

# CERTIFICATE

DEPARTMENT OF CHEMISTRY

UNIVERSITY OF KALYANI

Guide Name:

Dr. Amit Kumar Kundu

Email of guide:

M.Sc., PhD.

[amitkundu1403@gmail.com](mailto:amitkundu1403@gmail.com)

Assistant Professor in CHEMISTRY



## TO WHOME IT MAY CONCERN

*Certified that Sayantika Das a student of B.Sc. (6th semester) in the department of chemistry of Sripat Singh College, MSD Which is affiliated to University of Kalyani, Kalyani, Nadia has carried out her project work*

**“HPLC-A Mode of Separation of Analyte Mixtures”**

*under my guidance.*

*This work has been done solely by Sayantika Das.*

*I wish her all success in life.*

Date :- 11/08/23

*Amit Kumar Kundu*  
11/08/23  
Dr. Amit Kumar Kundu  
Assistant Professor  
Head of the Department, Chemistry Department  
Sripat Singh College  
Jagani, Murshidabad, West Bengal - 741233  
Assistant professor

DEPARTMENT OF CHEMISTRY  
SRIAPT SINGH COLLEGE

Affiliated to UNIVERSITY OF KALYANI



**CHEMICAL  
SHIFT IMAGING  
(CSI):  
NMR  
SPECTROSCOPY**

**PROJECT SUBMITTED BY  
SUPRIYA DAS**

**ROLL NO: 2116247- 2078072**

**REGNO : 077480 of 2020-20**



**Department of Chemistry  
Sripat Singh College**





*Department of Chemistry*

*Sripat Singh College,  
Jiaganj, Murshidabad, 742123  
Affiliated to University of Kalyani*



**TO WHOM IT MAY CONCERN**

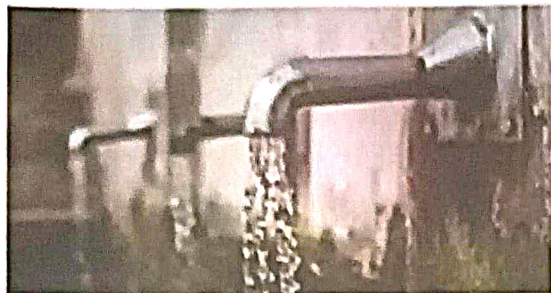
This is to Certified that Supriya Das a student of B.Sc. (6<sup>th</sup> semester) in the Department of Chemistry of Sripat Singh College, Jiaganj, Murshidabad affiliated to University of Kalyani, has carried out his dissertation project work on “**Chemical Shift Imaging(CSI): NMR Spectroscopy**” under my guidance. This work is done solely by Supriya Das.

I wish him all success in life.

*Abu Raihan*

*Abu Raihan  
Faculty, Department of Chemistry  
Sripat Singh College,  
Jiaganj, Murshidabad, WB, 742123*

