

**CSIR- INDIAN INSTITUTE OF CHEMICAL TECHNOLOGY**

**TARNAKA, HYDERABAD-500 007, INDIA**

**Dr. K. SRINIVAS**  
**Senior Principal Scientist,**  
Fluoro Agrochemicals Division



---

**CERTIFICATE**

**This is to certify that, BAKKI SRIVARSHINI has carried out dissertation work on the project entitled “SYNTHESIS AND BIOLOGICAL EVALUATION OF NOVEL 2-AMINOPYRIMIDINE DERIVATIVES” for the partial fulfillment of award of degree under my supervision during the period of from 1<sup>st</sup> June 2022 to 31<sup>st</sup> August 2022.**

**(Dr. K. SRINIVAS)**

**Research Guide**

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



**CSIR-Indian Institute of Chemical Technology**

(Council of Scientific & Industrial Research)

Tarnaka, Hyderabad-500 007 India



**Dr. PRAVEEN KUMAR REDDY ADIYALA**


*Scientist,*

*Organic Synthesis and Process Chemistry*

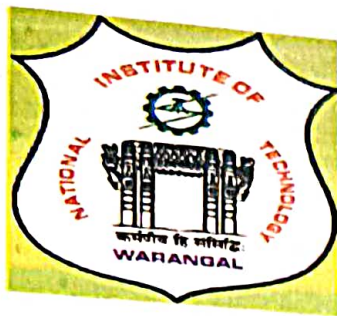
Date: \_\_\_\_\_

**CERTIFICATE**

This is to certify that **Ms. Kanuganti Bhargavi** student of MSc. 5 years integrated Chemistry, Department of Chemistry, Kakatiya University, Warangal, has successfully completed the research project entitled on “**Synthesis of highly Substituted Pyrroles in Regioselective manner with silver catalysis**” for fulfilment of degree under my supervision during the period of 30<sup>th</sup> May 2022 to 30<sup>th</sup> Nov 2022.

  
**Dr. A. Praveen Kumar Reddy Adiyala**  
**Dr. Praveen Kumar Reddy**  
Scientist  
Organic Synthesis & Process Chem. Div.  
CSIR-Indian Institute of Chemical Technology  
Ministry of Science & Technology, Govt. of India.  
Tarnaka, Hyderabad - 500 007, Telangana, India.  
**Supervisor**

Organic Synthesis and Process Chemistry, Email: [praveenreddy@iiict.res.in](mailto:praveenreddy@iiict.res.in)



**NATIONAL INSTITUTE OF  
TECHNOLOGY**

**WARANGAL**

**TELANGANA, INDIA-506004**

**CERTIFICATE**

This is to certify that the project work on "**Preparation of 1,2,3,4-tetrahydroacridine-9- carboxylic acid derivatives by Pfitzinger reaction of isatins with cyclohexanone**" is the bonafide work carried out by **Ms. ARIKANTHAM RAMADEVI, H.T.No: 18000S8003** in Integrated M.Sc. Chemistry under my supervision at Department of Chemistry, National Institute of Technology, Warangal, during the period from 1<sup>st</sup> JUNE 2022 to 6<sup>th</sup> AUGUST 2022.

**Prof. D. Kashinath**

Professor, Dept. of Chemistry

NIT Warangal

Warangal – 506004, Telangana  
प्राध्यापक / Professor

रसायन विभाग / Department of Chemistry  
राष्ट्रीय प्रौद्योगिकी संस्थान, वरंगल - ५०६ ००४ आं.प्र.

National Institute of Technology,

Warangal - 506 004

**Prof. Vishnu shanker**

Head of the Department, Dept of Chemistry

NIT Warangal

Warangal –506004, Telangana  
विभागाध्यक्ष / Professor & Head

रसायन विभाग / Department of Chemistry  
राष्ट्रीय प्रौद्योगिकी संस्थान, वरंगल - ५०६ ००४

National Institute of Technology,

Warangal - 506 004



## CERTIFICATE

This is to certify that the dissertation work carried out by **M. VAISHNAVI [18000S8004]** at, **YAJUSHI CHEMISTRY SOLUTIONS LLP, IDA, Cherlapally, Hyderabad**, is a bonafide research work carried out under my supervision during the period 01.06.2022 to 31.07.2022. The thesis entitled **"SYNTHESIS OF 1,3,4- TRISUBSTITUTED-1H-PYRAZOLE DERIVATIVES"** in partial fulfilment of Master of Science in Chemistry.

