・6.1(7) 調査団の車両手配については運輸省は規定どおり行う旨了承したが、その後開発評議会がやや難色を示したと伝えられた。

8－2 本格調査の実施に関する取決め（M／M）

1. 方法論

i）No.6、11、12バースを商港機能以外の用途に転用する可能性について当該事項の検討にあたっては次の内容を含むこと。

イ）港湾の運営に与える影響

ロ）運営に支障ある場合の代替案

ii）自然条件の調査

マスタープラン作成のための自然条件調査については、「オ」側は新港計画の評価を建設費の比較により行うつもりであり、クリヤットにおいてマウンセル社が実施した調査と同程度の調査を行うこととした。

本議論については、先方がマスタープラン調査、フィージビリティ調査、D／Dの諸段階で必要な調査の精度が異なることに対する理解が欠如しているところからきている。

2. その他

i）調査スケジュール

S／Wにおける調査スケジュールについては、すべて本格調査の開始時期を基準としているが、本格調査の開始時期については、S／W上明記されていないことから不満を表明した。当方から「日」側の事情を説明したうえで、先方MOCの要請が遅くとも10月末までに開始することであることを伝える旨了解した。

ii）資料の返却

先方は資料・報告書の提供については開放的であり、必要な資料を提供してくれることを約したが、先方にも部数が限られているため、すべてを調査終了後に返却することとの要請を受け、これを了した。

M／M作成にあたり、「オ」は、M／Mを作らず、すべてS／Wでカバーすべきを主張。我がほうはS／WとM／Mの性格を十分説明したうえで前例(農業省とのS／W)を挙げて理解を求めた。しかし、「オ」はUndertakingに関する追記はあくまでもS／Wに記載すべきとして我がほうと真っ向から対立。たび重なる協議の結果、外務省の判断により、S／Wの各項は従来のままとし、「M／MはS／Wの一部である」旨S／Wに記載し、「オ」の理解を取りつけた。

9. 本格調査への提言

1. カブース港改良計画

カブース港改良計画については、インドのコンサルタントであるエンジニアリング・サービス社が実施した調査レポートを基本としているが、実施担当のMOCでは、このうち浚渫工事を除く部分の実施について、D／Dを行おうとしている。しかしながら当港の状況をみるに、コンテナ用背後ヤードが狭隘であるのは事実であるが、PSCの用地である墓地に隣接したJibrooにも空地があり(一部シャシー置場としている)、かつ、コンテナ船も観察する限りはCMAが専用的に使っているのみであり、岸壁延長は2バースあればオペレーションの効率化により、1995年対応は可能と思われる。むしろ水深不足への対応が緊急の課題であろう。

現カブース港の岸壁基礎はNo.1、2バースについてはNo.2の付け根部分が－11.7mであるが、他の部分は－12m以深にあるとしている(The Extension of Mina Qaboos into Shutaify Bay)。またNo.4、5は－11.7mであり、－13m対応で浚渫した場合、岸壁の安定が保たれるか否か、またNo.1、No.2にガントリークレーンを杭基礎なしに設置し、安定が保たれるか否かの検討が重要であるが、これを検討するにあたり、必要水深とその区域につき十分検討を行う必要がある。

一方、カブース港に寄港するコンテナ船の船型予測が、これら必要水深の決定に大きく影響するが、過去の調査はいずれもこの点で深い考察に欠けており、GCC諸国に寄港するコンテナ船の統計を集めたうえで検討することが必要である。オマーン側は、地理的にみて、ガブース港はGCCへのFirst Port of Callであるべきであるが、現実にはLast Portとなっていると主張している。しかしながらGCCの最強港であるドバイでも海上距離にして500km程度であり、海上運賃の差はそれほど大差はないと考えられるためカブース港もしくはオマーンの新港でFirst Port of Callの地位を築くための要件につき、航路別貨物量を把握し、かつ、GCC諸国内のトランシップ用船舶の船型サービス形態(現在カブース港へは、United Arab Shipping Company＝GCC 5カ国の投資で設立されたバーレーンに基地を有する会社との説明によりサービスされている)等を把握し、慎重に決定する必要があろう。

2. 新港開発計画

新港開発はMOC側は、GCC諸国のFirst Port of Callにするため、第4世代船にも対応できるトランシップのためのMain Portを頭に描いているが、開発評議会はこれに加え、若干地域開発的機能も頭にあるようである。このためソハールに構想を有している石油化学及び肥料工場のための輸出基地としての機能も付与することを期待している。

今回調査団が踏査した区域は、クリヤット～マジス間であるが、この間において一応適地と考えられるのはクリヤット、ハラディ、マスナー、サワディ、サハーム、マジスが考えら

れるが、クリヤットは開発面積は十分あるが、相当規模のワジ(涸川)となっており、洪水時のデータがないためこれの処理を考慮する必要があること及び、山岳地帯を通る道路しかなく、途中2カ所に急勾配(約10%ぐらい)かつヘアピンカーブがあるため40フィートコンテナの通行が困難かもしれないこと、及びクリヤットの三周が山に囲まれた地区であるため、将来の発展が制約されていること、が可能性を決定する要素であろう。バティナ海岸沿いは自然条件的にはどの場所を設定しても同様であるが、サワディはこの海岸線上における唯一の景観の良い海岸であり、現在レクリェーション海岸として開発されているため避けたほうがよいと思われる。

マスナーは平担海岸であるが、アクセス道路が未舗装である。マジスには銅の積出桟橋が建設されているが、波により着桟困難なため利用されていないとの説明であったが、この海岸域はそれほど高い波高があるとは考えられないため、再調査(所有者である銅工場へ)を行う必要がある。この地区は開発余裕地があるが、これより南のソハール市前面からサハームまでは海岸沿いに民家が建ち並び、埋立てによる沖出しを考慮しないと困難と思われる。

新港の機能については、オプションとして、ソハール工業団地と一体とした工業+商港機能、トランシップのみを対象とした商港機能+FTZが考えられる。したがって、先方が要望するところのクリヤットのマウンセル調査報告書及びシュタイフィ湾拡張計画書と比較するには、対象としている規模もそれぞれ異なるため、単純な建設コストの比較だけでは結論を出せないため、まずこれら3計画についての比較のベースを揃える作業が必要となる。また、Cost-Benefitによる比較の手法に疎いことが考えられるので、比較のための方法論的説明も必要となろう。FTZについては"Potential For Free Trade Zone Phase 1 Report" Feb.1988があるので参照する必要がある。

ソハール工業団地については、開発評議会の説明によると1997年ごろに開発する予定とのことであったが、担当である商工省とは今回コンタクトできなかったため詳細は不明である。

新港開発計画策定のための自然条件調査は、先方はクリヤットでマウンセルが実施したものと同程度のものを要望している。これらにかかった費用は約3,000万円との説明を受けた。

海岸の状況をみたところ、サハームから北部は浸蝕海岸、南部は堆積傾向にあるように見受けられた。

3. 開発による国民経済(GDP)への寄与率について

開発評議会から、新港開発のGDP寄与率について算出すべく要請されたが、従来の5カ年計画では、かかる計算はなされていない。計量経済学を専攻したというラジハ次官にうかがったところでは、現在、モデルを検討しようと考えているとのことであったが、本格調査団にモデル作成を期待されている。ただし、十分な統計データがない場合が考えられるため、ラフにならざるを得ないと思われるが、可能な限りモデルによる説明を考慮すれば喜ばれるであろう。今回は時間的制約から、中央銀行所有統計は入手不可能であったが、「オ」側の所有するデータはすべて開放的に提供される見込みであるため、できる限り具体的かつ詳細な必要データリ

ストを事前に作成し、1カ月前ぐらいに依頼すれば効率的に入手できるであろう。

ただし、統計作成部署により集計期間に異なることもあり得るため、修正・補正が必要となろう(例えばForeign Trade StatisticsはRoyal Omani PoliceのCustom Sectionが集計し、Port Cargo StatisticsはPSCが集計しているが集計時点が異なっている)。

4. その他の必要調査

1) 現在オマーンでは港湾貨物の流動調査はなされておらず、ヒアリングによると、ドバイからのトランシップは陸送によっているとのことであるが、調査団の現地調査中カブース港では、U. A. Shipping Company船が荷役中であり、GCC諸国間の船によるトランシップもなされていると思われるため、1カ月～2カ月程度のモード別流動を把握するためのサンプル調査を実施する必要がある。

2) 自然条件調査ローカルコンサルタントは現地電話帳(コピー)にあるとおりであるが、カウンターパートであるMOCからアドバイスされたコンサルタントは以下の3社である。

① Fugro International B. V.
Box 6489 Ruwi
tel. 602290
702666
Tx 5640 FUGROMON

② Swissboring Overseas Corp Ltd.
Box 5694
Workshop(tel.) 592837
591747
600845

③ Yahya Constain L. L. C.
Box 5282 Ruwi
Sultanate of Oman
Fax 591981
Tx 5218 COSDONON
tel. 591366

5. 本格調査団の構成

上記調査を所定の期日までに完了するためには、大略次に示すような作業項目別調査スケジュールで行う必要があろうと思われ、これに要する要員は次のような職種が必要となろう。

(1) 総括
(2) 臨海開発
(3) 港湾計画1(カブース港)

(4) 港湾計画 2（新港）

(5) 管理・運営 1（カブース港）

(6) 管理・運営 2（新港）

(7) 財務分析

(8) 経済分析

(9) 需要予測

(10) 設計 1（基本施設）

(11) 設計 2（機能施設）

(12) 積算・施工計画

(13) 自然条件 1（Hydrographic）

(14) 自然条件 2（Geotechnic）

表 9 − 1　WORK SCHEDULE 案

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
WORK IN SULTANATE OF OMAN															
WORK IN JAPAN	IC		PR1			IR1 PR2			IR2		DF		F		

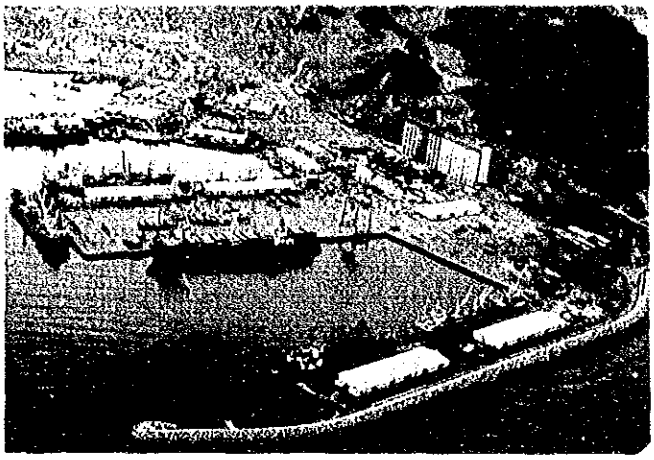
WORK ITEM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
I WRITING INCEPTION REPORT															
II DATA COLLECTION, REVIEW, ANALYSIS															
1. Management & Operation in Mina Qaboos															
2. Operation of Ports in Neighbouring C.															
3. Socio−economy in Oman (incld, p−cAn)															
4. Infrastructures in N−Oman															
5. Hydrographic Survey															
6. Geotechnic Survey															
III REVIEW ON SOCIO−ECONOMIC DEV. PLN															

WORK ITEM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Ⅳ WRITING PROGRESS REPORT I															
Ⅴ ANALYSIS ON FUTURE PORT REQUIREMENTS															
1. Import/Export Traffic Projection															
2. Transhipment Potential Analysis															
3. Transhipment Traffic Projection															
4. Future Port Requirements															
Ⅵ EVALUATION OF THE PROPOSED DEV. OF MINA QABOOS															
1. Critical Review of the Proposed Intermediate Dev. Plan of Mina Qaboos															
2. Recommendation on Further Improvement															
3. Estimation of Port Capacity															
Ⅶ WRITING INTERIM REPORT 1															
Ⅷ EVALUATION OF COASTAL DEV. POT															
1. Appraisal of Coastal Area Dev. Pot															
2. Analysis on Site Alternatives															
3. Selection of Best Alternative															
Ⅸ EVALUATION OF PORT DEV. ALTs															
1. Formulation of Port Dev. Policy Alt															
2. Evaluation of Port Dev. Policy Alt															
Ⅹ WRITING PROGRESS REPORT Ⅱ															
Ⅺ MASTER PLANNING OF A NEW PORT															
1. Allocation of Traffic															

WORK ITEM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
2. Master Planning of a New Port															
3. Preliminary Design															
4. Preliminary Cost Estimation															
5. Economic Analysis															
6. Financial Analysis															
XII WRITING INTERIM REPORT II															
XIII PORT DEVELOPMENT STRATEGY															
1. Options of Port Development Strategy															
2. Basic Policy & Strategy on Port Dev.															
XIV WRITING DRAFT FINAL REPORT															
XV WRITING FINAL REPORT															

