

UAE Infrastructure Overview (Roads & Bridges, Airports, Ports and Railways) Market Study



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UAE Infrastructure Overview (Roads & Bridges, Airports, Ports and Railways)

MARKET STUDY

This report contains 241 pages and prepared by
Ventures Middle East LLC
March 2006

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EXECUTIVE SUMMARY

1.1 PROJECT OVERVIEW

Ventures Middle East L.L.C was invited to carry out a market study on the Infrastructure developments in the United Arab Emirates (UAE), particularly on Roads & Bridges, Airports, Ports and Railways for The Embassy of Italy in Abu Dhabi. The report will aid Italian companies aiming to set up business in the UAE and penetrate the infrastructure and transportation sector.

The research objectives of the Customised Market Research Analysis report in the UAE are as follows;

- UAE Economic and Demographic Indicators
- UAE Infrastructure Overview
- Market Size & Structure
- Roads & Bridges – Major Clients, Consultants, Contractors and Projects
- Airports – Major Clients, Consultants, Contractors and Projects
- Ports – Major Clients, Consultants, Contractors and Projects; Port Privatisation Overview
- Railways & Monorails – Major Clients, Consultants, Contractors and Projects
- Major Developments in the Infrastructure Projects Sector in 1st, 2nd, 3rd and 4th Quarters of 2005 and in the 1st quarter of 2006
- Operating in the UAE
- Conclusions & Recommendations

1.2 UAE INFRASTRUCTURE OVERVIEW

Airports

- There are six international airports located in the emirates of Abu Dhabi, Dubai, Sharjah, Fujairah, and Ras Al Khaimah.
- Major investments are planned or underway for the expansion of existing airports, as well as construction of new capacity in the country. Dubai's airport expansion portfolio includes addition of a new terminal at the existing International airport and construction of a new Airport City in Jebel Ali. Abu Dhabi

has also embarked on construction of a new terminal to accommodate the planned fleet expansion of Etihad Airways. Expansion is either underway or planned at Sharjah, Ras Al Khaimah and Fujairah while Ajman is focusing on construction of a new facility.

Ports

- There are eleven commercial ports in U.A.E; Al Fujairah, Khor Fakkan, Rashid, Jebel Ali, Zayed, Saqr, Al Jazeera, Ras Al Khaimah Port, Ajman, Khalid and Hamariya.
- Expansion schemes are underway or planned in almost all the ports in the country. Abu Dhabi officially unveiled plans on 14th January 2006 to build the estimated AED 8,000 million (US\$2,100 million) Khalifa Port & Industrial Zone at Taweelah in Abu Dhabi. Dubai Ports Authority (DPA) is planning a Dhs.4,200 million (US\$1,100 million) expansion programme to boost the capacity of Jebel Ali container terminal to 21.8 million 20-foot equivalent units (TEUs) by 2020. Ras al-Khaimah (RAK) is planning to invest US\$1,000 million to expand the emirate's port infrastructure.

Roads & Bridges

- The paved highways in UAE total to 4,030 kilometers by the end of 2003. There are 7 major bridges in UAE, 3 in Abu Dhabi (2 Maqta bridges and 1 Mussafah bridge), 3 in Dubai (Shindagha, Al Maktoum and Garhoud) and another major bridge in Ras Al Khaimah.
- The emirate of Dubai will spend more than Dhs.25 billion (US\$6.8 billion) to improve the city's road, traffic and transport services by 2008. The plan has allocated Dhs.15 billion (US\$4.08 billion) for Dubai Metro and Dhs.10 billion (US\$2.72 billion) for roads, traffic and public transport. Dubai will spend Dhs.3.5 billion in 2006 to build new roads and bridges in addition to improving the existing road network to ease traffic congestion. A separate Dhs.1 billion (US\$272 million) has been allocated for the Al Sufouh road network improvement project.
- The emirate of Abu Dhabi spends over US\$1 billion annually on the roads sector alone. By 2020, every road and street in the capital will be turned into four-lane carriageways.
- Another long-awaited project to ease traffic congestion on Dubai's most congested road Al Ittihad Road between Sharjah and Dubai was launched in March 2006. Construction of the Dhs.700 million (US\$190 million) Al Ittihad Road project is expected to commence in 2006 and will be completed in two years. In the Northern Emirates, the Ministry of Public works is embarking on a Dhs.900 million highway project to link Sharjah and Fujairah.

Railways & Monorail

- There is currently no railway infrastructure in the whole country.
- Dubai is likely to get at least eight monorails in addition to the Dubai Light Rail project. The privately funded and developed monorails will primarily cater to the neighbourhoods and operate as feeder services to the Dubai Light Rail system, which will be completed in two phases by 2012. Four of them, one on The Palm Jumeirah, a second in Dubai International Financial Centre, a third in the City of Arabia at Dubailand and the fourth in Jebel Ali Airport City, have been confirmed. Four others are being studied. The other four are likely to be built in Dubai Waterfront, the Burj Dubai complex, The Palm Deira and Dubai Festival City.
- An all-German consortium of Dornier Consulting, Deutsche Gesellschaft für Technische Zusammenarbeit (GTZ) and DE-Consult has completed a pre-feasibility study for the 700km long Emirates Railway project initiated by the Abu Dhabi Department of Planning & Economy. The same consortium is now undertaking a second stage study on the project which is due to be completed in September 2006.
- The GCC Transport Ministers in October 2004 has given the go-ahead for a commissioning study to establish a GCC rail network connecting all the six GCC countries - UAE, Saudi Arabia, Qatar, Oman, Bahrain and Kuwait. The GCC technical coordinating committee is expected to issue a tender for a full feasibility study on the estimated US\$5,500 million project in 2006. An ambitious railway network extending in a giant loop from the Syrian/Turkish border, through Iraq and along the Arabian Peninsula's Gulf, Arabian Sea and Red Sea coasts is also being discussed which will have the seven UAE emirates connected to the loop.

1.3 MARKET SIZE & STRUCTURE

- The estimated total value of Roads & Bridges, Airports, Ports, Railways & Monorail projects in the various stages of development in UAE is estimated at US\$36,943 Million for all emirates. The emirate of Dubai represents 59.47% of the total estimated value followed by Abu Dhabi at 30.93%, Sharjah at 2.89%, Ajman at 2.81%, Ras Al Khaimah at 1.97%, Fujairah at 1.49% and Umm Al Quwain at 0.44%.
- The total market value for new Roads & Bridges, Airports, Ports, Railways & Monorail construction projects awarded/expected to be awarded to main contractor in the UAE for the period 2006 to 2008 is estimated at US\$17,756 Million. The contractor awards for airport projects accounts for 56.67% (US\$10,061 Million) during the period 2006 to 2008, witnessing an average annual growth rate of 60.39%. The contractor awards for Roads & Bridges represents 30.43% (US\$5,404 Million) witnessing an average annual decline rate of 41.98%. The contractor awards for Ports represents 10.90% (US\$1,936 Million) witnessing an average annual growth rate of 250.3%. The remaining 2% (US\$355 Million) is attributed to awards on Railways & Monorail projects.

1.4 ROADS & BRIDGES

1.4.1 MAJOR ROADS & BRIDGES CLIENTS IN THE UAE

The following are the major Roads and Bridges clients in the UAE:

1. Abu Dhabi Municipality
2. Al Ain Municipality
3. Dubai Municipality – Dubai Road Transport Authority
4. Ministry of Public Works & Housing
5. Sharjah Municipality
6. Ajman Municipality
7. Fujairah Municipality
8. Ras Al Khaimah Municipality
9. Umm Al Quwain Municipality

1.4.2 MAJOR ROADS & BRIDGES CONSULTANTS IN THE UAE

The following are the major Roads and Bridges consultants in the UAE:

1. Ace International
2. Ahmed Abdul Warith
3. Al Torath Engineering Consultants
4. Al Burj Engineering Consultants
5. Cansult Limited
6. Concer Consulting Engineering Services
7. Dorsch Consult
8. Frederic R. Harris
9. Gibb Limited
10. Halcrow International Partnership
11. High Point Rendel
12. Hyder Consulting Middle East Limited
13. Italconsult
14. Jouzy & Partners
15. Maunsell Consultancy Services
16. Parkman Cosultants Limited
17. Parsons De Leuw Cather International
18. Systra
19. Wilbur Smith & Associates

1.4.3 MAJOR ROADS & BRIDGES CONTRACTORS IN THE UAE

The following are the major Roads and Bridges contractors in the UAE:

1. ADMAK General Contracting
2. Al Fahajan Transport & General Contracting Company
3. Al Jaber Transport & General Contracting Establishment
4. Al Muhairy General Contracting
5. Al Nuaimi Group
6. Arabtec Constructions
7. Archirodon Construction Overseas
8. Ascon
9. Athena Construction
10. Bin Hafeez General Contracting & Transportation
11. Copri Constructions
12. Darwish Engineering Emirates
13. Dutco Balfour Beatty
14. Emirates Road Contracting
15. Ghantoot Contracting
16. Hilalco LLC
17. Overseas AST Company Limited
18. Port Saeed Transport & Building Contracting Company
19. Saif Bin Darwish
20. Saudi Binladin Group
21. Sharjah General Contracting
22. Six Construct
23. Taisei Corporation
24. Wade Adams
25. Nurol LLC
26. National Wheel J&P

1.4.4 MAJOR ROADS & BRIDGES PROJECTS IN THE UAE

The projects are explained in detail in Section 3.4.4 and Appendix A.

1.5 AIRPORTS

1.5.1 MAJOR AIRPORT CLIENTS IN THE UAE

The following are the major Airport clients in the UAE:

1. Supervision Committee for Expansion of Abu Dhabi Airport
2. Department of Civil Aviation, Al Ain
3. Department of Civil Aviation, Dubai
4. Department of Civil Aviation, Sharjah
5. Ajman Municipality
6. Department of Civil Aviation, Fujairah
7. Department of Civil Aviation, Ras Al Khaimah

1.5.2 MAJOR AIRPORT CONSULTANTS IN THE UAE

The following are the major Airport consultants in the UAE:

1. Aeroports de Paris
2. Dar Al Handasah
3. Khatib & Alami
4. Halcrow International Partnership
5. Skidmore Owings & Merrill
6. Gutteridge Haskins & Davey

1.5.3 MAJOR AIRPORT PROJECT MANAGEMENT COMPANIES IN THE UAE

The following are the major Airport project management companies in the UAE:

1. Parsons International
2. Dar Al Handasah
3. Aeroports de Paris
4. Projacs

1.5.4 MAJOR AIRPORT CONTRACTORS IN THE UAE

The following are the major Airport contractors in the UAE:

1. Al Habtoor-Murray & Roberts

2. Al Naboodah Laing O' Rourke
3. Saudi Binladin Group
4. Six Construct
5. Al Jaber Energy Services
6. Al Naboodah-Group Five

1.5.5 MAJOR AIRPORT PROJECTS IN THE UAE

The projects are explained in detail in Section 3.5.5 and Appendix B.

1.6 PORTS

1.6.1 MAJOR PORT CLIENTS IN THE UAE

The following are the major Ports clients in the UAE:

1. Sea Port Authority, Abu Dhabi
2. Dubai Ports Authority
3. Dubai Drydocks
4. Nakheel Corporation
5. Sharjah Ports & Customs
6. Ras Al Khaimah Ports & Customs Department

1.6.2 MAJOR PORT CONSULTANTS IN THE UAE

The following are the major Ports consultants in the UAE:

1. Consec International
2. Frederic R. Harris
3. Gutteridge Haskins & Davey (GHD)
4. Gibb Limited
5. Halcrow International Partnership
6. Han Padron Associates
7. Hyder Consulting Middle East Limited
8. Mott MacDonald
9. Royal Haskoning
10. Scott Wilson

1.6.3 MAJOR PORT CONTRACTORS IN THE UAE

The following are the major Ports contractors in the UAE:

1. Archirodon Construction Overseas
2. Athena Construction
3. China Harbour
4. Hyundai Engineering & Construction
5. Jan De Nul Dredging
6. NSCC
7. Six Construct

1.6.4 MAJOR PORT PROJECTS IN THE UAE

The projects are explained in detail in Section 3.6.4 and Appendix C.

1.6.5 OVERVIEW OF PORT PRIVATISATION IN THE UAE

- There are eleven commercial ports in U.A.E; Al Fujairah, Khor Fakkan, Rashid, Jebel Ali, Zayed, Saqr, Al Jazeera, Ras Al Khaimah Port, Ajman, Khalid and Hamariya. The ports are being managed by the respective Port Authorities in each emirate or by other port management companies. The major port management companies active in the country are Dubai's DP World which is managing Abu Dhabi's Mina Zayed and Fujairah Port in addition to managing Dubai's Jebel Ali Port and Rashid Port, KGL Port Management for Mina Saqr (RAK) and Emirates Ports Services for Ajman Port. Gulfainer Company Limited is managing the container terminals in Port Khalid and Khorfakkan on behalf of Sharjah Ports Authority.

1.7 RAILWAYS & MONORAIL

1.7.1 MAJOR RAILWAYS & MONORAIL CLIENTS IN THE UAE

The following are the major Railways and Monorail clients in the UAE:

1. Abu Dhabi Department of Planning & Economy
2. Dubai Municipality – Dubai Road Transport Authority
3. Nakheel Corporation
4. Emaar Properties
5. Dubai International Financial Centre
6. Ilyas & Mustafa Galadari Group

1.7.2 MAJOR RAILWAYS & MONORAIL CONSULTANTS IN THE UAE

The following are the major Railways and Monorail consultants in the UAE:

1. Systra
2. Wilbur Smith & Associates

1.7.3 MAJOR RAILWAYS & MONORAIL CONTRACTORS IN THE UAE

The following are the major Railways and Monorail contractors in the UAE:

1. Dubai Rapid Link (DURL)
2. Hitachi Corporation/Marubeni/Mitsui/Obayashi Joint Venture

1.7.4 MAJOR RAILWAYS & MONORAIL PROJECTS IN THE UAE

The projects are explained in detail in Section 3.7.4 and Appendix D.

1.8 CONCLUSIONS

- There is clearly a shortage of specialized contractors and consultants in the region. Tender invitations for several major infrastructure contracts are left unattended by the contractors because of the bulk of activity they are already involved in. Projects have been delayed or mothballed entirely across the region, as contractors only cherry-pick lucrative packages. The situation has reached crisis point in Dubai and Qatar where some tender announcements are failing to attract even a single response. The capacity crisis in the industry has led to fears that public sector tender awarding bodies are not getting value for money. The engineering department of the Municipality currently processes between 500 and 600 tenders every year, and the shortage of contractors responding to announcements is beginning to have a major impact on its infrastructure planning programme. The main reason for this situation is that there are too many developments happening at the same time, and contractors are putting in high rates.
- Billions of dollars worth of projects are planned for infrastructure development in the country, particularly for the construction of roads and bridges, airports, ports and railway network. The lucrative sector is expected to bring in new companies to the region which can offer construction related services and be a partner in the development of the region.

2 INTRODUCTION

2.1 INTRODUCTION

Ventures Middle East L.L.C was invited to carry out a market study on the Infrastructure developments in the United Arab Emirates (UAE), particularly on Roads & Bridges, Airports, Ports and Railways for The Embassy of Italy in Abu Dhabi. The report will aid Italian companies aiming to set up business in the UAE and penetrate the infrastructure and transportation sector.

All aspects of the market study in terms of UAE economic & demographic indicators, infrastructure overview, project details etc. are conducted, evaluated and comprehensively documented.

2.2 OBJECTIVE OF THE STUDY AND SCOPE OF WORK

The research objectives of the Customised Market Research Analysis report in the UAE are as follows;

- UAE Economic and Demographic Indicators
- UAE Infrastructure Overview
- Market Size & Structure
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- Ports – Major Clients, Consultants, Contractors and Projects; Port Privatisation Overview
- Railways & Monorails – Major Clients, Consultants, Contractors and Projects
- Major Developments in the Infrastructure Projects Sector in 1st, 2nd, 3rd and 4th Quarters of 2005 and in the 1st quarter of 2006
- Operating in the UAE
- Conclusions & Recommendations

2.3 METHODOLOGY

Information compiled in the market study is gathered through both primary and secondary sources.

- Secondary sources include all literature and statistics available in the local market.

Secondary sources will also utilise our in-house GCC Projects Database which is updated daily by our Syndicated Market Research Department. Our GCC Projects Database has been running for eight years and covers more than 3,500 projects in eight industry sectors i.e. Oil & Gas, Buildings, Roads etc. We have currently over 200 clients (over 2,500 users) for our GCC Projects Database ranging from Embassies, Large GCC Groups, Local / International Architectural Design Consultants, Local / International Contractors, International Conglomerates and Local/International Suppliers.

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- Primary sources will include but are not limited to government agencies, municipalities, airport authorities, port authorities, main contractors, consultants and infrastructure and transportation sector market leaders.

The collated data will be analysed from the Industrial Organisation (IO) perspective. The essence of the IO perspective is that a firm's position within the marketplace depends critically on the characteristics of the industry environment in which it competes. The industry environment comprises structure, conduct, and performance.

This structure refers to the economic and technical perspectives of the industry in the context in which firms compete. It includes (a) concentration in the industry (i.e. number and size distribution of firms), (b) barriers to entry in the industry, and (c) product differentiation among offerings of different firms that make up the industry.

3. MARKET ANALYSIS

3.1 UAE ECONOMIC AND DEMOGRAPHIC INDICATORS

The United Arab Emirates (UAE) occupy a triangle of land and sea on Arabia's eastern flank. It is strategically positioned close to the entrance of the Arabian Gulf, and with extensive coastlines on its west and north facing shores, together with its eastern coastline bordering the Arabian Sea.



Table 3-1 : UAE – General Information

General Information	
Capital	Abu Dhabi
Surface Area	77,700 km ²
Official Language	Arabic
Population	3,440,000 of which at least 47% foreigners (<i>July 2005 est.</i>)
Death Rate	4.26 deaths/1,000 population (<i>July 2005 est.</i>)
Exchange Rate	US\$ 1 = 3.67 Dirham

Source: World Fact book - CIA

Table 3-2 : UAE – Economic Indicators

Economic Indicators					
	2001	2002	2003	2004	2005
GDP (USD Bn)	69.5	75.0	88.5	104.2	133.8
GDP per capita (USD)	19,939	19,968	21,909	23,968	28,579
GDP Growth (% change YOY)	-	0.1%	9.7%	9.4%	19.2%
Current account balance (USD Bn)	6.5	3.8	7.7	12.3	29.1
Current account balance (%GDP)	9.4	5.0	8.7	11.8	21.8
Inflation (% change YOY)	2.8	2.9	3.1	4.6	6.0

Source: IMF data and various international sources

Table 3-3: UAE – Additional Economic Facts

Additional Economic Facts	
Labour Force	2.8 million, 73.9% of the population in the 15-64 age group is non-national (2005 est.)
Labour Force by Sector	Services 78%, industry 15%, agriculture 7% (2000 est.)
Industries	Petroleum, fishing, petrochemicals, construction materials, some boat building, handicrafts and pearling
Industrial production growth rate	4% (2000 est.)
Major Exports Products	Crude oil, natural gas, re-exports dried fish and dates.
Major Import Products	Machinery and transport equipment, chemicals and food.
Total Import Value (US\$ billion)	US \$ 60.2 FOB (2005)
Total Export Value (US\$ billion)	US \$ 103.1 FOB (2005)

Source: IMF data and various international sources

Table 3-4: UAE's Global Trade Partners

UAE's Global Trade Partners			
UAE Export Destinations, 2004		UAE Import Sources, 2004	
Japan	24.8 %	China	10%
South Korea	9.9 %	India	9.8%
India	5.4 %	Japan	6.8%
Thailand	5.2 %	Germany	6.5%
		UK	6.2%
		France	6.1%
		US	6%

Source: IMF data and various international sources

Table 3-5: UAE – Communications

Communications	
Airports	The UAE is particularly well served with six international airports, which have a total capacity of 16 million passengers a year, servicing more than 125,000 regular and transit flights operated by 100 companies.
Ports	The UAE has 11 commercial ports with a capacity of more than 70 million tonnes. The main shipping ports are located at Port Zayed in Abu Dhabi; Jebel Ali and Port Rashid in Dubai; Port Khalid and Khor Fakkan Port in Sharjah; the Port of Fujairah.
Telecommunications	The number of GSM subscribers had reached 2.97 million by the end of 2003. The number of working telephone lines has increased to 1.14 million lines at the end of 2003. The number of Internet subscribers had reached the 1.11 million.

Source: IMF data and various international sources

3.2 UAE INFRASTRUCTURE OVERVIEW

Airports

There are six international airports located in the emirates of Abu Dhabi, Dubai, Sharjah, Fujairah, and Ras Al Khaimah.

Major investments are planned or underway for the expansion of existing airports, as well as construction of new capacity in the country. Dubai's airport expansion portfolio includes addition of a new terminal at the existing International airport and construction of a new Airport City in Jebel Ali. Abu Dhabi has also embarked on construction of a new terminal to accommodate the planned fleet expansion of Etihad Airways. Expansion is either underway or planned at Sharjah, Ras Al Khaimah and Fujairah while Ajman is focusing on construction of a new facility.

Traffic through Abu Dhabi International Airport has grown at 20 per cent a year since 2001, taking the total number of passengers to 5 million a year. The airport is now undergoing a phased expansion. Phase 1, with capacity to handle 20 million passengers, is to be completed by 2010/11. Further phases will take annual capacity to 50 million passengers and more than 2 million tonnes of cargo. It is anticipated that the Dubai International Airport hub will handle almost 60 million passengers a year by 2010. In 2004, it handled 21.7 million passengers.



Source : Dubai International Airport

In February 2006, the emirate of Dubai launched a landmark initiative to tap a Dh3.67 trillion (\$1 trillion) global aviation industry and to transfer international aviation and aeronautics technology to the region. Dubai Aerospace Enterprise (DAE), a global aerospace manufacturing and services corporation with an investment of Dh55 billion (\$15 billion) to be spent in the next five years will be established in the emirate. The initiative, to be based in the 140-square-kilometre Jebel Ali Airport City (JAAC), will create the world's largest aviation hub and prepare Dubai to participate in major aircraft manufacturing programmes in future, most likely the Airbus A350 programme.

The facility will focus on component and engine manufacturing and assembly, airport development and operations, aircraft leasing and finance, aircraft maintenance, repair and overhaul (MRO), space services, aircraft brokerage, education and training, aviation media and events, and aviation IT systems, among others.

The government-owned entity will acquire about 30 wide-bodied aircraft and offer them on lease to regional carriers while seeking major airport and free zone development and management contracts across Asia, specifically in India and China. DAE is currently in negotiations with aircraft manufacturers Boeing, Airbus and others to transfer technology to Dubai. DAE, which will become the holding company for six operational subsidiaries involved in manufacturing and services in 14 industry segments, will be the world's largest aviation company in terms of activities.

Initially, DAE will target the \$100 billion global airport development and operations, aircraft leasing and financing, and specialist education and training segments. By 2015, DAE will emerge as a global leader in airport development and operations and achieve its target to be the third largest aircraft leasing company for wide-bodies while providing global leadership in aviation education.

In March 2006, the Abu Dhabi government has formed Abu Dhabi Airports Company to operate all airports within the emirate and Abu Dhabi Ports Company, which will be responsible for the emirate's seaports. Abu Dhabi Airports Company will operate and maintain airport facilities, including passenger check-in, baggage loading, airfield services and catering. It will also be responsible for expanding Abu Dhabi's aviation

infrastructure and will undertake research to assess the emirate's requirements in order to develop short, medium and long-term strategic plans. The government plans to establish a Department of Transport that will regulate civil aviation and seaports.

In the Northern Emirates, construction is already underway on a second terminal at the Sharjah International Airport. The main aim of the project is to double the airport's current passenger handling capacity from 2 million to 8 million. Master plan is being finalized for the expansion of Ras Al Khaimah airport. The project is expected to be carried out on some form of build-operate-transfer (BOT) basis. The Ajman International airport, for which UK's Wiggin's Group was awarded the build-operate-transfer (BOT) contract to construct the terminal and allied infrastructure in May 2001 has not progressed any further and is likely to be cancelled.

Ports

There has never been a busier time for Middle East ports. Every country in the region is expanding or building port infrastructure in an investment programme worth billions of dollars. The petro-dollar boom of recent years has made port expansion a priority. Massive surges in petrochemical, aluminium and free zone derivative product exports have left many ports struggling to cope with the increased throughput.

