

Procedure for P2P survey

Importance of site survey

A radio frequency (RF) site survey is the first step in the deployment of a Wireless network and the most important step to ensure desired operation.

Site survey is a process by which the surveyor studies the facility to understand the RF behavior, discovers RF coverage areas, checks for RF interference and determines the appropriate placement of Wireless devices

Required Equipments & Details:

1. GPS (with battery)
2. Compass
3. Survey work order copy
4. Binocular
5. BTS Address (Because some times W/O BTS address is wrong)

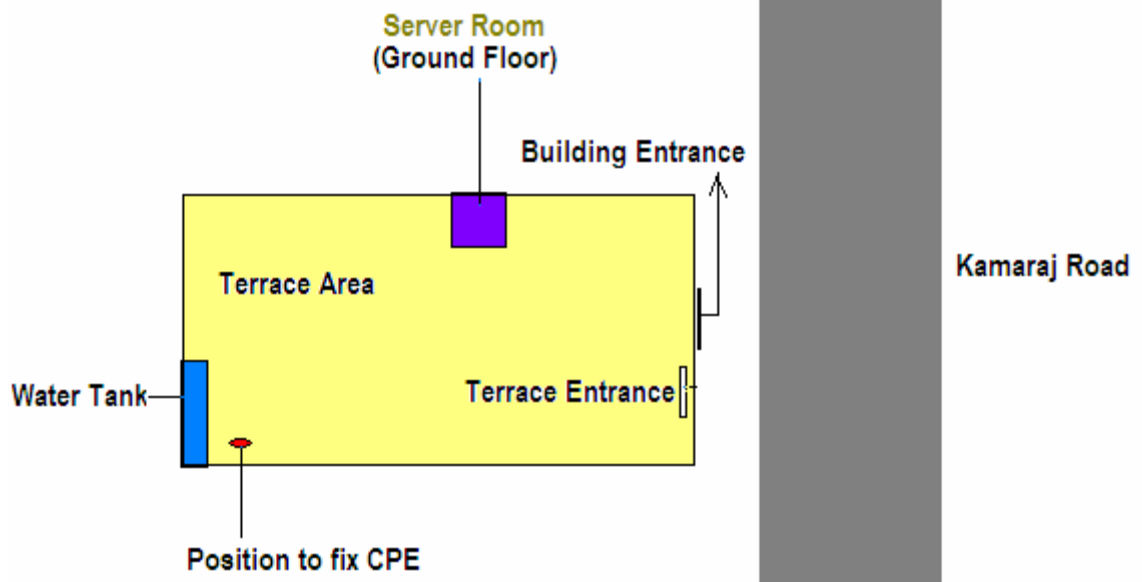
Procedure:

1. Contact the customer through phone and get permission for doing the survey, in case if there is no permission, give the status immediately to vendor team else proceed fix the timing for survey.

2. Confirm the address of the BTS and contact the BTS in charge for BTS access, which is given in the work order, in case of any permission problem, escalate the same to immediate vendor team.
3. Visit the customer end and fetch the LAT, LONG & AMSL values from ground level.
4. Visit the customer terrace and take a 360deg coverage visibility and make a note of near by important landmarks
5. Check for any other P2P links are near to customer place, in case if it is there make a note of it clearly. Check if there are high voltage lines (electric transmission lines) which are nearby.
6. Note the cable (should be less than 100 m) routing path from terrace, earth pit availability (**only Building earthing, don't consider any electrical and lighting arrestor earthing pit**) in the customer premise & the server room space availability.
7. Visit the BTS end and fetch the LAT, LONG & AMSL values from ground level, availability of free MCB, Rack Space for mounting IDU & E1 to Ethernet converter.
8. Check if any other P2P exists in the BTS or near to the BTS and make a note on it, also take a 360deg coverage visibility with nearby land marks from the top of the tower
9. Calculate the azimuth angle between the points and the hop distance for the same (Need explanation)
10. Check for LOS in the customer direction with compass from the BTS end, if LOS is there site can be given feasible with 3 meter pole, if in case required check with collected landmarks of customer place, revisit the customer place to confirm the feasibility status, else suggest the required height at customer premise with help of graph and contour map.
11. Once we suggest the Pole or Mast first of all confirm the quality of the building condition

12. Take the photo shot for where we erect the mast or pole (exact location)
13. If in case of non feasibility due to hop distance or huge obstruction, repeat the above said process for nearest available cell site of vodofone/airtel/aircell/ bsnl/reliance/idea.
14. Prepare the survey report with all the collected data at the site and check twice before send the report.
15. Insert the site diagram with top view in the survey report also mark or attach the photo shot for the locations were the pole or mast to be erected.

Example:



16. Send the report to QC team, with a copy to concern GCL in charge