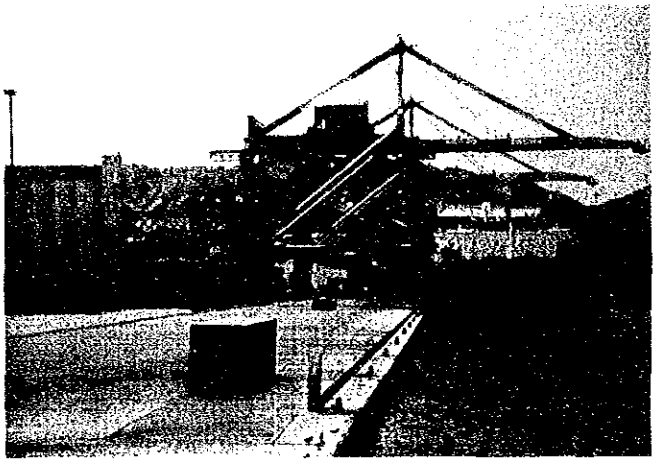
附　　属　　資　　料

1） 調査関連写真

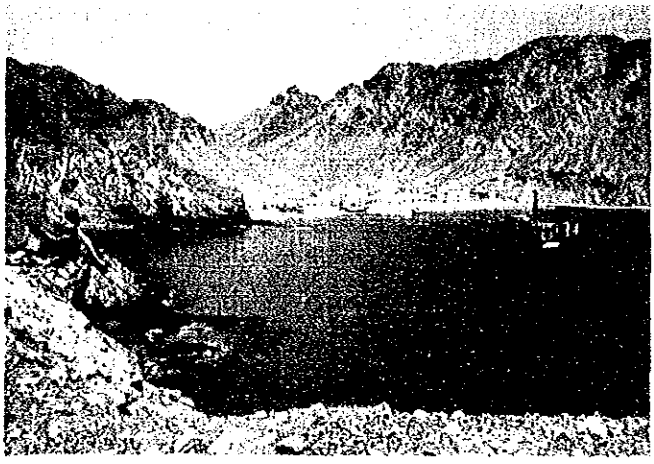


◀ シュタイフィベイ

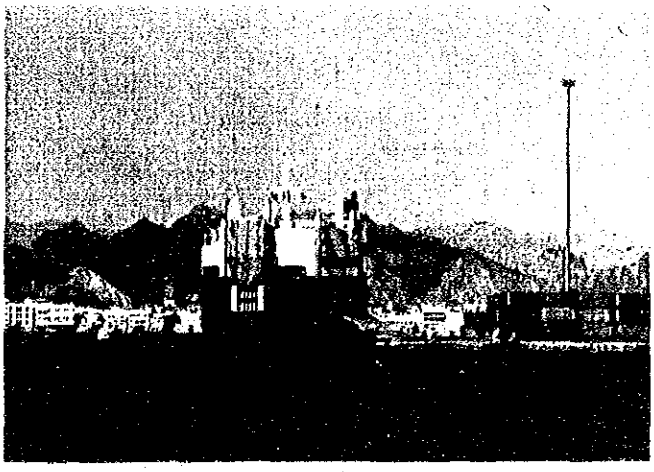
カブース港全景



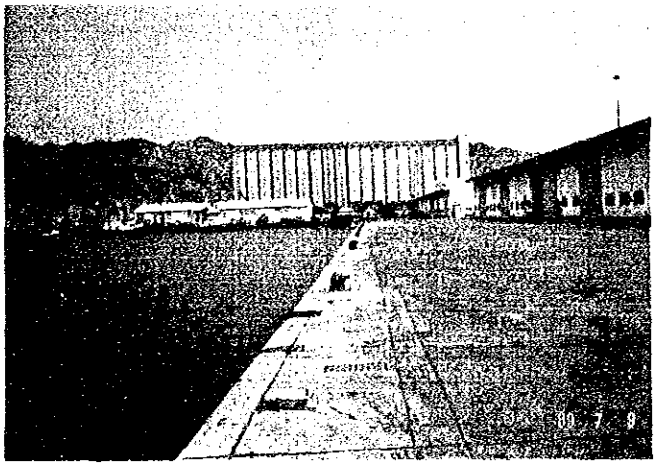
手前から第5バース，第4バースとガントリークレーン
正面　第3バース



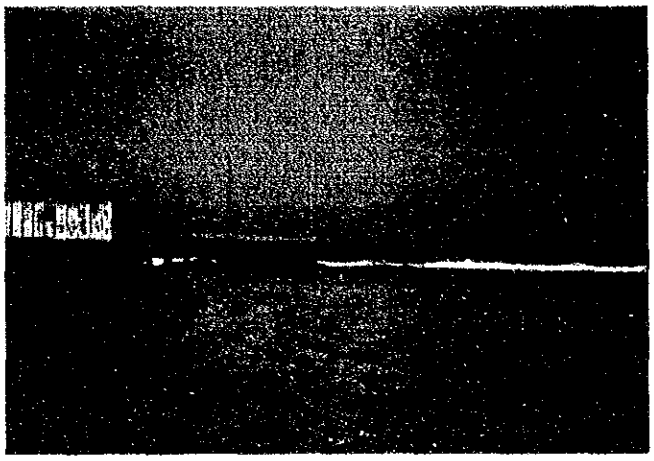
シュタイフィベイ



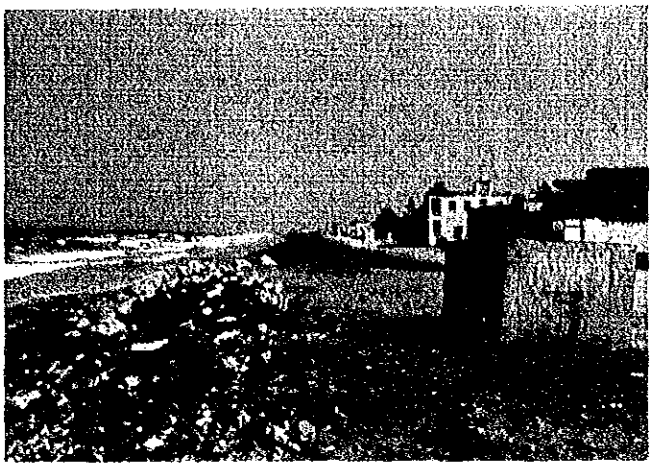
正面第5バースと交叉する第6バース
カーキャリアーが着岸している。



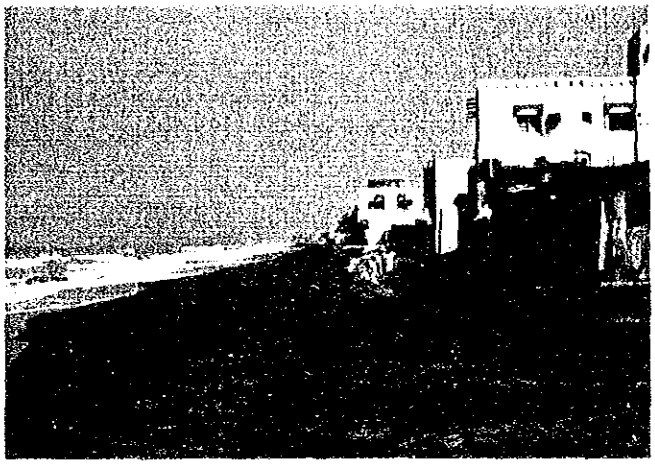
手前から第1バース，第2バース，正面奥第3バース



マジース銅積出機構（稼動していない）

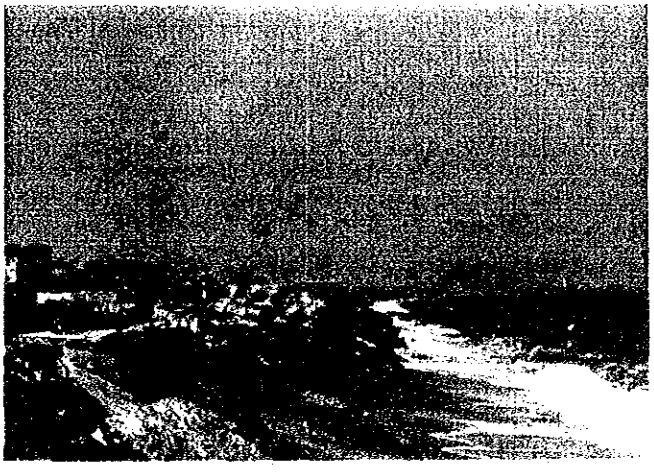


ソハール海浜。 浸蝕傾向にある。
手前捨石は浸蝕防止工と思われる。

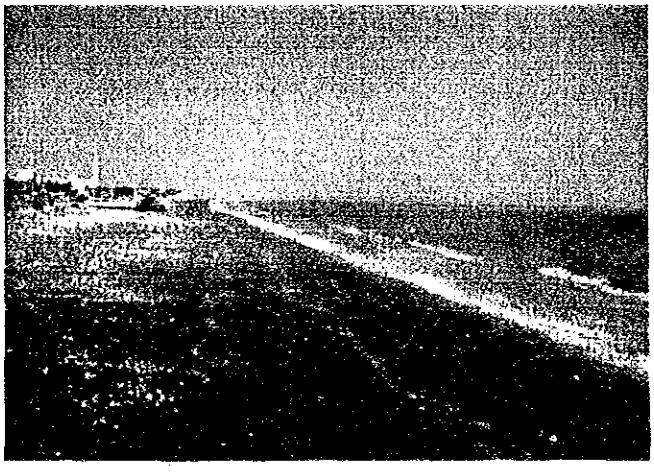


サハム海浜。浸蝕傾向にある。

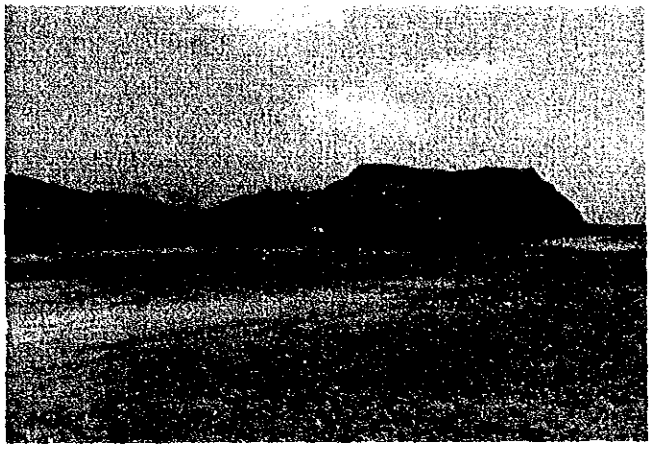
ウダム海軍基地北側
付根部に堆積が見受けられる。



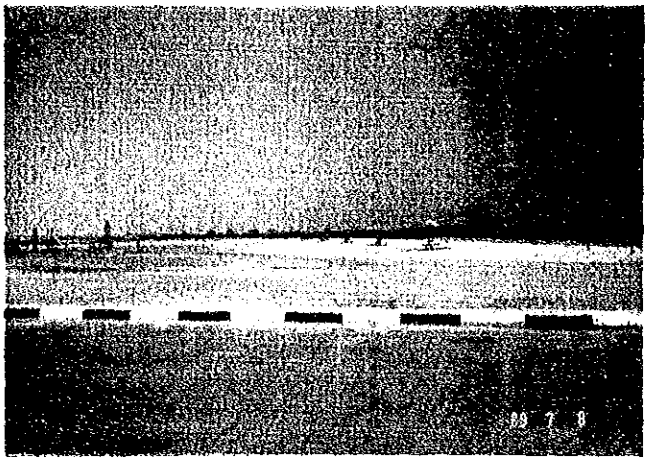
ウダム海軍基地南側　浸蝕傾向にある。
浸蝕防止のためガレキを投入している。



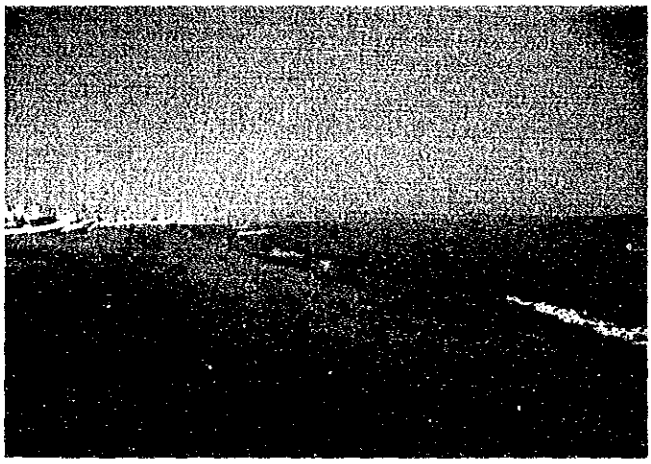
アルマスナム海浜



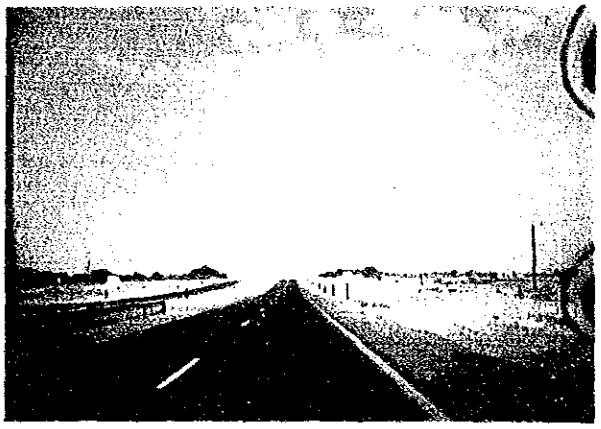
サワディー海浜
バティナコースト唯一の景勝地



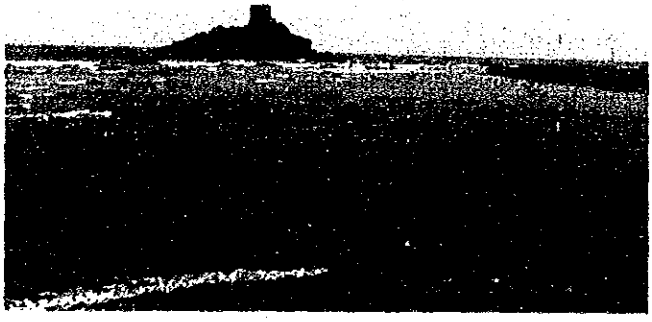
サワディー海水浴場



バルカ海浜



バティナコーストの整備された道路と
ワディが横切る場所
（道路が低くなっている）



クリヤート海浜

S／Wサイン風景
（左側３人目より黒田団長，ハルシー大臣，
小原大使，シャービ次官）

2）事前調査団の構成及び日程

(1) オマーン国北部地域港湾整備計画調査事前調査団員名簿

黒田秀彦	団長・総括	運輸省港湾局国際業務室長
佐藤具揮	協力政策	外務省経済協力局開発協力課
勝田穂積	港湾計画	運輸省港湾技術研究所企画室研修資料課長
勝海務	需要予測	運輸省第四港湾建設局企画課補佐官
善功企	自然条件	運輸省港湾技術研究所土質部動土質研究室長
岩間敏之	調査企画	国際協力事業団社会開発調査部社会開発調査第一課
藤田建二	施設設計	日本港湾コンサルタント

(2) 調査日程

7／4(火)	東京 →マスカット（TG641－TG507）	
7／5(水)	8：00	ブリーフィング
	9：45	大使館　小原武大使表敬
	10：30	DEVELOPMENT COUNCIL TECHNICAL SECRETARIAT （開発評議会事務局） MOOSA事務局長（大臣）表敬 要請背景等意見聴取
	11：50	P.S.C（PORT SERVICES CORPORATION） SHANHARI港湾庁長官表敬
	12：30	カブース港を海上より視察
	15：30	S／W協議の団内打合せ
7／6(木)	10：00	M.O.C（MINISTRY OF COMMUNICATIONS） SIYABI運輸次官（代行）表敬
	10：30	S／W協議及び資料収集の要請
	15：30	団内打合せ
7／7(金)	9：30	クリヤット視察
	15：00	団内打合せ及び資料収集
7／8(土)	8：00	バティナコースト視察
	8：45	BARKĀ′
	10：15	SAWĀDI
	11：00	AL MASNA′AH
	11：15	WUDĀM AL GHĀF サウド　ビン　サルタン海軍基地の南側及び北側

	13：25	SOHĀRの約20 km北側の銅鉱石積出ジェッティー
		（ただし現在休止中）
	14：10	SOHĀR
	14：40	SAHAM
	16：15	AL KHĀBŪRAH
7／9(日)	10：00	M.O.C.
		S／W協議
	15：30	団内打合せ及び資料収集
7／10(月)	9：40	（1班）カブース港を陸上より視察
		ハーバーマスターより施設の構造及び利用状況の説明を受ける
	10：00	（2班）M.O.C.
		S／W　UNDERTAKING協議
7／11(火)	9：15	M.O.C.
		資料収集
	11：00	（1班）DEVELOPMENT COUNCIL
		S／W協議
	12：00	（2班）P.S.C.
		資料収集
	15：30	資料整理
7／12(水)		資料整理、調査内容の検討
	14：00	S／W署名
7／13(木)		調査内容の検討、資料整理
		マスカット ⟶
7／14(金)		⟶ バンコク（TG 508）
7／15(土)		バンコク ⟶ 東京（TG 640）

3) 面談者リスト

DEVELOPMENT COUNCIL

H.E.MOHAMED BIN MOOSA AL YOUSUF	Secretary General
H.E.RAJIHA BINT ABDUL AMIR	Under Secretary of planning
Mr. Abdul Mehdi Abdul Baqi	Acting D.G. of Planning

MINISTRY OF COMMUNICATIONS (M.O.C)

H.E.SALIM ALI NASSOR AL-SIYYABI	Under Secretary
Mr. HASAN BIN SULEMAN AL-MAJAINI	Section In Charge
Engr. SHAHID H MIRZA	Senior Ports Engineer
Mr. MOH'D KHAL-FAN NAJIM AL-SABAHI	Acting Director General of Ports and Public Transport

PORT SERVICES CORPORATION (P.S.C)

H.E.AWADH BIN SALEM AL SHANHARI	President of the port
Mr. SAUD BIN AHMED	Operation Manager
Mr. HAMED ALQADI	Civil Engineer
Mr. AHMED SAID	Habor Master
Mr. SAID HASSAN	Administration Manager
Mr. SHAHID H MIRZA	Communication Manager

在オマーン国日本国大使館

小原　武	大使
田中　享	参事官
八幡昌秀	二等書記官
平林　誠	理事官

4) Scope of Work 及び Minutes of Meeting

SCOPE OF WORK
FOR
THE STUDY
ON
THE PORT DEVELOPMENT FOR NORTHERN OMAN

AGREED UPON BETWEEN
MINISTRY OF COMMUNICATIONS
GOVERNMENT OF SULTANATE OF OMAN
AND
JAPAN INTERNATIONAL COOPERATION AGENCY

DATED THE 12TH JULY, 1989
AT MUSCAT

H.E. HAMOOD BIN ABDULLA
AL-HARTHY
MINISTER OF COMMUNICATIONS,
GOVERNMENT OF THE SULTANATE
OF OMAN

HIDEHIKO KURODA
LEADER OF THE JAPANESE
PRELIMINARY STUDY TEAM,
JAPAN INTERNATIONAL
COOPERATION AGENCY

I. INTRODUCTION

In response to a request from the Government of the Sultanate of Oman, the Government of Japan decided to conduct the Study on the Port Development for Northern Oman (hereinafter referred to as "the Study").

In accordance with the relevant laws and regulations in force in Japan, the Japan International Cooperation Agency (hereinafter referred to as "JICA"), the official agency responsible for the implementation of the technical cooperation programmes of the Government of Japan, will undertake the Study in close cooperation with the Ministry of Communications on behalf of the Government of the Sultanate of Oman.

The present document sets forth the scope of work with regard to the Study.

II. OBJECTIVES OF THE STUDY

The objectives of the Study are:

2.1 to review and evaluate the intermediate development plan of Mina Qaboos.
2.2 to recommend a port development strategy in northern Oman.
2.3 to formulate a master plan for a new port in northern Oman keeping into considerarion the followings:
(1) Reviewing and comparing the study already done for a proposed new port at Quriyat.
(2) Reviewing and comparing the major extension of Mina Qaboos into Shutaify Bay.
(3) The existing Mina Qaboos including the recommendations for improvement/development made by Indian Consultant.

III. SCOPE OF THE STUDY

In order to achieve the objectives above, the Study shall cover the following items:

3.1 Review and Analysis of the Existing Data and Information

(1) to collect, review and analyse available data, information, reports and plans relevant to the Study.

(2) to conduct field reconnaissance for evaluating the present conditions of Mina Qaboos.

(3) to collect data for analysing the competitive power of the ports of neighbouring countries.

3.2 Observation of Natural Conditions

(1) to conduct the hydrographic surveys necessary for the master planning of a new port including the identification of potential development sites.

(2) to conduct the soil explorations necessary for the master planning of a new port including the identification of potential development sites and for the technical evaluation of the dredging requirement in Mina Qaboos.