DATE:

PLACE: Hyderabad

*Ravinder Reddy*  
[Dr. K. RAVINDER REDDY]  




## CERTIFICATE

This is to certify that the dissertation work carried out by B. SHIRISHA [18000S8005] at Department of Organic Synthesis and Process Chemistry, YAJUSHI CHEMISTRY SOLUTIONS LLP, IDA Cherlapally, Hyderabad is a bonafide research work carried out under my supervision during the period 01.06.2022 to 31.07.2022. The thesis entitled "SYNTHESIS OF 2,2-DISUBSTITUTED 4,5-DIPHENYL-2H-IMIDAZOLE DERIVATIVES" in partial fulfilment of Master of Science in Chemistry.

DATE:

PLACE: Hyderabad

*Ravinder*

(Dr. K. RAVINDER)





NATIONAL INSTITUTE OF TECHNOLOGY

WARANGAL

TELANGANA, INDIA-506004

CERTIFICATE

This is to certify that the project work on *"Metal Free Synthesis of 1,2,3,4- tetrahydroacridine derivatives using 1,3-dimethylurea (DMU) and L-tartaric acid as a Deep Eutectic Solvent"* is the bonafide work carried out by **Ms. TANKASHALA SUKANYA, H.T.No: 18000S8006** in Integrated M.Sc. Chemistry X semester under my supervision at Department of Chemistry, National Institute of Technology, Warangal, during the period from 1<sup>st</sup> JUNE 2022 to 6<sup>th</sup> AUGUST 2022.

Prof. D. Kashinath

Professor, Dept. of Chemistry

NIT Warangal

Warangal – 506004, Telangana.

प्राध्यापक / Professor

रसायन विभाग / Department of Chemistry

राष्ट्रीय प्रौद्योगिकी संस्थान, वरंगल - ५०६ ००४ आं.प्र

National Institute of Technology,

Warangal - 506 004

Prof. Vishnu Shankar

Head of the Department, Dept of chemistry

NIT Warangal

Warangal – 506004, Telangana

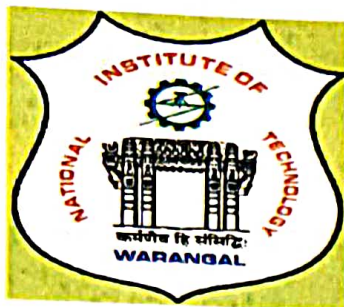
विभागाध्यक्ष / Professor & Head

रसायन विभाग / Department of Chemistry

राष्ट्रीय प्रौद्योगिकी संस्थान, वरंगल - ५०६ ००४

National Institute of Technology,

Warangal - 506 004



NATIONAL INSTITUTE OF TECHNOLOGY  
WARANGAL  
TELANGANA, INDIA-506004

**CERTIFICATE**

*This is to certify that Ms. PRAVALIKA SAVASI (18000S8007), 5Years Integrated M.Sc. Chemistry, Department of Chemistry, Kakatiya University, Hanamkonda, has carried out the dissertation word entitled "**SYNTHESIS OF CuFe<sub>2</sub>O<sub>4</sub> NANO CATALYST AND IT'S ORGANIC APPLICATIONS**" under my supervision in Department of Chemistry, National Institute of Technology, Warangal, during the period from 10<sup>th</sup> JUNE 2022 to 16<sup>th</sup> AGUST 2022.*

*M. Raghavudha*

**Dr. M. Raghavudha**  
(Assistant Professor,  
Department of chemistry,  
NIT Warangal)

सहायक प्राध्यापक / Asst. Professor  
रसायन विभाग / Department of Chemistry  
राष्ट्रीय प्रौद्योगिकी संस्थान, वरंगल - ५०६ ००४ आंध्रप्र.  
National Institute of Technology,  
Warangal - 506 004



