

CONTENTS

	Page
I. INTRODUCTION.....	1
II. REIVEW OF LITRATURE	5
1. YIELD-RELATED TRAITS	5
1.1. <i>Response of genotypes to salt stress</i>	5
2. MOLECULAR ANALYSIS.....	13
III. MATERIALS AND METHODS	42
1. MATERIALS.....	42
2. METHODS.....	42
2.1. <i>Field experiment</i>	42
2.2. <i>Main experiment</i>	42
2.3. <i>Statistical analysis</i>	43
2.4. <i>Molecular genetics studies</i>	44
2.4.1. DNA extraction	44
2.4.2. RAPD-PCR Conditions	45
2.4.3. SSR Conditions	47
IV. RESULTS AND DISCUSSION.....	50
1. FIELD EXPERIMENT	50
2. MAIN EXPERIMENT	50
3. MOLECULAR MARKERS FOR SALINITY TOLERANCE VIA BULKED SEGREGANT ANALYSIS (BSA).....	61
3.1. <i>RAPD Molecular markers</i>	61
3.2. <i>SSR Molecular markers</i>	63
V. SUMMARY	67
VI. REFERENCES	69
ARABIC SUMMARY.....	