3.3 Analysis on Future Port Requirements

(1) to conduct analysis on import/export traffic projections up to the year 2015.

(2) to conduct analysis on the potential of development as transshipment port.

(3) to conduct transshipment traffic projections in northern Oman up to the year 2015.

(4) to estimate the future port requirements up to the year 2015.

3.4 Evaluation of the Proposed Development of Mina Qaboos

(1) to evaluate the proposed intermediate development plan of Mina Qaboos.

(2) to evaluate the possibility of allocating the berths No. 6, 11,12 for the purpose other than commercial use.

(3) to recommend further improvements.

(4) to estimate the port capacity of Mina Qaboos.

3.5 Evaluation of Coastal Area Development Potential

(1) to analyse the natural conditions and socio-economic conditions of the coastal area in northern Oman.

(2) to evaluate the development potential for a new port in the coastal area of northern Oman.

(3) to select preferable sites for the new port development.

3.6 Formulation of Port Development Policy Alternatives

(1) to analyse the possibility of establishment of a Free Trade Zone combined with the transshipment function and/or industrial port functions to increase the potential of the new port development.

(2) to formulate and evaluate a port development policy alternatives in northern Oman.

3.7 Master Planning of the New Port

(1) to allocate the port traffic between Mina Qaboos and the new port.

(2) to formulate a master plan for the new port corresponding to the best port development policy alternative.

(3) to preliminarily estimate the cost of the new port development project.

(4) to conduct economic and financial analyses of the new port development project.

3.8 Port Development Strategy

(1) to analyse the options of port development strategy.

(2) to recommend a basic policy and strategy for the port development.

IV. SCHEDULE OF THE STUDY

The Study will be carried out in accordance with the attached tentative schedule.

V. REPORTS

JICA shall prepare the following reports in English and submit them to the Government of the Sultanate of Oman.

5.1 Inception Report (30 copies)

This report is to describe the overall approach and implementation program of the Study and to be submitted at the commencement of the first field survey.

5.2 Progress Report(I) (30 copies)

This report will be submitted within 3 months after the commencement of the full-scale study and will contain the provisional outcome of the first field survey.

5.3 Interim Report(I) (30 copies)

This report will be submitted within 6 months after the commencement of the full-scale study and will include an analysis on future port requirements and evaluation of the proposed development of Mina Qaboos.

5.4 Progress Report(II) (30 copies)

This report will be submitted at the end of the second field survey and will contain an evaluation of the coastal area development potential and an evaluation of the port development policy alternatives.

5.5 Interim Report(II) (30 copies)

This report will be submitted within 9 months after the commencement of the full-scale study and will contain the master plan of the new port including a preliminary cost estimation of the new port development project.

AE

5.6 Draft Final Report (30 copies)

This report will be submitted within 11 months after the commencement of the full-scale study and will present a draft of all the result of the study.

The authority concerned (Steering Committee) of the Government of the Sultanate of Oman shall provide JICA with written comments in English on the Draft Final Report within 1 month after the receipt of the Draft Final Report.

5.7 Final Report (50 copies)

This report will be submitted within 2 months after the receipt of the written comments on the Draft Final Report from the Government of the Sultanate of Oman and will contain all the essential recommendations, results and findings of the Study.

VI. UNDERTAKINGS OF THE GOVERNMENT OF THE SULTANATE OF OMAN

6.1 To facilitate the smooth implementation of the Study, the Government of the Sultanate of Oman shall take the following necessary measures;

(1) to permit the members of the Japanese study team to enter, leave and sojourn in the Sultanate of Oman for the duration of their assignment therein, and exempt them from consular fees and alien registration requirements,

(2) to secure the safety of the Japanese study team, when it is required,

(3) to exempt the members of the Japanese study team from taxes, duties and other similar charges on equipment, machinery and other materials brought into and out of the Sultanate of Oman for the implementation of the Study,

(4) to exempt the members of the Japanese study team from income tax and other similar charges of any kind imposed on or in connection with any emoluments or allowances paid to the members of the Japanese study team for their services in connection with the implementation of the Study,

(5) to provide the necessary assistance to the Japanese study team for remittances as well as for utilization of the funds introduced into the Sultanate of Oman from Japan in connection with the implementation of the Study,

(6) to try to secure permission for entry into private properties or restricted areas for the implementation of the Study,

(7) to secure permission for the Japanese study team to take all data and documents (including maps, photographs) related to the Study out of the Sultanate of Oman to Japan,

(8) to provide medical services as needed. The expenses will be chargeable to the members of the Japanese study team.