**National Institute of Technology Warangal  
Department of Chemistry**

**CERTIFICATE**

This is to certify that **Mr. ULLERAO KISHOR (18000S8008)**, 5 Year Integrated M.Sc. Chemistry, Department of Chemistry, Kakatiya University, Hanumakonda, had carried out the dissertation work entitled "**Synthesis and Characterization of (NiZn)Co<sub>2</sub>O<sub>4</sub> and (NiCu)Co<sub>2</sub>O<sub>4</sub> Materials for Direct Methanol Fuel Cell**" under my guidance at Department of Chemistry, National Institute of Technology Warangal during the period from 1<sup>st</sup> June 2022 to 6<sup>th</sup> August 2022.

**Dr. G. Rajeshkhanna**  
Assistant Professor  
Department of Chemistry  
NIT Warangal





---

**CERTIFICATE**

This is to certify that **Mr. MAMIDI SANJAY KUMAR**, (18000S8009), 5Years Integrated M.Sc. Chemistry, Department of Chemistry, Kakatiya University, Hanamkonda, has carried out the dissertation work entitled "**DETERMINATION AND METHOD DEVELOPMENT OF ATORVASTATIN BY HPLC**" under my guidance and supervision in HETERO LABS Pvt Ltd, Jeedimetla, Hyderabad, during the period from 1<sup>st</sup> JUNE 2022 to 30<sup>th</sup> JULY



G RAMA KRISHNA

(Head of Department, Analytical R&D)

---

Plot No 14, Sy No: 50, Phase III, IDA Jeedimetla  
Hyderabad-500055

## Certificate

This is certify that the dissertation work carried out by **B.VENKATA NARASAMMA** (18000S8010) at INNOSYN LIFE SCIENCES Pvt Ltd, Cherlapallym Hyderabad is a bonafide research work carried out under my supervision during the period 01.06.2022 to 31.07.2022. The thesis entitled **"TOTAL SYNTHESIS OF HYDROXY - FLUMAZENIL"** in partial fulfillment of Master of Science in Chemistry.

DATE:

PLACE: Hyderabad



*A. Ramesh Babu*  
(A.RAMESH BABU)

DECLARATION

**CERTIFICATE**

This is to certify that Ms. **KODARI MOUNIKA**, (18000S8011), 5Years Integrated M.Sc. Chemistry, Department of Chemistry, Kakatiya University, Hanamkonda, has carried out the dissertation work entitled "**SUMMARY OF METHOD DEVELOPMENT REPORT FOR THE DETERMINATION OF RELATED COMPOUNDS IN PERAMPANEL(PMP) BY HPLC**" under my guidance and supervision in Kemiezen Life Sciences Pvt Ltd. Hyderabad, during the period from 1<sup>st</sup> June 2022 to 30<sup>th</sup> July 2022.



**Dr. P. SATYANARAYANA**

**Managing Director**

**Kemiezen**

**IDA Kukatpally,  
Hyderabad - 500072.**

**Info@kemizeen.com**

Plot No.89, H.No.5-9-286/2/89, Rajiv Gandhinagar,




**HETERO LABS LTD**

Suraram, IDA Jeedimetla, Hyderabad,500055

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**CERTIFICATE**

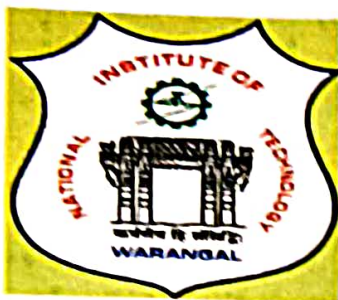
This is to certify that *Mr, DONGRI RAJENDAR (18000S8012)*,5Years Integrated M.Sc. Chemistry, Department of Chemistry, Kakatiya University, Hanamkonda, has carried out the dissertation work entitled **“SUMMARY OF METHOD DEVELOPMENT REPORT FOR THE DETERMINATION OF RELATED COMPOUNDS IN APIXABAN(APB) BY HPLC”** under my guidance and supervision in *HETERO LABS Pvt Ltd, Jeedimetla*, Hyderabad, during the period from **6<sup>th</sup>June 2022** to **7<sup>th</sup> Aug 2022**.

