**CONCLUSION**

In our paper, automated plant leaf disease type detection is proposed using the features of texture, shape, and color. At first, the input image is preprocessed using the Gaussian filter. The contrast of the leaf images are enhanced using the histogram equalization. Furthermore, segmentation and feature extraction are performed from preprocessed image. Segmentation is done by using K-means clustering. The extracted features are classified corresponding to the category using the K-nearest neighbour. The performance analysis shows that the proposed system offers higher accuracy and recall than the existing technique. The proposed KNN method is faster in classifying the types of the disease in leaf. Finally based on leaf disease, we implemented the pesticides providing model.