6.2 The Government of the Sultanate of Oman shall bear claims, if any arises against the members of the Japanese study team resulting from, occuring in the course of, or otherwise connected with the proper discharge of their duties in the implementation of the Study, except when such claims arise from gross negligence or willful misconduct on the part of the members of the Japanese study team.

6.3 The Ministry of Communications (hereinafter referred to as "MOC") shall act as the counterpart agency to the Japanese study team and also as the coordinating body in relation with other governmental and non-governmental organizations concerned for the smooth implementatin of the Study.

6.4 MOC, at its own expense, shall provide the Japanese study team with the followings, in cooperation with the other organizations concerned:

(1) available data and information related to the Study,
(2) counterpart personnel,
(3) suitable office space with necessary equipments in Muscat,
(4) credentials or identification cards,
(5) an appropriate number of vehicles with drivers.

VII. UNDERTAKINGS OF JICA

For the implementation of the Study, JICA shall take the following measures:

7.1 to despatch, at its own expense, the study team to the Sultanate of Oman,

7.2 to pursue technology transfer to the Omani counterpart personnel in the course of the Study,

7.3 to provide equipment and machinery for the implementation of the Study, which will remain the property of the Government of Japan unless otherwise agreed upon.

VIII. MUTUAL CONSULTATION

JICA and MOC shall consult with each other in respect of any matter that may arise from or in connection with the Study.

IX. MINUTES OF MEETING

The Minutes of Meeting signed on 12th July, 1989 between MOC and JICA are attached herewith and are considered as the integral part of the Scope of Work for the Study.

ATTACHMENT

TENTATIVE SCHEDULE

Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Work in Sultanate of Oman	—	—	—	—	—	—			—		—			
Work in Japan	—	—	—	—	—	—	—	—	—	—		—	—	—
Report Presentation	△ IC/R		△ PR/R (I)			△ IT/R(I) PR/R(II)			△ IT/R (II)		△ DF/R			△ F/R

IC/R : Inception Report
PR/R : Progress Report
IT/R : Interim Report
DF/R : Draft Final Report
F/R : Final Report

MINUTES OF MEETING
FOR
THE STUDY
ON
THE PORT DEVELOPMENT FOR NORTHERN OMAN

AGREED UPON BETWEEN
MINISTRY OF COMMUNICATIONS
THE GOVERNMENT OF THE SULTANATE OF OMAN
AND
JAPAN INTERNATIONAL COOPERATION AGENCY

DATED THE 12TH JULY, 1989
AT MUSCAT

H.E. HAMOOD BIN ABDULLA
AL-HARTHY
MINISTER OF COMMUNICATIONS,
GOVERNMENT OF THE SULTANATE
OF OMAN

HIDEHIKO KURODA
LEADER OF THE JAPANESE
PRELIMINARY STUDY TEAM,
JAPAN INTERNATIONAL
COOPERATION AGENCY

The Japanese Preliminary Study Team (hereinafter referred to as "the Team") organized by the Japan International Cooperation Agency (hereinafter referred to as "JICA"), headed by Hidehiko Kuroda visited the Sultanate of Oman from July 4th to 13th, 1989, to discuss and mutually agree on the Scope of Work for The Study on the Port Develoment for Northern Oman (hereinafter referred to as "the Study").

The Team had a series of discussion with representatives from the Ministry of Communications (hereinafter referred to as MOC"), and carried out a field reconnaissance in the study area.

The list of attendants of the meeting is attached in Annex.

As a result, following items are agreed upon by both sides:

I. Methodologies

1. Evaluation on the possibility of allocating berths No. 6, 11, 12 for the purpose other than commercial use

In accordance with III.3.4.(2) of the Scope of Work, the Study shall cover the followings:

(1) What effect it would have on the port operation.

(2) What alternatives to be considered within Mina Qaboos in case of its negative effect on the port operation.

2. Observation of Natural Conditions

The observation of natural conditions shall be conducted to the extent necessary to compare the project cost of the master plan with that studied at Quriyat by Maunsell Consultants Ltd.

II. Others

1. MOC requested that the Study shall be commenced by the end of October, 1989. The Team will convey the request to the Government of Japan.

2. In accordance with VI.6.1.(7) of the Scope of Work, all the data and documents provided to the full-scale study team by the Government of the Sultanate of Oman shall be returned on completion of the Study.

List of Attendants

Ministry of Communications

H.E. Salim Ali Nassor Al-Siyabi
Undersecretary
Mohamed Khalfan Najim Al-Sabahi
Acting Director General of Ports and Public Transport
Hassan Suleiman Al-Mjeni
Acting Director of Ports
Eng. Shahid Mirza
Ports Engineer

JICA Team

Hidehiko Kuroda	Leader
Tomoki Sato	Member
Hozumi Katsuta	Member
Tsutomu Katsuumi	Member
Kouki Zen	Member
Toshiyuki Iwama	Member
Kenji Fujita	Member

5) Terms of Reference

(DRAFT)

MARCH 1989

TENTATIVE SCOPE OF STUDY

ON

PORT DEVELOPMENT STRATEGY FOR NORTHERN OMAN

I. Evaluation of the Proposed Development of Mina Qaboos

1. Review of Present Port Conditions
2. Evaluation of the Proposed Intermediate Development
3. Recommendations on Further Improvement
4. Estimation of Port Capacity

II. Future Port Requirements

1. Import/Export Traffic Projection
2. Analysis of Future Potential as Transhipment Port
3. Transhipment Traffic Projection
4. Future Port Requirements

III. Master Planning of a New Port

1. Selection of Project Site
2. Field Investigation of Project Site
3. Master Planning of a New Port
4. Economic/Financial Analysis of New Port Development

IV. Port Development Strategy

1. Long-Term Expansion Possibilities of Mina Qaboos
2. Options of Port Development Strategy
   (New Port Development vs. Mina Qaboos Expansion)
3. Basic Policy and Strategy of Port Development

6) 収集資料リスト

Ⅲ－1　Statistical Year Book (1987)

Ⅲ－2　Quarterly Bulletin on Main Economic Indicators (1989)

Ⅲ－3　Glance on Industries in Oman till June 1988

Ⅲ－4　Quarterly Bulletin on Foreign Trade Statistics December 1988

Ⅲ－5　Tariff 1981

Ⅲ－6　オマーンの経済社会の現状

Ⅲ－7　オマーン国概覧

Ⅲ－8　1980年代のオマーンの政治・経済情勢

Ⅲ－9　オマーン国経済指標

Ⅲ－10　The Third Five-Year Development Plan 1986-1990

Ⅲ－11　APPENDIX(A) Tables of Development Expenditures by Ministries and Government Deparments

Ⅲ－12　OMAN Facts and Figures 1987

Ⅲ－13　The Extension of Mina Qaboos into Shutaify Bay March 1987

Ⅲ－14　Comprehensive Study on Development/Improvement Required in Mina Qaboos July 1988

Ⅲ－15　Potential Commercial Port Sites Between Muscat and Sur Feasibility Report September 1984

Ⅲ－16　New Port Between Muscat and Sur Feasibility Study Final Report October 1985

Ⅲ－17　同　上　Drawings

Ⅲ－18　オマーン国沿岸概況

Ⅲ－19　海図　Persian Gulf

Ⅲ－20　海図　Ports and Anchorages on the North East Coast of Oman

Ⅴ－1　Port Qaboos Information Booklet (新)

Ⅴ－2　〃　(古)

Ⅴ－3　Annual Report 1986 (PSC)

Ⅴ－4　〃　1987 (PSC)

Ⅴ－5　Mina Qaboos Existing Key Plan

Ⅴ－6　Mina Qaboos 同盟実績

VI－1　Arab Transport and Shipping 1987／1988

VI－2　Shipping Line Index 1987

VI－3　Port of Fujairah

VI－4　Fujairah

VI－5　Gulf Port Statitics

VI－6　The Sultanate of Oman Scale 1： 1,300,000

VI－7　OMAN, Stacey International（写真集）

VI－8　Socio－Economic Atlas

VI－9　オマーン　1987

VI－10　Comprehensive Stupy on Development／Improvement Required in Mina Qaboos, Executive Summary July 1988

VI－11　Port Qaboos

VI－12　Annual Report 1985

VI－13　Annual Report 1984

7） 質問表（対応する収集資料番号）

QUESTIONNAIRE
ON
THE STUDY ON THE PORT DEVELOPMENT FOR NORTHERN OMAN

JULY, 1989

JICA PRELIMINARY STUDY TEAM

Table of Contents

I. General
1. Backgrond and Necessity of the Study
2. Counterparts

II. Plans and Policies Relevant to the Study
1. Port Development Policy
2. National and Regional Development Plans

III. Availability of Data and Information
1. Statistics on Socio – economy
2. Hydrographic Data
3. Geotechnical Data
4. Aereal Photograph
5. Maps and Charts

IV. Availability of Local Consultants and Surveyors
1. Boring Tests
2. Sounding
3. Wave Surveys
4. Inquiries
5. Standard Costs

V. Responsible Organizations and Authorities

VI. Others
1. Possibility of Survey and Inquiry in Ports in U.A.E.
2. Organization of Steering Committee

Preface

This questionnaire is prepared by the Japanese Preliminary Study Team for the Study on the Port Development for Northern Oman to obtain the basic information and data necessary for the formation of the scope of work of the Study.

Since the full - scale study team is expected to obtain detailed data and information as necessary for the study according to the detailed plan of the study which shall be presented and discussed in the inception report, the answers need not be in detail but should be brief and precise. The study team would like to ask for additional data and information at future meetings.

I. General

1. Background and Necessity of the Study
   1) Opinions and/or views on the results of the study "Comprehensive Development of Mina Qaboos" conducted by the Consulting Engineer Services.
   2) Opinions and/or views on the results of "the Feasibility Study of a New Port between Muscat and Sur" conducted by Mounsell Consultants L.T.D.
   3) Opinions and/or views on the results of the study "The site selection report dated Apr. 1985" by the Halcrow International.
   4) Expected role or functions of Mina Laysut in relation to Mina Qaboos in the coming 10 to 20 years.
   5) Expected role or functions of a new port other than to increase the capacity for transshipment of containerized cargo, if any.

2. Counterparts
   1) Name of the counterparts authorities or organizations for the Study.
   2) Possibility of organizing a Steering Committee of the Government of the Sultanate of Oman comprised of the related authorities and organizations which is expected to provide the Study Team with information and data as well as to exchange views on issues relevant to the Study for the smooth implementation of the Study.
   3) Possibility of assigning counterpart personnel with English capability who will act as a contact point between the Study Team and the concerned authorities and organizations and set the necessary arrangements for the implementation of the Study.

II. Plans and Policies relevant to the Study

1. Port Development Policy
   1) Intention of developing a new port away from the capital region of Muscat to promote industry in remote areas such as Sohar.
   2) Intention of developing Mina Qaboos as a transshipment port for containerized cargo for the comming 10 to 20 years.
   3) Any treaties or agreements concerning port development and industrial development among G.C.C. countries.

2. National and Regional Development Plans
   1) Present National and/or Regional Development Plans which will possibly influence port development.
   2) The third five year development plan (1986~1990) and the actual performance to date.
   3) Industrial Development Plans and their current status such as in Rusail, Salara and Sohar which will possibly influence the projection of port traffic.
   4) Long-term projections of economic indices such as sectoral GDP, population and trade balance.

III. Availability of Data and Information	対応資料番号
1. Statistics on Socio-economy 1) Statistical Year Book for the past 10 years. 2) Sectoral GDP for the past 10 years. 3) Price indices for the past 10 years. 4) Population and labor force by sector by region for the past 10 years. 5) Agricultural production and consumption by type of crop for the past 10 years. 6) Industrial production and consumption by type of commodity for the past 10 years. 7) Annual cargo throughput of each port by commodity and type of cargo (Bulk, Break Bulk, Container) and by export and import and transshipment for the past 10 years. 8) Annual number of ship arrivals at Mina Qaboos by type and size of vessel for the last 5 years. 9) Average and maximum waiting time of ship by type of vessel. 10) Berthing time of ships by size and type of vessel. 11) Annual balance sheet and financial statement of PSC. 12) Organizational chart of MOC and PSC. 13) Port tariff 14) Origin and destination of port traffic by traffic mode.	III-1 ~ III-10

2. Reports 1) Operational Review – February 1985 2) Future Role of Mina Qaboos – September 1985 3) Report on storage yard for incoming loaded containers at Jibroo 4) Land utilization and redevelopment in around Mina Qaboos 5) Report on Container Terminal at Azaiba – 1986 6) The Second Five Year Development Plan 1981 – 1985 7) The Third Five Year Development Plan 1985 – 1990 8) Annual Reports of the Central Bank of Oman. 9) Quarterly Bulletin on Main Economic Indicators – Development Council 10) Facts and Figures (Oman) 11) PSC Annual Reports 12) The Extention of Mina Qaboos into Shutafy Bay. Oct. 1982	III – 11 ~ III – 17
3. Hydrographic Surveys (if any) 1) Climate (general) 2) Wind statistics 3) Record of strong winds 4) Weather maps of anomalous weather condition 5) Wave statistics 6) Record of big waves 7) Tidal level 8) Record of anomalous tidal levels such as storm tides 9) Tidal current 10) Littoral drift 11) Record of large tsunami 12) Water depth	III – 14 ~ III – 18
4. Geotechnical Surveys (if any) 1) Geological map 2) Soil characteristics 3) Earthquakes	III – 18
5. Availability of Aerial photographs	
6. Maps and Charts 1) Availability of topographical maps with a scale of 1/10,000~1/50,000 2) Availability of charts with a scale of 1/10,000~1/50,000	III – 19 ~ III – 20

IV. Availability of Local Consultants and Surveyors
1. Availability of local Surveyors to conduct the boring tests on seabed.(name, address, phone number, number of engineers employed, major project records in the last 3 years and financial conditions in the last 3 years) 2. Availability of local surveyors to conduct sounding surveys of water depth. (ditto) 3. Availability of local surveyors to conduct wave surveys.(ditto) 4. Availability of local consultants to conduct surveys on production and consumption of major industrial products (if such statistics are not available) 5. Standard cost for conducting the above mentioned surveys.