In the UAE, non-oil exports jumped from \$22,900 million in 1999 to \$38,700 million in 2003, while imports rose from \$27,900 million to \$41,700 million. Region-wide, container activity has increased by an average of 18.4 per cent over the past two years, making it the third fastest growing market in the world, after the Far East and Eastern Europe. More than 19 million TEUs passed through the region's ports in 2004, almost double the amount handled seven years ago.

The following table lists the world's largest ports in terms of handling capacity.

Table 3-6: World's Largest Ports

WORLD'S LARGEST PORTS		
Rank 2004 (2003)	Location	TEUs ('000)
1 (1)	Hong Kong	21,932
2 (2)	Singapore	20,600
3 (3)	Shanghai	14,557
4 (4)	Shenzhen	13,650
5 (5)	Busan	11,430
6 (6)	Kaohsiung	9,710

Rank 2004 (2003)	Location	TEUs ('000)
7 (8)	Rotterdam	8,200
8 (7)	Los Angeles	7,321
9 (9)	Hamburg	7,003
10 (11)	Dubai (UAE)	6,428
29 (39)	Jeddah	2,425
31 (33)	Salalah	2,228
43 (58)	Khor Fakkan (UAE)	1,819

The following table lists the container growth or expected container growth by region for the years starting from 1999 till 2009.

Table 3-7: Container Activity Growth by Region

CONTAINER ACTIVITY GROWTH BY REGION			
%			
Year	Middle East	World	
1999	13.7	10.2	
2000	10.3	12.2	
2001	11.1	5.0	
2002	10.7	11.5	
2003	18.2	14.9	
2004E	18.5	13.3	
2005P	9.2	11.2	
2006P	6.3	8.5	
2007P	6.2	7.2	
2008P	6.2	6.6	
2009P	6.2	6.6	

E=estimate; P=projection
Source: Drewry Shipping Consultants

The following table lists the container activity growth or expected container activity growth by throughput for the years starting from 1980 till 2009.

Table 3-8: Container Activity Growth by Throughput

CONTAINER ACTIVITY GROWTH BY THROUGHPUT		
('000 TEUs)		
Year	Middle East	World
1980	1,943	38,794
1990	3,583	87,901
1999	10,060	209,944
2000	11,092	235,571
2001	12,328	247,364
2002	13,642	275,850
2003	16,125	316,967
2004	19,109	359,558
2005P	20,861	399,558
2006P	22,171	433,389
2007P	23,557	464,481
2008P	25,023	495,170
2009P	26,574	527,893

P=projection TEUs=20-foot equivalent units
Source: Drewry Shipping Consultants

There are eleven commercial ports in U.A.E; Al Fujairah, Khor Fakkan, Rashid, Jebel Ali, Zayed, Saqr, Al Jazeera, Ras Al Khaimah Port, Ajman, Khalid and Hamariya. Expansion schemes are underway or planned in almost all the ports in the country.

Abu Dhabi officially unveiled plans on 14th January 2006 to build the estimated AED 8,000 million (US\$2,100 million) Khalifa Port & Industrial Zone at Taweelah in between Abu Dhabi and Dubai. The project will eventually replace the Mina Zayed port, which will in turn be used for real estate. The new port will comprise a container handling terminal and piers to handle raw and bulk cargo as well as an industrial area serving basic and heavy industries. The first phase will be completed in five years. A new authority, the



Committee for the Restructuring of the Abu Dhabi Port Sector, is overseeing the project. The authority includes representatives from Abu Dhabi Seaport Authority, Mubadala Development Company and the Higher Corporation for Specialised Economic Zones. The project will be built on a public-private partnership basis.

Dubai Ports Authority (DPA) is planning a Dhs.4,200 million (US\$1,100 million) expansion programme to boost the capacity of Jebel Ali container terminal to 21.8 million 20-foot equivalent units (TEUs) by 2020. Han Padron Associates have prepared the master plan

for the scheme and contractors are already in place for the dredging and container berth packages.

Local real estate developer Nakheel is investing about US\$175 million in the construction of a major mixed-use offshore facility in Dubai to serve the region's maritime industry. The project calls for the construction of facilities for the design, manufacture and repair of vessels, research centres and related maritime services and administrative buildings. Plans to build a second maritime city in the country are moving forward with construction expected to begin in 2006. The project will be located in Sharjah's Hamriyah Free Zone. The development will focus primarily on developing facilities in areas ranging from marine services and dry docking to shipbuilding, designing and maintenance of vessels. It will also cater specifically to marine infrastructure related to the oil and gas sector, including rig maintenance and building.

Ras al-Khaimah (RAK) is planning to invest US\$1,000 million to expand the emirate's port infrastructure. Under the proposals, the Customs & Ports Department will primarily focus on developing container and cargo facilities at Al-Jazeerah al-Hamra port as well as acquiring more handling equipment and increasing the depth of the approach channel to eight metres. RAK will also expand Mina Saqr, Ras al-Khaimah port and Ras al-Darah port in a bid to increase capacity to 30 million tonnes a year (t/y) from 7 million t/y.

Roads

The modern internal transport system of the UAE was largely developed in the late 1960s, when main roads were constructed to link all major cities. However, since the UAE's establishment, on December 1971, road development throughout the United Arab Emirates has been extensive and the paved highways totaled 4,030 kilometers by the end of 2003. The system of roads links the inhabited areas of the desert and spans the waters to connect islands.

The UAE has a fairly well developed and modern infrastructure. Land transportation is by road and an asphalt highway network links all major cities. Authorities in Abu Dhabi and Dubai are busily engaged in widening roads and replacing worn stretches.

The capital of the UAE, Abu Dhabi city, is linked to the mainland by three bridges, two Al Maqta and one Mussafah, and a fourth bridge is currently under construction. A dual carriageway connects it with Al Ain. The Abu Dhabi-Dubai highway has been upgraded several times and a major improvement project is under way.

There are good highways between Sharjah and Ras Al Khaimah; between Sharjah and Dhaid; and other highways linking Dubai with other Northern Emirates and other parts of the country. In the south, an excellent road network links all major towns and villages with Oman. Meanwhile, a fast intercontinental highway through the UAE into Qatar and Saudi Arabia makes it possible to drive to Kuwait and beyond into Europe. In the East, a coast route links Dibba with Muscat in Oman. The following table gives an idea of approximate highway distances between emirates and main towns in the UAE.

Table 3-9: Approximate Highway Distances between Main Emirates and Towns in the UAE

Kilometers

Emirate	Abu Dhabi	Al Ain	Dubai	Sharjah	Ajman	Umm Al Qaiwain	Ras Al Khaimah	Fujairah	Khor Fakkan
Abu Dhabi		170	190	200	230	270	300	320	160
Al-Ain	170		130	150	160	190	220	200	220
Dubai	190	130		20	30	50	100	130	150
Sharjah	200	150	20		10	30	80	110	130
Ajman	230	160	30	10		30	70	120	140
Umm Al Qaiwain	270	190	50	30	30		60	120	140
Ras Al Khaimah	300	220	100	80	70	60		110	130
Fujairah	320	200	130	110	120	120	110		20
Khor Fakkan	160	220	150	130	140	140	130	20	

Source: Ministry of Planning & Economy

These roads are all linked throughout the country and the flow of traffic in towns is facilitated by well designed interchanges.

With most of the population concentrated in coastal towns and the Al Ain Oasis, road links between these centers have been given special priority. However, means of transportation within the UAE consists of buses, taxis, and car rental. In each Emirate capital, there is a general taxi and bus station where they leave all day for different Emirates.

The number of cars in the United Arab Emirates is growing rapidly. It has reached 792 thousand in 2003 with an annual average growth rate 8.44% during the period from 1999 to 2003. The reason of this growth caused to increase in the inflow of population and the growth in the per capita income in the UAE.

Year	No. of Cars (in Thousands)
1998	359
1999	576
2000	673
2001	745
2002	767
2003	792

Source: Ministry of planning

Total Length of Paved Highways in the UAE

Total length of paved highways in the UAE was around 3,611 kilometers in 1998 increased to reach 4,030 kilometers in 2003 with an average growth rate of 2.3% annually. The following table shows the length of paved highways and the average growth rate in UAE during the period from 1998 to 2003.

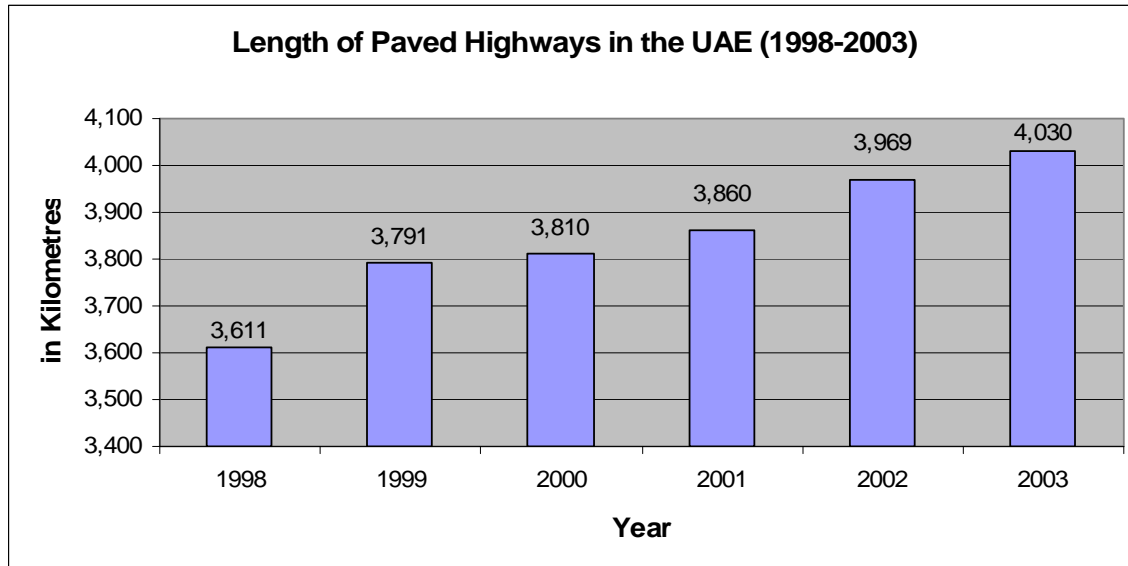
Table 3-10: Length of Paved Highways in the UAE during the period from 1998 to 2003

In Kilometers

Year	Cumulative	Annually	Growth Rate (%)
1998	3,611		-
1999	3,791	180	5%
2000	3,810	19	1%
2001	3,860	50	1%
2002	3,969	109	3%
2003	4030	61	1.54%

Source: Ministry of planning

Figure 3-1: Length of Paved Highways in the UAE during the period from 1998 to 2003



Substantial investment has been pumped into construction of roads and bridges over the past years throughout the country.

In Dubai, a decree was issued on 1st November 2005 creating the new Dubai Roads & Transport Authority (DRTA). The new body will be responsible for planning and implementing transport projects in Dubai and overseas. The legislation states that all jurisdictions and responsibilities of the Roads Department, Dubai Metro Sector, Public Transport Department, Road Maintenance Section, General Maintenance Department, Traffic Engineering Section and Traffic Safety Section of Dubai Municipality (DM) will be transferred to the new authority. Funded by allocations from the government budget, the authority will also generate income from transport fees, service allowances and grants.

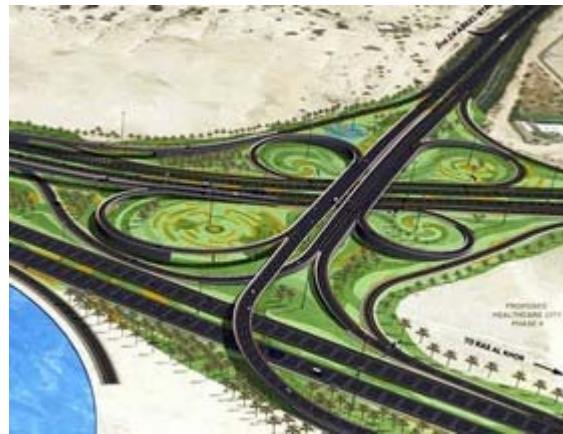
The DRTA has embarked on some major projects focusing on improving traffic movement and road networks by implementing short and long term plans. Dubai Creek will have a total of six crossings within the next few years to ease traffic flow. Currently there are three crossings – the Al Shindagha Tunnel, Al Maktoum Bridge and Al Garhoud Bridge while the fourth crossing Ras Al Khor Bridge is under construction. The Al Garhoud bridge will be replaced by a new 7-lane dual carriageway bridge, the contractor for which was finalized in February 2006. The fifth crossing will be near the Sheraton Hotel while the sixth will



be after the under construction Ras al Khor bridge. The DRTA is drawing up plans to tender several more major road projects. The largest new scheme will involve the construction of two new highways running parallel to Shaikh Zayed highway between the Zaabeel area and Jebel Ali. The project will be split into a number of packages and tenders are expected to be issued in 2006.

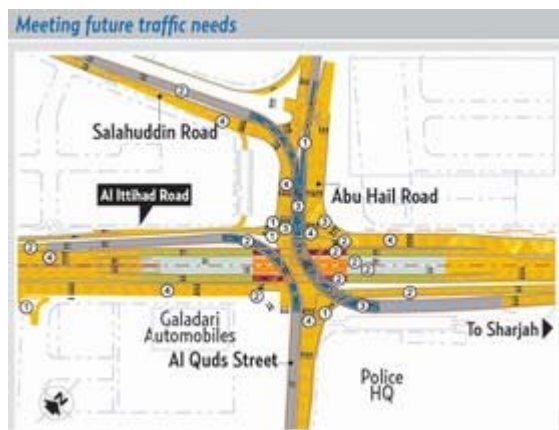
The emirate of Dubai will spend more than Dhs.25 billion (US\$6.8 billion) to improve the city's road, traffic and transport services by 2008. The plan has allocated Dhs.15 billion (US\$4.08 billion) for Dubai Metro and Dhs.10 billion (US\$2.72 billion) for roads, traffic and public transport. Dubai will spend Dhs.3.5 billion in 2006 to build new roads and bridges in addition to improving the existing road network to ease traffic congestion. A separate Dhs.1 billion (US\$272 million) has been allocated for the Al Sufouh road network improvement project.

The joint venture of South Africa's Africon and the local Al-Burj Engineering Consultants is working on a comprehensive master plan study for Dubai's road and transport systems. France's MVA Systra is already working on a separate transport master plan for the Al-Sufouh area running from the Burj al-Arab hotel to the Jumeirah Beach Residence development.



Another long-awaited project to ease traffic congestion on Dubai's most congested road Al Ittihad Road between Sharjah and Dubai was launched in March 2006. Construction of the Dhs.700 million (US\$190 million) Al Ittihad Road project is expected to commence in 2006 and will be completed in two years.

The improvement and expansion of Ittihad Road, which is used by more than 8,000 vehicles per hour commuting between the two emirates, covers a 7.5km stretch starting from Dubai-Sharjah border up to Al Garhoud Bridge in Dubai. The road will be turned



into an eight lane expressway with a capacity of 12,000 vehicles per hour in each direction. The project will include improvements on five key interchanges with the addition of eight bridges and at least four more underpass lanes at nodal tunnels which are currently bottlenecks.

The emirate of Abu Dhabi spends over US\$1 billion annually on the roads sector alone. By 2020, every road and street in the capital will be turned into four-lane carriageways. Construction is underway on two ambitious bridge projects in the capital,

one an 8-lane bridge to connect Al Reem Island to the main Abu Dhabi island and the second is the 3rd Maqta Crossing. Pre-qualification is currently underway for contractors on the 1,455-metre-long segmental box girder bridge, with five carriageways connecting Sa'adiyat Island to Abu Dhabi Island. A causeway that will bridge the 300km gap between Doha, Qatar and Abu Dhabi is planned, according to an agreement reached between the two states during late 2004. Doha and Abu Dhabi have agreed to set up a joint venture firm that will begin feasibility studies on the ambitious project to bridge the open sea between the two nations of UAE & Qatar.

In the Northern Emirates, the Ministry of Public works is embarking on a Dhs.900 million highway project to link Sharjah and Fujairah.

Railways

The Middle East's rail industry has always been a very minor part of the global picture. Even today, rail spending in the region still only accounts for about 2.5 per cent of the global rail industry. By comparison, Western Europe and North America, which have comparable populations to the Arab world, represent about 38 per cent and 16 per cent respectively.

However, by its own standards, the Middle East has started sensing something of a rail boom, at least in terms of planned projects. The past 12 months have seen significant movement on rail projects in Saudi Arabia, Dubai, Tehran and Jordan. The year 2004 witnessed major agreements on the UN-backed project to develop an integrated Mashreq rail network extending from Egypt to the Arabian Peninsula.

There is no railway network in UAE at present. Rapidly expanding cities such as Dubai need mass transit systems if they are to continue to develop, and that puts rail developers in a very strong position when it comes to negotiating revenue guarantees. The year 2006 will witness the start of construction on the Dubai light rail transit (LRT) network, the ground breaking for which was held in March 2006. The initial phases will include excavation and piling works for the viaducts that will run from Dubai Airport to Port Saeed, and the Burjuman Centre through to Jebel Ali.



Initial plan was to have 2 lines – the Red Line and the Green Line. In March 2006, DRTA announced that there will be a third Blue Line. The client is currently in the process of appointing consultants for the third line. The Red and the Green Lines will be extended to cope with the demands of the expanding city. The Green Line will be extended to the Business Bay and the Red Line will be extended to Jebel Ali Port. Blue Line will serve communities along the Emirates Road. It will be 47km long and will provide a shuttle service between Dubai International Airport and the new airport at Jebel Ali.

Dubai is likely to get at least eight monorails in addition to the Dubai Light Rail project. The privately funded and developed monorails will primarily cater to the neighbourhoods and operate as feeder services to the Dubai Light Rail system, which will be completed in two phases by 2012.

Four of them, one on The Palm Jumeirah, a second in Dubai International Financial Centre, a third in the City of Arabia at Dubailand and the fourth in Jebel Ali Airport City, have been confirmed. Four others are being studied. The other four are likely to be built in Dubai Waterfront, the Burj Dubai complex, The Palm Deira and Dubai Festival City. The most advanced among all is the monorail at the Palm Jumeirah and City of Arabia. The consortium lead by Hitachi Corporation signed a letter of intent in September 2005 for the turnkey contract to design, build and equip the Palm Jumeirah monorail project. For the estimated Dhs.587 million (US\$160 million) contract involving construction of a 16-kilometre "automatic people mover" or mini monorail project at the City of Arabia, Malaysia's Mtrans and Canada's Bombardier are understood to be in final talks with the client. A fast track underground metro line to link Dubai International Airport and the proposed airport in Jebel Ali is also being studied.

An all-German consortium of Dornier Consulting, Deutsche Gesellschaft für Technische Zusammenarbeit (GTZ) and DE-Consult has completed a pre-feasibility study for the 700km long Emirates Railway project initiated by the Abu Dhabi Department of Planning & Economy. The same consortium is now undertaking a second stage study on the project which is due to be completed in September 2006. Pre-feasibility study determined that the network will extend from Ruwais through Mussafah, past Abu Dhabi City and up to Jebel Ali and Dubai. The line will fork in Dubai with one branch leading to Fujairah in the east and the other running through Sharjah, Ajman, and Umm Al Quwain to Ras Al Khaimah in the north. The second stage study entails the technical details such as routing of the rail lines and whether diesel or electric powered rolling stock will be used. Completion of the rail network is expected between 2012 and 2015. The 1st phase of the project would be for cargo and container network followed by passenger network in the 2nd phase.

The GCC Transport Ministers in October 2004 has given the go-ahead for a commissioning study to establish a GCC rail network connecting all the six GCC countries - UAE, Saudi Arabia, Qatar, Oman, Bahrain and Kuwait. The scheme's preliminary study by Parsons Brinckerhoff and Kuwait's Global Investment House proposed 2 routes for the network. The 1st runs from Muscat, Oman through UAE and Saudi Arabia before terminating in Kuwait. The other option includes incorporating both

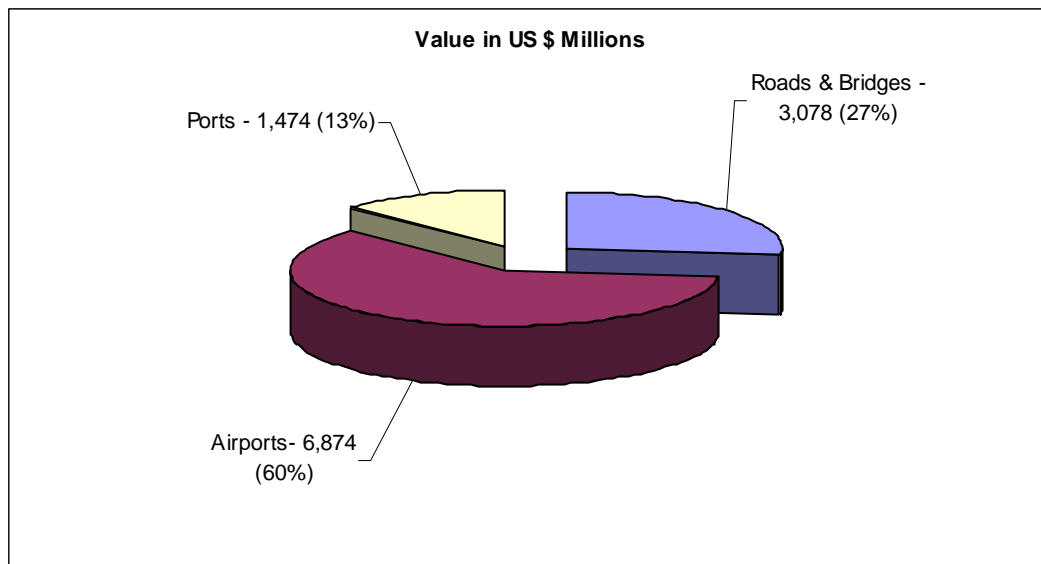
Qatar and Bahrain into the network. This route is more expensive but offers a higher rate of return. The GCC technical coordinating committee is expected to issue a tender for a full feasibility study on the estimated US\$5,500 million project in 2006. At least 15 international consultants are understood to be pre-qualified for the contract which is expected to take at least 12 months to draw up. The study will evaluate several elements including route alignments, the extrapolation of topographical and statistical data, creation of a legal model, passenger and flight configuration, port integration and financing and development options. Completion of the scheme is expected to take at least 6 more years.

An ambitious railway network extending in a giant loop from the Syrian/Turkish border, through Iraq and along the Arabian Peninsula's Gulf, Arabian Sea and Red Sea coasts is also being discussed which will have the seven UAE emirates connected to the loop. Abu Dhabi, Dubai and Sharjah could be main line stops on the 1,860km "third artery" of the proposed rail network between Basra, Iraq and Muscat, Oman. The northern emirates of the UAE; Ajman, Umm Al Qaiwain and Ras Al Khaimah, along with Fujairah on the country's east coast would be branch line stations. A study was conducted by the Arab Railway Union and the Syrian General Corporation for Railways in association with the Arab Transport Ministers Council of the Arab League regarding the scheme. No date was suggested for the implementation of the Arabian Railway network, which would be created by filling in the gaps between existing railways in countries such as Syria, Iraq, Jordan and Saudi Arabia. The only section of track that currently exists on the network's Arabian Gulf artery is between Dammam and Hufuf of Saudi Arabia.

3.3 MARKET SIZE & STRUCTURE

3.3.1.1 Estimated total size in US\$ of Roads & Bridges, Airports, Ports, and Railways & Monorail construction projects in the various stages of development in Abu Dhabi Emirate.