  
**(G. RAMAKRISHNA)**  
Head  
Analytical R&D

---

Suraram, IDA Jeedimetla, Hyderabad,500055

---



NATIONAL INSTITUTE OF TECHNOLOGY  
WARANGAL  
TELANGANA, INDIA-506004

**CERTIFICATE**

This is to certify that **Ms. MOUNIKA BINGI** (18000S8013), 5Years Integrated M.Sc. Chemistry, Department of Chemistry, Kakatiya University, Hanamkonda, has carried out the dissertation word entitled "**SYNTHESIS OF Fe<sub>3</sub>O<sub>4</sub>@CS-Ag NANO CATALYST AND IT'S APPLICATION IN ONE POT THREE-COMPONENT COUPLING REACTION**" under my supervision in Department of Chemistry, National Institute of Technology, Warangal, during the period from 10<sup>th</sup> JUNE 2022 to 16<sup>th</sup> AGUST 2022.

*M. Raghasudha*

**Dr. M. Raghasudha**  
(Assistant Professor,  
Department of chemistry,  
NIT Warangal)

रहायक प्राध्यापक / Asst. Professor  
रसायन विभाग / Department of Chemistry  
राष्ट्रीय प्रौद्योगिकी संस्थान, वरंगल - ५०६ ००४ आ.प्र.  
National Institute of Technology,  
Warangal - 506 004



**CSIR-Indian Institute of Chemical Technology**

(Council of Scientific & Industrial Research)

Tarnaka, Hyderabad-500 007India



**Dr.KAKI SHIVA SHANKER**

*Senior Scientist,*

*Centre for Lipid Science and Technology Division*

---

Date: \_\_\_\_\_

**CERTIFICATE**

This is to certify that **Mr.ThatikondaVinay** student of 5year integrated M.Sc. Chemistry of Department of Chemistry, Kakatiya University, Warangal, has successfully completed the research project entitled **SYNTHESIS AND CHARACTERIZATION OF NOVEL FATTY ACID DERIVATIVES** for fulfilment of degree under my supervision during the period of 30<sup>th</sup> May 2022 to 30<sup>th</sup> Nov 2022.

Place:

**Dr.Kaki Shiva Shanker**  
**Supervisor**

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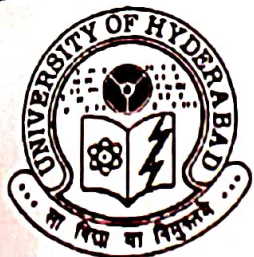
**National Institute of Technology Warangal**  
**Department of Chemistry**

**CERTIFICATE**

This is to certify that **Mr. PERAM SRINADH**, (18000S8016), 5 Year Integrated M.Sc. Chemistry, Department of Chemistry, Kakatiya University, Hanamkonda, has carried out the dissertation work entitled “**Design and Synthesis of Antioxidant Conjugated Terpyridyl Metal Complexes**” under my guidance at Department of Chemistry, National Institute of Technology Warangal during the period from 1<sup>st</sup> June 2022 to 6<sup>th</sup> August 2022.

**Dr. Jugun Prakash Chinta**  
**Assistant Professor**  
**Department of Chemistry**  
**NITW**

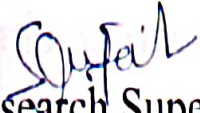
सहायक प्राध्यापक / Asst. Professor  
रसायन विभाग / Department of Chemistry  
राष्ट्रीय प्रौद्योगिकी संस्थान, वरंगल - ५०६ ००४ आ.प्र  
National Institute of Technology,  
Warangal - 506 004



**UGC Networking Resource Centre  
School of Chemistry, University of Hyderabad  
Hyderabad 500 046, INDIA**

**CERTIFICATE**

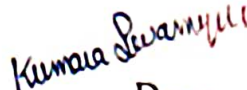
The above statement is verified and it is certified that Mr. **BANOTH RAHUL** has carried out a Project in the laboratory of Prof. **SRINIVASA RAO YARAGORLA**, School of Chemistry, University of Hyderabad, supported by the UGC Networking Resource Centre, during the period **05-05-2021 to 25-06-2021.**