V. Responsible Organizations and Authorities	対応資料番号
1) socio－economic statistics 2) port statistics 3) maps and charts 4) industrial development projects 5) statistics on foreign trade 6) custom clearance 7) port operation 8) cargo handling 9) railway projects 10) road projects 11) shipping	V－1 ～ V－6

VI. Others	対応資料番号
1) Possibility of getting permission to conduct field surveys and inquiries on ports in the U.A.E. 2) Possibility of organizing a steering committee with the members of the related ministries and public organizations to obtain the necessary information and exchange views on the Study for the smooth implementation of the full－scale study.	VI－1 ～ VI－6

Questionnaire について

Ⅲ Availability of Data and Information

1. Statistics on Socio－economy

- 1)～7) Agricultural comsumption 及び Industrial production and consumption 以外は収集済み。これらは収集がかなり困難な模様
- 8)～11) 7)の transshipment 及び 8)はレターにて運輸省経由ＰＳＣに要請すること。バースごとの取扱量は質問しなかったが必要なデータと思われるので本格調査時に上と同様要請する。9)、10) データは調査団にて加工処理する必要がある
- 12)～14) 12)、13) は取得済み、14) については貨物の輸出入国がわかるのみなので、本格調査時に別途調査すること

2. Reports

- 1)はMaunsell 社の報告書。Mirza 氏に依頼したがまだ手にしていない（レターで正式に依頼する）
- 2)はMaunsell の Quriyat Report に入っている
- 3)～5)はいずれも Indian Consultant の実施したもの。 1) 同様まだ手に入れていない
- 6) 未
- 7) 取得済み
- 8) 未 1) 同様レターで要請すること
- 9)～12) 取得済み

Morocco, Embassy of Kingdom of
Box 6125 Ruwi 701977
H.E. The Ambassador, M. Mohamed Fredj Doukkali 701985
Res 561403
Counsellor, Ismail L Hilalai 701977
Res 562512
Administrative and Financial Attache, Mohamed Laaligui 701977
Res 703342
Tx 3033 SIFAMAR ON

Pakistan, Embassy of The Islamic Republic of Box 4302 Ruwi 603244
..... 603343
..... 603090
H.E. The Ambassador, M. Anwar Khan 603090
Res 560979
First Secretary, J.R. Qureshi 698603
Res 696415
First Secretary, Mohamad Sarfraz Qureshi 603244
Res 603487
Second Secretary, Noor Mohd Jadmani 603439
Res 601700
First Secretary, Sayid Sarfraz Ghilani 603343
Res 701943
Tx 5451 PAK ON

Qatar, Embassy of the State of
Box 802 Muscat 701802
..... 701565
H.E. The Ambassador 701801
Res 561127
Diplomatic Office 703040
..... 707121
..... 794599
Reception 707524
Diplomatic Residences 561956
..... 564131
..... 603278
Tx 3460 ALQATARY ON

Saudi Arabia, Embassy of the Kingdom of Box 4411 Ruwi 601743
..... 601744
H.E. The Ambassador 601708
Res 560885
Military Liaison Office 704257
..... 704256
Res 703464
Cultural Attache 697118
..... 697119
Res 591691
Members of The Embassy Residences 592155
..... 592166
..... 592288
..... 592188
..... 591692
Tx 3401 NAJDIYAH ON

Somalia, Embassy of the Democratic Republic of
Box 4767 Ruwi 701355
..... 701322
H.E. The Ambassador, Adan Isak Ahmed 706518
Res 560526
Counsellor, Abdulah Ibrahim Jama (Res) 701355
..... 701322
Safia Adan Noor (Res) 701355
..... 701322
Tx 3253 SOMALDIPL ON

Sri Lanka, Embassy of
Box 5433 Ruwi
Charge D'affaires, Gamini Gunawardana 697336
Res 697842
Attache, A.W.M. Hifur 697841

Sudan, Embassy of the Republic of
Box 6971 Ruwi 697875
..... 697871
H.E. The Ambassador, Hashim Mohamed Saleh El Faki (Res) 601541
Counsellor, Abdel Moneim Hassan Mohamed (Res) 700377
Second Secretary, Muna Abdel Rehman Hassan (Res) 798705
Tx 5088 SUDANI ON

Thailand, Royal Embassy of
Box 6367 Ruwi 602684
..... 602685
Tx 5210 THAIEM ON
H.E. The Ambassador, Vaikundha Samuratruamphol
Counsellor, Pisut Hajdin
First Secretary, Winyou Charnkam

Tunisia, Embassy of the Republic of
Box 5755 Ruwi 603486
Tx 5251 TUNISEMB ON

Turkey, Embassy of the Republic of
Box 8511 Muttrah 697050
..... 697051
H.E. The Ambassador 697055
Res 563811
..... 564209
Second Secretary (Res) 697053
Attache (Res) 697054
Tx 5571 TURK MUSC ON

United Kingdom of Great Britain, Embassy of Box 300 Muscat (5 lines) 738501
..... 738502
..... 738503
..... 738504
..... 738505
Commercial Office, Box 6898 Ruwi (2 lines) 706468
..... 706469
Tx 5216 PRODROME ON

United States of America, Embassy of The Box 966 Muscat 738231
..... 738232
..... 738006
Administration (Ext 41, 45) 738231
Political (Ext 71) 738231
Defence Attache (Ext 80) 738231
Consular (Ext 47) 738231
Security Officer (Ext 29) 738231
Economic Office 703287
Joint Commission 703000
U.S. Information Service (USIS) 699394
Tx 3785 AMEMMUS ON

Yemen Arab Republic, Embassy of
The Box 3701 Ruwi 696965
..... 696966
H.E. The Ambassador 696604
Res 601892
Counsellor, Hussein Al-Ruhomi (Res) 796213
Second Secretary, Muzahar Mahdi Al-Homadah (Res) 799338
Attache, Ahmed Abdu Al-Hamzi (Res) 701557
Tx 5388 GHAMDAN ON

CHARGE D'AFFAIRES

Royal Netherlands, Embassy
Box 6302 Ruwi 705410
..... 705420
..... 705460
Tx 3050 NETHEMB ON

Swedish Embassy Box 3001 Ruwi 708693
..... 708694
..... 708695
Charge D'affaires/A.I 793356
Res 696838
Fax 794283
Tx 3871 SVENSK ON

Norwegian Consulate General, The Royal Box 3286 Ruwi 699861
Consul General, Svend F. Longem (Res) 600196
Acting Consul General, Knut Mathisen (Res) 600196
Tx 5751 TELEP ON

United Arab Emirates, Embassy of
Box 335
Muscat/Box 1551 Seeb 600988
..... 600302
Head of Mission 602869
Res 600939
..... 603094
Secretary 602869
Counsellor 602302
Res 601869
Secretary to Counsellor 602302
Tx 5199 EMARAT ON

CONSULATES ACCREDITED IN THE SULTANATE

Austrian Consulate Box 223
Muscat 600307
Consul General 701921
Res 600307
Vice Consul (Res) 704177
Tx 3238 ON

Belgium, Consulate
Box 4102 Ruwi 562033

Columbia, Consulate
Box 5118 Ruwi 701264

Cyprus, Consulate Box 603
Muscat 590200

Denmark, Consulate Box 4040
Ruwi 708304

Finland, Consulate of Box 84 702133
Kamal M. Daud 701454
..... 703121
Res 701138

Green Consulate Box 5031 Ruwi ... 702311

Mexican Consulate Box 415 561977
..... 561417
Sheikh Yacoub Bin Hamad Bin Suleiman Al Harthy (Res) 702303
Tx 5336 MAZOUN ON

Portugal, Consulate
Box 496 Muscat 704981

INTERNATIONAL ORGANISATIONS ACCREDITED IN THE SULTANATE

United Nations Children's Fund (Unicef) Box 6787 Ruwi 602624
..... 601398
Basim Kawash (Res) 698938
Farasha Al Akbary (Res) 799659
M. Khatri (Res) 794199
J. Hickman 600150
Tx 5719 UNICEF ON

United Nations Development Programme Box 5287 Ruwi 600685
..... 600686
..... 600687
Michael P. Hyland (Res) 561546
El Mostafa Benlamlih (Res) 600496
Kotaro Fuse (Res) 564346
Tx 5234 UNDP ON

World Health Organisation
Box 4889 Ruwi (Ext 121) 602177
(Ext 122) 602177
(Ext 129) 602177
Chief-of-Mission, Dr Pierluigi Giacometti 600989
Res 563548
Sanitary Engineer, John C.S. Bradbury (Res) 698445
Consultant (Epidemiologist), Fernando H. Sadek 699735
Tx 5465 SIHA ON

ENGINEERING EQUIPMENT & PARTS SUPPLIERS

Al Darwish Enterprises
Box 4645 Ruwi 703570
Tx 5357 MUWAFFAQ ON
Branch
Salalah 291103

Alkhalij Enterprises Box 3117 Ruwi 703385
..... 703506
Tx 3206 AUTIMP ON

Gulf Services & Industrial Supplies Co LLC Box 5250 Ruwi 701238
Tx 3176 GSIS ON

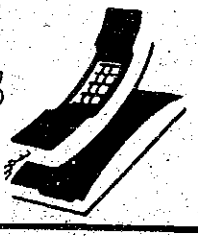
Inma Co Oman LLC
Box 3760 Ruwi 562100
..... 562096
Tx 5196 INMA ON
Branch
Salalah Box 18851 292815
Tx 7709 INMASAL ON

INSTEAD OF READING
OUR ADVERTISEMENT
THEY COULD BE
READING YOURS

Falcon
Publishing
WLL
P.O. Box 5028 Manama
Bahrain, Tel. 253162

FOR ADVERTISING IN THE

Yellow
Pages



Tel. 253162

Khimji Ramdas Automotive Division
Box 19 Muscat 562322
..... 562155
Fax 795988
Tx 3489 BROKER ON
Branch
Salalah Box 18035 290940
..... 294685
Fax 295293
Tx 7710 BROKER ON
See full page & half page colour advertisements
Maunsell Consultants Ltd
Box 5980 Ruwi 702519
Tx 3061 TROWER ON
National Oilfield Supply Co LLC
Box 5670 Ruwi 708848
Tx 3075 AOFD ON
Oilfield Supply Centre Box 5855
Ruwi 705077
..... 705086
Fax 708169
Tx 3561 OILCENTA ON
See full page colour advertisement
Technical Trading Co LLC
Box 4693 Ruwi 703515
Fax 700010
Tx 3330 TEKNICAL ON
Branch
Salalah Box 19572 294041
Fax 294120

ENGINEERING LABORATORIES

Ziadfleet Traders & Contractors
Box 4855 Ruwi 603240
Fax 602406
Tx 5502 FLEET ON

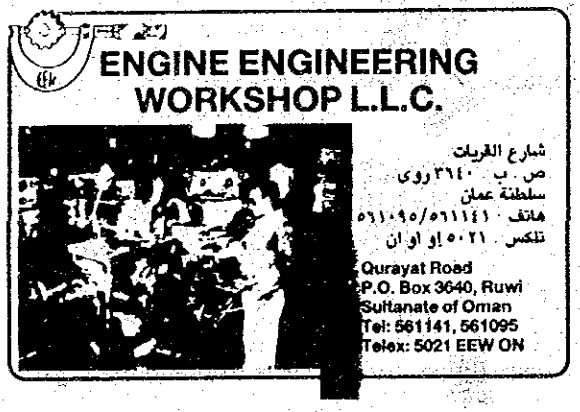
ENGINEERING MACHINE SHOPS

ENGINE ENGINEERING WORKSHOP LLC
Box 3640 Ruwi 561095
..... 561141
Tx 5021 EEW ON
See advertisement this section
General Mechanical & Technical Services Co Box 844 Muscat 592382
Tx 3312 INOMAN ON
Oman Mechanical Workshop
Box 4199 Ruwi 600697
Tx 3150 OMEC ON
Oman Oilfield Supply Centre
Box 4160 Ruwi 600179
Tx 3484 OILFIELD ON
Oman Technical Centre
Box 7079 Muttrah
Head Office 550707
..... 550708
Ruwi Eng. Machine Shop 702473
..... 702156
Tx 5489 CENTRE ON