Figure 3-2: Infrastructure Construction Market Value in Abu Dhabi



Source: Ventures Middle East GCC Projects Database (March 2006 Edition) – www.ventures-uk.com

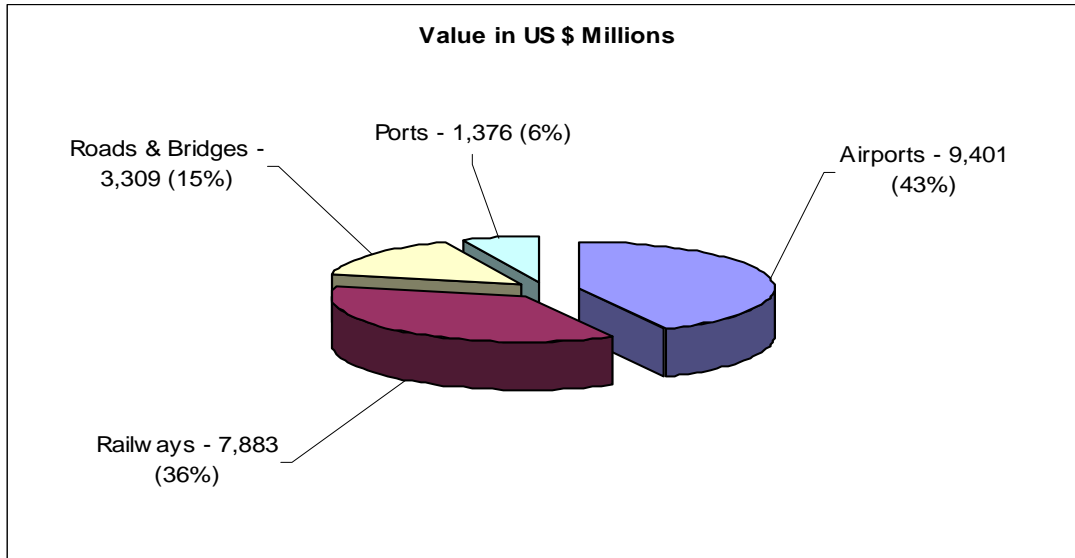
Notes:

- 1) The chart excludes Railway projects due to there being an absence of Railway projects in Abu Dhabi.
- 2) The chart excludes the future Emirates Railway project due to no clear aggregation at present of overall project value by Emirate due to the project being a railway line from Abu Dhabi to the top of the country, Fujairah emirate.
- 3) The chart excludes the future GCC Railway project due to no clear aggregation at present of overall project value by Emirate due to the project being a railway line from the country Oman through UAE and Saudi Arabia.

As can be seen from the pie chart above, the overall value of Roads & Bridges, Airports and Ports projects in Abu Dhabi, totals to US\$11,426 Million. Airport projects represent 60% of the overall construction value followed by Roads and Bridges at 27% and Ports at 13%.

3.3.1.2 Estimated total size in US\$ of Roads & Bridges, Airports, Ports and Railways & Monorail construction projects in the various stages of development in Dubai Emirate.

Figure 3-3: Infrastructure Construction Market Value in Dubai



Source: Ventures Middle East GCC Projects Database (March 2006 Edition) – www.ventures-uk.com

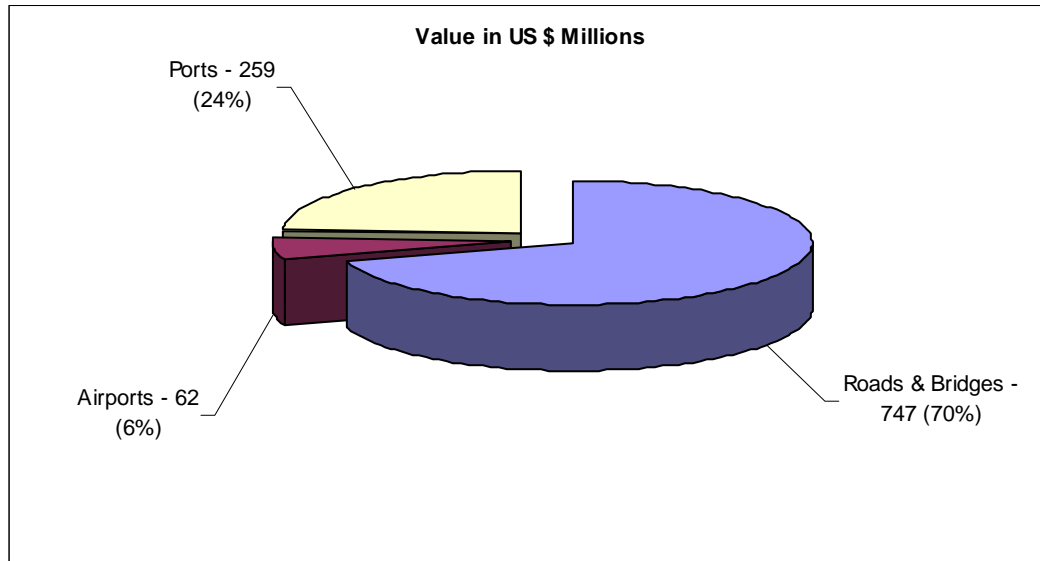
Notes:

- 1) The chart excludes the future Emirates Railway project due to no clear aggregation at present of overall project value by Emirate due to the project being a railway line from Abu Dhabi to the top of the country, Fujairah emirate.
- 2) The chart excludes the future GCC Railway project due to no clear aggregation at present of overall project value by Emirate due to the project being a railway line from the country Oman through UAE and Saudi Arabia.

As can be seen from the pie chart above, the overall value of Roads & Bridges, Airports, Ports and Railway projects in Dubai, totals to US\$21,969 Million. Airport projects represent 43% of the overall construction value followed by Railways at 36%, Roads and Bridges at 15% and Ports at 6%.

3.3.1.3 Estimated total size in US\$ of Roads & Bridges, Airports, Ports and Railways & Monorail construction projects in the various stages of development in Sharjah Emirate.

Figure 3-4: Infrastructure Construction Market Value in Sharjah



Source: Ventures Middle East GCC Projects Database (March 2006 Edition) – www.ventures-uk.com

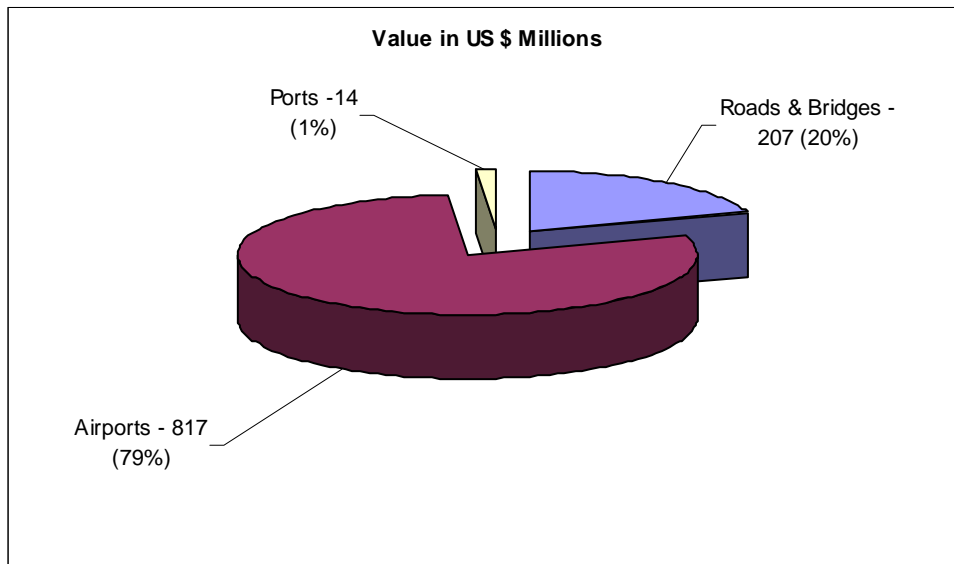
Notes:

- 1) The chart excludes Railway projects due to there being an absence of Railway projects in Sharjah.
- 2) The chart excludes the future Emirates Railway project due to no clear aggregation at present of overall project value by Emirate due to the project being a railway line from Abu Dhabi to the top of the country, Fujairah emirate.
- 3) The chart excludes the future GCC Railway project due to no clear aggregation at present of overall project value by Emirate due to the project being a railway line from the country Oman through UAE and Saudi Arabia.

As can be seen from the pie chart above, the overall value of Roads & Bridges, Airports and Ports projects in Sharjah, totals to US\$1,068 Million. Roads and Bridges projects represent 70% of the overall construction value followed by Ports at 24% and Airports at 6%.

3.3.1.4 Estimated total size in US\$ of Roads & Bridges, Airports, Ports and Railways & Monorail construction projects in the various stages of development in Ajman Emirate.

Figure 3-5: Infrastructure Construction Market Value in Ajman



Source: Ventures Middle East GCC Projects Database (March 2006 Edition) – www.ventures-uk.com

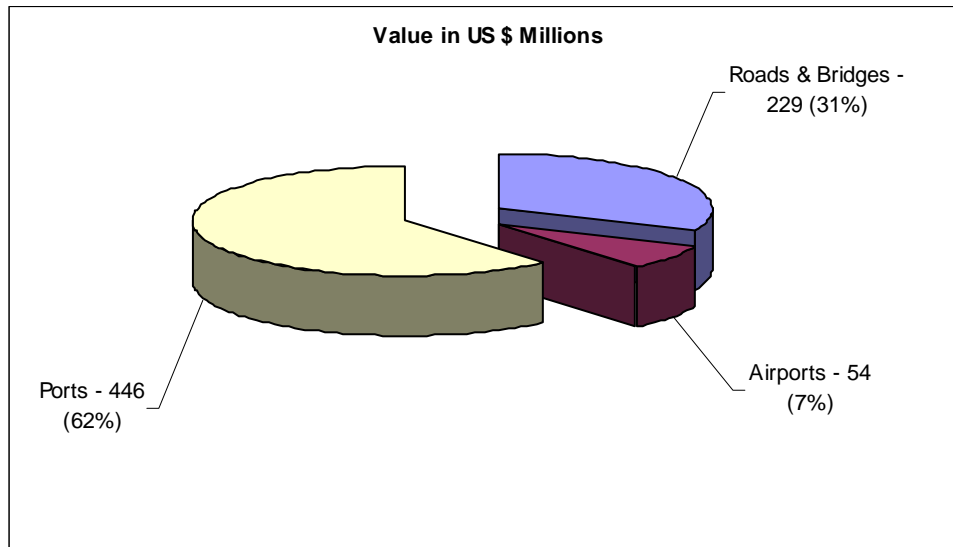
Notes:

- 1) The chart excludes Railway projects due to there being an absence of Railway projects in Ajman.
- 2) The chart excludes the future Emirates Railway project due to no clear aggregation at present of overall project value by Emirate due to the project being a railway line from Abu Dhabi to the top of the country, Fujairah emirate.
- 3) The chart excludes the future GCC Railway project due to no clear aggregation at present of overall project value by Emirate due to the project being a railway line from the country Oman through UAE and Saudi Arabia.
- 4) At the time of report writing, there are is an uncertainty over the proposed airport project being planned in Ajman and the project may be cancelled altogether. All the values mentioned under Airports will be reduced to Nil if the project is cancelled.

As can be seen from the pie chart above, the overall value of Roads & Bridges, Airports and Ports projects in Ajman, totals to US\$1,038 Million. Airports projects represent 79% of the overall construction value followed by Roads and Bridges 20% and Ports at 1%.

3.3.1.5 Estimated total size in US\$ of Roads & Bridges, Airports, Ports and Railways & Monorail construction projects in the various stages of development in Ras Al Khaimah Emirate.

Figure 3-6: Infrastructure Construction Market Value in Ras Al Khaimah



Source: Ventures Middle East GCC Projects Database (March 2006 Edition) – www.ventures-uk.com

Notes:

- 1) The chart excludes Railway projects due to there being an absence of Railway projects in Ras Al Khaimah.
- 2) The chart excludes the future Emirates Railway project due to no clear aggregation at present of overall project value by Emirate due to the project being a railway line from Abu Dhabi to the top of the country, Fujairah emirate.
- 3) The chart excludes the future GCC Railway project due to no clear aggregation at present of overall project value by Emirate due to the project being a railway line from the country Oman through UAE and Saudi Arabia.

As can be seen from the pie chart above, the overall value of Roads & Bridges, Airports and Ports projects in Ras Al Khaimah, totals to US\$729 Million. Ports projects represent 62% of the overall construction value followed by Roads and Bridges at 31% and Airports at 7%.

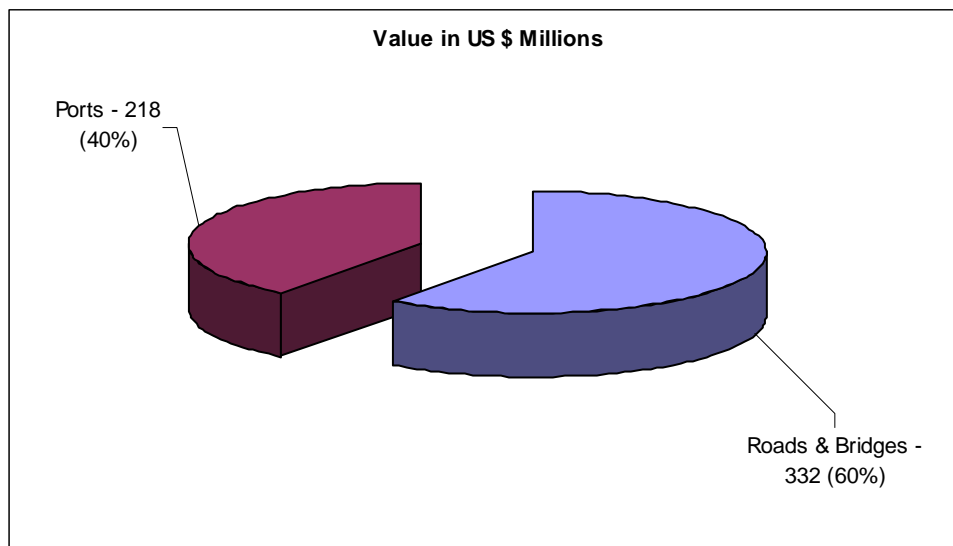
3.3.1.6 Estimated total size in US\$ of Roads & Bridges, Airports, Ports and Railways & Monorail construction projects in the various stages of development in Umm Al Quwain Emirate.

The emirate of Umm Al Quwain have only Roads and Bridges projects which is estimated at US\$163 Million, either planned or in the execution stage. There is an overall absence of Airports, Ports and Railway projects in the emirate.

The two future railway projects, the Emirates Railway project and the GCC Railway project are not taken into consideration in our calculations due to no clear aggregation at present of overall project value by Emirate due to one being a railway line from Abu Dhabi to the top of the country, Fujairah emirate and the other from the country Oman through UAE and Saudi Arabia.

3.3.1.7 Estimated total size in US\$ of Roads & Bridges, Airports, Ports and Railways & Monorail construction projects in the various stages of development in Fujairah Emirate.

Figure 3-7: Infrastructure Construction Market Value in Fujairah



Source: Ventures Middle East GCC Projects Database (March 2006 Edition) – www.ventures-uk.com

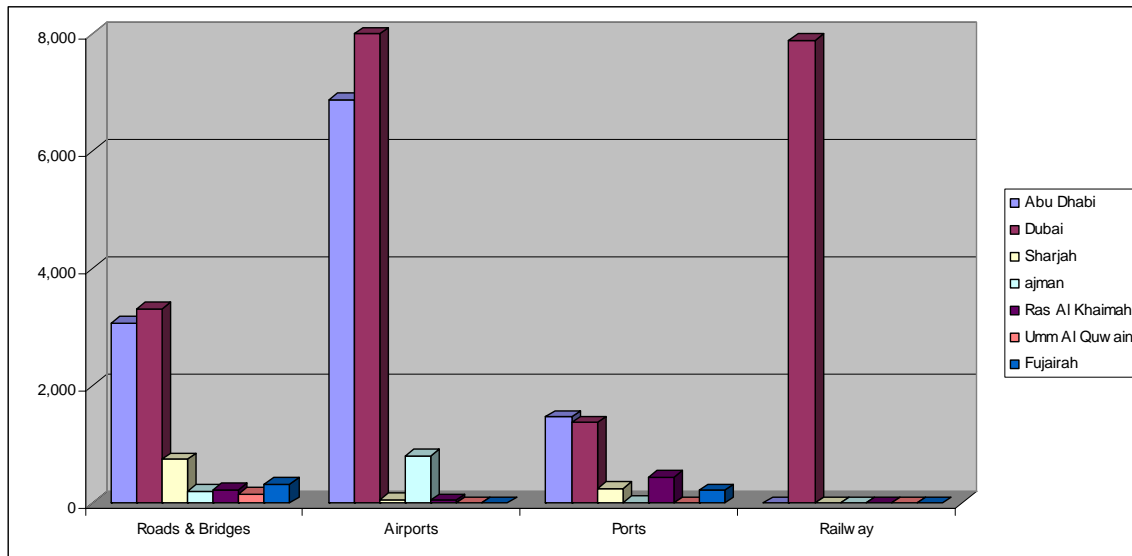
Notes:

- 1) The chart excludes Railway and Airport projects due to there being an absence of Railway and Airport projects in Fujairah.
- 2) The chart excludes the future Emirates Railway project due to no clear aggregation at present of overall project value by Emirate due to the project being a railway line from Abu Dhabi to the top of the country, Fujairah emirate.
- 3) The chart excludes the future GCC Railway project due to no clear aggregation at present of overall project value by Emirate due to the project being a railway line from the country Oman through UAE and Saudi Arabia.

As can be seen from the pie chart above, the overall value of Roads & Bridges and Ports projects in Fujairah, totals to US\$550 Million. Roads and Bridges projects represent 60% of the overall construction value whereas the remaining 40% is attributed to Port projects.

3.3.1.8 Estimated total size in US\$ of Roads & Bridges, Airports, Ports and Railways & Monorail construction projects in the various stages of development in UAE (All Emirates).

Figure 3-8: Infrastructure Construction Market Value in UAE



Source: Ventures Middle East GCC Projects Database (March 2006 Edition) – www.ventures-uk.com

Notes:

- 1) The chart excludes the future Emirates Railway project due to no clear aggregation at present of overall project value by Emirate due to the project being a railway line from Abu Dhabi to the top of the country, Fujairah emirate.
- 2) The chart excludes the future GCC Railway project due to no clear aggregation at present of overall project value by Emirate due to the project being a railway line from the country Oman through UAE and Saudi Arabia.
- 3) At the time of report writing, there is an uncertainty over the proposed airport project being planned in Ajman and the project may be cancelled altogether. All the values mentioned under Ajman Airport will be reduced to Nil if the project is cancelled.

The estimated project values for Roads & Bridges, Airports, Ports, Railways & Monorail construction projects in the various stages of development in UAE is mentioned in the table below and also illustrated in the above bar chart. The total value of Roads & Bridges, Airports, Ports, Railways & Monorail projects is estimated at US\$36,943 Million for all emirates. The emirate of Dubai represents 59.47% of the total estimated value followed by Abu Dhabi at 30.93%, Sharjah at 2.89%, Ajman at 2.81%, Ras Al Khaimah at 1.97%, Fujairah at 1.49% and Umm Al Quwain at 0.44%.

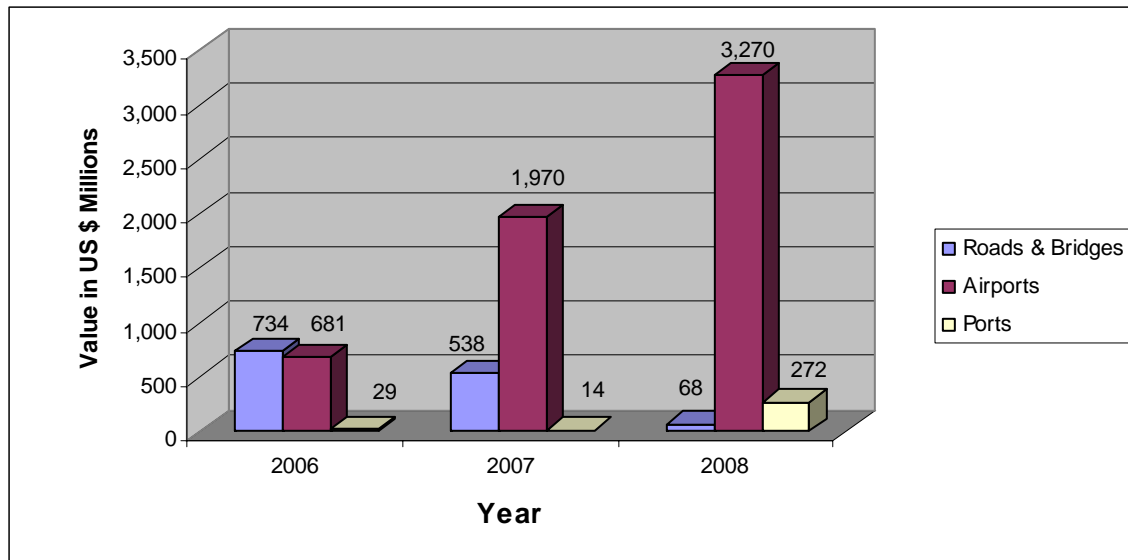
Table 3-11: Estimated Project Value by Project Sector for the Emirates

Project Sector	Estimated Project Value in US\$ Million						
	Abu Dhabi	Dubai	Sharjah	Ajman	RAK	UAQ	Fujairah
Roads & Bridges	3,078	3,309	747	207	229	163	332
Airports	6,874	9,401	62	817	54	0	0
Ports	1,474	1,376	259	14	446	0	218
Railways	0	7,883	0	0	0	0	0
Total	11,426	21,969	1,068	1,038	729	163	550

Source: Ventures Middle East GCC Projects Database (March 2006 Edition) – www.ventures-uk.com

3.3.2.1 Estimated Market Value for new Roads & Bridges, Airports, Ports and Railways & Monorail construction projects awarded/expected to be awarded to main contractor in Abu Dhabi Emirate for the years 2006, 2007 and 2008.

Figure 3-9: Infrastructure Construction Contract Awards in Abu Dhabi for the period 2006-2008



Source: Ventures Middle East GCC Projects Database (March 2006 Edition) – www.ventures-uk.com

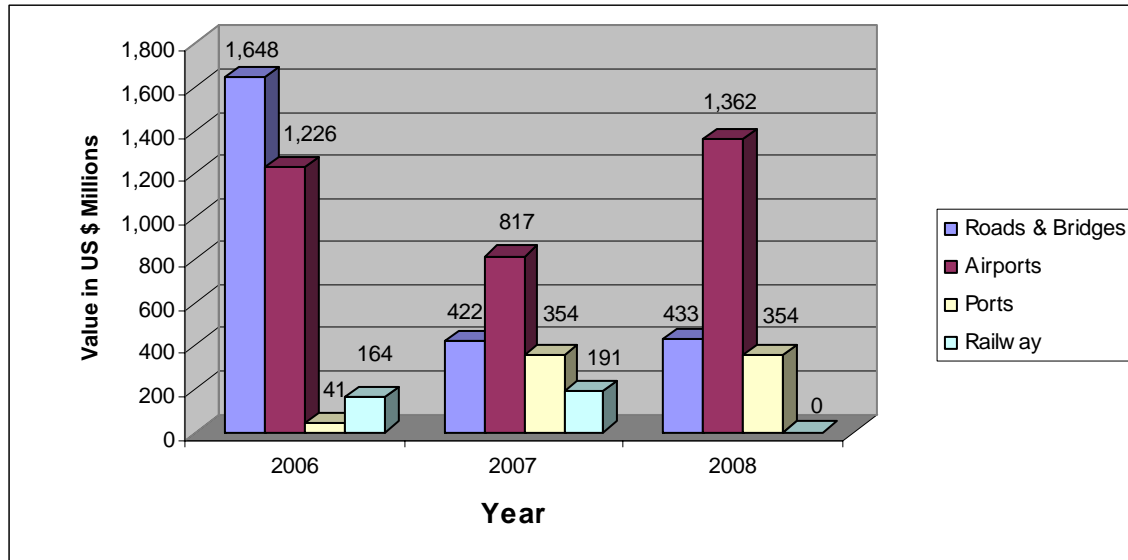
As can be seen from the bar-chart above, the total market value for new Roads & Bridges, Airports, Ports and Railways & Monorail construction projects awarded/expected to be awarded to main contractor in Abu Dhabi Emirate for the year 2006 is estimated at US\$1,444 Million. Roads & Bridges projects constitute 50.83% of the total value, the remaining split between Airports (47.16%) and Ports (2.01%) in 2006. The total value for the year 2007 is estimated at US\$2,522 Million with Airports contributing 78.11%, Roads & Bridges and Ports representing 21.33% and 0.56% respectively. The total value for the year 2008 is estimated at US\$3,610 Million with Airports contributing 90.58%, Roads & Bridges and Ports representing 1.88% and 7.54% respectively.

