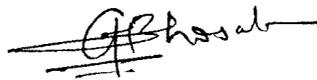


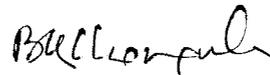
CERTIFICATE

This is to certify that the dissertation entitled "**Preparation and characterization of spray deposited ZnIn₂Se₄ thin films and their use in photoelectrochemical solar cells**" which is being submitted herewith for the award of Degree of Master of Philosophy in Physics of Shivaji University, Kolhapur is the result of original research work completed by **Mr. S. P. YADAV** under my supervision and guidance and to the best of my knowledge and belief the work embodied in this thesis has not formed earlier the basis for the award of any degree or similar title of this or any other University or examining body.



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