

CONTENTS

1,4-BUTANEDIOL PROJECT

	<u>Page</u>
PREFACE	(i)
GLOSSARY	(ii)
SUMMARY	(iii)
1. THE PROJECT CONCEPT	1
1.1 The Basic Concept	1
1.2 Expansion of the Basic Concept	2
1.3 Environmental Aspects.....	2
2. THE PRODUCT.....	3
2.1 Definition and Specifications	3
2.2 Applications	3
3. THE JUSTIFICATION OF THE PROJECT.....	5
4. THE MARKET DIMENSIONS	7
4.1 The Market Size and Project Parameters.....	7
4.2 Market Prices.....	11
4.3 Competition.....	12
5. THE TECHNOLOGY & PRODUCTION PROCESS.....	13
5.1 The Technology	13
5.2 The Production Process.....	14
5.3 The Technology Source.....	19
6. THE PRODUCTION REQUIREMENTS	21
6.1 Raw Materials & Consumables	21
6.2 Utilities	22
6.3 Manpower.....	23
7. INVESTMENT COSTS	24
7.1 Summary	24
7.2 Total Fixed Investment Costs	25
7.3 Pre-production Costs	26
7.4 Working Capital	27
8. PROJECT PROFITABILITY	28
8.1 Overview	28
8.2 Financial Results - 100% Equity Case	28
8.3 Financial Results - Loan Case : 50% Equity/50% Loan.....	30
8.4 Sensitivity Analysis: Key Factors	32
ARABIC SUMMARY	