
- Building Height : (The building height should be mentioned)
- Roof space : (The roof space should be mentioned)
- Required Tower height: [The tower height should be mentioned by feet (unit)]
- Tower Type: (The tower type should be mentioned by Three leg or single leg)
- Cable Required : [The cable length should be mentioned by feet(unit)]
- Conduit : (The conduit should be mentioned by feet)
- Grounding : (The Grounding should be mentioned by Electric or Communication Grounding Exist or not)

By measuring the above mentioned parameters we can successfully prepare a survey report of a certain location.