

Bijender

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EDUCATION

Master of Science in Chemistry

Indian Institute of Technology Madras, Chennai.
CGPA: **6.92/10**

July 2020

Dissertation Titled: “**Synthesis of a β -monobromo-meso-tetraphenylporphyrin.**”

Advisor: **Prof. P Bhyrappa**

Bachelor of Science in Chemistry

ARSD college, University of Delhi, New Delhi.
Percentage: **65.04%**

May 2017

HBSE (Haryana Board of Secondary Education)

Government Senior Secondary School, Ateli Mandi.
Percentage: **78.6%**

March 2014

RESEARCH EXPERIENCE

Master's Project

Department of Chemistry, IIT Madras.

Advisor: **Prof. P Bhyrappa.**

July 2019 – June 2020

- Synthesis and characterization of **tetraphenylporphyrin** (H₂TPP)
- Synthesis and characterization of **β -monobromo-meso-tetraphenylporphyrin** (H₂TPPBr)
- Synthesis and characterization of cross coupling reaction with of **β -monobromo-meso-tetraphenylporphyrin** (H₂TPPBr)
- Study of red shifted UV Spectra due to extended π -conjugation

TOPIC OF INTERESTS

- Polymer Chemistry
- Organic Synthesis
- Natural Products Chemistry
- Bioinorganic Chemistry
- Retrosynthesis

ACADEMIC ACHIEVEMENTS

- Qualified and Secured All India Rank **155** in **Joint Admission Test For M.Sc (JAM) (2018)**.
- Qualified the CSIR NET DEC 2018 (Rank **48**), DEC 2019 (Rank **64**).

SKILLS

Programming language and Mathematical packages:
MATLAB, FORTRAN.

Software and other Skills:

ChemDraw, Origin, M.S Office, Bruker's TOPSPIN, Molecular Docking, Spartan, Linux (Ubuntu), Windows OS.

Analytical and Instrumental Skills:

NMR Spectrometer- 500 MHz (Bruker Avance III), Fluorimeter, IR Spectrometer, UV-Vis Spectrometer, Cyclic Voltammeter, Mass Spectrometer, Chromatography (Paper, Column, HPLC, GC), Gravimetry, Electrogravimetry, Tirtrimetry.

Language Skill:

English, Hindi, Punjabi.

UNIVERSITY SERVICE

Class Representative, M.Sc. Chemistry **2018-2020**

- Responsible for voicing the opinion of a class of 54 students.
- Solving the administrative issues of the class.

Volunteered for Saarang'20 -Madras Memoirs, the IIT Madras Cultural Fest. **Jan-2020**

Volunteered for Saarang'19 -The lost cities, the IIT Madras Cultural Fest. **Jan-2019**

REFERENCES

- **P Bhyrappa**, Professor of Chemistry,
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Indian Institute of Madras, Chennai.
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- **Indrapal Singh Aidhen**, Professor of Chemistry and Former Head,
Department of Chemistry,
Indian Institute of Madras, Chennai.
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