*Date: 04/08/2023  
Place: Jiaganj*



# *Groundwater Contamination by Arsenic: Current Scenario & its Mitigation Approach*

**A DISSERTATION REPORT SUBMITTED IN FULFILLMENT OF AWARD OF  
THE DEGREE OF BACHELOR OF SCIENCE**

**IN**

**DEPARTMENT OF CHEMISTRY**

**SUBMITTED TO UNIVERSITY OF KALYANI**



**UNDER THE SUPERVISION OF DR. AMIT KUMAR KUNDU**

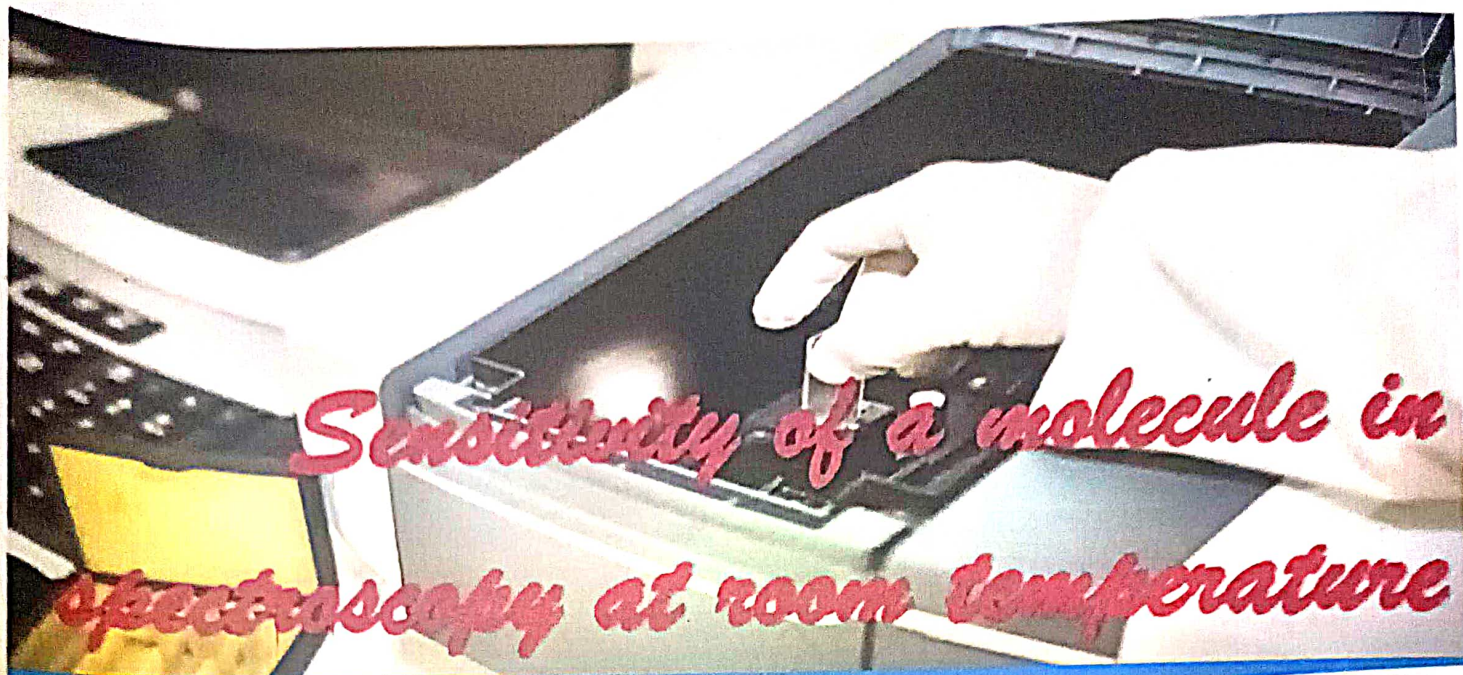


**SUBMITTED BY : - 11/08/2023**

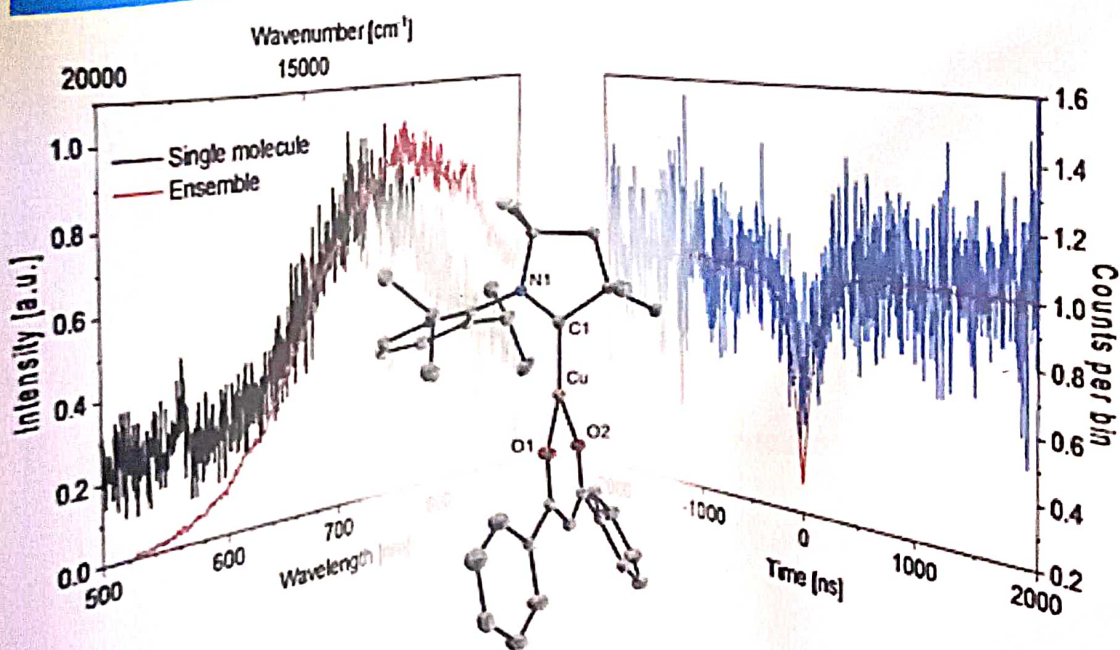
**ROLL : - 2116247 , NO : - 2077967 REG.NO : - 077470 OF 2020-2021**

