Contents

Foreword by William R. Polk ix Preface xv

1. Prelude: Dream and Reality 1

Paradise Lost: The Countryside 1 Mud Brick: Sole Hope for Rural Reconstruction 4 Mud for Roofing, Bahtim: Trial and Error 5 Nubia: Survival of an Ancient Technique of Vaulting 6 The Nubian Masons at Work: First Successes 8 Ezbet el Basry: Iblis in Ambush 12 A Tomb Robbery Begets a Pilot Housing Project 14 Birth of New Gourna: The Site 17

2. Chorale: Man, Society, and Technology 19

Architectural Character 19 The Process of Decision Making 21 Tradition's Role 24 Saving Individuality in the Village 27 Traditional Village Crafts Restored 35 The Use of Mud Brick an Economic Necessity 37 Reestablishment of the "Trinity": Owner, Architect, and Craftsman 39 Vernacular Architecture of Old Gourna 41 Change with Constancy 43 Climate and Architecture 45 Orientation of Houses Determined Partly by Sun, Partly by Wind 48 The Malkaf, or Wind Catch 49 Society and Architecture 50 Kinship Structure and Local Custom 54 A manufic all a fire and a strain of the Socioeconomic Considerations 59

vi Contents

Rural Crafts in Gourna 62 The Plan of New Gourna 69 Public Service Buildings and Amenities 73 The Peasant House 91 Combating Bilharzia 104 Gourna, A Pilot Project 113 The Cooperative System 119 In-Service Training 121 Gourna Not an End in Itself 127 A Stillborn Experiment, Mit-el-Nasara 130 National Program for Rural Reconstruction 134

3. Fugue: Architect, Peasant, and Bureaucrat 149

First Season: 1945–46 150 Second Season: 1946–47 163 Third Season: 1947–48 171

4. Finale: Gourna Dormant 183

An Architect in Search of a Patron 183 Slander Continues 187 Gourna Revisited 192 Gourna in Nabaroh 193

Appendix I: Cost Analysis of Labor and Rates of the Execution of Works 197

Cost Analysis of Materials and Labor Used in Gourna Village 198 Cost of Stone 201 Sand 205 Construction 205

Appendix II: In-Service Training 214

Appendix III: Organization of Work 216

Appendix IV: Foundations 221

vii Contents

Appendix V: Brick Making 224

Extract from Colonel Debes's Experiments 225 Extract from Dr. Mustapha Yehya's Experiments 226

Appendix VI: Cost Analysis at the Moment when the Project Was Handed Over to the Ministry of Social Affairs 231

Glossary 232

Illustrations following page 233