  
**Research Supervisor**

**Dr. Srinivasarao Yaragorla**  
Associate Professor  
School of Chemistry  
University of Hyderabad  
Hyderabad-500 046, India  
**Faculty Supervisor**

  
**Coordinator**

Coordinator  
UGC Networking Resource Centre  
School of Chemistry  
University of Hyderabad  
Hyderabad-500046, Telangana.  
**Coordinator, UGC-NRC**

  
**Dean**

Dean  
School of Chemistry  
University of Hyderabad  
Hyderabad-500046, Telangana.  
**Dean, School of Chemistry**





**CERTIFICATE**

This is to certify that project report entitled **“TOTAL SYNTHESIS OF O-DESMETHYLSTEMIZOLE”** submitted to **KAKATIYA UNIVERSITY** for the degree award of **5 YEARS INTEGRATED M.Sc CHEMISTRY**, is a bonafide record of the work carried out by **G.MANASA [18000S8019]** during the period 01.06.2022 to 31.07.2022 under the supervision of **E.Lingamurthy**, Principal Scientist, **INNOSYN LIFE SCIENCES Pvt Ltd**, Cherlapally, Hyderabad.

*File's*  
23/09/2022

**HOD**  
Department of Chemistry,  
KAKATIYA UNIVERSITY,  
WARANGAL

*Prof. G. Brahmashwari*  
**HEAD, Dept. of Chemistry**  
Kakatiya University  
Warangal-506009.

*Sumit*  
Chairman, Board of Studies  
Dept. of Chemistry  
KAKATIYA UNIVERSITY  
Warangal-506 009 (T.S.) India

*spaw*

**EXTERNAL EXAMINER**

*SA*

**INTERNAL EXAMINER**



NATIONAL INSTITUTE OF TECHNOLOGY

WARANGAL

TELANGANA, INDIA-506004

**CERTIFICATE**

This is to certify that the project work on "*Preparation of quinoline derivatives via Friedlander annulation*" is the bonafide work carried out by Ms. GATTU ROJA, H.T.No: 18000S8020 in Integrated M.Sc. Chemistry under my supervision at Department of Chemistry, National Institute of Technology, Warangal, during the period from 1<sup>st</sup> JUNE 2022 to 6<sup>th</sup> AUGUST 2022.

**Prof. D. Kashinath**

Professor, Dept. of Chemistry

NIT Warangal

Warangal - 506004, Telangana.

प्राध्यापक / Professor

रसायन विभाग / Department of Chemistry

राष्ट्रीय प्रौद्योगिकी संस्थान, वरंगल - ५०६ ००४ आं.प्र

National Institute of Technology,

Warangal - 506 004

**Prof. Vishnu Shankar**

Head of the Department, Dept of chemistry

NIT Warangal

Warangal - 506004, Telangana.

विभागाध्यक्ष / Professor & Head

रसायन विभाग / Department of Chemistry

राष्ट्रीय प्रौद्योगिकी संस्थान, वरंगल - ५०६ ००४

National Institute of Technology,

Warangal - 506 004



**CSIR-Indian Institute of Chemical Technology**  
(Council of Scientific & Industrial Research)  
Tarnaka, Hyderabad-500 007 India




**Dr. SAIBAL DAS**  
PRINCIPAL SCIENTIST,  
*Organic Synthesis and Process Chemistry*

Date: 22.9.2022

**CERTIFICATE**

This is to certify that **Ms. GONTLA DEEPIKA** student of MSc. 5 years integrated Course in Chemistry, Department of Chemistry in KAKATIYA UNIVERSITY, WARANGAL, has successfully completed the research project entitled “**SYNTHESIS OF VARIOUS N-SUBSTITUTED MALEIMIDES AND THEIR APPLICATIONS**” for fulfilment of degree under my supervision during the period of 01<sup>st</sup> JUNE 2022 to 31<sup>st</sup> AUGUST 2022.

