



*A Project Report on*

**SYNTHESIS, CHARACTERIZATION AND  
ASSESSMENT OF ANTIMICROBIAL ACTIVITY OF  
NOVEL CHARGE TRANSFER COMPLEXES OF 3,5-  
DINITROSALICYLIC ACID WITH  
ETHYLENEDIAMINE**

*Submitted by  
MOLOY ROY*

*University Regn. No. – 221892310015 OF 2022-23*

*Roll No. -18920722014*

Under the guidance of

**DR. MANABENDRA DHUA**

Assistant professor, Department of Pharmaceutical Chemistry & Analysis  
Dr. B.C. Roy College of Pharmacy & AHS, Durgapur

In partial fulfilment of the Requirement for the Degree of  
**Master of Pharmacy in Pharmaceutical Analysis**

Submitted to  
**Maulana Abul Kalam Azad University of Technology  
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences  
Durgapur 713206**

**Academic Year: 2023 – 2024**



*Prof. (Dr.) Sumit Kumar Samanta  
M. Pharm., Ph.D (J.U.)  
Principal  
Dr. B. C. Roy College of Pharmacy & AHS  
Durgapur, West Bengal-713206*



## DECLARATION

I am hereby declared that the Project entitled "synthesis, characterization & assessment of antimicrobial activity of novel charge transfer complexes of 3,5-dinitrosalicylic acid with ethylenediamine" in partial fulfilment of the requirement for the award of Master of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Dr. Manabendra Dhua.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Moloy Roy

Signature


Name of Candidate: Moloy Roy

Roll No: 18920722014

Date: 04-Jun-2024

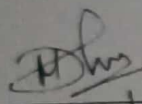
Place: Durgapur - 06



  
Prof. (Dr.) Sumir Kumar Samanta  
M. Pharm., Ph.D (J.U.)  
Principal  
Dr. B. C. Roy College of Pharmacy & AHS  
Durgapur, West Bengal-713206

## CERTIFICATE

This is to certify that the Project entitled "synthesis, characterization & assessment of antimicrobial activity of novel charge transfer complexes of 3,5-dinitrosalicylic acid with ethylenediamine" by Moloj Roy in partial fulfilment for the MASTER OF PHARMACY (PHARMACEUTICAL ANALYSIS) under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his/her thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.


  
04/06/2024

Signature of Guide

Name of Guide: Dr. Manabendra Dhua

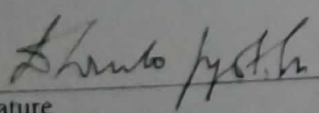
Date: 04 - Jun - 2024

Place: Durgapur - 06

  
PROF (DR.) SAMIR KR. SAMANTA  
(PRINCIPAL) Prof. (Dr.) Samir Kumar Samanta  
M. Pharm., Ph.D (J.U.)  
Principal  
Dr. B. C. Roy College of Pharmacy & AHS  
Durgapur, West Bengal-713206

Date: 04 - Jun - 2024

Place: Durgapur - 06


  
Signature

Name of External Examiner:

Date: 05/06/24

Place: Durgapur - 06



  
Prof. (Dr.) Samir Kumar Samanta  
M. Pharm., Ph.D (J.U.)  
Principal  
Dr. B. C. Roy College of Pharmacy & AHS  
Durgapur, West Bengal-713206