The total market value for new Roads & Bridges, Airports, Ports, Railways & Monorail construction projects awarded/expected to be awarded to main contractor in Abu Dhabi Emirate for the period 2006 to 2008 is estimated at US\$7,576 Million.

As illustrated in the bar chart, the contractor awards for airport projects accounts for 78.15% (US\$5,921 Million) during 2006 to 2008, witnessing an average annual growth rate of 127.64%. The contractor awards for Roads & Bridges projects represents 17.69% (US\$1,340 Million) where as the remaining 4.16% (US\$315 Million) is attributed to awards on Port projects. No railway projects are expected to be awarded to contractors during the period 2006 to 2008 in Abu Dhabi.

3.3.2.2 Estimated Market Value for new Roads & Bridges, Airports, Ports and Railways & Monorail construction projects awarded/expected to be awarded to main contractor in Dubai Emirate for the years 2006, 2007 and 2008.

Figure 3-10: Infrastructure Construction Contract Awards in Dubai for the period 2006-2008



Source: Ventures Middle East GCC Projects Database (March 2006 Edition) – www.ventures-uk.com

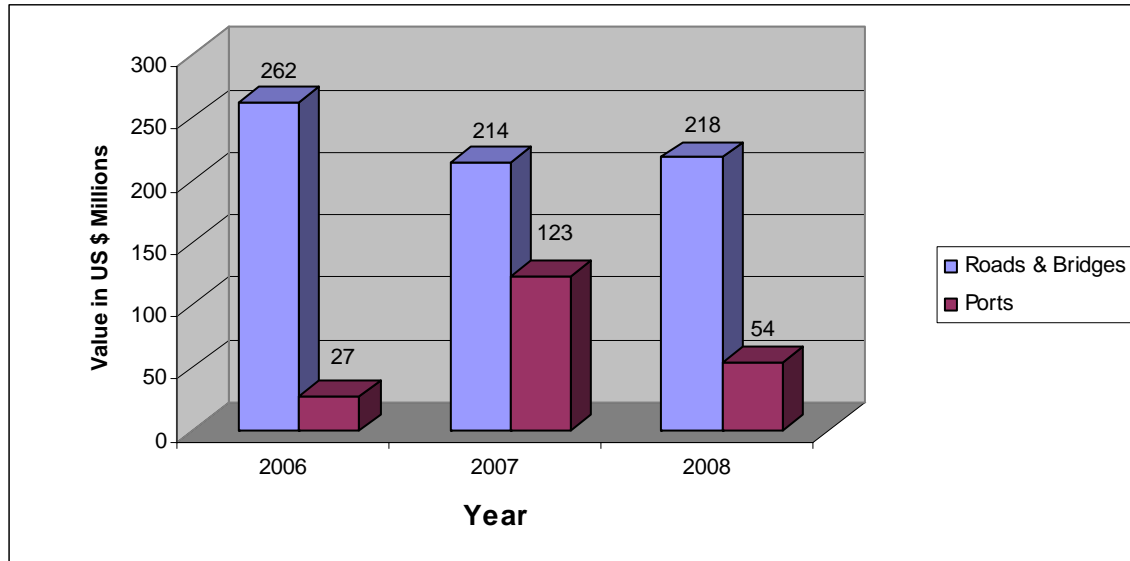
As illustrated in the bar-chart above, the total market value for new Roads & Bridges, Airports, Ports and Railways & Monorail construction projects awarded/expected to be awarded to main contractor in Dubai Emirate for the year 2006 is estimated at US\$3,079 Million. Roads & Bridges projects constitute 53.52% of the total value, the remaining split between Airports (39.82%), Ports (1.33%) and Railways (5.33%) in 2006. The total value for the year 2007 is estimated at US\$1,784 Million with Airports contributing 45.80%, Roads & Bridges representing 23.65% and the remaining distributed between Ports (19.84%) and Railways (10.71%). The total value for the year 2008 is estimated at US\$2,149 Million with Airports contributing 63.38%, Roads & Bridges and Ports representing 20.15% and 16.47% respectively.

The total market value for new Roads & Bridges, Airports, Ports, Railways & Monorail construction projects awarded/expected to be awarded to main contractor in Dubai Emirate for the period 2006 to 2008 is estimated at US\$7,012 Million.

As highlighted in the bar chart above, the contractor awards for airport projects accounts for 48.56% (US\$3,405 Million) during the period 2006 to 2008, witnessing an average annual growth rate of 16.68%. The contractor awards for Roads & Bridges and Ports projects represents 35.7% (US\$2,503 Million) and 10.68% (US\$749 Million) respectively. The remaining 5.06% (US\$355 Million) is attributed to awards on Railways & Monorail projects.

3.3.2.3 Estimated Market Value for new Roads & Bridges, Airports, Ports and Railways & Monorail construction projects awarded/expected to be awarded to main contractor in Sharjah Emirate for the years 2006, 2007 and 2008.

Figure 3-11: Infrastructure Construction Contract Awards in Sharjah for the period 2006-2008



Source: Ventures Middle East GCC Projects Database (March 2006 Edition) – www.ventures-uk.com

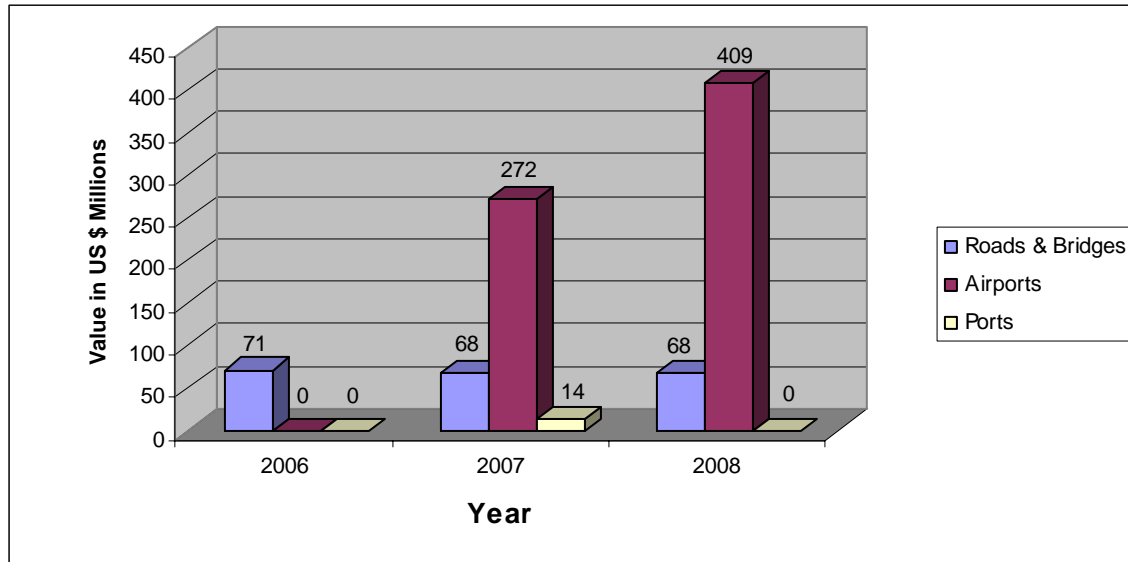
As can be seen from the bar-chart above, the total market value for new Roads & Bridges and Ports construction projects awarded/expected to be awarded to main contractor in Sharjah Emirate for the year 2006 is estimated at US\$289 Million. Roads & Bridges projects constitute 90.66% of the total value while the remaining 9.34% is credited to Ports projects. The total value for the year 2007 is estimated at US\$337 Million with Roads & Bridges representing 63.5% and the remaining 36.5% for Ports. The total value for the year 2008 is estimated at US\$272 Million with Roads & Bridges and Ports representing 80.15% and 19.85% respectively.

The total market value for new Roads & Bridges and Ports construction projects awarded/expected to be awarded to main contractor in Sharjah Emirate for the period 2006 to 2008 is estimated at US\$898 Million.

As highlighted in the bar chart above, the contractor awards for Roads & Bridges projects accounts for 77.28% (US\$694 Million) during the period 2006 to 2008. The remaining 22.72% (US\$204 Million) is attributed to awards on Port projects. The Roads & Bridges sector is expected to witness an average annual decline rate of 8.23% whereas the Ports sector is expected to witness an average annual growth rate of 149.73%. No Airports and Railways & Monorail projects are expected to be awarded to contractors during the period 2006 to 2008 in Sharjah.

3.3.2.4 Estimated Market Value for new Roads & Bridges, Airports, Ports and Railways & Monorail construction projects awarded/expected to be awarded to main contractor in Ajman Emirate for the years 2006, 2007 and 2008.

Figure 3-12: Infrastructure Construction Contract Awards in Ajman for the period 2006-2008



Source: Ventures Middle East GCC Projects Database (March 2006 Edition) – www.ventures-uk.com

Notes:

- 1) At the time of report writing, there is an uncertainty over the proposed airport project being planned in Ajman and the project may be cancelled altogether. All the values mentioned under Airports will be reduced to Nil if the project is cancelled.

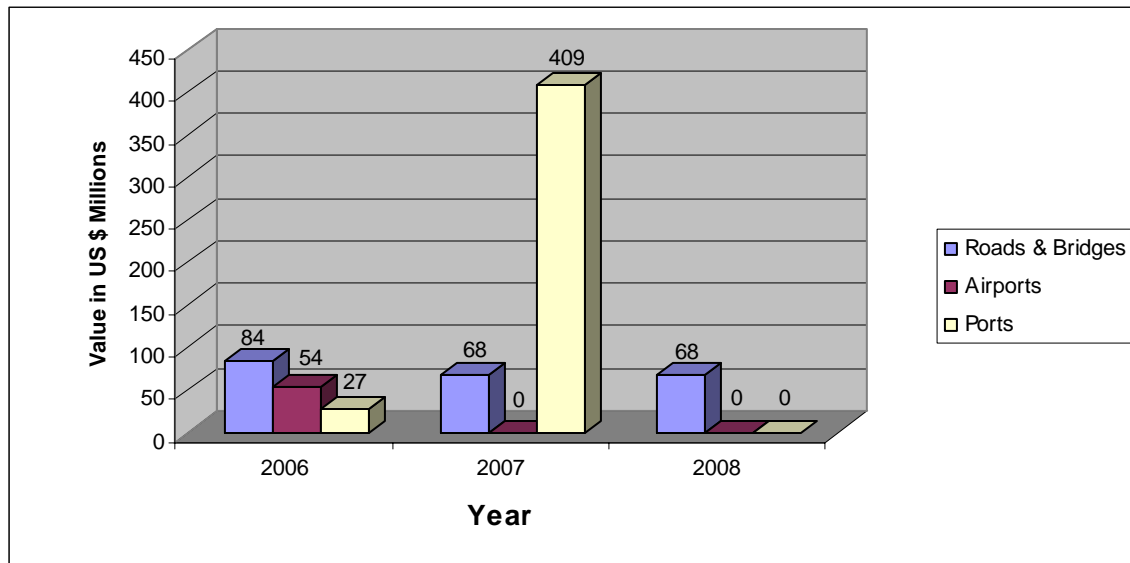
As can be seen from the bar-chart above, the total market value for new Roads & Bridges construction projects awarded/expected to be awarded to main contractor in Ajman Emirate for the year 2006 is estimated at US\$71 Million. The total value for new Roads & Bridges, Airports and Ports construction projects for the year 2007 is estimated at US\$354 Million with Airports contributing 76.84%, Roads & Bridges and Ports representing 19.21% and 3.95% respectively. The total value for the year 2008 is estimated at US\$477 Million with Airports contributing 85.74% and Roads & Bridges representing 14.26% respectively.

The total market value for new Roads & Bridges, Airports and Ports construction projects awarded/expected to be awarded to main contractor in Ajman Emirate for the period 2006 to 2008 is estimated at US\$902 Million.

As represented in the bar chart, the contractor awards for airport projects accounts for 75.50% (US\$681 Million) during 2006 to 2008, witnessing an average annual growth rate of 50.37%. The contractor awards for Roads & Bridges projects represents 29.95% (US\$207 Million) where as the remaining 1.55% (US\$14 Million) is attributed to awards on Port projects. No railway projects are expected to be awarded to contractors during the period 2006 to 2008 in Ajman.

3.3.2.5 Estimated Market Value for new Roads & Bridges, Airports, Ports and Railways & Monorail construction projects awarded/expected to be awarded to main contractor in Ras Al Khaimah Emirate for the years 2006, 2007 and 2008.

Figure 3-13: Infrastructure Construction Contract Awards in Ras Al Khaimah for the period 2006-2008



Source: Ventures Middle East GCC Projects Database (March 2006 Edition) – www.ventures-uk.com

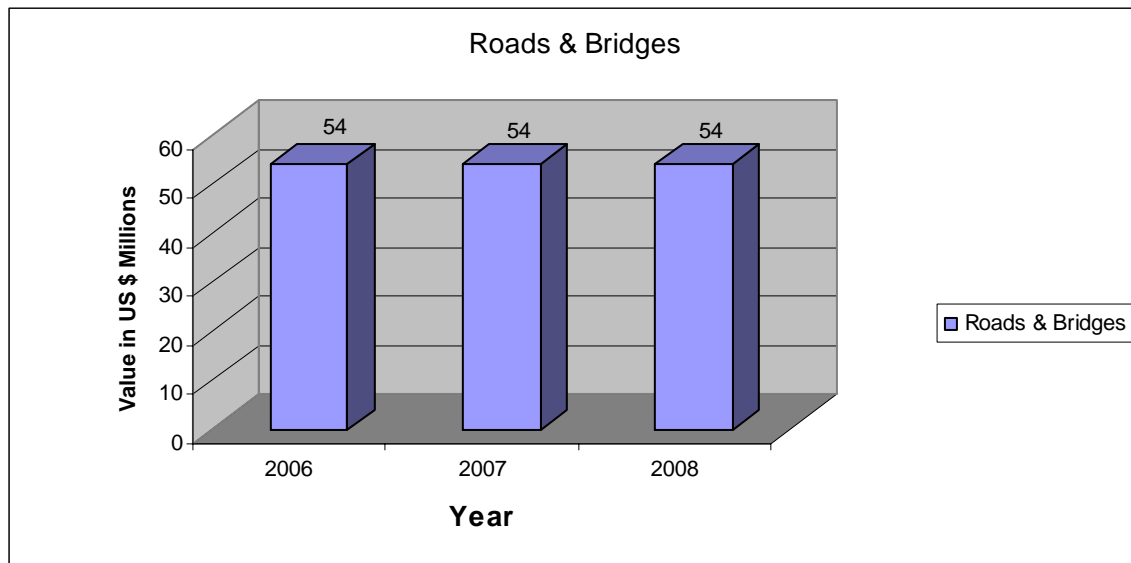
As illustrated in the bar-chart above, the total market value for new Roads & Bridges, Airports and Ports construction projects awarded/expected to be awarded to main contractor in Ras Al Khaimah Emirate for the year 2006 is estimated at US\$165 Million. Roads & Bridges projects constitute 50.91% of the total value, the remaining split between Airports (32.73%) and Ports (16.36%) in 2006. The total value for the year 2007 is estimated at US\$477 Million distributed between Ports (85.74%) and Roads & Bridges (14.26%). The total value for the year 2008 is estimated at US\$68 Million with Roads & Bridges contributing all the 100%.

The total market value for new Roads & Bridges, Airports and Ports construction projects awarded/expected to be awarded to main contractor in Ras Al Khaimah Emirate for the period 2006 to 2008 is estimated at US\$710 Million.

As represented in the bar chart, the contractor awards for Port projects accounts for 61.41% (US\$436 Million) during 2006 to 2008. The contractor awards for Roads & Bridges projects represents 30.99% (US\$220 Million) where as the remaining 7.61% (US\$54 Million) is attributed to awards on Airport projects. No railway projects are expected to be awarded to contractors during the period 2006 to 2008 in Ras Al Khaimah.

3.3.2.6 Estimated Market Value for new Roads & Bridges, Airports, Ports and Railways & Monorail construction projects awarded/expected to be awarded to main contractor in Umm Al Quwain Emirate for the years 2006, 2007 and 2008.

Figure 3-14: Infrastructure Construction Contract Awards in Umm Al Quwain for the period 2006-2008



Source: Ventures Middle East GCC Projects Database (March 2006 Edition) – www.ventures-uk.com

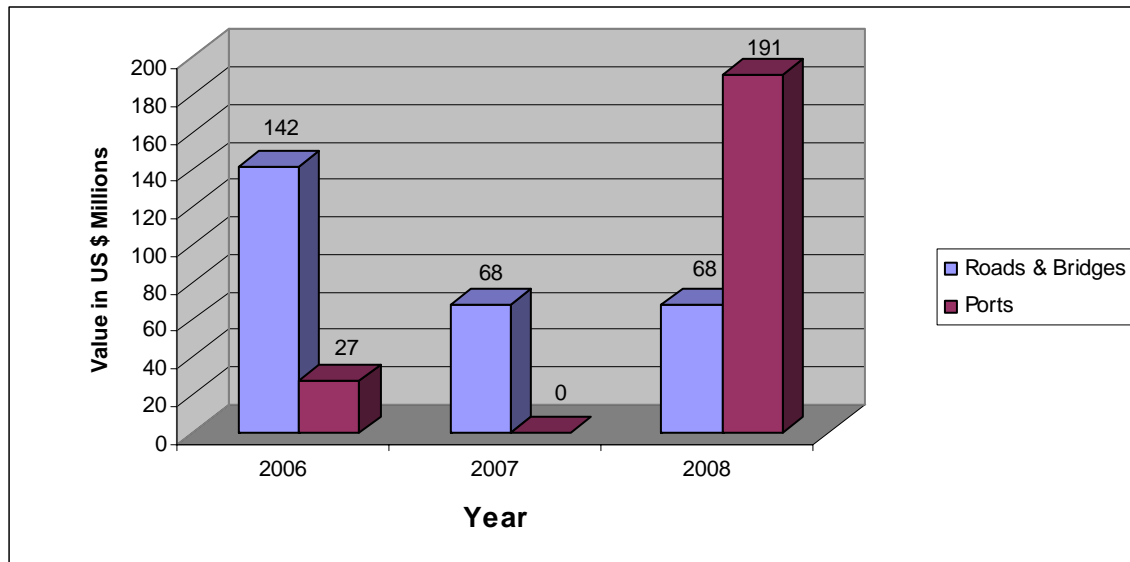
As can be seen from the bar-chart above, the market value for new Roads & Bridges projects awarded/expected to be awarded to main contractor in Umm Al Quwain Emirate for the years 2006, 2007 and 2008 is estimated at US\$54 Million each year.

The total market value for new Roads & Bridges construction projects awarded/expected to be awarded to main contractor in Umm Al Quwain Emirate for the period 2006 to 2008 is estimated at US\$162 Million.

No Airports, Ports and Railways & Monorail projects are expected to be awarded to contractors during the period 2006 to 2008 in Umm Al Quwain.

3.3.2.7 Estimated Market Value for new Roads & Bridges, Airports, Ports and Railways & Monorail construction projects awarded/expected to be awarded to main contractor in Fujairah Emirate for the years 2006, 2007 and 2008.

Figure 3-15: Infrastructure Construction Contract Awards in Fujairah for the period 2006-2008



Source: Ventures Middle East GCC Projects Database (March 2006 Edition) – www.ventures-uk.com

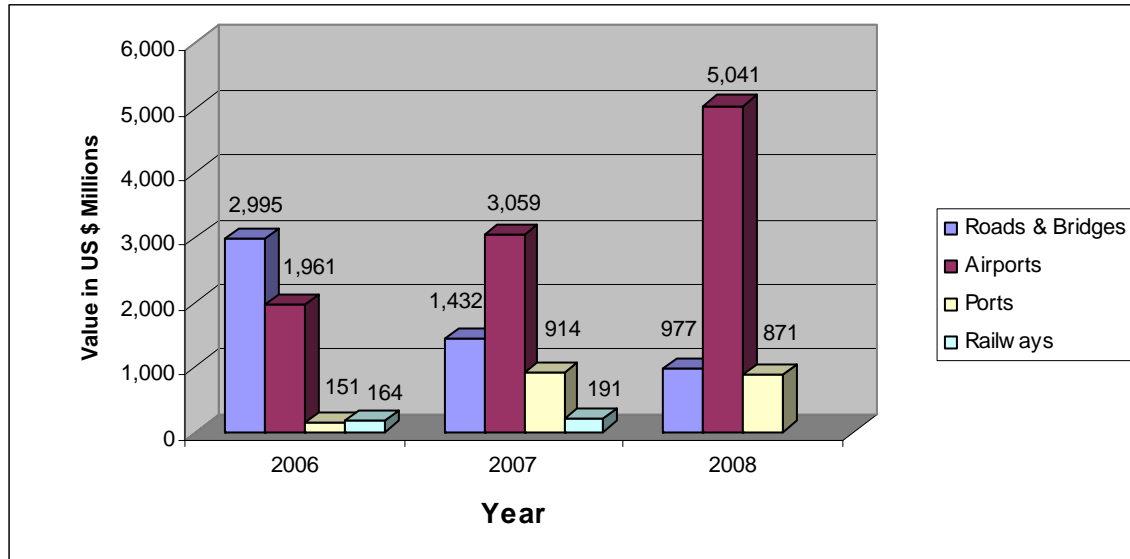
As can be seen from the bar-chart above, the total market value for new Roads & Bridges and Ports construction projects awarded/expected to be awarded to main contractor in Fujairah Emirate for the year 2006 is estimated at US\$169 Million. Roads & Bridges projects constitute 84.02% of the total value while the remaining 15.98% is credited to Ports projects. The total value for the year 2007 is estimated at US\$68 Million with Roads & Bridges representing all the 100%. The total value for the year 2008 is estimated at US\$259 Million with Roads & Bridges and Ports representing 26.25% and 73.75% respectively.

The total market value for new Roads & Bridges and Ports construction projects awarded/expected to be awarded to main contractor in Fujairah Emirate for the period 2006 to 2008 is estimated at US\$496 Million.

As highlighted in the bar chart above, the contractor awards for Roads & Bridges projects accounts for 56.05% (US\$278 Million) during the period 2006 to 2008. The remaining 43.95% (US\$218 Million) is attributed to awards on Port projects. No Airports and Railways & Monorail projects are expected to be awarded to contractors during the period 2006 to 2008 in Fujairah.

3.3.2.8 Estimated Market Value for new Roads & Bridges, Airports, Ports and Railways & Monorail construction projects awarded/expected to be awarded to main contractor in UAE (All Emirates) for the years 2006, 2007 and 2008.

Figure 3-16: Infrastructure Construction Contract Awards in UAE for the period 2006-2008



Source: Ventures Middle East GCC Projects Database (March 2006 Edition) – www.ventures-uk.com

Notes:

- At the time of report writing, there is an uncertainty over the proposed airport project being planned in Ajman and the project may be cancelled altogether. All the values mentioned under Ajman Airport will be reduced to Nil if the project is cancelled.

As illustrated in the bar-chart above, the total market value for new Roads & Bridges, Airports, Ports and Railways & Monorail construction projects awarded/expected to be awarded to main contractor in the UAE for the year 2006 is estimated at US\$5,271 Million. Roads & Bridges projects constitute 56.82% of the total value, the remaining split between Airports (37.2%), Ports (2.86%) and Railways (3.11%) in 2006. The total value for the year 2007 is estimated at US\$5,596 Million with Airports contributing 54.66%, Roads & Bridges representing 25.59% and the remaining distributed between Ports (16.33%) and Railways (3.41%). The total value for the year 2008 is estimated at US\$6,889 Million with Airports contributing 73.17%, Roads & Bridges and Ports representing 14.18% and 12.64% respectively.

The total market value for new Roads & Bridges, Airports, Ports, Railways & Monorail construction projects awarded/expected to be awarded to main contractor in the UAE for the period 2006 to 2008 is estimated at US\$17,756 Million.

As highlighted in the bar chart above, the contractor awards for airport projects accounts for 56.67% (US\$10,061 Million) during the period 2006 to 2008, witnessing an average annual growth rate of 60.39%. The contractor awards for Roads & Bridges represents 30.43% (US\$5,404 Million) witnessing an average annual decline rate of 41.98%. The contractor awards for Ports represents 10.90% (US\$1,936 Million) witnessing an average annual growth rate of 250.3%. The remaining 2% (US\$355 Million) is attributed to awards on Railways & Monorail projects.

