



DEPARTMENT OF ELECTRICAL ENGINEERING  
INDIAN INSTITUTE OF TECHNOLOGY MADRAS, CHENNAI-600036

December 22 - 24, 2011

### CERTIFICATE

This is to certify that S. NANDHA KUMAR participated in the  
**INTERNATIONAL CONFERENCE ON POWER AND ENERGY SYSTEMS (ICPS-2011)**  
held during 22<sup>nd</sup> - 24<sup>th</sup> December 2011 at the Department of Electrical Engineering, IIT Madras, Chennai - 600 036 and  
presented the following paper(s) entitled:

1. *A Novel Out-Of-Step Detection Algorithm Using Angle of Power Signal.*
2. *Detection of Power Quality Disturbances in Presence of DFIG Wind Farm Using Wavelet Transform Based Energy Function.*

CHAIRMAN  
ICPS 2011

CONVENOR  
ICPS 2011