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## **CERTIFICATE**

This is to certify that the THESIS entitled "**STUCTURE AND IDEAL THEORY OF DUO  $\Gamma$ -SEMIGROUPS**" submitted by **A. GANGADHARA RAO** to Acharya Nagarjuna University, Nagarjuna Nagar, for the award of the degree of **Doctor of Philosophy in Mathematics** is a bonafide piece of work done by the candidate under my guidance and this work is original and has not been previously formed the basis for the award of any other degree or diploma to him.

Tenali

Date : 21-06-2012.

  
Dr. A. ANJANEYULU  
Research Director