3.4 ROADS & BRIDGES

3.4.1 MAJOR ROADS & BRIDGES CLIENTS IN THE UAE

The following are the major Roads and Bridges clients in the UAE:

1. Abu Dhabi Municipality
2. Al Ain Municipality
3. Dubai Municipality – Dubai Road Transport Authority
4. Ministry of Public Works & Housing
5. Sharjah Municipality
6. Ajman Municipality
7. Fujairah Municipality
8. Ras Al Khaimah Municipality
9. Umm Al Quwain Municipality

The following section will detail the major projects handled by each of the above stated firms including their full contact details.

Abu Dhabi

1. Abu Dhabi Municipality
P.O. Box: 263
Abu Dhabi
Tel: 02 – 6788888
Fax: 02 – 6774919
Mr. Ahmed Saif Butty Al Khubaisy – Under Secretary
Mr. Said Khalban Rumaithy - Manager

Current Major Projects:

1. New Gayati – Liwa Road
2. Khalifa City Interchange
3. Construction of Road in Bani Yas and Al Heelieh
4. New Road in Abu Dhabi

5. Internal Roads in Khalifa City B
6. Roads and Interchange in Al Falah Area
7. Sea Palace Tunnel Interchange
8. Road Between Arada and Barir Police Station
9. Roads and Parking in Mussafah East & West
10. Roads and Parking in various Areas of Abu Dhabi
11. Roads in different Sectors in Abu Dhabi
12. Construction and Maintenance of Al Bahia Corniche Road
13. Internal Roads in Khalifa City B –Phase 3 & 4
14. Roads and Car Parking at Sas Al Nakel
15. Internal Roads for Low Cost Houses in Liwa
16. Interior Roads in Abu Dhabi – Phase 15
17. Roads in Khalifa City A
18. Roads in Eastern & Western Mussafah
19. Sheikh Zayed Bridge Crossing
20. Abu Dhabi - Dubai Highway
21. Mafraq - Saudi Road Upgrade
22. Construction Of Road to Al Ajban Camp
23. Internal Roads in Abu Dhabi
24. Road Expansion in Abu Dhabi
25. Dualling of Al Ain, Al Waqan, Al Quouh Road (1)
26. Dualling of Al Ain, Al Waqan, Al Quouh Road (2)
27. Dualling of Al Ain, Al Waqan, Al Quouh Road (3)
28. Dualling of Al Ain, Al Waqan, Al Quouh Road (4)
29. Bridge to Connect Khalifa City A with Umm Al Nar/ Al Shahamah Road

2. Al Ain Municipality

P.O. Box: 1003

Al Ain

Tel: 03 – 7635111

Fax: 03 –7633288

Mr. Sulaiman Mohammed Shwaeb Al Khoory – Director of Roads Directorate

Mr. Abdullah Hamdan – Asst. Director of Roads Directorate

Current Major Projects:

1. Al Ain International Airport Bypass
2. Internal Roads in Umm Ghafa, Al Ain
3. Intercontinental R/A to Katm Shaklah R/A Road Dev.
4. Development of Roads in Al Ain

Dubai

3. Dubai Municipality - Dubai Road Transport Authority

P.O. Box: 118899

Dubai

Tel: 04-2065333

Fax: 04-2065557

Ms. Maitha Bin Adai – Director, Roads Division
Mr. Nabeel Mohammed Faleh – Head of Roads Planning & Design Division
Mr. Sameh Al Ziny – Senior Engineer

Dubai Road Transport Authority took over responsibility of Road Projects from Dubai Municipality in November 2005.

Current Major Projects:

1. Rebuilding of Bridge No.6 on Shk. Zayed Road
2. Rebuilding of Bridge No.7 on Shk. Zayed Road
3. Rebuilding of Bridge No.8 on Shk. Zayed Road
4. Al Garhoud Bridge Corridor
5. Palm Island 1 Corridor and Access
6. Al Safouh Interchange
7. Third Bridge Over Dubai Creek
8. Ras Al Khor Crossing
9. Interchange 4 3/4
10. Elevated 3 lane Dual Carriageway in Dubai
11. Interchange 5
12. Dubai Bypass Widening Project
13. Al Barsha South Roads Project
14. Mirdiff Interchange
15. Widening of Emirates Road in Al Aweer
16. Jebel Ali-Lehbab Road Upgrade
17. Al Khawaneej Road Project
18. Al Ittihad Road Improvement Scheme
19. Improvement of 4 Junctions in Deira
20. Rebuilding of Bridge No.1 on Shk. Zayed Road
21. WTC-Interchange 3 Road Widening
22. Jumeirah Beach Road Widening
23. New Junction on Sheikh Zayed Highway
24. Al Sofouh District Road Improvement-Packs 1 & 2
25. Al Sofouh District Road Improvement Pack 4 & 5
26. Fifth Crossing Over Dubai Creek
27. Emirates Road Improvement
28. Two Parallel Highways to Sheikh Zayed Road

4. Ministry of Public Works & Housing
P.O. Box: 1828
Dubai
Tel: 04-2610001
Fax: 04-2125653
Mr. Ibrahim Al Nahabi – Director
Mr. Ibrahim Abdul Malik – Asst. Director

Ministry of Public Works & Housing - Roads division is responsible for Federal Roads throughout the country.

Current Major Projects:

1. Fujariah-Khorfakhan Road
2. Dibba-Khorfakkan Road Dualization
3. RAK Airport to Seaport Road Upgrade
4. Design and Accomplishment of Roads (Grp.1)
5. Design and Accomplishment of Roads (Grp.2)
6. Roads in Northern Emirates
7. Sharjah-Fujairah Road

Sharjah

5. Sharjah Municipality (Directorate of Public Works)

P.O. Box: 22

Sharjah

Tel: 06 – 5658555

Fax: 06 – 5626455

Mr. Anwar Labi – Head of Roads Section

Mr. Caesar – Head of Traffic Section

Current Major Projects:

1. King Faisal Square Interchange in Sharjah
2. Interchange near Wasit Power Station
3. Al Khan Lagoon – Roads & Bridges
4. Sharjah Ring Road – Phase 2
5. Improvements to Al Arouba Road

Ajman

6. Ajman Municipality

P.O. Box: 3

Ajman

Tel: 06-7422331

Fax: 06-7422230

Mr. Ahmed Abdul Razak – Asst. General Manager Technical Affairs

Mr. Abbas Khalil – Traffic Manager

Current Major Projects:

1. Sheikh Rashid Bin Humaid Al Nuaimi Road in Ajman

Fujairah

7. Fujairah Municipality

P.O. Box: 7

Fujairah

Tel: 09-2227000

Fax: 09-222231

Mr. Suhail Iqbal – Chief Engineer
Mr. Vasavan – Surveyor

Ras Al Khaimah

8. Ras Al Khaimah Municipality
P.O. Box: 1661
Ras Al Khaimah
Tel: 07 – 2285688
Fax: 07-2270035
Mr. Michel Sakkal - Public Manager

Umm Al Quwain

9. Umm Al Quwain Municipality
P.O.Box: 12
Umm Al Quwain

Tel: 06-7656145
Fax: 06-7655138
Mr. Abdu – Engineer, Roads Section

3.4.2 MAJOR ROADS & BRIDGES CONSULTANTS IN THE UAE

The following are the major Roads and Bridges consultants in the UAE:

1. Ace International
2. Ahmed Abdul Warith
3. Al Torath Engineering Consultants
4. Al Burj Engineering Consultants
5. Cansult Limited
6. Concer Consulting Engineering Services
7. Dorsch Consult
8. Frederic R. Harris
9. Gibb Limited
10. Halcrow International Partnership
11. High Point Rendel
12. Hyder Consulting Middle East Limited
13. Italconsult
14. Jouzy & Partners
15. Maunsell Consultancy Services
16. Parkman Cosultants Limited
17. Parsons De Leuw Cather International

18. Systra
19. Wilbur Smith & Associates

The following section will detail the major projects handled by each of the above stated firms including their full contact details.

1. Ace International
P.O. Box 47302
Abu Dhabi
Tel: 02-6447764
Fax: 02-6447746
Mr. Mukhlis Sharour – Area Manager
Mr. Fadi Habib – Project Manager

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Overhead Bridge in Al Bahia Area	AD Municipality	35
Internal Roads at Khalifa City (B) - Phase 3 (Contract No. 973)	AD Municipality	-/-
Internal Roads at Khalifa City (B) - Phase 3 (Contract No. 973/1)	AD Municipality	-/-

2. Ahmed Abdul Warith
P.O. Box: 44485
Abu Dhabi
Tel: 02-6778500
Fax: 02-6778552
Mr. Mohammed Fawzi – General Manager
Mr. Hany Wahid – Project Manager

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Internal Roads in Khalifa City B - Phase 4 (Contract No. 993/1)	AD Municipality	-/-
Internal Roads in Khalifa City B	AD Municipality	110

3. Al Torath Engineering Consultants
P.O. Box: 4644
Abu Dhabi
Tel: 02-6775900
Fax: 02-6788620
Mr. Mazan Al Jabi – General Manager
Mr. Bassam Al Sharli – Head of Division

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Roads and Parking in Mussafah East & West	AD Municipality	45

4. Al Burj Engineering Consultants
P.O. Box: 46201
Abu Dhabi
Tel: 02-6212600
Fax: 02-6344644
Mr. Saad Sathi – General Manager
Mr. Mehmood Al Jinji – Project Manager

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Al Barsha South Roads Project	DB Municipality	190
Mirdiff Interchange	DB Municipality	70

5. Cansult Ltd.
P.O. Box: 53
Abu Dhabi
Tel: 02-6446660
Fax: 02-6446696
Mr. Riyadh Nachif – Vice President
Mr. Robert Britton – Project Manager

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Al Ain International Airport Bypass	Al Ain Municipality	200
Jebel Ali-Lehbab Road Upgrade	DB Municipality	147
8 th Interchange on Shk. Zayed Road	DRTA	-/-
Al Khawaneej Road Project	DB Municipality	30

6. Concer Consulting Engineering Services
P.O. Box: 65002
Dubai
Tel: 04-2824321
Fax: 04-2825042
Dr. Jihad Zambarakzi – Chairman & General Manager
Mr. Jihad Tarkawi – Resident Manager

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Design and Accomplishment of Roads (Grp.1)	MOPW	-/-
Design and Accomplishment of Roads (Grp.2)	MOPW	-/-
Roads in Northern Emirates	MOPW	100

7. Dorsch Consult
P.O. Box: 26417
Abu Dhabi
Tel: 02-6721923
Fax: 02-6720809
Mr. Michael Kedo – General Manager
Mr. Iyman Heikal – Chief Resident Engineer

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Construction Of Road to Al Ajban Camp	Abu Dhabi Municipality	-/-

8. Frederic R. Harris
P.O. Box: 44296
Tel: 02-6772008
Fax: 02-6771003
Mr. Riyadh Farah – General Manager
Mr. Mossadaq Addas – Project Manager

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Interchange near Sweihan Roundabout	AD Municipality	100
Roads in Khalifa City (A)	AD Municipality	130
Roads and Interchange in Al Falah Area	AD Municipality	55
Roads and Parking in Various Areas of AUH	AD Municipality	80

9. Gibb Limited
P.O. Box: 528
Abu Dhabi
Tel: 02-6744641
Fax: 02-6721558
Mr. Jean Kelly – Regional Manager
Mr. Greg Smith – Manager Projects

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Internal Roads in Umm Ghafa, Al Ain	Al Ain Municipality	90
Mafrag - Saudi Road Upgrade	Abu Dhabi Municipality	-/-

Internal Roads in Abu Dhabi	Abu Dhabi Municipality	35
Road between Arada & Barir Police Station	Abu Dhabi Municipality	40
Internal Roads for Low Cost Houses in Liwa	Abu Dhabi Municipality	41
Interior Roads in Abu Dhabi, Phase 15	Abu Dhabi Municipality	85

10. Halcrow International Partnership

P.O. Box: 360

Dubai

Tel: 04-3370380

Fax: 04-3379239

Mr. John Heck – Managing Director

Mr. Jim Sokoloski – Regional Director

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Al Khan Lagoon – Roads & Bridges	Sharjah Municipality (DPW)	200
Sharjah Ring Road – Phase 2	Sharjah Municipality (DPW)	630
King Faisal Square Interchange in Sharjah	Directorate of Public Works	43
Al Garhoud Bridge Corridor	DRTA	-/-
New Garhoud Bridge	DRTA	600
Interchange near Wasit Power Station	Directorate of Public Works	-/-
Improvements to Al Arouba Road	Sharjah Municipality (DPW)	-/-
Wasit Road Interchanges	Directorate of Public Works	-/-
Bridges on King Abdul Aziz Road	Sharjah Municipality (DPW)	-/-
Infrastructure Works at Knowledge Village	Tecom	110
RAK Airport to Seaport Road Upgrade	Ministry of Public Works & Housing	100

11. High Point Rendel

P.O. Box: 43441

Abu Dhabi

Tel: 02-6788977

Fax: 02-6786796

Mr. Mike King – Project Manager

Mr. Allan Pugh – Resident Engineer

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Sheikh Zayed Bridge Crossing	Abu Dhabi Municipality	630
Internal Roads in Al Shabia- Al Ain	Abu Dhabi Municipality	10

12. Hyder Consulting Middle East Ltd.

P.O.Box: 2774

Abu Dhabi

Tel: 02-6333400

Fax: 02-6330746

Mr. Roger Howard – General Manager

Mr. Marwan Ghannam – Design Manger

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Roads, Storm Drains & Sewerage in Al Bagh-Al Bateen	Al Ain Municipality	82

13. Italconsult

P.O. Box: 23461

Dubai

Tel: 04-3378875

Fax: 04-3378668

Mr. Roger Hockley – Branch Manager

Mr. Anglo Chessie – Chief Engineer

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Road from Al Khatem Slaughter house to Al Ain Fertilizer Plant	Abu Dhabi Municipality	60
Road from Al Khatem Slaughter house to Al Ain Fertilizer Plant	Abu Dhabi Municipality	70
Dualling of Al Ain, Al Waqan, Al Quouh Road (1)	Abu Dhabi Municipality	100
Dualling of Al Ain, Al Waqan, Al Quouh Road (2)	Abu Dhabi Municipality	150
Dualling of Al Ain, Al Waqan, Al Quouh Road (3)	Abu Dhabi Municipality	155
Dualling of Al Ain, Al Waqan, Al Quouh Road (4)	Abu Dhabi Municipality	160
Widening of Emirates Road in Al Aweer	DB Municipality	60
Improvement of 4 Junctions in Deira	DB Municipality	75

14. Jouzy & Partners
P.O. Box: 14357
Dubai
Tel: 04-2959802
Fax: 04-2959252
Mr. Raja Jouzy – General Manager
Mr. Mark Nasseh – Project Co-ordinator

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Fujariah-Khorfakhan Road	Ministry of Public Works	-/-

15. Maunsell Consultancy Services
P.O. Box: 43266
Abu Dhabi
Tel: 02-6713851
Fax: 02-6725595
Dr. Walid Mahmoud – CEO
Mr. James Kerr – Technical Director (Infrastructure)

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Seven Underpasses in Al Ain - Phase 2	Al Ain Municipality	168
Construction of Road in Bani Yas and Al Heeliah	Abu Dhabi Municipality	185
Road Expansion in Abu Dhabi	Abu Dhabi Municipality	60
Truck Tunnel at DIFC	Dubai Properties	387

16. Parkman Consultants Ltd.
P.O. Box: 984
Abu Dhabi
Tel: 02-6458308
Fax: 02-6456320
Mr. Lee Woodly – General Manager
Mr. Robin Penman – International Business Director

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Abu Dhabi - Dubai Highway	Abu Dhabi Municipality	1,500

17. Parsons De Leuw Cather International
P.O. Box: 9123
Dubai
Tel: 04-3344931
Fax: 04-3367920
Mr. Hamed Zhgaw – Vice President
Mr. Tariq Atawi – Project Manager
Current major projects include:

Project Title	Client	Value Dhs (Mn)
Saadiyat Island Crossing Bridge	Abu Dhabi Municipality	1,400
Three Tunnels & Two Flyovers in Abu Dhabi	Abu Dhabi Municipality	624

Abu Dhabi Corniche Expansion	Abu Dhabi Municipality	680
Rebuilding of Bridge No.6 on Shk. Zayed Road	DRTA	100
Rebuilding of Bridge No.1 on Shk. Zayed Road	DRTA	-/-
Palm Island 1 Corridor and Access	DRTA	186
Khalifa City Interchange Project	Abu Dhabi Municipality	185
Al Safouh Interchange	DRTA	178
Third Bridge Over Dubai Creek	DRTA	400
Ras Al Khor Crossing	DRTA	1,100
Sea Palace Tunnel Interchange	Abu Dhabi Municipality	-/-
Tunnel for Jumeirah Palm Island	Nakheel Corporation	400
Service Tunnels for Jumeirah Palm Island	Nakheel Corporation	147
Interchange 4 3/4	DRTA	245
Interchange 5	DRTA	262
Improvement of Al Qudrah Road	Tatweer	65
Emirates Road Improvement	DRTA	228
WTC-Interchange 3 Road Widening	DRTA	82
2 Parallel Highways to Sheikh Zayed Road	DRTA	-/-
Roads & Car Parking at Sas Al Nakel	Abu Dhabi Municipality	45

18. Systra
P.O. Box: 111081
Dubai
Tel: 04-2230144
Fax: 04-2231088
Mr. Burchel Tani – Project Director
Mr. Dow Mahmood – Project Manager

Current major projects include:

Project Title				Client	Value Dhs (Mn)
Al Sofouh District Road Improvement				DRTA	-/-

19. Wilbur Smith & Associates
P.O. Box: 44212
Dubai
Tel: 04-3513337
Fax: 04-3590638
Mr. James Hakam Dib – Vice President
Mr. Steven Doerr – General Manager

Current major projects include:

Project Title				Client	Value Dhs (Mn)
Dubai Bypass Widening Project				DRTA	-/-

3.4.3 MAJOR ROADS & BRIDGES CONTRACTORS IN THE UAE

The following are the major Roads and Bridges contractors in the UAE:

1. ADMAK General Contracting
2. Al Fahajan Transport & General Contracting Company
3. Al Jaber Transport & General Contracting Establishment
4. Al Muhairy General Contracting
5. Al Nuaimi Group
6. Arabtec Constructions
7. Archirodon Construction Overseas
8. Ascon
9. Athena Construction
10. Bin Hafeez General Contracting & Transportation
11. Copri Constructions
12. Darwish Engineering Emirates
13. Dutco Balfour Beatty
14. Emirates Road Contracting

15. Ghantoot Contracting
16. Hilalco LLC
17. Overseas AST Company Limited
18. Port Saeed Transport & Building Contracting Company
19. Saif Bin Darwish
20. Saudi Binladin Group
21. Sharjah General Contracting
22. Six Construct
23. Taisei Corporation
24. Wade Adams
25. Nurol LLC
26. National Wheel J&P

The following section will detail the major projects handled by each of the above stated firms including their full contact details.

1. ADMAK General Contracting
P.O. Box: 650
Abu Dhabi
Tel: 02-6264626
Fax: 02-6264636
Mr. Said Abul Fotouh – General Manager
Mr. Ali Maksood – Follow up Manager

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Roads, Storm Drains & Sewerage in Al Bagh-Al Bateen	Al Ain Municipality	82
Roads and Parking in Various Areas of AUH	Abu Dhabi Municipality	80

2. Al Fahajan Transport & General Contracting Company
P.O. Box: 1588
Al Ain
Tel: 03-7217444
Fax: 03-7218444
Mr. Qosai Ghosim – General Manager
Mr. Ibrahim Khatib – Manager

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Dualling of Al Ain, Al Waqan, Al Quouh Road (3)	Abu Dhabi Municipality	155
Interior Roads in Abu Dhabi, Phase 15	Abu Dhabi Municipality	85

3. Al Jaber Transport & General Contracting Establishment
P.O. Box: 2175
Abu Dhabi
Tel: 02-5554300
Fax: 02-5553370
Mr. Obaid Al Jaber – Chairman
Mr. Wahib Ghais – Managing Director

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Internal Roads in Umm Ghafa, Al Ain	Al Ain Municipality	90
New Gayathi - Liwa Road	Abu Dhabi Municipality	167
Road from Al Khatem Slaughter house to Al Ain Fertilizer Plant	Abu Dhabi Municipality	60
Dualling of Al Ain, Al Waqan, Al Quouh Road (1)	Abu Dhabi Municipality	100
Overhead Bridge in Al Bahia Area	Abu Dhabi Municipality	35

4. Al Muhairy General Contracting
P.O. Box: 46687
Abu Dhabi
Tel: 02-6334100
Fax: 02-6333394
Mr. Riad Al Asadi – General Manager
Mr. Hani Hamdan – Technical Manager

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Dubai – Fujairah Road, Contract 1	DRTA	225
Abu Dhabi Corniche Expansion	Abu Dhabi Municipality	680

5. Al Nuami Group
P.O. Box: 3
Ras Al Khaimah
Tel: 07-2221221
Fax: 07-2228222
Mr. Abdulla Al Nuami – General Manager
Mr. Rashid Al Nuami – Managing Director

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Fujairah-Khorfakkan Road	Ministry of Public Works & Housing	-/-

6. Arabtec Constructions
P.O. Box: 3399
Dubai
Tel: 04-3400700
Fax: 04-3404004
Mr. Thomas Barry – General Manager
Mr. Saswan Hamdala – Administration Manager

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Truck Tunnel at DIFC	Dubai Properties	387

7. Archirodon Construction Overseas
P.O. Box: 1930
Ajman
Tel: 06-5263646
Fax: 06-5263454

Mr. Imad Asad – Project Manager
Mr. Nektharios – Deputy Project Manager

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Sheikh Zayed Bridge Crossing	Abu Dhabi Municipality	630

8. Ascon
P.O. Box: 3532
Abu Dhabi
Tel: 02-6329129
Fax: 02-6329491
Mr. C. I. George – General Manager
Mr. Mohammed Ismail – Asst. General Manager

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Widening of Emirates Road in Al Aweer	DRTA	60

9. Athena Construction
P.O. Box: 54008
Abu Dhabi
Tel: 02-6447377
Fax: 02-6447985
Mr. Haris Giapsos – General Manager
Mr. Sotirios Kukias – Administration Manager

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Interchange near Wasit Power Station	Sharjah Municipality (DPW)	-/-

10. Bin Hafeez General Contracting & Transportation
P.O. Box: 47180
Abu Dhabi
Tel: 02-6455900
Fax: 02-6444463

Mr. Bisharag Kamel – General Manager (Contracts)
Mr. Jamal Mustafa – Administration Manager

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Road Expansion in Abu Dhabi	Abu Dhabi Municipality	60
Intercontinental R/A to Katm Shaklah R/A Road Dev.	Al Ain Municipality	40
Al Safouh Interchange	DRTA	178
Abu Dhabi - Dubai Highway - Pack 1B	Abu Dhabi Municipality	155

11. Copri Constructions

P.O. Box: 4233

Abu Dhabi

Tel: 02-6319626

Fax: 02-6319729

Mr. Awad Rabia – Deputy General Manager

Mr. Mohammed Al Misri – Project Manager

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Road from Al Khatem Slaughter house to Al Ain Fertilizer Plant	Abu Dhabi Municipality	70
Internal Roads in Abu Dhabi	Abu Dhabi Municipality	35
Dualling of Al Ain, Al Waqan, Al Quouh Road (4)	Abu Dhabi Municipality	160

12. Darwish Engineering Emirates

P.O. Box: 51

Abu Dhabi

Tel: 02-6393391

Fax: 02-6339970

Mr. Baha Al Nawmi – General Manager

Mr. Nimer Shadid – Administration Manager

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Design and Accomplishment of Roads (Grp.2)	MOPW	-/-
Roads in Northern Emirates	Ministry of Public Works	100

13. Dutco Balfour Beatty
P.O. Box: 233
Dubai
Tel: 04-8801010
Fax: 04-8801515
Mr. Graham Mc Caig – General Manager
Mr. Wail Farsakh – Project Manager

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Palm Island 1 Corridor and Access	DRTA	186
Ras Al Khor Crossing – Phase 2	DRTA	300
WTC-Interchange-3 Road Widening	DRTA	82

14. Emirates Road Contracting
P.O. Box: 19646
Dubai
Tel: 04-2638111
Fax: 04-2638222
Mr. Dawood Abu Shawish – Technical Manager
Mr. Maher Al Jurai – Project Manager

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Jumeirah Beach Road Widening	DRTA	120
Improvement of 4 Junctions in Deira	DRTA	75

15. Ghantoot Contracting

P.O. Box: 27397

Abu Dhabi

Tel: 02-6789834

Fax: 02-6789835

Mr. Darshan Singh – General Manager

Mr. Kulwinder Singh – Managing Director

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Roads and Interchange in Al Falah Area	Abu Dhabi Municipality	55
Road between Arada & Barir Police Station	Abu Dhabi Municipality	40
Internal Roads for Low Cost Houses in Liwa	Abu Dhabi Municipality	41

16. Hilalco L.L.C.

P.O. Box: 28177

Abu Dhabi

Tel: 02-4457700

Fax: 02-4457701

Mr. M.G. Spanos – General Manager

Mr. Mataz Tarmanini – Project Manager

17. Overseas AST Co. Ltd.

P.O. Box: 350

Dubai

Tel: 04-3381400

Fax: 04-3386131

Mr. Martin Bellamy – General Manager

Mr. Nabeel Helou – Project Manager

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Seven Pedestrian Bridges in Dubai	DRTA	21

18. Port Saeed Transport & Building Contracting Company

P.O. Box: 3457

Dubai

Tel: 04-2673388

Fax: 04-2673636

Mr. Mohammed Obaid Al Shaali – General Manager

Mr. Mohammed Fazan – Contracts Manager

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Al Khawaneej Road Project	DRTA	30

19. Saif Bin Darwish

P.O. Box: 29977

Abu Dhabi

Tel: 02-5584100

Fax: 02-5584424

Mr. Abdullah Darwish – Director

Mr. Adnan Naji - Contracts Manager

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Dualling of Al Ain, Al Waqan, Al Quouh Road (2)	Abu Dhabi Municipality	150
Design and Accomplishment of Roads (Grp.1)	Ministry of Public Works & Housing	-/-
Jebel Ali-Lehbab Road Upgrade	DRTA	147

20. Saudi Binladin Group

P.O. Box: 1555

Dubai

Tel: 04-2691500

Fax: 04-2667660

Mr. Midhat Ammari - Projects Manager

Mr. Mohamad Ali - Purchase Manager

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Jumeirah Beach Road Widening	DRTA	120

21. Sharjah General Contracting
P.O. Box: 4174
Sharjah
Tel: 06-5345222
Fax: 06-5344337
Mr. Marwan Al Zaiem - General Manager
Mr. Bassel Al Zaiem - Deputy MD

Current major projects include:

Project Title	Client	Value Dhs (Mn)
King Faisal Square Interchange in Sharjah	Sharjah Municipality (DPW)	43
Bridges on King Abdul Aziz Road	Sharjah Municipality(DPW)	-/-

22. Six Construct
P.O. Box: 13055
Dubai
Tel: 04-3472777
Fax: 04-3473512
Mr. Patrice Daens - General Manager
Mr. Y. Dawans - Deputy GM

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Palm Jumeirah Gateway	Nakheel Corporation	70
Al Safouh Interchange	DRTA	178
Ras Al Khor Crossing	DRTA	1,100
New Garhoud Bridge	DRTA	415

Contracts are carried out in Joint Venture with Belhasa Engineering.