  
**Dr. SAIBAL DAS**  
(Supervisor)




**INDIAN INSTITUTE OF CHEMICAL  
TECHNOLOGY**  
TARNAKA, HYDERABAD-500 007, INDIA.  
(COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH)



## CERTIFICATE

This is to certify that dissertation work entitled “LIPASE-CATALYZED SYNTHESIS OF GLUCOSE-LAURIC ACID ESTERS IN DIFFERENT SOLVENTS” is a bonafide work done by DEVASANI AMRUTH 5<sup>TH</sup> year of Integrated M.Sc. Chemistry. The report is submitted to KAKATIYA UNIVERSITY, WARANGAL, towards the completion of 5 years Integrated M.Sc. chemistry under my supervision. The work embodied in this dissertation is output from CSIR-IICT and is the strictly confidential and sole property of CSIR-IICT. This work presented in this thesis should not be published/used in part or full or patented without the prior permission of the Director, CSIR-IICT.

  
13/09/2022  
**Dr. Ram Chandra Reddy Jala**  
Senior Scientist

Place: Hyderabad

Date: 13/09/2022



**NATIONAL INSTITUTE TECHNOLOGY WARANGAL  
DEPARTMENT OF CHEMISTRY**

**CERTIFICATE**

*This is to certify that **Ms. YALAGANDULA THRIVENI**, (18000S8023), 5 Year Integrated M.Sc. Chemistry, Department of Chemistry, Kakatiya University, Hanamkonda, has carried out the dissertation word entitled "**SOLUTION PHASE PEPTIDE SYNTHESIS OF PROTECTED DIPEPTIDES**" under my guidance and supervision in NATIONAL INSTITUTE OF TECHNOLOGY, WARANGAL, during the period from 1<sup>st</sup> JUNE 2022 to 6<sup>th</sup> August 2022.*

  
**Dr. JUGUN PRAKASH CHINTA**

*Assistant Professor*

*Department of Chemistry*

*National Institute of Technology*


*Warangal*


सहायक प्राध्यापक / Asst. Professor  
रसायन विभाग / Department of Chemistry  
राष्ट्रीय प्रौद्योगिकी संस्थान, वरंगल - ५०६ ००४ ऑ.प्र  
National Institute of Technology,  
Warangal - 506 004



## CERTIFICATE

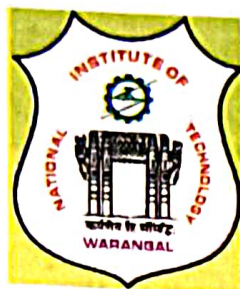
This is to certify that **Mr. GUNDALA SRIKANTH, (18000S8024)**,  
5 Years Integrated M.Sc. Chemistry, Department of Chemistry, Kakatiya  
University, Warangal, has carried out the dissertation work entitled "**Method  
Development of Azelnidipine tablets by using HPLC**" under my  
guidance and supervision in the Hetero labs Pvt. Ltd, Hyderabad, during the  
period from 1<sup>st</sup> June, 2022 to 31<sup>st</sup> July, 2022.

  
(G. Rama Krishna)  
(HOD of Analytical R&D)



---

Plot No.14, Sy No.50, Phase III,IDA Jeedimetla,Hyderabad



**NATIONAL INSTITUTE OF TECHNOLOGY**

**WARANGAL**

**(MoE, Govt. of India)**

**Warangal, Telangana, India-506004**

## **Certificate**

This is to certify that the project work on report entitled **“SYNTHESIS OF 2-OXINDOLES FROM 3,3-DICHLOROOXINDOLES BY THIOUREA DIOXIDE”** is based on the bonafide work done by **Ms. RALLABANDI SHIVANI (H.T.No. 18000S8025)** in **5-YEARS INTEGRATED M.Sc CHEMISTRY** (Kakatiya university) under my guidance in the Department of Chemistry, National Institute of Technology, Warangal, during the period from 1<sup>st</sup> JUNE 2022 to 10<sup>th</sup> AUGUST 2022.