UNITED ENGINEERING SERVICES LLC
Box 5638 Ruwi 592320
..... 592321
..... 592322
Tx 5064 UESENG ON

ENGINEERS — CIVIL CONSULTING

AESL International Ltd
Box 5825 Ruwi 704636
Manager 602506
Al-Hashmi Consulting Engineers & Architects Box 3194 Ruwi 703070
Ali Abdalla — Engineering Consultancy Office E.C.O.
Box 3540 Ruwi 703914
Tx 3302 ELECTRIC ON
Arab Engineering Bureau
Box 716 Muscat 705155
Tx 3474 TALAL ON
AUSCON CONSULTANTS LTD
Box 5927 Ruwi 562129
..... 561056
Fax 563502
Tx 5136 AUSCON ON
Barker Chapman & Partners
Box 8117 Muttrah 714598
..... 714596
Tx 5198 BARCHASO ON
Brian Colquhoun & Partners
Box 402 Muscat 702909
Tx 3129 BRICOLP ON
C.H. Dobbie & Partners
Box 3840 Ruwi 704636
Tx 3584 OTOP ON
Cansult Ltd Box 443 Muscat 601654
..... 601655
..... 601688
Tx 5382 CANSULT ON
Cementation Sico (Oman) LLC
Box 508 Muscat 701976
Tx 3415 SICO ON
Code International Box 3893 Ruwi 702104
..... 704606
Tx 3592 CODEI ON
Consulting Engineers
Box 7407 Muttrah 701430
Dar Al Tameer Box 3582 Ruwi 714026
..... 713808
Tx 3671 BARZAIN ON
Design & Construction (DESCON)
Box 3549 Ruwi 795410
..... 795411
Tx 3430 DESCON ON
Design Consultants Box 5682
Ruwi 704774
..... 793722
Tx 3671 BARZAIN ON
Dr. M.H. Ali El-Saie Consulting Engineers Box 6329 Ruwi 793542
Tx 3524/5668 SAIE MCT ON
Engineering & Power Development Consultants Ltd
Box 192 Muscat 713149
..... 600336
Tx 3258 MUSTRD ON



Fairhurst & Partners
Box 3528 Ruwi 701509
GIBB, PETERMULLER & PARTNERS Box 592 Muscat 795163
..... 795166
Fax 795325
Global Engineering (Middle East)
Box 5195 Ruwi 704555
Tx 3615 GLOBME ON
HGPI — Hedley Greentree Partnership International
Box 5233 Ruwi 798388
Tx 3536 ON
Interplan 4 SA Box 5012 Ruwi 561273
Tx 5471 INPLAN ON
Ital Consult Box 555 Muscat 701616
Tx 3388 ITALCO ON
Jabrin Engineering Consultancy Bureau Box 8128 Muttrah 794098
..... 794857
Jack & Letman Associates
Box 3250 Ruwi 794952
Tx 5316 GAYARCH ON
Kamal Ismail Consultant Box 4854
Ruwi 794481
..... 794482
Tx 3302 ELECTRIC ON
Leeyana Engineering Consulting Office Box 6978 Ruwi 709346
..... 793307
Tx 3540 ALOMRAN ON
Branches
Salalah Box 19839 295504
Nizwa Box 27265 410187
Llewelyn-Davies Weeks
Box 5246 Ruwi 701670
Tx 3229 HOTEL ON
Maunsell Consultants Ltd Box 5980
Ruwi 564499
Fax 564498
Tx 5293 CBAMUS ON
Mott, Hay & Anderson Oman (Consulting Engineers)
Box 1037 Seeb Airport 536701
..... 536544
Fax 536701
Tx 5486 ARPACO ON
Noorani Biswas Associates
Box 5133 Ruwi 713114
Tx 3398 AMMAR ON
Oman Designers LLC Box 6182
Ruwi 707265
..... 798306
Tx 3863 DESIGN ON
Pheroze Kudianavala Engineers
Private Ltd Box 3384 Ruwi 701949
Tx 3163 PKEO ON
Preece Cardew & Rider
Box 3587 Ruwi 701874
..... 704897
Tx 3021 MMP OMAN ON
Progressive Consultants Box 6658
Ruwi 704413
R Travers Morgan (Oman) Ltd
Box 5212 Ruwi 564459
..... 564460
Tx 3038 RTMOMAN ON
Saned Engineering Consulting
Box 7023 Muttrah 707246
Tx 3161 ALNAHDA ON
SCOTT WILSON KIRKPATRICK & PARTNERS Box 4961 Ruwi 701887
..... 794349
Tx 3703 SWKOMAN ON
Semac Private Ltd Box 6784 Ruwi 705956
..... 795271
Tx 3307 SEMAC ON
Shankland Cox International Ltd (Oman) Box 6250 561598
Tx 5681 SCIOMAN ON
SIR ALEXANDER GIBB & PARTNERS Box 592 Muscat 795163
..... 795166
Fax 795325
Sir M MacDonald & Partners
Box 3587 Ruwi 701874
..... 704897
Tx 3456 RUWIOTEL ON
TEST — Technical Studies Bureau
Box 4688 Ruwi 563920
..... 603921
Tx 3391 TEST ON

Triad Oman Box 4397 Ruwi 795031
..... 795017
Tx 3550 TRIAD ON
Turner Wright & Partners
Box 5046 Ruwi 560127
Tx 5086 TURNRITE ON
Valtos Box 3199 Ruwi 702509
Tx 3437 VALTOS ON
W. Hussein & Associates
Box 4127 Ruwi 701230
Tx 3249 WHA OMAN ON
W.S. Atkins International
Box 5985 Ruwi 702490
..... 798082
Fax 708086
Tx 3072 ATKINS ON
Waleed Associates
Box 437 Muscat 738101
..... 738105
Tx 3270 WALEED ON

ENGINEERS — CIVIL CONTRACTING

A.H. Rawahi & Partners Co
Box 5764 Ruwi 701503
..... 706668
Tx 3835 RAWTRA ON
A & P (Oman) LLC
Box 18207 Salalah 460869
Tx 7747 ARPACO ON
Abdul Rahim Jaffar Group of Cos
Box 8031 Muttrah 712457
Tx 5480 MAJID ON
Albert Abela (Oman) Box 654
Muscat 703057
Tx 3565 ALABELA ON
Branch
Salalah Box 18436 291058
..... 290327
Al Darwish & Al Mashani Trading & Contracting Co
Box 18289 Salalah 291684
Tx 7673 MUSDAR ON
Al Fairuz Trading & Contracting Co LLC Box 330 Muscat 561568
..... 561399
Tx 5324 ALFAIRUZ ON
Al Jizzi Co LLC Contracting & Trading Box 4704 Ruwi 704795
Tx 3058 REDHA ON
Ambola Contracting & Trading Co
Box 3158 Ruwi 704367
Tx 3355 AMBOLA ON
Amco General Trading & Contracting Co Box 3404 Ruwi 601996
..... 600085
Tx 5135 AMCO ON
Branch
Salalah Box 18311 291775
Tx 7757 AMCO ON
Azaiba Construction Co LLC
Box 4127 Ruwi 590860
..... 590880
Tx 5011 ACC ON
Balfour Beatty Construction Ltd
Box 1084 N.C.P.O. Seeb 603184
Fax 698651
Tx 5030 BALMCT ON
Bedrock Est Box 3894 Ruwi 702639
..... 703851
Tx 3142 BEDROCK ON
Bin Ameir Est Box 100 Muscat 705010
Tx 3477 ALHINAI ON
Bogest Trading & Contracting Co
Box 31 Muscat 702904
Tx 3149 RANA ON
Century Contracting Co S.A.O.
Box 8367 Muttrah 591818
Tx 5077 CENTURY ON
Commercial Contracting & Electrical Co Box 90 Muscat 705107
Tx 3656 YAROUB ON
Consolidated Contractors Co Oman LLC Box 614 Muscat (10 lines) 700800
Tx 3420 CONCO ON
Dar Al Bina Co LLC Box 6287 Ruwi 714175
..... 794865
..... 714561
Tx 3274 STAR ON

مشاريع خط الصحراء ش.م.م
DESERT LINE PROJECTS L L C
CIVIL ENGINEERING AND TRANSPORTATION CONTRACTORS
P.O. Box 4880, Ruwi, Sultanate of Oman
Head Office: Qurum – Tel: 560720
560729, 561938, 561975
Tlx: 5169 DEED ON
Contact offices: Rusayl –
Tel: 510670 (8 lines)
Tlx: 5128 DLP GTO ON
DLP Azaiba: Tel: 590206, 590504

شركة تيلر وودرو - تاول (ش.م.م)
Taylor Woodrow - Towell Company (L.L.C.)
مستشارون ومقاولون للهندسة المدنية والميكانيكية والعلمي
Building, Civil and Mechanical Engineering Contractors & Consultants
Reg. No. MO 2970 رقم التسجيل م ق ٢٩٧٠
Muscat 18 4 76 مسقط ١٩٧٦/٤/١٨
P.O. Box 5835, Ruwi, Sultanate of Oman
Head Office —
Dhofar House, Medinat Qaboos:
Tel: 603966 (6 lines)
ص.ب ٥٨٣٥ روى
سلطنة عمان
المكتب الرئيسي
بيت ظفار مدينة قابوس
هاتف ٦٠٣٩٦٦ (٦ خطوط)
Area Office — Baushar:
Tel: 591400 (5 lines)
Cable: TAYROW - MUSCAT
Telex: 5224 TAYROW ON.
Fax: 696753
مكتب المنطقة بوشر
هاتف ٥٩١٤٠٠ (٥ خطوط)
برقيا تيرو مسقط
تلكس ٥٢٢٤ تيرو او ان
فاكس ٦٩٦٧٥٣

Darwish - Ast Group of Cos
Box 223 Muscat 704177
Tx 3238 DARAST ON
Desert Line Projects LLC Box 4880
Ruwi 560729
..... 560720
Tx 5169 DEED ON
See advertisement this section
Dodsal GmbH Box 5300 Ruwi 697821
Tx 3495 DODSAL ON
Galfar Engineering & Contracting
LLC Box 533 Muscat 591055
Tx 3022 GALFAR ON
Gammon Pakistan Ltd Box 8243
Muttrah 793036
..... 793033
Tx 3014 GAMCOON
George Dew & Co Ltd
Box 4769 Ruwi 602581
..... 602583
Tx 5096 OICTRADE ON
George Wimpey & Co Ltd
Box 4436 Ruwi 702355
Tx 3240 WIMMUS ON

HAIFA CONSTRUCTION
Box 4318 Ruwi 795300
..... 704856
Tx 3137 HATRIC ON
Hyundai Engineering &
Construction Co Ltd
Box 5989 Ruwi 702180
Tx 3054 HYDOMAN ON
International Enterprises Co
Box 4744 Ruwi 590527
Tx 3482 IECO ON

J & P (OMAN) LLC
Box 603 Muscat (20 lines) 590200
Fax 590699
Tx 5242 JAYNPE ON
Branch
Salalah 210192
..... 212192
Fax 211407
See full page colour advertisement
Laing Oman LLC Box 6006 Ruwi 591650
..... 591651
Tx 5302 LAING ON
Lavori Oman LLC Box 4468 Ruwi 575855
Fax 575903
Tx 5697 LAVORI ON
Branches
Salalah Box 19099 211494
..... 210015
Tx 7650 LAVORI ON
Sur Box 30451 440447
See full page colour advertisement
Mohsin Haider Darwish Box 3880
Ruwi 703411
Fax 793256
Tx 3230 LUJAINA ON
Mohsincat Ltd Box 475 Muscat 703919
Tx 3241 M/CAT ON
Nasr Arabian Co
Box 18122 Salalah 291756
..... 292935
Tx 7660 NASR ON

