

DECLARATION

I hereby declare that the original research work embodied in the thesis entitled **“*Bisnucleophilic Substitution*’ as the synthetic tool for the ready access to some piperidine alkaloids (+)-coniine, (+)- β -conhydrine , (+)-8-ethylnorlobelol and (-)-8-epi-halosaline; Total synthesis of bioactive natural products: (6Z,9S)-3,4-*trans*-9-hydroxy-3-methyldodec-*cis*-6-en-4-olide and (6Z)-3,4-*trans*-9-oxo-3-methyldodec-*cis*-6-en-4-olide γ -butyrolactones; and Passerini multicomponent reactions using Sugar derived chiral isonitriles”** submitted to Acharya Nagarjuna University for the award of degree of Doctor of Philosophy (Ph.D) in chemistry of the faculty of sciences is the outcome of investigation carried out by me under the supervision of **Dr. P.Radhakrishna**, FRSC, FAPAS Chief Scientist, Organic and Biomolecular Chemistry Division, CSIR-Indian Institute of Chemical Technology, Hyderabad. I declare that the work incorporated is original and due acknowledgement has been made wherever it is required. The same has not been submitted elsewhere for any degree or diploma.

I also declare that I myself am solely responsible for the genuineness of the findings/observations pertaining to these studies in order to complete this thesis.

(G. RAJU)