**Dr. K. HARI PRASAD**

Associate Professor

Department of Chemistry

NIT Warangal-506004

सह-प्राध्यापक / Associate Professor  
रसायन विभाग / Department of Chemistry  
राष्ट्रीय प्रौद्योगिकी संस्थान, वरंगल - ५०६ ००४ अ.प्र.  
National Institute of Technology,  
Warangal - 506 004 A.P



National Institute of Technology Warangal  
Department of Chemistry

CERTIFICATE

This is to certify that **Mr.DANDU KALEBU**, (18000S8026), 5 Year Integrated M.Sc. Chemistry, Department of Chemistry, Kakatiya University, Warangal, has carried out the dissertation work entitled "**Synthesis and Characterization of (NiZn)Co<sub>2</sub>S<sub>4</sub> and (NiCu)Co<sub>2</sub>S<sub>4</sub> For Supercapactiors Applications**" under my guidance at Department of Chemistry, National Institute of Technology Warangal during the period from 10<sup>th</sup> June 2022 to 16<sup>th</sup> August 2022.

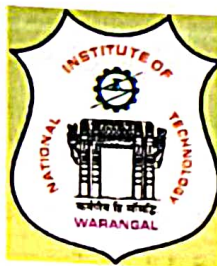
Dr. Rajeshkhanna Gaddam

Assistant Professor

Department of Chemistry

NIT Warangal





**NATIONAL INSTITUTE OF TECHNOLOGY**

**WARANGAL**

Warangal, Telangana, India-506004

## **Certificate**

This is to certify that the project work on report entitled **“Multi-chromophore Functionalized Aza-Borondipyrromethenes for Light Energy Harvesting Application”** is based on the bonafide work done by **Ms. VARAKA AKANKSHA (H.T. No. 18000S8027)** in Integrated M.Sc. chemistry (Kakatiya university) under my guidance in the Department of Chemistry, National Institute of Technology, Warangal, during the period from 10-06-2022 to 16-08-2022.

**Dr. Raghu Chitta**

Associate Professor

Dept of Chemistry

NIT Warangal-506004

Telangana.

सह-प्राध्यापक / Associate Professor  
रसायन विभाग / Department of Chemistry  
राष्ट्रीय प्रौद्योगिकी संस्थान, वरंगल - ५०६ ००४ अ.प्र.  
National Institute of Technology,  
Warangal - 506 004 A.P



## CERTIFICATE

This is to certify that Ms. **BHUKYA SHAILAJA**, (18000S8028), 5Years Integrated M.Sc. Chemistry, Department of Chemistry, Kakatiya University, Hanmkonda, has carried out the dissertation work entitled "**DETERMINATION OF RELATED SUBSTANCES OF RIVAROXABAN BY HPLC**" under my guidance and supervision in Kemiezen Life Sciences Pvt. Ltd Hyderabad, during the period from 1<sup>st</sup> JUNE 2022 to 30<sup>th</sup> JULY 2022.

**Dr. P. SATYANARAYANA**  
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**Polaris Analytical Testing  
Laboratory**

## **CERTIFICATE**

This is to certify that Mr. **VELPULA VENKATESWARA RAO (HT. No: 18000S8029)** Integrated M Sc Chemistry, Department of Chemistry, Kakatiya University, Warangal, has carried out the dissertation work entitled "**METHOD DEVELOPMENT AND REPORT FOR REFLUXACIN HCL BY REVERSE PHASE HIGH PERFORMANCE LIQUID CHROMATOGRAPHY**" under my guidance and supervision in **POLARIS ANALYTICAL AND TESTING LABOARATORY PVT LTD**, Hyderabad. During the period from 5<sup>th</sup> June 2022 to 7<sup>th</sup> August 2022 .



**Department of Research and Development**



## CERTIFICATE

This is to certify that the dissertation work carried out by **B. THIRISHA [18000S8030]** at Yajushi Chemistry Solutions LLP, Cherlapally, Hyderabad is a bonafide research work carried out under my supervision during the period 01.06.2022 to 30.07.2022. The thesis entitled "**SYNTHESIS OF HALOSUBSTITUTED PHENYL HYDRAZINES**" in partial fulfilment of Master of Science in Chemistry.

DATE:

PLACE: Hyderabad

*Ravinder Reddy*  
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