National Engineering & Contracting
Co Box 4102 Ruwi 562440
..... 563447
..... 563449
Tx 5753 NECC ON
Omak Travo LLC Box 995 Muscat 601127
Tx 3409 TRAVOMAK ON
Oman Building & Contracting Co
Ltd (OBCO) Box 3915 Ruwi 563085
..... 563933
Tx 5312 INOMAN ON
Oman Engineering & Contracting
Box 440 Muscat 706606
Tx 3457 UNTER ON
Oman Trading Contracting &
Industries Ltd Box 3826 Ruwi 701311
Tx 3332 GENETCO ON
Oman Trading Engineering Est
(OTEE) Box 535 Muscat 705378
Tx 3066 OTEE ON
Oman Transport & Contg Co
Box 564 Muscat 701155
..... 704014
Tx 3251 OTCCO ON
Omani Est for Agricultural
Development & Contracts
Box 4924 Ruwi 704791
..... 705384
Fax 709426
Tx 3167 ZAHARA ON
Oriental General Trading
Contracting Co Box 3359 Ruwi 701907
Tx 3194 ORINTAL ON
Pauling (Oman) LLC Box 4114
Ruwi 714691
Tx 5386 RASASI ON
Phoenician Engineering &
Contracting Co Box 658 Muscat 702826
..... 704475
Tx 3474 TALAL ON
Qais Omani Est Box 656 Muscat 714939
Tx 3300 QAISOMAN ON
Qurum Contractors
Box 7003 Muttrah 562922
..... 562821
..... 562720
Tx 3232 ZAWAWI ON
Rasmia Enterprises
Box 4484 Ruwi 704720
Tx 3010 RASMIA ON
Rawahi Enterprises
Box 3216 Ruwi 702628
Sabdutco LLC Box 8481 Muttrah 795764
..... 795765
Tx 3350 SABDUTCO ON
Salalah Construction & Trading Co
Box 18044 Salalah 291291
Tx 7674 CONTRACO ON
Sam Trading Box 4413 Ruwi 601682
..... 603871
Tx 5534 ELMEC ON
Shanfari - Birse (Oman) LLC
Box 6378 Ruwi 704285
Tx 3063 BIRSE ON
Shanfari Trading & Contracting Co
Box 783 Muscat 702560
..... 702576
Tx 3321 SHANFARI ON
Branch
Saham 648177

TAYLOR WOODROW — TOWELL CO (LLC) Box 5835 Ruwi
(6 lines) 603966
Fax 696753
Tx 5224 TAYROW ON
See advertisement this section
United Contracting Co Box 18181
Salalah 290548
..... 292476
Tx 7605 MUTAHEDA ON
Vesi-Pekka Oy Box 3585 Ruwi 700619
Tx 3104 JESTCO ON
Wimpey Alawi LLC Box 4436 Ruwi 590347
Tx 3240 WIMMUS ON
YAHYA COSTAIN LLC
Box 5282 Ruwi (10 lines) 591366
Fax 591981
Tx 5218 COSDON ON

ENGINEERS — CRANE TESTING

Sarooj Safety Services Box 1902
Seeb Airport 601156
..... 601046
A. Woodyatt (Res) 602928
Tx 5295 SAFETY ON

ENGINEERS — DIESEL, MARINE & GAS TURBINE

ZAWAWI POWER ENGINEERING
LLC Box 3981 Ruwi 590228
..... 590327
Fax 590227
Tx 5094 HSPEMO ON
Zawawi Trading Co Box 58 Muscat 562077
Tx 5232 ZAWAWI ON
Branch
Salalah Box 18735 210159
Tx 7717 ZAWAWI ON
See full page colour advertisements

ENGINEERS — ELECTRICAL

Al Hassan Trading & Contracting
Box 4948 Ruwi 700575
Fax *704233*
Tx 3589 ALHASSAN ON
Al-Imar Enterprises Box 4718 Ruwi 705525
..... 701102
Tx 3076 ALIMAR ON
Al Jizzi Co LLC Box 4704 Ruwi 702057
Tx 3058 REDHA ON
Auscon Consultants Ltd Box 5927
Ruwi 562129
..... 561056
Fax 563502
Tx 5136 AUSCON ON
Crown Darwish Engineering
(Oman) LLC Box 3729 Ruwi 704469
Tx 3238 DARAST ON

Drake & Scull Assarain (LLC)
Box 3146 Ruwi *602622*
Tx 3505 DASMUS ON
Branch
Salalah Box 18853 463843
GALFAR ENGINEERING &
CONTRACTING LLC Box 533
Muscat 703286
..... 591055
Fax 591676
Tx 5022 GALFAR ON
Industrial Erectors (Oman) LLC
Box 8125 Muttrah 712233
Tx 5322 ERECTORS ON
Mechel Contractors Co LLC
Box 5033 Ruwi 590264
Tx 5531 MECHEL ON
NATIONAL ELECTRICAL
SERVICES CO LLC Box 5749
Ruwi 796236
Fax 799169
Tx 3719 NES ON
Oman Services & Supply
Organisation (OSSO)
Box 437 Muscat 738397
..... 737693
Tx 5038 OSSO ON
Projects International Box 3037
Seeb Airport 563701
Tx 3486 ARBACO ON
Tiney Simons (International) Ltd
Box 970 Muscat 794951
..... 794990
Tx 5316 GAYARCH ON
Universal Engineering Services
LLC Box 5686 Ruwi 712470
Service Centre *601304*
Tx 5712 UNIENG ON
VITA ELECTRICAL &
MECHANICAL LLC Box 8195
Muttrah 797187
..... 797189
Fax 708709
Tx 3252 VITA ON
Voltamp Electricals Ltd
Box 4237 Ruwi 703311
..... 703326
Tx 3166 VOLTAMP ON
Wescon International B.V.
Box 8513 Muttrah 703484
Tx 3176 GSIS ON
Zawawi Power Engineering LLC
Box 3981 Ruwi 590228
..... 590327
Fax 590227
Tx 5094 HSPEMO ON
Zawawi Trading Co Box 58 Muscat 562077
Tx 5232 ZAWAWI ON
Branch
Salalah Box 18735 210159
Tx 7717 ZAWAWI ON
ZUBAIR KILPATRICK LLC
Box 4999 Ruwi *590577*
Fax 590811
Tx 5143 ZUTRICK ON
Branch
Salalah 462170

ENGINEERS — ELECTRONIC

OHI Telecommunications
Box 889 Muscat 702666
..... 703862
Tx 3168 AMMAR ON
Tech-Care Electronics Box 5919
Ruwi 794897
Fax *795479*
Tx 5330 AVFCO ON

Yellow Pages
P.O. Box 5028 Manama
Bahrain, Tel. 253162

ABDULLA MUKADAM
ARCHITECTS • ENGINEERS
PLANNING CONSULTANTS

RUWI OFFICE
NEAR RUWI POLICE STATION
P.O. BOX: 5877, RUWI
TEL: 700736/700737

NIZWA BRANCH
NEAR SALAH SHOPPING CENTRE, NIZWA
P.O. BOX: 26870, NIZWA
TEL: 410558

SOHAR BRANCH
OPP. SOHAR MUNICIPALITY
OFFICE, HAMBAR
P.O. BOX: 12958, SOHAR
TEL: 840549

SUR BRANCH
AT SUR SOUK
P.O. BOX: 30290, SUR

WS/Atkins

- ARCHITECTURE
- BUILDING SERVICES ENGINEERING
- CIVIL ENGINEERING
- COMPUTER SYSTEMS
- ECONOMIC AND INDUSTRIAL PLANNING
- ELECTRICAL ENGINEERING
- ENVIRONMENTAL ASSESSMENT
- HYDROGEOLOGICAL STUDIES AND IRRIGATION ENGINEERING
- INFRASTRUCTURE PLANNING
- INSPECTION AND NON-DESTRUCTIVE TESTING
- LAND SURVEYING
- MECHANICAL ENGINEERING
- PROJECT MANAGEMENT
- STRUCTURAL ENGINEERING
- TRANSPORTATION ENGINEERING
- WATER AND WASTE TREATMENT ENGINEERING

WS Atkins International
PO Box 5985 Ruwi Muscat Sultanate of Oman
Tel: 702490/798062 Telex 3072 ATKINS ON

غريب وشركاه
GHARIB ASSOCIATES
ARCHITECTS & CONSULTING ENGINEERS

HEAD OFFICE – RUWI TEL: 703629
P.O. BOX 3283 RUWI, SULTANATE OF OMAN

BRANCHES – BURAIMI TEL: 650469
SOHAR TEL: 840226
BARKA TEL: 629187

ASSOCIATED COMPANIES:
- GHARIB ASSOCIATES FOR REAL ESTATE SERVICES
- OMAN SHIPCHANDLERS
- ABA – AUF & CO.

HONDA RD.
INTISAR CORP
WAY 4331
GHARIB ASSOCIATES OFFICE BUILDING NO. 2328
SABIR SUPERMARKET
SMG PHARMACY
RUWI HIGH ST.
FROM HAMRIA ROUNDABOUT

جبرين
مكتب جبرين للاستشارات الهندسية
مهندسون معماريون واستشاريون
Jabrin Engineering Consultancy Bureau
Chartered Engineers & Architects
احدى المكاتب الهندسية الوطنية الرائدة في مجال التصميم والاشراف على جميع المباني السكنية والتجارية
One of the leading Omani consultants in design supervision of private & commercial buildings
ص.ب ٨١٢٨ مطرح سلطنة عمان
هاتف ٧٩٤٠٩٨ ٧٩٤٨٥٧
PO Box 8128, Mutrah, Sultanate of Oman
Telephone: 794098, 794857

PANORAMA بانوراما
مهندسون معماريون واستشاريون
ARCHITECTS & CONSULTING ENGINEERS
• عمل التصاميم والاشراف على جميع انواع الاستشارات التجارية والسكنية والصناعية
• مسح العقارات والاراضي والتقسيم والتثمين
• A COMPREHENSIVE DESIGN AND SUPERVISION CONSULTANCY FOR COMMERCIAL, RESIDENTIAL & INDUSTRIAL PROJECTS AND LAND SUBDIVISIONS
• RECOGNISED ESTATE VALUERS AND SURVEYORS
P.O. BOX 7377, MUTTRAH
RUWI HIGH ST., SULTANATE OF OMAN
TEL: RUWI 707622, SALALAH 293622
ص.ب ٧٣٧٧ مطرح
شارع روى العام سلطنة عمان
هاتف ٧٠٧٦٢٢ – صلالة ٢٩٣٦٢٢

ENGINEERS — GENERAL CONSULTANTS

Abdulla Mukadam (Architects)
Box 5877 Ruwi 700736
..... 700737
Branch
Nizwa Box 26870 410558
Sohar Box 12958 840549
See advertisement this section
Al-Hashmi Consulting Engineers & Architects Box 3194 Muscat 703070
Tx 3128 IBRIINT ON
Arab Engineering Bureau
Box 716 Muscat 705155
Tx 3474 TALAL ON
Attfield & Jones (Oman) Box 3639 702869
..... 700369
Tx 3407 OMANDICO ON
Barker Chapman & Partners
Box 8117 Muttrah 714598
..... 714596
Tx 5198 BARCHASO ON
Brian Colquhoun & Partners
Box 402 Muscat 702909
Tx 3129 BRICOLP ON
CANSULT LTD Box 443 Muscat 601654
..... 601655
Fax 601686
Tx 5382 CANSULT ON
Compromo Engineering Consultancy Box 4160 Ruwi 561000
Tx 5653 COMPROM ON
Consulting Engineering Group
Box 6548 Ruwi 706202
Fax 799341
Tx 3650 SADOONCO ON
Consulting Engineering Services (India) Pvt Ltd Box 949 Muscat 705152
Dar Al-Handasah Consultants (Shar & Partners) Box 4122 Ruwi 794036
Tx 3177 DARSAH ON
Engineering & Power Development Consultants Ltd Box 5124 Ruwi 703806
Tx 3258 MUSTRD ON
Fugro International B.V.
Box 6489 Ruwi 602290
..... 702666
Tx 5640 FUGROM ON
Gharib Associates Box 3283 Ruwi 703629
Cable GHARIB
See advertisement this section
Gulf Engineering Consultancy LLC
Box 487 Muscat 705679
Interplan 4 SA Box 5012 Ruwi 561273
Tx 5471 INPLAN ON
J & A Philippou, Architects – Engineers Box 8206 Muttrah 703442
..... 799492
Tx 3730 JAPHIL ON
Branch
Seeb Airport Box 1051 590381
..... 590753

Jabrin Engineering Consultancy Bureau Box 8128 Muttrah 794098
..... 794857
See advertisement this section
Jack & Letman Associates
Box 3250 Ruwi 794952
Tx 3316 JAYARCH ON
John Snellgrove Associates
Box 783 Muscat 795169
Salalah 291640
Tx 3587 JSAOMAN ON
LEEYANA ENGINEERING CONSULTING OFFICE
Box 6978 Ruwi 709346
Tx 3540 ALOMRAN ON
Branch
Salalah Box 19839 295504
Majan Engineering Consultants
Box 5973 Ruwi 704945
Tx 3159 WIDTROLL ON
Maunsell Consultants Ltd Box 5980
Ruwi 564499
Fax 564498
Tx 5293 ON
Muamir Design & Engineering Consultancy Box 6271 Ruwi 704021
..... 707594
Panorama — Architects & Consulting Engineers Box 7377 Muttrah
Ruwi 707622
..... 700109
Salalah 293622
Tx 3101 ANAP ON
See advertisement this section
Phoenician Engineering & Contracting Co Box 658 Muscat 702826
..... 704475
Tx 3474 TALAL ON
Projects International
Box 3037 Ruwi 563701
Tx 3486 ARPACO ON
R Travers Morgan (Oman) Ltd
Box 5212 Ruwi 564459
..... 564460
Tx 3038 RTMOMAN ON

