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CERTIFICATE

This is to certify that the thesis entitled “**Natural 1,4-naphthoquinone based New Chemical Entities: Synthesis, Anticancer and Anti-inflammatory Activities**” is a bonafide research work, carried out by **Mr. Varaprasad Chakka** in Natural Products Chemistry Division of CSIR-Indian Institute of Chemical Technology, Hyderabad under my supervision. I further certify that the work is original and has not been presented elsewhere for the award of any degree or diploma in part or full to this or any other University.

Date:

(**Dr. U. V. Mallavadhani**)