23. Taisei Corporation
P.O. Box: 73898
Abu Dhabi
Tel: 02-6341005
Fax: 02-6341017
Mr. Toru Koizumi - General Manager
Mr. Kazumasa Kontani - Asst. Gen. Manager

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Tunnel for Jumeirah Palm Island	Nakheel Corporation	400

24. Wade Adams
P.O. Box: 4337
Dubai
Tel: 04-2666833
Fax: 04-2693039
Mr. Kyriakos Antzoulis – General Manager
Mr. Isham Taha Mukbil – Manager

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Interchange 4 3/4	DRTA	245
Interchange 5	DRTA	262

25. Nurol LLC
P.O. Box: 46254
Abu Dhabi
Tel: 02-6666810
Fax: 02-6663510
Mr. Ali Mirza – General Manager
Mr. Samir Ramadan – Contracts Manager

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Bridge Connecting Reem Island & Abu Dhabi	Private Department	-/-

26. National Wheel J & P
P.O. Box: 4624
Dubai
Tel: 04-2212248
Fax: 04-2284365
Mr. E. Antoniou – General Manager

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Dubai – Fujairah Road, Contract 2	DRTA	590

3.4.4 MAJOR ROADS & BRIDGES PROJECTS IN THE UAE

The following table provides a comprehensive list of major roads and bridges projects in the UAE.

Table 3-12: Major Roads & Bridges Projects in the UAE

No	Project Title	Client	Consultant	Contractor	Value Dhs(Mn)
1	Sheikh Zayed Bridge Crossing	AD Municipality	High Point Rendel	Archirodon Construction	630
2	Abu Dhabi-Dubai Highway (1B)	AD Municipality	Parkman Cons.	Multiple-See Ref.	155
3	Seven Underpasses in Al Ain - Phase 2	Al Ain Municip.	Maunsell Cons.	Not Appointed	168
4	Saadiyat Island Crossing Bridge	ADTA	Parsons International	Not Appointed	-/-
5	Interchange near Sweihan Roundabout	AD Municipality	Frederic R. Harris	Not Appointed	100

No	Project Title	Client	Consultant	Contractor	Value Dhs(Mn)
6	Internal Roads in Umm Ghafa, Al Ain	Al Ain Municip.	Gibb Limited	Al Jaber	90
7	Mafrq - Saudi Road Upgrade	AD Municipality	Gibb Limited	Not Appointed	-/-
8	Three Tunnels & Two Flyovers in Abu Dhabi	AD Municipality	Parsons De Leuw Cather	Not Appointed	624
9	Dubai-Fujairah Road	MOPW	Al Turath/Wilbur Smith	Al Muhairy/ National Wheel	815
10	Al Khan Lagoon – Roads & Bridges	Shj. PWD	Halcrow	Not Appointed	200
11	Abu Dhabi Corniche Expansion-Ph 2	AD Municipality	Parsons De Leuw Cather	Al Muhairy General Cont.	500
12	Rebuilding of Bridge No.6 on Shk. Zayed Road	DB Municipality	Parsons De Leuw Cather	Not Appointed	100
13	Rebuilding of Bridge No.1 on Shk. Zayed Road	DB Municipality	Parsons De Leuw Cather	Not Appointed	-/-
14	King Faisal Square Interchange in Sharjah	DPW	Halcrow	Sharjah Gen. Cont.	43
15	Al Garhoud Bridge Corridor	DB Municipality	Halcrow	Not Appointed	-/-
16	New Garhoud Bridge	DB Municipality	Halcrow	Belhasa Six Construct	415
17	Tunnel linking Airport Road & Khalifa Street	AD Municipality		Not Appointed	-/-
18	Internal Roads in Al Shabia- Al Ain	AD Municipality	High Point Rendel	Not Appointed	10
19	Roads & Sewerage in Al Bagh-Al Bateen	Al Ain Municip.	Hyder Consulting	ADMAK	82
20	Construction of Road in Bani Yas and Al Heeliah	AD Municipality	Maunsell Cons.	Not Appointed	185
21	Construction Of Road to Al Ajban Camp	AD Municipality	Dorsch Consult	Not Appointed	-/-
22	Internal Roads in Abu Dhabi	AD Municipality	Gibb Limited	Copri Constructions	35

No	Project Title	Client	Consultant	Contractor	Value Dhs(Mn)
23	Al Safouh Interchange	DB Municipality	Parsons De Leuw Cather	Belhasa Six Construct/Bin Hafeez	178
24	Improvements to Al Arouba Road	Shj. PWD	Halcrow	Not Appointed	-/-
25	New Road in Abu Dhabi	AD Municipality	Not Appointed	Not Appointed	-/-
26	Fujariah-Khorfakhan Road	MOPW	Jouzy & Partners	Al Nuaimi Group	-/-
27	Road Expansion in Abu Dhabi	AD Municipality	Maunsell Cons.	Bin Hafeez	60
28	Ras Al Khor Crossing	DB Municipality	Parsons De Leuw Cather	DBB/Belhasa Six	1,100
29	Palm Jumeirah Gateway	Nakheel Corp.	H2L2/Leonhardt Andra & Partner	Belhasa Six Construct	70
30	Roads and Interchange in Al Falah Area	AD Municipality	Frederic R. Harris	Ghantoot Contracting	55
31	Mina Seyahi Expansion	Nakheel Corp.	Halcrow	Not Appointed	100
32	Tunnel for Jumeirah Palm Island	Nakheel Corp.	Parsons De Leuw Cather	Taisei Corp.	400
33	Service Tunnels for Jumeirah Palm Island	Nakheel Corp.	Parsons De Leuw Cather	Al Naboodah Engineering Services	147
34	Wasit Road Interchanges	Shj. Municipality	Halcrow	Not Appointed	-/-
35	Road between Arada & Barir Police Station	AD Municipality	Gibb Limited	Ghantoot Contracting	40
36	Dualling of Al Ain, Al Waqan, Al Quouh Road (1)	AD Municipality	Italconsult	Al Jaber	100
37	Dualling of Al Ain, Al Waqan, Al Quouh Road (2)	AD Municipality	Italconsult	Saif Bin Darwish Co.	150
38	Dualling of Al Ain, Al Waqan, Al Quouh Road (3)	AD Municipality	Italconsult	Al Fahajan	155
39	Roads & Parking in Mussafah East & West	AD Municipality	Al Torath	Not Appointed	45
40	Overhead Bridge in Al Bahia Area	AD Municipality	Ace International	Al Jaber	35

No	Project Title	Client	Consultant	Contractor	Value Dhs(Mn)
41	Dualling of Al Ain, Al Waqan, Al Quouh Road (4)	AD Municipality	Italconsult	Copri Constructions	160
42	Khalfa City A-Umm Al Nar/ Al Shahamah Road Bridge	AD Municipality	Not Appointed	Not Appointed	-/-
43	Roads and Parking in Various Areas of AUH	AD Municipality	Frederic R. Harris	ADMAK	80
44	Roads in Different Sectors of AUH	AD Municipality		Not Appointed	-/-
45	Const. and Maint. of Al Bahia Corniche Road	AD Municipality		Not Appointed	-/-
46	Interchange 4 3/4	DB Municipality	Parsons De Leuw Cather	Wade Adams	245
47	Abu Dhabi - Qatar Causeway	AUH and Qatar Govt.s	Not Appointed	Not Appointed	-/-
48	Elevated 3 lane Dual Carriageway in Dubai	DRTA	Not Appointed	Not Appointed	-/-
49	Interchange 5	DB Municipality	Parsons De Leuw Cather	Wade Adams	262
50	Dubai Bypass Widening Project	DB Municipality	Wilbur Smith and Ass.	Al Naboodah Contracting	-/-
51	Bridges on King Abdul Aziz Road	Shj. Municipality	Halcrow	Sharjah Gen. Cont.	-/-
52	Al Barsha South Roads Project	DB Municipality	Aricon/Al Burj Engg. Consultants	Not Appointed	190
53	Mirdiff Interchange	DB Municipality	Aricon/Al Burj Engg. Cons.	Not Appointed	70
54	WTC-Interchange 3 Road Widening	DB Municipality	Parsons De Leuw Cather	Not Appointed	82
55	Intercontinental R/A to Katm Shaklah R/A Road	Al Ain Municip.	Stipe/Ideal Design	Bin Hafeez	40
56	Jumeirah Beach Road Widening	DB Municipality		ERC/SBG	120
57	Widening of Emirates Road in Al Aweer	DB Municipality	Italconsult	Ascon	60
58	Roads & Car Parking at Sas Al Nakel	AD Municipality	Parsons De Leuw Cather	Not Appointed	45

No	Project Title	Client	Consultant	Contractor	Value Dhs(Mn)
59	Internal Roads in New Saroj	Al Ain Municip.		Not Appointed	-/-
60	Infrastructure Works at Knowledge Village	Tecom	Halcrow	Not Appointed	110
61	Jebel Ali-Lehbab Road Upgrade	DB Municipality	Cansult	Bin Hafeez/Saif Bin Darwish	147
62	The Villa Project-Infrastructure Package	Dubai Properties	Maunsell Cons.	Not Appointed	110
63	Seven Pedestrian Bridges in Dubai	DB Municipality	Overseas Ast	Overseas Ast	21
64	Al Khawaneej Road Project	DB Municipality	Cansult	Port Saeed Transport	30
65	Internal Roads for Low Cost Houses in Liwa	AD Municipality	Gibb Limited	Ghantoot Contracting	41
66	Al Ittihad Road Improvement	DB Municipality	Cansult	Not Appointed	700
67	RAK Airport to Seaport Road Upgrade	MOPW	Halcrow	Not Appointed	100
68	Development of Roads in Al Ain	Al Ain Municip.		Not Appointed	-/-
69	Design and Accomplishment of Roads (Grp.1)	MOPW	Concer Consulting	Saif Bin Darwish	-/-
70	Design and Accomplishment of Roads (Grp.2)	MOPW	Concer Consulting	Darwish Engineering	-/-
71	Improvement of 4 Junctions in Deira	DB Municipality	Italconsult	Emirates Road Contracting	75
72	Bridge Linking Wellness Village and The Seven Pearls	Dubai Properties		Not Appointed	-/-
73	Interior Roads in Abu Dhabi, Ph. 15	AD Municipality	Gibb Limited	Not Appointed	85
74	Truck Tunnel at DIFC	Dubai Properties	Maunsell Cons.	Arabtec	387
75	Roads in Northern Emirates	MOPW	Concer Consulting	Darwish Engg. Emirates	100
76	Jebel Ali Container Terminal – Infra. Package	DPCFZC	Scott Wilson	Not Appointed	250

No	Project Title	Client	Consultant	Contractor	Value Dhs(Mn)
77	Sheikh Rashid Bin Humaid Al Nuaimi Road in Ajman	Ajman Govt.		Not Appointed	-/-
78	New Junction on Sheikh Zayed Highway	DRTA	Parsons De Leuw Cather	Not Appointed	-/-
79	Al Sofouh District Road Improvement-Packs 1 & 2	DRTA	MVA Systra	Not Appointed	208
80	Al Sofouh District Road Improvement Pack 4 & 5	DRTA	MVA Systra	Not Appointed	-/-
81	Roads in Khalifa City (A)	AD Municipality	Frederic R. Harris	Not Appointed	130
82	Fifth Crossing in Dubai	DRTA	Not Appointed	Not Appointed	-/-
83	Roads in Eastern & Western Mussafah	AD Municipality		Not Appointed	60
84	Improvement of Al Qudrah Road	Tatweer	Parsons De Leuw Cather	Not Appointed	65
85	Emirates Road Improvement	DRTA	Parsons De Leuw Cather	Not Appointed	228
86	2 Parallel Highways to Sheikh Zayed Road	DRTA	Parsons De Leuw Cather	Not Appointed	-/-
87	8th Interchange for Sheikh Zayed Road	DRTA	Cansult	Not Appointed	-/-
88	Bridge Connecting Reem Island & Abu Dhabi	Private Department	The Consultant Engineering	Nurol	-/-
89	Sharjah - Fujairah Road	MOPW		Not Appointed	900

All the projects mentioned in the above table are explained in detail in Appendix A.

3.5 AIRPORTS

3.5.1 MAJOR AIRPORT CLIENTS IN THE UAE

The following are the major Airport clients in the UAE:

1. Supervision Committee for Expansion of Abu Dhabi Airport
2. Department of Civil Aviation, Al Ain
3. Department of Civil Aviation, Dubai
4. Department of Civil Aviation, Sharjah
5. Ajman Municipality
6. Department of Civil Aviation, Fujairah
7. Department of Civil Aviation, Ras Al Khaimah

The following section will detail the major projects handled by each of the above stated firms including their full contact details.

Abu Dhabi

1. Supervision Committee for Expansion of Abu Dhabi Airport (SCADIA) Abu Dhabi
P.O. Box: 38811
Abu Dhabi
Tel: 02-5095105
Fax: 02-5095050
Mr. Khalifa Al Mazroui – Chairman
Mr. Richard Cardosi – Programme Manager

Current Major Projects:

1. Abu Dhabi Airport Expansion

Al Ain

2. Department of Civil Aviation
P.O. Box: 1554
Al Ain
Tel: 03-7855555/ 03-7855100
Fax: 03-7855000
Al Ain Department of Civil Aviation comes under Abu Dhabi Department of Civil Aviation.

Dubai

3. Department of Civil Aviation, Dubai
P.O. Box: 2525
Dubai
Tel: 04-2245555
Fax: 04-2244074
Shk. Ahmed Bin Zayed Al Maktoum – Chairman
Mr. Mohammed Ahli – Director (Operations)

Current Major Projects:

1. Airport City in Jebel Ali
2. Dubai Cargo Village Expansion
3. Third Terminal at Dubai Int'l Airport
4. Expansion of Terminal 2 at DIA

Sharjah

4. Department of Civil Aviation, Sharjah
P.O. Box: 8
Sharjah
Tel: 06-5081003
Fax: 06-5581091
Shk. Abdullah Al Thani – Chairman
Dr. Ghanim Al Hajri – Director General

Current Major Project:

1. Sharjah Airport Expansion

Ajman

5. Ajman Municipality
P.O. Box: 3
Ajman
Tel: 06-7422331
Tel: 06-7422230
Mr. Ahmed Abdul Razak – Director Technical Department
Mr. Mohammed Al Muhairi – Asst. Engineer

Current Major Project:

1. Ajman International Airport

Fujairah

6. Department of Civil Aviation, Fujairah
P.O. Box: 977
Fujairah
Tel: 09-2226222
Fax: 09-2227229
Mr. Mohammed Abdulla Al Salami – Director
Mr. Khalid Al Mazroui – General Manager

Ras Al Khaimah

7. Department of Civil Aviation, RAK
P.O. Box: 501
Ras Al Khaima
Tel: 07-2448111
Fax: 07-2448199
Shk. Salem Bin Sultan Al Qassimi – Chairman
Mr. Mohammed Al Khader - Director

Current Major Project:

1. RAK Airport Expansion

3.5.2 MAJOR AIRPORT CONSULTANTS IN THE UAE

The following are the major Airport consultants in the UAE:

1. Aeroports de Paris
2. Dar Al Handasah
3. Khatib & Alami
4. Halcrow International Partnership
5. Skidmore Owings & Merrill
6. Gutteridge Haskins & Davey

The following section will detail the major projects handled by each of the above stated firms including their full contact details.

1. Aeroports de Paris (AdP)
P.O. Box: 26151
Dubai
Tel: 04-2829787
Fax: 04-2830661

Mr. Yann Lepage – Managing Director
Mr. Georges Germany – General Manager

Current major projects include:

Project Title	Client	Value Dhs (Mn)
* Airport City in Jebel Ali	Dubai Civil Aviation	36,700
* Third Terminal at Dubai Int'l Airport	Dubai Civil Aviation	14,680
* Expansion of Terminal 2 at DIA	Dubai Civil Aviation	503
** RAK Airport Expansion	RAK Department of Civil Aviation	-/-

*joint venture with Dar Al Handasah

**joint venture with Khatib & Alami

2. Dar al Handasah
P.O. Box: 55624
Dubai
Tel: 04-3355502
Fax: 04-3353121
Mr. Abdulla Dabbas – Resident Manager
Mr. Wassim Awada – Project Manager

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Airport City in Jebel Ali	Dubai Civil Aviation	36,700
Third Terminal at Dubai Int'l Airport	Dubai Civil Aviation	14,680
Expansion of Terminal 2 at DIA	Dubai Civil Aviation	503

Projects are executed in joint venture with Aeroports de Paris

3. Khatib & Alami
P.O. Box: 688
Sharjah
Tel: 06-5722444
Fax: 06-5722224
Mr. Usama Hasounah – Area Manager
Mr. Bashar Ayyash – Resident Manager

Current major projects include:

Project Title	Client	Value Dhs (Mn)
RAK Airport Expansion*	Dubai Civil Aviation	-/-

*Joint Venture with AdP

4. Halcrow International Partnership
P.O. Box: 360
Dubai
Tel: 04-3370380
Fax: 04-3379239
Mr. John Heck – Managing Director
Mr. Jim Sokoloski – Regional Director

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Abu Dhabi Airport Expansion	Scadia	25,000

Project is executed in joint venture with SOM

5. Skidmore Owings & Merrill (SOM)

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Abu Dhabi Airport Expansion	Scadia	25,000

Project is executed in joint venture with Halcrow

6. Gutteridge Haskins & Davey (GHD)
P.O. Box: 45921
Abu Dhabi
Tel: 02-6968700
Fax: 02-6782824
Mr. Allan Lindburg – Branch Manager
Mr. Tim Chapman – Project Manager

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Sharjah Airport Expansion	Sharjah Department of Civil Aviation	227

3.5.3 MAJOR AIRPORT PROJECT MANAGEMENT COMPANIES IN THE UAE

The following are the major Airport project management companies in the UAE:

1. Parsons International
2. Dar Al Handasah
3. Aeroports de Paris
4. Projacs

The following section will detail the major projects handled by each of the above stated firms including their full contact details.

1. Parsons International
P.O. Box: 5498
Abu Dhabi
Tel: 02-6142416
Fax: 02-6218984
Mr. Richarde Iussell – Vice President
Mr. Mike Skjeivem – Programme Manager

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Abu Dhabi Airport Expansion	Scadia	25,000

2. Dar al Handasah
P.O. Box: 55624
Dubai
Tel: 04-3355502
Fax: 04-3353121
Mr. Abdulla Dabbas – Resident Manager
Mr. Wassim Awada – Project Manager

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Airport City in Jebel Ali	Dubai Civil Aviation	36,700

Project is executed in joint venture with Aeroports de Paris

3. Aeroports de Paris
P.O. Box: 26151
Dubai
Tel: 04-2830599
Fax: 04-2830661
Mr. Yann Lepage – Managing Director
Mr. Georges Germany – General Manager

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Airport City in Jebel Ali	Dubai Civil Aviation	36,700

Project is executed in joint venture with Dar Al- Handasah

4. Projacs
P.O. Box: 31155
Dubai
Tel: 04 3432339
Fax: 04-3437446
Mr. Wissam Mujahed – Project Manager
Mr. Fadi Farah – Project Manaer

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Sharjah Airport Expansion	Sharjah Department of Civil Aviation	227

3.5.4 MAJOR AIRPORT CONTRACTORS IN THE UAE

The following are the major Airport contractors in the UAE:

1. Al Habtoor-Murray & Roberts
2. Al Naboodah Laing O' Rourke
3. Saudi Binladin Group
4. Six Construct
5. Al Jaber Energy Services
6. Al Naboodah-Group Five

The following section will detail the major projects handled by each of the above stated firms including their full contact details.