Valtos Architects Box 3199 Ruwi 708457
Tx 3437 VALTOS ON
Velco Inspection GmbH
Box 4160 Ruwi (6 lines) 602044
Tx 3484 OILFIELD ON
Viak AB Box 607 Muscat 705311
Tx 3246 INGVIAK ON
W.S. ATKINS INTERNATIONAL
Box 5965 Ruwi 702490
..... 796082
Fax 708086
Tx 3072 ATKINS ON
See advertisement this section

ENGINEERS — INSPECTION

Lloyd's Register of Shipping
Box 5715 Ruwi 704965
Tx 3215 OUA ON
U.E.S. — COOPERHEAT DIVISION Box 5638 Ruwi 592326
Tx 5064 UESENG ON
United Engineering Services LLC
Box 5638 Ruwi 592141
Workshop 592137
Tx 5064 UES ENG ON
Velco Inspection GmbH
Box 4160 Ruwi (6 lines) 602044
Tx 3484 OILFIELD ON

ENGINEERS — INSTRUMENTATION

Al Hassan Trading & Contracting Co Box 4948 Ruwi 700575
Fax 704233
Tx 3589 AL HASSAN ON
See full page colour advertisement
Al-Imar Enterprises Box 4718 Ruwi 705525
..... 701102
Tx 3076 ALIMAR ON

Oman Oil Industry Supplies Services Co LLC Box 35
Ruwi 590061
..... 590063
Fax 590131
Tx 5161 OOSIS ON
Oman Oilfield Supply Centre
Box 4160 Ruwi 600179
Tx 3484 OILFIELD ON
WESCON (OMAN) LLC
Box 8513 Muttrah 591490
..... 591489
Fax 592067
Tx 5507 WESCON ON

Zubair Kilpatrick LLC Box 4999
Ruwi 590577
Fax 590811
Tx 5143 ZUTRICK ON
Branch
Salalah 462170

ENGINEERS — MARINE

Lloyd's Register of Shipping
Box 5715 Ruwi 704965
Tx 3215 OUA ON
Muscat Commercial Agencies LLC
Box 4050 Ruwi 591137
..... 591138
Tx 3258 ZUBAIR ON
OHI Marine Div Box 889 Muscat 712422
Tx 3398 AMMAR ON
Vesi-Pekka Oy Box 3585 Ruwi 700619
..... 702647
Tx 3104 JESTCO ON

ENGINEERS — MECHANICAL & TECHNICAL

A & P (Oman) LLC
Box 688 Muscat 536066
..... 536206
Tx 5486 ARPACO ON
Branch
Salalah Box 18207 294655
..... 460755
..... 460869
Al Hassan Trading & Contracting
Box 4948 Ruwi 700575
Fax 704233
Tx 3589 ALHASSAN ON
see full page colour advertisement
Baushar Technical Centre
Box 7197 Muttrah 591070
Tx 5214 TOWEL ON
Bedrock Est Box 3894 Ruwi 702639
..... 703851
Tx 3142 BEDROCK ON
Crown Darwish Engineering (Oman) LLC Box 3729 Ruwi 704469
Tx 3238 DARAST ON
Drake & Scull Assarain (LLC)
Box 3146 Ruwi 602622
Tx 3505 DASMUS ON
Branch
Salalah Box 18853 463843
El-Sukry Establishments Box 3855 Ruwi
Al Khuwair 603064
Ruwi 701693
Tx 5068 ELSUKRY ON
See full page colour advertisement
GENERAL MECHANICAL & TECHNICAL SERVICES CO (G.M.T.S.C.) Box 4520 Ruwi 590382
..... 590543
Tx 5096 OICTRADE ON
See advertisement this section

شـــركة الخـــدمـــات الميـــكانيكيـــة والفنيـــة العامـــة

GMTSC

General Mechanical & Technical Services Co.

P.O. Box 4520 RUWI Tel: 590382/590543 Telex: 5096 O.I.C. TRADE ON

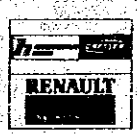
SERVICING FOR ALL TYPES OF VEHICLES

Major Workshop

Largest and best equipped Automobile Workshop and Servicing Centre in the Sultanate of Oman with skilled mechanics under European supervision.

OFFERING — MAINTENANCE, REPAIRS & MACHINING FACILITIES FOR:

- Light and Heavy Duty Vehicles
- Engine overhaul
- Engine Boring & Crankshaft Grinding
- Gearbox and differential Repairs
- Tuning facilities
- Wheel Alignment and Balancing
- Denting and Painting
- Heavy and Light Fabrication
- Milling and Boring
- Shaping, Facing and Drilling
- Air Conditioner Repairs
- Mains Electrical Repairs
- Marine repairs on Light Craft
- Approved Marine survival equipment Workshop.



Global Chemical Systems Ltd
Box 5114 Ruwi 704168
Tx 3480 GLOCHEM ON
Gulf Commercial Centre
Box 4615 Ruwi 705679
Tx 3657 MA-AMARY ON
Industrial Erectors (Oman) LLC
Box 6125 Muttrah 712233
Tx 5322 ERECTORS ON
Mechel Contractors Co LLC
Box 5033 Ruwi 590284
Tx 5531 MECHEL ON
Oman Mechanical Services Co Ltd
Box 4199 Ruwi 562937
..... 562691
Tx 3150 OMEC ON
Oman Oilfield Supply Centre
Box 4160 Ruwi 560178
Tx 3484 OILFIELD ON
Sabco LLC Box 6779 Ruwi 704186
..... 708267
..... 700854
Fax 700857
Tx 3380/3729 SABCO ON
Shanfari Engineering Services
Box 783 Muscat 610150
..... 610096
Tx 3321 SHANFARI ON
TAYLOR WOODROW — TOWELL CO (LLC) Box 5835 Ruwi
(6 lines) 603966
Fax 696753
Tx 5224 TAYROW ON
Tilney Simmons (International) Ltd
Box 970 Muscat 794951
..... 794990
Tx 5316 GAYARCH ON
Universal Engineering Services
LLC Box 5688 Ruwi 712470
Service Centre 601304
Tx 5712 UNIENG ON
VITA ELECTRICAL & MECHANICAL LLC Box 8195
Muttrah 797187
..... 797189
Fax 708709
Tx 3252 VITA ON
Voltamp Electricals Ltd
Box 4237 Ruwi 703311
..... 703326
Tx 3166 VOLTAMP ON
Wescon International B.V
Box 8513 Muttrah 703484
Tx 3176 GSIS ON
Yahya Costain LLC Box 5282 Ruwi 591366
..... 591586
Tx 3218 COSDON ON
Zawawi Power Engineering LLC
Box 3981 Ruwi 590228
..... 590327
Fax 590227
Tx 5094 HSPEMO ON
Zubair Kilpatrick LLC
Box 4999 Ruwi 590577
Fax 590811
Tx 5143 ZUTRICK ON
Branch
Salalah 462170

ENGINEERS — PETROLEUM

Comprimo Engineering
Consultancy Box 4160 Ruwi 561000
Tx 5653 COMPROM ON
Global Engineering (M.E.)
Box 5195 Ruwi 560936
Tx 3615 GLOBME ON

ENGINEERS — POWER TRANSMISSION

Al Hassan Trading & Contracting
Co Box 4948 Ruwi 700575
Fax 704233
Tx 3589 AL HASSAN ON
See full page colour advertisement

Al-Imar Enterprises Box 4718 Ruwi 705525
..... 701102
Tx 3078 ALIMAR ON
VITA ELECTRICAL & MECHANICAL LLC Box 8195
Muttrah 797187
..... 797189
Fax 708709
Tx 3252 VITA ON
Voltamp Electricals Box 4237 Ruwi 703311
..... 703326
Tx 3166 VOLTAMP ON
Zawawi Power Engineering LLC
Box 3981 Ruwi 590228
..... 590327
Fax 590227
Tx 5094 HSPEMO ON
Zubair Kilpatrick LLC Box 4999
Ruwi 590577
Fax 590811
Tx 5143 ZUTRICK ON
Branch
Salalah 462170

ENGINEERS — QUALITY CONTROL

Velco Inspection GmbH
Box 4160 Ruwi (6 lines) 602044
Tx 3484 OILFIELD ON

ENGINEERS — STRUCTURAL

AUSCON CONSULTANTS LTD
Box 5927 Ruwi 562129
..... 561056
Fax 563502
Tx 5136 AUSCON ON
Industrial Erectors (Oman) LLC
Box 6125 Muttrah 712233
Tx 5322 ERECTORS ON
Jack & Letman Associates
Box 3250 Ruwi 794952
Tx 5316 GAYARCH ON
Maunsell Consultants Ltd Box 5980
Ruwi 564499
Fax 564498
Tx 5293 ON
Semac Private Ltd Box 6784 Ruwi 705956
..... 795271
Tx 3307 SEMAC ON
W. Hussein & Associates Box Ruwi 701230
Tx 3593 ON

ENGINEERS — TELECOMMUNICATIONS

OHI Telecommunications LLC
Box 889 Muscat 703862
Tx 3168 AMMAR ON
Norconsult A.S.
Telecommunications Box 3286
Ruwi 699861
Tx 3570 TELEP ON
WACOM Box 5805 Ruwi 703802
..... 703962
Tx 3603 WACOM ON

ENGINEERS — WATER TREATMENT

AUSCON CONSULTANTS LTD
Box 5927 Ruwi 562129
..... 561056
Fax 563502
Tx 5136 AUSCON ON
GETCO ENGINEERING CO LLC
Box 84 Muscat 705080
Tx 3278 GETCO ON
Shariket Fanniya (Omaniya
(Muscat) LLC Box 4949 Ruwi 704400
Tx 3227 FANNIYA ON

Sogex Contracting & Trading Co
Box 670 Muscat 563055
Tx 3282 SOGEX ON
VITA ELECTRICAL & MECHANICAL LLC Box 8195
Muttrah 797187
..... 797189
Fax 708709
Tx 3252 VITA ON
Zubair Kilpatrick LLC Box 4999
Ruwi 590577
Fax 590811
Tx 5143 ZUTRICK ON
Branch
Salalah 462170

Yellow Pages
P.O. Box 5028 Manama
Bahrain, Tel. 253162

ENGRAVERS

Al Falaj Neon Signs Box 7218
Muttrah 701302
Al Mohanad Advertising Box 6610
Ruwi 794434
Fax 798126
See advertisement this section
Nauman Enterprises
Box 4722/4795 Ruwi 796443
Tx C-o 3607 WASTE ON
National Printers LLC Box 3422
Ruwi 701755
..... 709844
Tx 3789 INCOM ON

ESTATE AGENTS

Abdullah Al Hashar Commercial
Services Co Box 3722 Ruwi 704197
..... 702944
Cable ALWASEEL
Abu Hisham Trading & Cont. Est
Box 4182 Ruwi 794838
..... 700440
Tx 3282 HISHAM ON
See advertisement this section
Al Bustan Real Estate Co Box 6968
Ruwi 701431
Al-Darab & Sons Co
Box 6597/8104 Muttrah 602156
..... 698134
Tx 5124 ALDARAB ON
See advertisement this section
Al-Habib & Co Ltd Box 5663 Ruwi 708112
..... 701866
Tx 3663 HABIBENT ON
See advertisement this section
Ali & Maqbool Trading Co
Box 5584 706724
Associated Enterprises (Assent
Estate Agents) Box 5087 Ruwi 707997
..... 704372
Tx 3684 ELBUALY ON
Cluttons Box 4475 Ruwi 564250
..... 564251
Fax 564296
Tx 5293 ASSRAIN ON
Commercial Services Centre
Box 5959 Ruwi 700404
Fax 709528
Tx 3299 MALFARSI ON
Faiq Traders Box 7067 Muttrah 712973
..... 712102
..... 713606
Tx 5610 HAND ON
Gulf Commercial Centre
Box 4615 Ruwi 705679
Tx 3657 MA-AMARY ON

ENGRAVING & ETCHING
ON PLASTIC, BRASS, STAINLESS STEEL & MARBLE
TRAFFIC SIGNS
NEON & PLASTIC SIGNS
SIGN WRITING & SCREEN PRINTING
المهند للإعلانات
AL MOHANAD ADVERTISING
Shinass St. (Way 4359/143) Shop 4323, Ruwi
P.O. Box 6610 Ruwi, Sultanate of Oman
Fax: (968) 798126
TEL: 794434

JICA