



## Assessment of positional accuracy of GPS - A case study

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**Abstract:** One of the modern equipments used in surveying in recent years is GPS. Development of townships, market yards, undeveloped sites etc., requires large scale maps for planning, design and implementation. These large scale maps require accurate and reliable data. In order to get the data quickly, sophisticated instruments are to be used. In these circumstances, the development of GPS technology has provided accurate, reliable and fast surveying tool. In this paper an attempt has been made to assess the accuracy of hand held GPS by comparing the data obtained from Total station and GPS. The field data has been collected from Ranga Reddy district around Hyderabad city. It is observed that hand held GPS can provide data up to a certain accuracy which is good enough to be used in preparation of small scale maps.

**Key words:** GPS, Total station, Errors, Maps