**DEPARTMENT OF CHEMISTRY SRIPAT SINGH COLLEGE, JIAGANJ, MURSHIDABAD (W.B)**





# *Sensitivity of a molecule in spectroscopy at room temperature*



PROJECT SUBMITTED BY:

**MAHAMMAD AHAD SK.**

**ROLL NO: 2116247- 2077964**

**REGN.NO : 081923 of 2020-2021**



**Department of Chemistry**  
**Sri Prat Singh College**





*Department of Chemistry*

*Sriprat Singh College,*

*Jiaganj, Murshidabad, 742123*

*Affiliated to University of Kalyani*



**TO WHOM IT MAY CONCERN**

This is to Certified that Mahammad Ahad Sk a student of B.Sc. (6<sup>th</sup> semester) in the Department of Chemistry of Sriprat Singh College, Jiaganj, Murshidabad affiliated to University of Kalyani, has carried out his dissertation project work on **“Sensitivity of a molecule in spectroscopy at room temperature”** under my guidance. This work is done solely by Mahammad Ahad Sk.

I wish him all success in life.

*Abu Raihan*

*Abu Raihan*

*Faculty, Department of Chemistry*

*Sriprat Singh College,*

*Jiaganj, Murshidabad, WB, 742123*

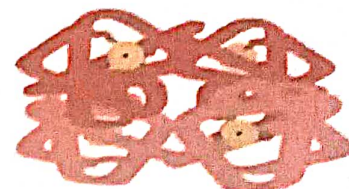
*Date: 04/08/2023.*

*Place: Jiaganj.*

# "HEMOGLOBIN AND MYOGLOBIN STRUCTURE & FUNCTION"



Myoglobin



Hemoglobin

A DISSERTATION REPORT SUBMITTED IN FULFILLMENT OF AWARD  
OF  
THE DEGREE OF BACHALOR OF SCIENCE  
IN  
DEPARTMENT OF CHEMISTRY  
SUBMITTED TO



UNIVERSITY OF KALYANI

UNDER THE SUPERVISION OF DR. MD. HABIB



SUBMITTED BY :- 21/05/2023

ROLL- 2116247 , NO- 2077958 , REG.NO : - 077467 OF: - 2022-2023

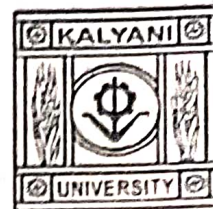
DEPARTMENT OF CHEMISTRY SRIPAT SINGH COLLEGE, JIAGANJ,  
MURSHIDABAD ( W.B)





## *Department of Chemistry*

*Sriprat Singh College,  
Jiaganj, Murshidabad, 742123  
Affiliated to University of Kalyani*



### TO WHOM IT MAY CONCERN

This is to Certified that Joy Ghosh a student of B.Sc. (6<sup>th</sup> semester) in the Department of Chemistry of Sriprat Singh College, Jiaganj, Murshidabad affiliated to University of Kalyani, has carried out his dissertation project work on “**Hemoglobin And Myoglobin Structure and Function**” under my guidance. This work is done solely by Joy Ghosh.

