

# CONTENTS

	Page
1. CHAPTER - I (THEORETICAL APPROACH) :	01-17
1. General	01
2. 1.3 Dipolar Cycloaddition	12
2. CHAPTER - II (CHEMISTRY OF NITRONE) :	18-57
1. Introduction	18
2. Nomenclature	18
3. Geometrical Isomerism	18
4. Synthesis of Nitrones	19
5. Reactions of Nitrones	27
3. CHAPTER - III (EXPERIMENTAL)	58-83
A. Preparation of N- cyclohexyl hydroxyl amine	58
B. Preparation of Chloro-hydrin	59
C. Preparation of N- cyclohexyl chloro nitrone	60
D. Reaction of Nitronone with :	
1. N-phenyl-maleimide	60
2. N-cyclohexyl-maleimide	61
3. Acrylonitrile	62
4. Styrene	63
5. Methyl Acrylate	64
6. Ethyl Acrylate	65
7. Chloro-Acrylo nitrile	66
8. Methyl Vinyl Ketone	67
9. Dimethyl Acetylene dicarboxylate	68
10. Phenyl methyl propiolate	69
Preparation of N-cyclohexyl 5-hydroxy Nitronone	70
Reactions of Nitronone with :	
1. Cyclohexene	71
2. N-phenyl maleimide	72
3. Dihydro pyran	73
4. N-cyclohexyl maleimide	74
5. Ethyl Acrylate	75
6. Methyl Acrylate	76
7. Methyl Vinyl Ketone	77
8. p-benzoquinone	78
9. Styrene	79
10. Tetra-chloro ethylene	80
11. Trichloro ethylene	81
12. Acrylo nitrile	82

4. CHAPTER - IV (RESULTS & DISCUSSION):	84-115
A. General Discussion	84
B. Interpretation of Mass Spectra	94
C. Interpretation of PMR Spectra	111
5. SCOPE & OBJECTIVE :	116-117
6. REFERENCES :	118-129
7. Published Paper entitled "1,3 Dipolar cycloaddition reactions of N- cyclohexyl nitrono."	
8. Paper on N- cyclohexyl chloro nitrono has been communicated in Indian Journal of Chemistry.	