

## TABLE OF CONTENTS

ACKNOWLEDGEMENTS .....	III
ABBREVIATIONS .....	V
LIST OF TABLES.....	IX
LIST OF FIGURES.....	X
<b>1 INTRODUCTION.....</b>	<b>1</b>
1.1 MOTIVATION FOR THE STUDY .....	1
1.2 RESEARCH OBJECTIVES .....	8
1.3 ORGANIZATION OF THE DISSERTATION .....	9
<b>2 BACKGROUND OF ANALYSIS, SAMPLING METHODS, AND DESCRIPTION OF SAMPLED COMMUNITIES AND HOUSEHOLDS .....</b>	<b>10</b>
2.1 FOUR LEVELS OF INSTITUTIONAL ANALYSIS.....	10
2.2 SAMPLING METHODS AND DATA COLLECTION.....	13
2.3 DESCRIPTION OF SAMPLED JFM COMMUNITIES AND HOUSEHOLDS .....	17
<b>3 THE INSTITUTIONAL ENVIRONMENT FOR FOREST MANAGEMENT IN INDIA AND ANDHRA PRADESH (THE FORMAL RULES OF THE GAME) .....</b>	<b>21</b>
3.1 INTRODUCTION .....	21
3.2 FROM STATE MANAGEMENT TO CO-MANAGEMENT: CHANGE OF FOREST POLICY IN INDIA.....	22
3.3 THE EVOLUTION OF THE CO-MANAGEMENT SYSTEM IN ANDHRA PRADESH .....	25
3.3.1 <i>The rise of JFM program in Andhra Pradesh</i> .....	25
3.3.2 <i>Changes in government orders (GOs) and JFM institutions</i> .....	29
3.3.3 <i>Rights and Responsibilities of FPCs</i> .....	30
3.3.4 <i>From co-management (JFM) to community forest management (CFM)</i> .....	31
3.3.5 <i>The role and selection of NGOs</i> .....	34
3.4 DEGREE OF PROPERTY RIGHTS TRANSFER .....	35
3.4.1 <i>Withdrawal rights</i> .....	36
3.4.2 <i>Management rights</i> .....	37
3.4.3 <i>Exclusion rights</i> .....	39
3.4.4 <i>Alienation rights</i> .....	39
3.5 SUMMARY.....	40
<b>4 GOVERNANCE OF CONTRACTUAL RELATIONS BETWEEN THE FOREST DEPARTMENT AND JFM COMMUNITIES (PLAY OF THE GAME) .....</b>	<b>42</b>
4.1 INTRODUCTION .....	42
4.2 RULE SETTING .....	43
4.3 ENFORCEMENT OF RULES .....	44
4.4 PROBLEMS OF ASYMMETRIC INFORMATION AND RENT-SEEKING .....	46
4.5 DETERMINANTS OF PERFORMANCE OF FOREST PROTECTION COMMITTEES .....	48
4.5.1 <i>Determinants of collective action: A literature review</i> .....	49
4.5.2 <i>Conceptual Framework</i> .....	56
4.5.3 <i>Econometric model specification</i> .....	58
4.5.4 <i>Data and variable descriptions and hypotheses</i> .....	61
4.5.5 <i>Results and Discussion</i> .....	67
4.5.6 <i>Institutional outcomes and JFM</i> .....	71
4.5.6.1 <i>Intermediate effects of JFM Institution on forest outcomes</i> .....	71
4.5.6.2 <i>Determinants of institutional outcomes of JFM</i> .....	73
4.6 SUMMARY.....	79

<b>5</b>	<b>HOUSEHOLD LEVEL ANALYSIS OF JFM INSTITUTIONS.....</b>	<b>82</b>
5.1	INTRODUCTION .....	82
5.2	DETERMINANTS OF HOUSEHOLD PARTICIPATION IN JFM .....	82
5.2.1	<i>Conceptual Framework and model for analyzing household participation in JFM</i> .....	87
5.2.2	<i>Data and variable description and hypotheses</i> .....	93
5.2.3	<i>Results and discussion</i> .....	102
5.3	HOUSEHOLD USE OF JFM FORESTS .....	110
5.3.1	<i>Pattern of forest use for firewood collection</i> .....	111
5.3.2	<i>Pattern of forest use for grazing</i> .....	112
5.4	SUMMARY.....	114
<b>6</b>	<b>CONCLUSIONS AND POLICY IMPLICATIONS .....</b>	<b>118</b>
6.1	SUMMARY.....	118
6.2	CONCLUSIONS AND POLICY IMPLICATIONS .....	120
	<b>APPENDICES .....</b>	<b>129</b>
	APPENDIX A .....	129
	APPENDIX B.....	129
	APPENDIX C.....	131
	APPENDIX D .....	132
	APPENDIX E.....	133
	<b>REFERENCES .....</b>	<b>136</b>