I wish him all success in life.

DATE :-

PLACE :- Jiaganj

MD. HABIB  
Faculty, Department of Chemistry  
Sriprat Singh College,  
Jiaganj, Murshidabad, WB, 742123



# UNIVERSITY OF KALYANI

*SRIPAT SINGH COLLEGE , JIAGANJ*

A project report on

**REVIEW WORK ON [2,3] SIGMATROPIC REARRANGEMENT**

Submitted by

***BHAGYASHREE DAS***

B. Sc ( Honours in Chemistry ) 6<sup>th</sup> Semester

Roll – 2116247 ; No.-2077824 ; Reg. No.- 077452 Of 2020-21

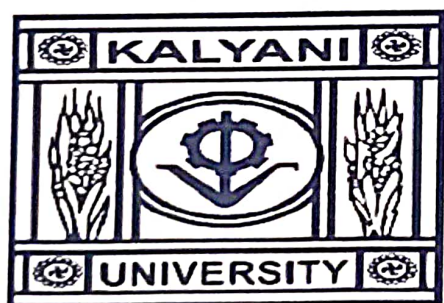
For the course of **CHEM-H-DSE-T-04**

Under the guidance of

Dr . Raja Ghosh

Assistant professor, Department of Chemistry

SRIPAT SINGH COLLEGE , JIAGANJ





**DEPARTMENT OF CHEMISTRY**  
**SRIPAT SINGH COLLEGE,JIAGANJ**  
**CERTIFICATE**

This is to certify that **BHAGYASHREE DAS** , a student of B.Sc. (Honours in Chemistry) 6<sup>th</sup> Semester in the department of Chemistry of SRIPAT SINGH COLLEGE , Jiaganj , has completed his dissertation on REVIEW WORK ON [2,3] SIGMATROPIC REARRANGEMENT under my supervision. This is a result of his independent labour and application of mind. This work has been solely done by Bhagyashree Das .

*Raja Ghosh*

10-08-2023

Date: 11/08/2023

signature of supervisor

✓ *Raja Ghosh*

(Dr . Raja Ghosh)

Assistant Professor

Department of Chemistry

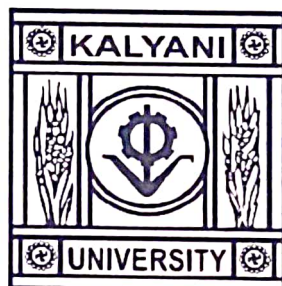
Sripat Singh College, Jiaganj



# AN INSIGHT INTO THE CHEMISTRY OF CEMENT



A DISSERTATION REPORT  
SUBMITTED IN FULFILLMENT OF AWARD OF  
THE DEGREE OF BACHELOR OF SCIENCE  
IN  
CHEMISTRY DEPARTMENT  
SUBMITTED TO



UNIVERSITY OF KALYANI  
UNDER THE SUPERVISION OF – Dr. Amit Kumar Kundu



Submitted by – **Kirti Agarwala**

Roll No – 2116247 2077838 , Reg. No – 077453

DEPARTMENT OF CHEMISTRY, SRIPAT SINGH COLLEGE, MURSHIDABAD (W.B)



# AN INSIGHT INTO THE CHEMISTRY OF CEMENT



A DISSERTATION REPORT  
SUBMITTED IN FULFILLMENT OF AWARD OF  
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IN  
CHEMISTRY DEPARTMENT  
SUBMITTED TO



UNIVERSITY OF KALYANI  
UNDER THE SUPERVISION OF - Dr. Amit Kumar Kundu



Submitted by - Kirti Agarwala

Roll No - 2116247 2077838 , Reg. No - 077453

DEPARTMENT OF CHEMISTRY, SRIPAT SINGH COLLEGE, MURSHIDABAD (W.B)

*Amit Kumar Kundu*  
11/08/23

Dr. Amit Kumar Kundu  
Assistant Professor  
Head of the Department, Chemistry Department  
Sripat Singh College  
Jaganj, Murshidabad, West Bengal-742123