1. Al Habtoor-Murray & Roberts (JV)

Al Habtoor Engineering Ent.
P.O. Box: 320
Dubai
Tel: 04-2857551
Fax: 04-2899653
Mr. Riad Sadik - General Manager
Mr. Ibrahim - Purchase manager

Murray & Roberts
P.O. Box: 30023
Dubai
Tel: 04-3211999
Fax: 04-3211011
Mr. Malcolm Murphy - Bus. Dev. Manager
Mr. Mathew .P- Procurement Officer

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Third Terminal at Dubai Int'l Airport – Pack AX059	Department of Civil Aviation, Dubai	3,600

2. Al Naboodah Laing O' Rourke
P.O. Box: 25948
Dubai
Tel: 04-2949944
Fax: 04-2949049
Mr. Noel Dolan - Managing Director
Mr. Ken Farey - Purchase Manager

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Third Terminal at Dubai Int'l Airport– Pack AX058	Department of Civil Aviation, Dubai	1,500

3. Saudi Binladin Group
P.O. Box: 1555
Dubai
Tel: 04-2691500
Fax: 04-2667660
Mr. Midhat Ammari - Projects Manager
Mr. Mohamad Ali - Purchase Manager

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Sharjah Airport Expansion	Department of Civil Aviation, Sharjah	227

4. Six Construct
P.O. Box: 13055
Dubai
Tel: 04-3472777
Fax: 04-3473512
Mr. Patrice Daens - General Manager
Mr. Y. Dawans - Deputy GM

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Abu Dhabi Airport Expansion – Aircraft Stands	Scadia	110

5. Al Jaber Energy Services
P.O.Box: 47467
Abu Dhabi
Tel: 02-5546550
Fax: 02-5546106/5021698
Mr. Sherife El Gurdi - General Manager
Mr. Farook Abdul Baki - Purchase Manager

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Abu Dhabi Airport Expansion – Terminal Extension	Scadia	90

6. Al Naboodah-Group Five
- Al Naboodah Contracting
P.O. Box: 33900
Dubai
Tel: 04-2871141
Fax: 04-2948833
Mr. Steve Leever – General Manager
Mr. B. T. Ashraf - Purchase Manager
- Group Five
P.O. Box: 114434
Dubai
Tel: 04-2951338
Fax: 04-2951339
Mr. Peter Keenan - General Manager
Mr. Anil Bala Krishnan - Purchase Manager

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Third Terminal at Dubai Int'l Airport – AX101	Dubai Civil Aviation	-/-

3.5.5 MAJOR AIRPORT PROJECTS IN THE UAE

The following table provides a comprehensive list of major airport projects in the UAE.

Table 3-13: Major Airport Projects in the UAE

No	Project Title	Client	Consultant	Contractor	Value Dhs(Mn)
1	Abu Dhabi Airport Expansion	Scadia	SOM/Halcrow	Multiple-See Ref.	25,000
2	Airport City in Jebel Ali	DCA	AdP/Dar al-Handasah	Not Appointed	36,700
3	Third Terminal at Dubai Int'l Airport	DCA	AdP/Dar al-Handasah	Multiple-See Ref.	14,680
4	RAK Airport Expansion	DCA	Khatib & Alami/AdP	Not Appointed	-/-
5	Ajman International Airport	Ajman Govt./Wiggins	Not Appointed	Not Appointed	2,936
6	Sharjah Airport Expansion	DCA	GHD	Saudi Binladin	227
7	Emirates New Engineering Centre (ENEC)	Emirates Group	AdP/ Fraser Nag	J&P Overseas / Ascon	1,000
8	Expansion of Terminal 2 at DIA	DCA	AdP/Dar al-Handasah	Multiple-See Ref.	503
9	Airport Terminal on Das Island	Adma - Opco	Not Appointed	Not Appointed	-/-
10	Terminal for Royal Jet	Royal Jet	Not Appointed	Not Appointed	150
11	Third Terminal-Concourse 3 at DIA	DCA	ADP/Dar al-Handasah	Not Appointed	2,000

All the projects mentioned in the above table are explained in detail in Appendix B.

3.6 PORTS

3.6.1 MAJOR PORT CLIENTS IN THE UAE

The following are the major Ports clients in the UAE:

1. Sea Port Authority, Abu Dhabi
2. Dubai Ports Authority
3. Dubai Drydocks
4. Nakheel Corporation
5. Sharjah Ports & Customs
6. Ras Al Khaimah Ports & Customs Department

The following section will detail the major projects handled by each of the above stated firms including their full contact details.

Abu Dhabi

1. Sea Port Authority, Abu Dhabi
P.O.Box: 422
Abu Dhabi
Tel: 02-6730600
Fax: 02-6731023
Shk. Zaeed Bin Zayed Al Nahyan - Chairman
Mr. Mubarak Mohammed Abu Albuain - Director

Current Major Projects:

1. Khalifa Port and Industrial Zone in Abu Dhabi
(Joint venture with Mubadala Development co. & HCSEZ)
2. Port Upgrade-Mina Zayed
3. Fishing Harbour at Sila
4. Seaport Development at Samalia Island
5. Marina at Misnoah Island
6. Entrance Harbour at Samalia Island

Dubai

2. Dubai Ports Authority
P.O. Box: 17000
Dubai
Tel: 04-3451545
Fax: 04-3452002
Mr. Sultan Ahmed Bin Sulayem – Chairman
Mr. Saeed Rasheed Saeed – Director (Operations)

Current Major Projects:

1. Expansion of Jebel Ali Port

Dubai Ports Authority is a member of Dubai Ports Customs and Free Zone Corporation (DPCFZC).

Dubai Port Customs & Free Zone Corporation (DPCFZC)

P.O. Box: 17000

Dubai

Tel: 04- 8080123

Fax: 04-8816406

Ms. Nasek Al Sabbagh – Director (Civil Division)

Mr. Abdullah Belhoul – Senior Project Manager

3. Dubai Drydocks

P.O. Box: 8988

Dubai

Tel: 04-3450030

Fax: 04-3450116

Mr. Locker – Technical Director

Mr. David Laird – Chief Civil Engineer

Current Major Projects:

1. Safina

4. Nakheel Corporation

P.O. Box: 17777

Dubai

Tel: 04-3680555

Fax: 04-3671219

Mr. Ali Bin Talid – General Manager

Mr. Ajith – Quantity Surveyor

Current major projects:

1. Development of Fishing Harbours & Marinas

Sharjah

5. Sharjah Ports & Customs

P.O. Box: 510

Sharjah

Tel: 06-5282216

Fax: 06-5291425

Shk. Khalid Bin Abdullah Al Qassimi – Chairman

Mr. Issa Juma Al Mutawa – Director

Three ports - Port Khalid, Khorfakkan Port & Hamriyah Port (Free Zone) comes under Sharjah Ports & Customs.

Current Major Projects:

1. Expansion of Khor Fakkan Port

Ras Al Khaimah

6. RAK Ports & Customs Department

P.O. Box: 31300

Ras Al Khaimah

Tel: 07-2288230

Fax: 07-2288250

Shk. Ahmed Bin Saqr Al Qassimi – Chairman

Mr. Sunil Mokdan – Port Manager

Current Major Projects:

1. New Quay in RAK Port

3.6.2 MAJOR PORT CONSULTANTS IN THE UAE

The following are the major Ports consultants in the UAE:

1. Consec International
2. Frederic R. Harris
3. Gutteridge Haskins & Davey (GHD)
4. Gibb Limited
5. Halcrow International Partnership
6. Han Padron Associates
7. Hyder Consulting Middle East Limited
8. Mott MacDonald
9. Royal Haskoning
10. Scott Wilson

The following section will detail the major projects handled by each of the above stated firms including their full contact details.

1. Consec International
P.O.Box: 3068
Abu Dhabi
Tel: 02-6262062
Fax: 02-6262216

Mr. John Warner – General Manager
Mr. Ain Smith – Project Manager

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Seaport Development at Samalia Island	Abu Dhabi Municipality	-/-
Entrance Harbour at Samalia Island	Abu Dhabi Municipality	16

2. Frederic R. Harris
P.O. Box: 44296
Tel: 02-6772008
Fax: 02-6771003
Mr. Riyad Farah – General Manager
Mr. Mossadaq Addas – Project Manager

Current major projects include:

Project Title	Client	Value Dhs (Mn)
New Mina Zayed Container Terminal	Abu Dhabi Sea Port Authority*	450

*Joint venture with Works Department

3. Gutteridje Haskins & Davey (GHD)
P.O. Box: 45921
Abu Dhabi
Tel: 02-6968700
Fax: 02-6782824
Mr. Allan Lindburg – Branch Manager
Mr. Tim Chapman – Project Manager

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Development of Fishing Harbours & Marinas	Nakheel Corporation	-/-

4. Gibb Limited
P.O. Box: 528
Abu Dhabi
Tel: 02-6744641
Fax: 02-6721558

Mr. Jean Kelly – Regional Manager
Mr. Greg Smith – Manager Projects

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Port Upgrade-Mina Zayed	Abu Dhabi Municipality	35
New Quay in RAK Port	RAK Customs & Ports Dept.	35

5. Halcrow International Partnership
P.O. Box: 360
Dubai
Tel: 04-3370380
Fax: 04-3379239
Mr. John Heck – Managing Director
Mr. Jim Sokoloski – Regional Director

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Fishing Harbour at Sila	Abu Dhabi Municipality	-/-
New Harbour at Al Saqr Port	Saqr Port/Kscc	-/-
Expansion of Khor Fakkan Port	Sharjah Ports & Customs	200
Marina at Misnoah Island	Abu Dhabi Municipality	-/-
Quay Walls at Mina Saqr Port	Kuwait Gulf Links Ports International (KGLPI)	-/-
Maritime City at Hamriyah Free Zone		-/-

6. Han Padron Associates
No local contact details are available.

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Expansion of Jebel Ali Port*	Dubai Ports Customs & Free Zone Corp. (DPCFZC)	4,200

*The project is executed in joint venture with Scott Wilson

7. Hyder Consulting Middle East Ltd.
P.O.Box: 2774
Abu Dhabi
Tel: 02-6333400
Fax: 02-6330746
Mr. Roger Howard – General Manager
Mr. Marwan Ghannam – Design Manger

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Ruwais Harbour	Adnoc	30

8. Mott MacDonald
P.O.Box: 11302
Dubai
Tel: 04-3434218
Fax: 04-3434281
Mr. Nijal Thomas – Country Manager
Mr. Garden Truly – Manager

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Quay Wall at Fujairah Port	Port of Fujairah	-/-

9. Royal Haskoning
No local contact details are available.

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Safina	Dubai Drydocks	100

10. Scott Wilson
P.O. Box: 11893
Dubai
Tel: 04-3451615
Fax: 04-3458872
Mr. Richard Hoyes – Project Manager

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Expansion of Jebel Ali Port*	Dubai Ports Customs & Free Zone Corp. (DPCFZC)	4200

*The project is executed in joint venture with Han Padron Associates

3.6.3 MAJOR PORT CONTRACTORS IN THE UAE

The following are the major Ports contractors in the UAE:

1. Archirodon Construction Overseas
2. Athena Construction
3. China Harbour
4. Hyundai Engineering & Construction
5. Jan De Nul Dredging
6. NSCC
7. Six Construct

The following section will detail the major projects handled by each of the above stated firms including their full contact details.

1. Archirodon Construction Overseas
P.O. Box: 1930
Ajman
Tel: 06-5263646
Fax: 06-5263454
Mr. Imad Asad – Project Manager
Mr. Nektharios – Deputy Project Manager

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Quay Wall Upgrading	Dubai Port Authority	-/-

2. Athena Construction
P.O. Box: 54008
Abu Dhabi
Tel: 02-6447377
Fax: 02-6447985
Mr. Haris Giapsos – General Manager
Mr. Sotirios Kukias – Administration Manager

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Expansion of Khor Fakkan Port	Sharjah Ports & Customs Authority	200
New Quay in RAK Port	RAK Customs & Ports Dept.	35

3. China Harbour
P.O. Box: 30588
Sharjah
Tel: 06-5630058
Fax: 06-5630089
Mr. Lee Guowei - General Manager
Mr. Wang - Asst. Gen. Manager

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Fishing Harbour at Sila	Abu Dhabi Municipality	-/-
Quay Walls at Mina Saqr Port	Kuwait Gulf Links Ports International (KGLPI)	-/-

4. Hyundai Engineering & Construction
P.O.Box: 71182
Dubai
Tel: 04-8846066
Fax: 04-8845993
Mr. Kun Soo Oh - Project Director
Mr. S.D. Cho - Planning Manager

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Jebel Ali Container Terminal - Stage 1	Dubai Ports Customs & Free Zone Corp. (DPCFZC)	251

5. Jan De Nul Dredging
P.O.Box: 45625
Abu Dhabi
Tel: 02-6267234
Fax: 02-6271984
Mr. Wouter Vercruysse - General Manager

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Jebel Ali Container Terminal - Dredging Package	Dubai Ports Customs & Free Zone Corp. (DPCFZC)	1,850

6. NSCC
P.O. Box 856
Abu Dhabi
Tel: 02-6440340
Fax: 02-6448196

Mr. Khalil Khoory – Managing Director
Mr. Issam Khoory – Director Operations

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Safina*	Dubai Drydocks	100

*The project is carried out in joint venture with Bachy Solbntanche

7. Six Construct
P.O. Box: 13055
Dubai
Tel: 04-3472777
Fax: 04-3473512
Mr. Patrice Daens - General Manager
Mr. Y. Dawans - Deputy GM

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Seaport Development at Samalia Island	Abu Dhabi Municipality	-/-

3.6.4 MAJOR PORT PROJECTS IN THE UAE

The following table provides a comprehensive list of major port projects in the UAE.

Table 3-14: Major Port Projects in the UAE

No	Project Title	Client	Consultant	Contractor	Value Dhs(Mn)
1	Port Upgrade-Mina Zayed	AD Municipality	Gibb Limited	Multiple-See Ref.	35
2	Ajman Port Development	Emirates Port Ser.	Gibb Limited	Not Appointed	25
3	Additional Mooring Dolphins at Mina Zayed	AD Municipality	Halcrow	Not Appointed	-/-
4	Dry Dock in Fujairah	Port of Fujairah		Not Appointed	-/-

No	Project Title	Client	Consultant	Contractor	Value Dhs(Mn)
5	Expansion of the Ruler's Port , Ajman	SPA	Halcrow	Not Appointed	-/-
6	Relocation of Jadaf Shipyard	DB Municipality	Halcrow	Not Appointed	-/-
7	Jetty Upgrade at Das Island	ADGAS	In House	Not Appointed	-/-
8	Expansion of Jebel Ali Port	DPCFZC	Han Padron Ass.	Not Appointed	4,200
9	Fishing Harbour at Sila	AD Municipality	Halcrow	China Harbour	-/-
10	Dibba Al Fujairah Port Development	Port of Fujairah		Not Appointed	-/-
11	New Harbour at Al Saqr Port	Saqr Port/Kscc	Halcrow	Not Appointed	-/-
12	Inner Harbour Expansion at Hamriyah FZ	HFZA	Not Appointed	Not Appointed	150
13	Expansion of Khor Fakkan Port	SPCA	Halcrow	Athena Const.	200
14	Expansion and Development of Fishing Harbours & Marinas in Dubai	Nakheel Corp.	GHD	Not Appointed	-/-
15	Seaport Development at Samalia Island	AD Municipality	Conseco	Six Construct	-/-
16	Safina	Dubai Drydocks	Royal Haskoning	NSCC/Bachy Solbntanche	100
17	Ruwais Harbour	Adnoc	Hyder Consulting	Not Appointed	30
18	Jebel Ali Container Terminal - Stage 1	DPCFZC	Scott Wilson	Hyundai Engineering	251
19	Marina at Misnoah Island	AD Municipality	Halcrow	Not Appointed	-/-
20	New Quay in RAK Port	RAK Customs & Ports Dept.	Gibb Limited	Athena Const.	35
21	Jebel Ali Container Terminal - Dredging Package	DPCFZC	Han Padron Ass.	Jan de Nul	1,850
22	Al Jazeera Al Hamra Port Expansion	RAK Customs & Ports Dept.	Not Appointed	Not Appointed	-/-
23	Calm Bouy at Mubarraz Oilfield	ADOC		Bluewater Energy Svcs.	-/-
24	Quay Walls at Mina Saqr Port	KGLPI	Halcrow	Not Appointed	-/-

No	Project Title	Client	Consultant	Contractor	Value Dhs(Mn)
25	Entrance Harbour at Samalia Island	AD Municipality	Conseco	Not Appointed	16
26	Quay Wall at Fujairah Port	Port of Fujairah	Mott MacDonald	Not Appointed	-/-
27	Maritime City at Hamriyah Free Zone		Halcrow	Not Appointed	-/-
28	Marine Works at Layyah Power Station	SEWA		Not Appointed	-/-
29	Khalifa Port and Industrial Zone in Abu Dhabi	Mubadala Dev. Co./ ADSPA/HCSEZ	Not Appointed	Not Appointed	8,000
30	Expansion of Khor Fakkan Port - Phase 2	SPCA	Not Appointed	Not Appointed	-/-

All the projects mentioned in the above table are explained in detail in Appendix C.

3.6.5 OVERVIEW OF PORT PRIVATISATION IN THE UAE

The sea has always played an important part in the economic fortunes of the Middle East. Despite their pivotal role, most ports in the region have suffered from years of underinvestment. The majority of the region's ports were originally designed to handle general bulk goods. Over the past 20 years, there has been a switch from traditional bulk to container transport services. This has necessitated investment in port facilities, as equipment, berth lengths and draught depths. To cope with pressing investment demands, governments have turned to the private sector for help, outsourcing port management and operations to independent operators.

There are eleven commercial ports in U.A.E; Al Fujairah, Khor Fakkan, Rashid, Jebel Ali, Zayed, Saqr, Al Jazeera, Ras Al Khaimah Port, Ajman, Khalid and Hamariya. The ports are being managed by the respective Port Authorities in each emirate or by other port management companies. The major port management companies active in the country are Dubai's DP World which is managing Abu Dhabi's Mina Zayed and Fujairah Port in addition to managing Dubai's Jebel Ali Port and Rashid Port, KGL Port Management for Mina Saqr (RAK) and Emirates Ports Services for Ajman Port. Gulfainer Company Limited is managing the container terminals in Port Khalid and Khorfakkan on behalf of Sharjah Ports Authority.

The following table lists the major ports in UAE and their respective operators.

Table 3-15: Commercial Ports in UAE

Port	Operator
Mina Zayed, Abu Dhabi	DP World
Khalifa Port, Abu Dhabi	Planned Project
Port Rashid, Dubai	DP World
Jebel Ali Port	DP World
Khalid Port, Sharjah	Gulftainer Company Limited
Hamariya Port, Sharjah	Sharjah Ports and Customs
Khor Fakkan Port, Sharjah	Gulftainer Company Limited
Ajman Port	Emirates Ports Services
Saqr Port, Ras Al Khaimah	KGL Port Management
Al Jazeera Port, Ras Al Khaimah	RAK Ports and Customs
Ras Al Khaimah Port	RAK Ports and Customs
Fujairah Port	DP World

In October 2005, Dubai announced that it had merged its domestic and international port operations to create one entity named DP World. The merger of Dubai Ports Authority (DPA) and Dubai Ports International (DPI) creates one of the largest port operators in the world, with interests around the region, Asia, Africa, Europe, Australia and Latin America. A new regulator, Dubai Ports & Jebel Ali Free Zone Authority, has also been created to oversee the regulation and administration of Dubai's port operations.

DP World in early March 2006, took over the operation of 45 terminals of P&O as part of its acquisition of the UK port and ferry operator. The final bid of US\$6,890 million was based on acquisition of P&O's 51 terminals including the 6 terminals in the United States. The US operations were eventually decided to be transferred to a US entity after opposition from the US Congress. The US deal may have put DP World's position in the top three in doubt, but DP World's desire of becoming a leading global player remains as ardent as ever.

In July 2005, Dubai Ports Authority (DPA) has signed a five-year agreement with the Abu Dhabi Seaport Department to operate Mina Zayed port. The deal follows a memorandum of understanding (MoU) in January 2005 between the two groups whereby DPA offered assistance and expertise to the port's authority. Under the terms of the agreement, DPA will take over responsibility for the port in the coming months and amalgamate it into its existing port operations. The Mina Zayed deal is the second management contract signed by DPA within the country. In March 2005, the operator signed a 30-year concession agreement to manage and develop the container terminal at Fujairah. The agreements will enable DPA to handle an extra 1 million 20-foot equivalent units (TEUs) of capacity at Fujairah and 600,000 TEUs at Mina Zayed.

By linking the three ports, DPI would in effect be creating a giant port zone dominating shipping on either side of the Straits of Hormuz. While perhaps not the intention, it also raises a challenge to Sharjah's container terminals of Khor Fakkan and Sharjah Container Terminal, which handle more than 2 million TEUs a year. DPI taking on Mina Zayed and Fujairah is logical in view of the smaller volumes handled by the two ports. The most recent figures available show Mina Zayed handled 233,749 TEUs in 2003, while the port of Fujairah handled 202,156 TEUs. With its location distanced from the Straits of Hormuz, Mina Zayed has been unable to compete with Dubai and Sharjah, seeing its traffic reduce drastically.

RAK's three ports of Mina Saqr, Al-Jazeera and RAK Port shift 7 million tonnes a year (t/y). The plan is to increase that capacity to about 30 million t/y, by pushing ahead with privatisation plans. In 2004, KGL Port Management, a subsidiary of Kuwait Gulf Link Transport Company, was awarded a 21-year concession to manage and operate the container terminal at Mina Saqr.

Emirates Ports Services (EPS) took over the management of Ajman Port and Customs from the Government of Ajman in March 2001 for a 5 year term with an option to renew for a further 5 years. EPS is a joint venture between Emirates Trading Agency LLC (ETA) Dubai, and Union Shipping Agencies LLC, (USA). Gulfainer Company Limited is managing the container terminals in Port Khalid and Khorfakkan.

Abu Dhabi officially unveiled plans on 14th January 2006 to build the estimated AED 8,000 million (\$2,100 million) Khalifa Port & Industrial Zone at Taweelah. The project will eventually replace the Mina Zayed port, which will in turn be used for real estate. The new port will comprise a container handling terminal and piers to handle raw and bulk cargo as well as an industrial area serving basic and heavy industries. The first phase will be completed in five years. A new authority, the Committee for the Restructuring of the Abu Dhabi Port Sector, is overseeing the project. The authority includes representatives from Abu Dhabi Seaport Authority, Mubadala Development Company and the Higher Corporation for Specialised Economic Zones. The project will be built on a public-private partnership basis.

3.7 RAILWAYS AND MONORAILS

3.7.1 MAJOR RAILWAYS AND MONORAIL CLIENTS IN THE UAE

The following are the major Railways and Monorail clients in the UAE:

1. Abu Dhabi Department of Planning & Economy
2. Dubai Municipality – Dubai Road Transport Authority
3. Nakheel Corporation
4. Emaar Properties
5. Dubai International Financial Centre
6. Ilyas & Mustafa Galadari Group

The following section will detail the major projects handled by each of the above stated firms including their full contact details.

Abu Dhabi

1. Abu Dhabi Department of Planning & Economy
P.O. Box: 853
Abu Dhabi
Tel: 02-6227222
Fax: 02-6227666
Mr. Salem Al Dhaheri – Under Secretary
Mr. Mohammed Al Khubaisi – General Manager

Current Major Projects:

1. Emirates Railway Project

Dubai

2. Dubai Municipality - Dubai Road Transport Authority (DRTA)
Dubai Municipality - Dubai Road Transport Authority
P.O. Box: 118899
Dubai
Tel: 04-2065333
Fax: 04-2065557
Ms. Maitha Bin Adai – Director, Roads Division
Mr. Nabeel Mohammed Faleh – Head of Roads Planning & Design Division
Mr. Sameh Al Ziny – Senior Engineer

Current major Projects:

1. Dubai Light Rail project

3. Nakheel Corporation
P.O. Box: 1777
Dubai
Tel: 04-3903333
Tel: 04-3680559
Mr. John Simmonds – Project Director

Current major Projects:

1. Monorail Project on the Jumeirah Palm Island

4. Emaar Properties

P.O. Box: 9440

Dubai

Tel: 04-3993366

Fax: 04-367300

Mr. Robert Booth – Executive Director for International Business

Current Major Projects:

1. Monorail Around Burj Dubai

5. Dubai International Financial Centre

P.O.Box: 74777

Tel: 04-3600700

Fax: 04-3681003

Mr. Suhail Qurban – Project Director

Current Major Projects:

1. PRT Network in DIFC

6. Ilyas & Mustafa Galadari Group

P.O.Box: 114444

Tel: 04-3311022

Fax: 04-3322334

Ms. Christine D' Souza – General Manager

Mr. Bill Muir – Senior Project Manager

Current Major Projects:

1. Monorail at City of Arabia, Dubailand

3.7.2 MAJOR RAILWAYS AND MONORAIL CONSULTANTS IN THE UAE

The following are the major Railways and Monorail consultants in the UAE:

1. Systra
2. Wilbur Smith & Associates

The following section will detail the major projects handled by each of the above stated firms including their full contact details.

