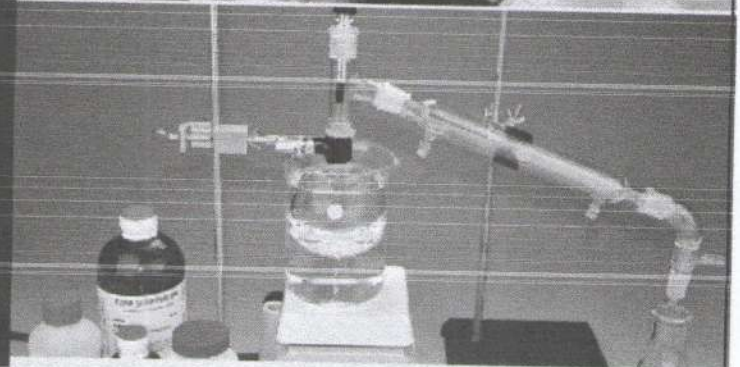
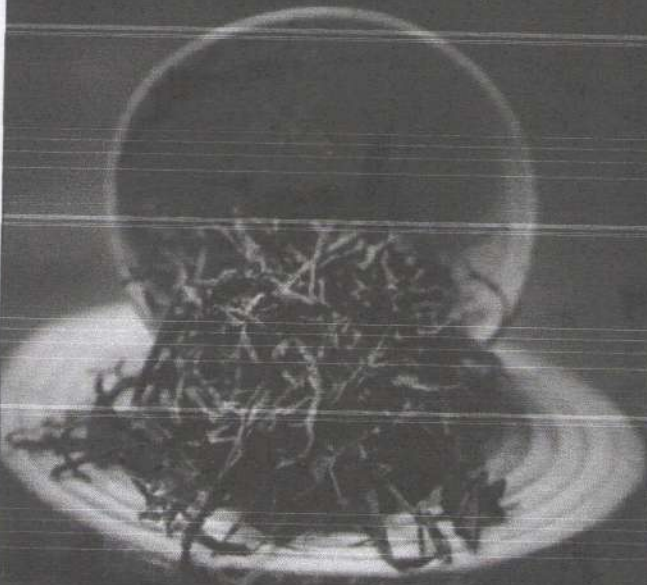


# APPLICATION OF SILVER NANOPARTICLES AS CATALYST IN ESTERIFICATION REACTION



Project report by :-

**GUNJAN HAZARIKA**

**ROLL NO: 16520029**

**REGISTRATION NO: S1744081**




**DEPARTMENT OF CHEMISTRY**  
**TINSUKIA COLLEGE**  
**TINSUKIA, ASSAM (786125)**

**CERTIFICATE**


This is to certify that Gunjan Hazarika has submitted a dissertation entitled **"APPLICATION OF SILVER NANOPARTICLES AS CATALYSTS IN ESTERIFICATION REACTION"** for partial fulfillment of the requirements of 6<sup>th</sup> semester examination (B.Sc) under the guidance of Dr. Ruby Baruah, Department of chemistry, Tinsukia College.

This dissertation is a result of their own investigation. They have fulfilled all the requirements under the degree curriculum of Dibrugarh University. This dissertation or any other part of it has not been submitted to any other college or university for any other degree or diploma.

  
9.11.2020

Mrs. Monika Devi  
HOD of Chemistry  
Tinsukia College

Head  
Department of Chem  
Tinsukia College

  
12/11/2020

Dr. Ruby Baruah  
Assistant Professor  
Tinsukia College

Department of Chemistry  
TINSUKIA COLLEGE  
TINSUKIA