

Agriculture & Horticulture

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Cultivation and export of horticulture products have received considerable interest in recent years due to the sector's immense potential to generate employment, income and export services. Assam due to its agro – climatic diversity is a potential hub for cultivation of different ornamental plants. But the horticulture industry is being challenged mostly by different biotic stresses. For effective management of the biotic stress, the causal agents need to be identified, characterized and studied thoroughly. The taxonomic studies on the bacterial pathogen is least reported from Assam and other states of the North-Eastern region of India. The present investigation was made to isolate and determine the taxonomic position of the pathogenic bacterial isolates associated with flowering and foliage ornamental plants of Assam. 32 samples of ornamental plants were collected from three major districts of Assam, viz., Tinsukia, Jorhat and Kamrup. Bacterial growth was confirmed in 18 diseased samples, which were then subjected to pathogenicity test in their respective host crops to satisfy the Koch postulates. Six bacterial isolates, viz., could reproduce the symptoms in their respective hosts, viz.; Ge