

## **IMAGE PROCESSING TECHNIQUE FOR BETEL LEAF AREA MEASUREMENT**

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### **Abstract**

The deep green heart shaped leaves of betel vine are popularly known as a Paan in India. It is used in a number of traditional remedies. Now a day's customer's lifestyles and needs tremendously changed. These changes are new challenges for the farmers whose produce has to meet the customers demand. Betel leaf is catcogrise by its size and color in market. This paper includes the area measurement method for Betel leaf based on image processing technique. The results are compared with the results of graphical area measurement technique. To evaluate image processing method and graphical methods known area object is used as reference. The experimentally it is proved that this method for measuring Betel leaf area is accurate with smallest relative error.

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**Keywords:** Betel leaf, Digital Photograph, Image processing, Leaf area, Matlab.

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