1. Systra
P.O. Box: 111081
Dubai
Tel: 04-2230144
Fax: 04-2231088
Mr. Burchel Tani – Project Director
Mr. Dow Mahmood – Project Manager

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Dubai Light Rail Project	DRTA	14,300

2. Wilbur Smith & Associates
P.O. Box: 44212
Dubai
Tel: 04-3513337
Fax: 04-3590638
Mr. James Hakam Dib – Vice President
Mr. Steven Doerr – General Manager

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Monorail in Jumeirah Palm Island	Nakheel Corporation	1,431

3.7.3 MAJOR RAILWAYS AND MONORAIL CONTRACTORS IN THE UAE

The following are the major Railways and Monorail contractors in the UAE:

1. Dubai Rapid Link (DURL)
2. Hitachi Corporation/Marubeni/Mitsui/Obayashi Joint Venture

The following section will detail the major projects handled by each of the above stated firms including their full contact details.

1. Dubai Rapid Link (DURL) - Obayashi Corp. and Kajima group (Japan) with Yapi Merkezi (Turkey) and Mitsubishi Electric (Japan).

Mitsubishi Corporation
P.O. Box: 81654
Dubai
Tel: 04-2654771
Fax: 04-2655772

Mr. Hiroshi Fujaoka – General Director
Mr. Keisuke Icutsu – Administration Manager

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Dubai Light Rail Project	DRTA	14,300

2. Hitachi Corporation/Marubeni/Mitsui/Obayashi Joint Venture

Hitachi Corporation
P.O. Box: 5561
Dubai
Tel: 04-2283617
Fax: 04-2211783

Mr. Yugi Tomita – General Manager
Mr. Shinichi Inoue – Senior Engineer

Current major projects include:

Project Title	Client	Value Dhs (Mn)
Monorail in Jumeirah Palm Island	Nakheel Corporation	1,431

3.7.4 MAJOR RAILWAYS AND MONORAIL PROJECTS IN THE UAE

The following table provides a comprehensive list of major railways and monorail projects in the UAE.

Table 3-16: Major Railways and Monorail Projects in the UAE

No	Project Title	Client	Consultant	Contractor	Value Dhs(Mn)
1	Dubai Light Rail Project	DB Municipality	Systra	DURL	14,300
2	Monorail Project on the Jumeirah Palm Island	Nakheel Corp.	Wilbur Smith and Ass.	Hitachi Corporation	1,431
3	Monorail in City of Arabia, Dubailand	Ilyas & Mustafa Galadari Group	Palm & Turner (Masterplan)	Not Appointed	600
4	Circular Rail System in Abu Dhabi	AD Municipality	Not Appointed	Not Appointed	-/-
5	GCC Rail Network	Govt's of GCC	Not Appointed	Not Appointed	20,185
6	Monorail Line Between Dubai & Jebel Ali Airports	DCA	Not Appointed	Not Appointed	12,500
7	Monorail Around Burj Dubai	Emaar Properties	Not Appointed	Not Appointed	-/-
8	PRT Network in DIFC	DIFC Dev. Co.	Not Appointed	Not Appointed	-/-
9	Emirates Railway Project	Dept. of Economy	Not Appointed	Not Appointed	-/-

All the projects mentioned in the above table are explained in detail in Appendix D

3.8 MAJOR DEVELOPMENTS IN THE ROADS & BRIDGES, AIRPORTS, PORTS AND RAILWAYS & MONORAILS PROJECTS SECTOR IN THE 1ST, 2ND, 3RD & 4TH QUARTERS OF 2005 AND IN THE 1ST QUARTER OF 2006

3.8.1 An overview of the major developments in the Roads & Bridges, Airports, Ports and Railways and Monorails project sector in the 1st quarter of 2005 will be contained in the table below.

Project	Client	Value (Dhs.Mn)	Scope	Schedule
Jebel Ali Airport City	DCA	1,000	The first phase of the development is expected to cater to cargo, logistics and charter flights	In March 2005, Trident Transport was awarded 12 month ground levelling and preparatory earthworks contract
Dubai Light Rail Project	DRTA	14,300	Phase 1 involves construction of 2 light transit lines over 70 kms, of which about 30% will be underground	The consortium led by Mitsubishi Known as Dubai Rapid Rail Trasnsit (DRRT)is the lowest bidder at Dh.6285 million
Seaport Development at Samalia Island	Works Department	na	Construction of a port and associated facilities at Samalia Island in Abu Dhabi	Contractors submitted bids on 10 th Jan 2005 for the construction contract. An award is expected in the 2 nd quarter of 2005.
Safina	Dubai Drydocks	165	The proposed Dry Dock will build small, medium and large vessels. The scope of works will include underwater engineering works, grand slab foundation and major construction works such as roads works, shipbuilding foundations & civil works foundations.	Tender for the construction works are issued in Feb 2005 with closing date on 27 th April 2005. However, project is currently being reviewed and a redesign and possible downsizing of the scheme is being planned

Project	Client	Value (Dhs.Mn)	Scope	Schedule
Ruwais Harbour	ADNOC	30	Construction of a small boat harbour in Ruwais, Abu Dhabi. The scope will include quay wall, a roll- on, roll-off berth, a helipad and an administration building.	Nine pre-qualified contractors are invited in March 2005 to submit bid by 15 th May 2005 for the construction contract.
Sheikh Zayed Bridge Crossing Pack 4, part 1	Work Department	na	Pack 4 entails construction of an access road to the Grand Mosque for traffic entering Abu Dhabi across Sheikh Zayed Bridge. Pack 4, part 1 involves construction of a new slip road under the island side approach embankment.	Tender for the Part 1 contractor issued in Jan 2005. An award is expected in the 2 nd quarter of 2005
King square interchange in Sharjah	Faizal in Directorate of Public Works	na	The project involves demolishing the existing Mother Cat Round about and construction of a new six lane (three lane on each side) clover leaf shaped flyover.	Contractors are preparing to submit bids in April 2005 for the main construction contract. An award is expected by mid 2005.
Ras Al Khor Crossing - Pack 1	DRTA	388	Pack 1 covers the 12 lane bridge super structure, a new interchange and an associated tunnel on the intersection of Al Rabat Road with Marrakech Road.	Bel Has Six Construct was awarded the 24month construction contract in Feb 2005.
Ras Al Khor Crossing –Pack 2	DRTA	300	Construction of two new interchanges in Deira, road upgrading and associated works. The works also include construction of 18 bridges and an under pass.	Dutco Balfour Beatty was appointed as the main contractor in Jan 2005. Project duration is 20 months.

Project	Client	Value (Dhs.Mn)	Scope	Schedule
Inter-change 5	DRTA	280	The new Interchange 5 will consist of four lane main, dual carriage way, several under passes, ramps and 10 bridge structures.	Dutco Balfour Beatty submitted the lowest bid for the construction contract at Dhs. 277.7million. An award is imminent.
Dubai bypass widening project	DRTA	na	The project will witness the highway upgraded to a four lane dual carriage way from Dubai- Sharjah border to the Dubai – Abu Dhabi border by way of Al Ain.	In March 2005 Wilbur Smith & Associates was awarded the contract for the study, design and supervision of the first phase of the project.
Bridges on King Abdul Aziz	Sharjah Municipality	na	Construction of two flyovers and associated works on Kind Abdul Aziz Road, near National Paints in Sharjah	Contractors are preparing to submit bids by April 2005 for the construction contract.

3.8.2 An overview of the major developments in the Roads & Bridges, Airports, Ports and Railways and Monorails project sector in the 2nd quarter of 2005 will be contained in the table below.

Project	Client	Value (Dhs.Mn)	Scope	Schedule
Dubai Light Rail Project	DRTA	14,300	Phase 1 involves construction of 2 light transit lines over 70 kms, of which about 30% will be underground	Dubai Rapid Link (DURL) was awarded the construction contract for 1 st & 2 nd phase in May 2005. the consortium also won a contract to carryout maintenance of the project for 15 years

Project	Client	Value (Dhs.Mn)	Scope	Schedule
New Quay in RAK Port	RAK Customs & Ports Dept	35	The first phase will see the construction of a 307 m quay and increasing the draught of the port to 10m. The second phase is the expansion of the quay by 500m to more than 800 m	Project was awarded to Athena SA Marine works 19 th June 2005. Contract duration is 275 days.
Safina	Dubai Dry docks	165	The proposed Dry Dock will build small, medium and large vessels. The scope of works will include underwater engineering works, grand slab foundation and major construction works such as roads works, shipbuilding foundations & civil works foundations.	The construction contract was re tendered in April 2005 with bid submission date on 22 nd May 2005
Marina at Misnoah Island	Abu Dhabi Municipality	na	The project calls for the construction of a marina in Abu Dhabi's Misnoah Island.	Tender for the construction contract was issued on 8 th June 2005 with bid submission date on 25 th June 2005
Jebel Ali Container Terminal Stage -1	DPCFZC	367	The project calls for the construction of about 2.8 km of pre cast quay wall, located 200m off shore and running parallel to an existing break water. The Stage-1 of the Jebel Ali Container project covers eight 350 m long container berths, with an along side depth of 17 m	Pre-qualified contractors submitted bids on 11 th June 2005.
Dubai-Fujairah Road	Ministry of Public Works	na	Contract 1 involves 23.3 km road from Meleiha to Sifini where as contract 2 will add 22.1 km road from Sifini to Fujairah	Contract 1 & 2 are re-tendered in June 2005 with bid closing date on 15 th August 2005

Project		Client	Value (Dhs.Mn)	Scope	Schedule
King square change Sharjah	Faizal inter-in	Directorate of Public Works	na	The project involves demolishing the existing Mother Cat Round about and construction of a new six lane (three lane on each side) clover leaf shaped flyover.	Bids for the construction contract went in during the 2 nd quarter of 2005. An award is imminent.
Fujairah Khorfakhan Road	–	Ministry of Public Works	na	Project involves construction of 40-50 km road that will connect Fujairah to Khorfakhan	Al Nuaimi group bagged the construction contract in May 2005
WTC - Interchange 3 Road widening		DRTA	na	The project calls for addition of a fifth lane on the road from World Trade Centre to Interchange 3	Contractors submitted bids on 29 th May 2005.
Inter-change 5		DRTA	260	The new Interchange 5 will consist of four lane main, dual carriage way, several under passes, ramps and 10 bridge structures.	Contractors submitted revised bids on 1 st May 2005 for re-tender. Wade Adams Contracting is the lowest bidder.

3.8.3 An overview of the major developments in the Roads & Bridges, Airports, Ports and Railways and Monorails project sector in the 3rd quarter of 2005 will be contained in the table below.

Project		Client	Value (Dhs.Mn)	Scope	Schedule
Monorail Project on the Jumeirah Palm Island		Nakheel Corporation	900	Project entails construction of a monorail network on the Jumeirah Palm Islands in Dubai. The rail network will be 10 kms. It will run from the mainland and across the Palm.	The consortium lead by Hitachi Corporation has signed a letter of intent in September 2005 for the turnkey contract to design, build and equip the project. The consortium includes Marubeni Corporation, Mitsui & Company, and Obayashi Corporation.

Project	Client	Value (Dhs.Mn)	Scope	Schedule
Jebel Container Terminal - Stage 1	Ali DPCFZC	251	The stage 1 of the new Jebel Ali container terminal project covers eight 350-metre-long container berths, with an alongside depth of 17 metres.	Hyundai Engineering was awarded the construction contract in August 2005. Scott Wilson was appointed as the design and supervision consultant in September 2005.
Jebel Container Terminal Dredging Package	Ali DPCFZC -	na	The contract calls for the dredging of 22 million cubic metres of materials for the new container terminal project in Jebel Ali.	Three contractors submitted fresh bids by mid-September 2005.
Safina	Dubai Drydocks	100	The proposed dry dock will build small, medium and large vessels. The scope of works will include underwater engineering works, grand slab foundations and major construction works such as: road works, shipbuilding foundations and civil works foundations.	NSCC & Bachy Solbntanche was appointed as the main contractor in July 2005. Construction commenced in August 2005.
Calm Bouy at Mubarraz Oilfield	ADOC	na	The aim of the project is to install a single point mooring calm buoy at the Mubarraz Oilfield.	The EPC contract was awarded to Bluewater Energy Services in July 2005.
King Faisal Square Interchange in Sharjah	Directorate of Public Works	na	The project involves demolishing the existing Mother Cat roundabout and construction of a new six lane (three lane on each side) clover leaf shaped flyover.	Sharjah General Contracting was appointed as the main contractor in July 2005.

Project	Client	Value (Dhs.Mn)	Scope	Schedule
Ras Al Khor Crossing – Pack 3	DRTA	260	The contract entails the construction of an interchange at Oud Metha on the Bur Dubai side which will connect to Ras Al Khor Crossing. The scope also includes access to the Business Bay Development project.	Tender was issued in August 2005 for the third phase construction contract and bids were due by 25 th September 2005.
Ras Al Khor Crossing – Pack 4	DRTA	400	The contract valued entails the construction of at least 3 interchanges near the Shaikh Zayed Highway.	The client invited contractors in Sept' 2005 to bid by 16 th October 2005.
Widening of Emirates Road in Al Aweer	DRTA	60	The project calls for widening of Emirates Road in the Al Aweer District. The scope entails extending 12 kilometers of road into four lanes from two lanes.	Ascon was awarded the main construction contract on 20 th August 2005.
Jebel Ali-Lehbab Road Upgrade	DRTA	147	The Jebel Ali – Lehbab highway upgrade project will be implemented in 2 phases comprising the widening to four lanes of 34km of road.	Tender was opened on 15 th of August 2005. Bin Hafeez is the lowest bidder for the first phase. Saif Bin Darwish is the lowest bidder for the second phase.
The Villa Project-Infrastructure Package	Dubai Properties	110	The contract involves construction of internal roads, telecommunications infrastructure and potable water, sanitary and drainage systems.	Contractors were invited to bid by 31 st July 2005 for the main infrastructure contract.
Bridges on King Abdul Aziz Road	Sharjah Municipality	na	Construction of three flyovers and associated works on King Abdul-Aziz road, near National Paints in Sharjah.	Construction contract was awarded to Sharjah General Contracting in July 2005.

3.8.4 An overview of the major developments in the Roads & Bridges, Airports, Ports and Railways and Monorails project sector in the 4th quarter of 2005 will be contained in the table below.

Project	Client	Value (Dhs.Mn)	Scope	Schedule
Abu Dhabi Airport Expansion	Scadia	25,000	The scope includes a new 4.1km runway, a large terminal building, a cargo and logistics centre, a commercial area incorporating a free zone and associated facilities.	The estimated Dhs.734 million 4.1km runway package is out for tender in Nov' 2005, with bid submission on 21 st Jan' 2006.
Airport City in Jebel Ali	DCA	36,700	In its first phase of development, the new airport is expected to cater to cargo, logistics and charter flights. The first phase will consist of the development of a cargo terminal, runway and general air handling facilities.	Bids were submitted on 27 th Dec' 2005 for the first 4.5km runway tender.
Marine Works at Layyah Power Station	SEWA	na	The scope of works calls for the removal of an existing breakwater, the reclamation of 6.5 hectares of land and the construction of a new 550-metre-long breakwater along the power station boundary	SEWA has invited companies to bid by 21 st January 2006 for the main construction contract
Jebel Ali Container Terminal Dredging Pack	DPCFZC	1,850	The contract calls for the dredging of 22 million cubic metres of materials for the new container terminal project in Jebel Ali.	Jan de Nul bagged the dredging contract in October 2005.

Project	Client	Value (Dhs.Mn)	Scope	Schedule
Quay Wall at Fujairah Port	Port of Fujairah	na	The 1.5km new quay wall will have an alongside depth of 15 meters and will be constructed along one of the port's breakwaters.	Bids were submitted on 3 rd December 2005 for the design and build contract.
Quay Walls at Mina Saqr Port	KGLPI	na	Construction of a 638 meter long new quay wall at berths 8 and 9, dredging and filling behind the quay walls, and strengthening of quay walls 1 to 3.	China Harbour was awarded the main construction contract in early-January 2006.
Roads in Northern Emirates	MOPW	100	Construction of roads in 32 locations in the northern emirates of Sharjah and Ras al-Khaimah.	Darwish Engineering appointed as the main contractor for the project in Dec' 2005.
New Garhoud Bridge	DRTA	450	Construction of two 520 meter-long single-span bridge decks crossing the creek to the east of the existing Garhoud Bridge.	Contractors invited to submit bids by 25 th Dec' 2005 for the construction contract.
Ras Al Khor Crossing – Pack 3b	DRTA	na	The package will link Doha, Al-Khail and Oud Metha roads and calls for the construction of three new crossings, which are understood to span the new section of the creek that will eventually link up with the sea through Safa Park and two other crossings	Bids are due to be submitted on 29 th January 2006 for the main construction contract.
Jebel Ali Container Terminal - Infrastructure Package	DPCFZC	250	Installation of 1.4 million square metres of concrete block paving, 44,000 square metres of asphalt pavement, 25,000 metres of crane rails, 2,500 tonnes of structural steelwork, 7,500 concrete piles and electrical works.	Contractors are preparing to submit bids by 14 th Jan' 2006 for the infrastructure package.

Project	Client	Value (Dhs.Mn)	Scope	Schedule
Jebel Ali-Lehbab Road Upgrade	DRTA	147	The Jebel Ali – Lehabab highway upgrade project will be implemented in 2 phases comprising the widening to four lanes of 34km of road.	Bin Hafeez and Saif Bin Darwish were appointed as contactors for the project in Nov' 2005.
Truck Tunnel at DIFC	Dubai Properties	387	The 1.2km long, 38-meter wide cut and cover tunnel will run at lower basement level from Murooj complex between 2 rows of towers that make up the DIFC district to the Gate building next to the Emirates Towers.	Arabtec was awarded the main construction contract in November 2005.

3.8.5 An overview of the major developments in the Roads & Bridges, Airports, Ports and Railways and Monorails project sector in the 1st quarter of 2006 will be contained in the table below.

Project	Client	Value (Dhs.Mn)	Scope	Schedule
Abu Dhabi Airport Expansion - ETIT-1006-CN	Scadia	na	Design and build of the 55,000 sq.m temporary Etihad Passenger terminal which will be connected to the existing main terminal structure, 6 nine contact gates, baggage handling areas and office and maintenance areas.	Tender for the main contractor was issued in March 2006 with bid submission on 22 nd April 2006.
Abu Dhabi Airport Expansion – Runway Pack	Scadia	1,000	Construction of a 4.1km runway with associated facilities, substations, and a tunnel.	Bid were submitted on 21 st January 2006 for the construction contract. Strabag is the lowest bidder at Dhs.987 million.
Airport City in Jebel Ali – Runway Pack	DCA	na	Construction of a 4.5km runway with associated facilities.	Al Naboodah Contracting was awarded the construction contract in February 2006

Project	Client	Value (Dhs.Mn)	Scope	Schedule
Saadiyat Island Crossing Bridge	ADTA	na	Construction of a 1,455-metre-long segmental box girder bridge, with five carriageways and two central lanes reserved for a provisional rail link, and the construction of a road between the bridge and the Mina road.	Contractors invited to submit pre-qualification documents by 15 th February 2006 for the main construction contract.
New Junction on Sheikh Zayed Highway	DRTA	na	The junction will be located between interchange 5 and the Gardens/lbn Batuta mall flyover. The junction will have at least 10 bridge structures, five of which will cross the highway	Tender for the construction contract was released in January 2006. Submission was due on 12 th February 2006.
Roads in Khalifa City (A)	AD Municipality	130	Construction, accomplishment and maintenance of road works in Khalifa City A.	Bids were opened on 16 th January 2006. Ghantoot Transportation is the lowest bidder at Dhs.125.8 million.
Roads in Eastern & Western Mussafah	AD Municipality	60	Construction of roads in Eastern and Western Mussafah.	Bids were opened on 23 rd January 2006. Ghantoot Transportation is the lowest bidder at Dhs.55.6 million.
New Garhoud Bridge	DRTA	415	Construction of two 520 meter-long, 7-lane single-span bridge decks crossing the creek to the east of the existing Garhoud Bridge.	Belhasa Six Construct was awarded the main construction contract in February 2006.
Ras Al Khor Crossing-Pack 3b	DRTA	450	The package will link Doha, Al-Khail and Oud Metha roads and calls for the construction of three new crossings.	Bids were opened on 5 th February 2006. National Wheel J&P submitted a low bid at Dhs.449 million.

Project	Client	Value (Dhs.Mn)	Scope	Schedule
Dubai Bypass Widening Project- Phase 3	DRTA	255	The 3 rd phase (R762) is the construction of a 30 kilometer dual lane linking Dubai and Al Ain with Jebel Ali-Lehbab.	Al Naboodah Contracting was awarded the phase 3 construction contract in February 2006.
Al Ittihad Road Improvement Scheme	DRTA	700	The road will be turned into an eight lane expressway and include improvements on five key interchanges with the addition of eight bridges and at least four more underpass lanes at nodal tunnels.	The project was launched in March 2006. Tender for the construction contract is expected to be released by mid 2006.
Al Sofouh District Road Upgrade- Packs 1&2	DRTA	208	Construction of a 600-meter long, 15 to 16 meter high bridge that will cross Shaikh Zayed Highway close the Police Academy and an underpass beneath the Dubai College road.	Wade Adams is the lowest bidder at Dhs.208 million for the main construction contract. An award is imminent.
Al Sofouh District Road Upgrade Pack 4&5	DRTA	na	Construction of a new interchange and road improvement works in Al Sofouh district.	Tender for the main contractor was released in January 2006. Bid submission was due on 26 th February 2006.
Dubai - Fujairah Road	MOPW	815	Contract 1 – 23.3 km road from Mileiha to Sifini Contract 2 - 22.1 km road from Sifini to Fuairah.	Al Muhairy General Contracting and National Wheel J&P bagged the 1 st and 2 nd contracts respectively in March 2006.
The Villa Project- Infra-structure Pack	Dubai Proper-ties	110	Construction of internal roads, telecommunications infrastructure and potable water, sanitary and drainage systems.	Wade Adams was awarded the construction contract in March 2006.

Project	Client	Value (Dhs.Mn)	Scope	Schedule
Improvement of Al Qudrah Road	Tatweer	65	Improvement of Al Qudra road running from Bab Al Shams resort to the Arabian Ranches roundabout.	Bids were opened in early-March 2006 for the main contract. Wade Adams is the lowest bidder at Dhs.65 million.
Emirates Road Upgrade	DRTA	228	Widening and improvement of Emirates Road between Sharjah and the Arabian Ranches roundabout.	Dutco Balfour Beatty is the sole bidder for the construction contract.
Dubai Light Rail Project	DRTA	14,300	Construction of a rail network in Dubai extending up to Jebel Ali. The rail network will comprise 2 lines- The Red Line and the Green Line.	Awards in Jan' 2006: Viaduct Piling - Forasol and Bauer Foundations - Intrafor and a JV of Middle East Foundations and Sambo Ready mix Concrete Supply - Arabian Mix and Arabian Forasol Ready Mix
Quay Walls at Mina Saqr Port	KGLPI	na	Construction of a 638 meter long new quay wall at berths 8 and 9, dredging and filling behind the quay walls, and strengthening of quay walls 1 to 3.	China Harbour was awarded the main construction contract in early-January 2006.
Marina at Misnoah Island	AD Municipality	na	Construction of a marina in Abu Dhabi's Misnoah Island.	Main construction contract was awarded to Ghantoot Transport in February 2006.

3.9 OPERATING IN THE UAE

Licensing

The basic requirement for all business activity in UAE is one of the following three categories of licenses:

Commercial licenses covering all kinds of trading activity; *Professional licenses* covering professions, services, craftsmen and artisans; *Industrial licenses* for establishing industrial or manufacturing activity.

These licenses are all issued by the UAE Department of Planning and Economics. However, licenses for some categories of business require approval from certain ministries and other authorities.

Ownership Requirements

Fifty-one per cent participation by UAE nationals is the general requirement for all UAE established companies except:

Where the law requires 100% local ownership; where wholly owned Arab Gulf Cooperation Council (AGCC) companies enter into partnership with UAE nationals; In respect of foreign companies registering branches or a representative office in UAE; in professional or artisan companies where 100% foreign ownership is permitted.

Legal Structures for Business

In the past, each emirate followed its own procedures governing the operations of foreign business interests. In practice, however, UAE and the other emirates followed the same general system, whereby foreign companies operated in one of three ways: with a local sponsor, through a partnership with a UAE national or company, or through a private limited company or public shareholding company incorporated by Ruler's decree.

Since 1984, steps have been taken to introduce a codified companies law applicable throughout the UAE. Federal Law No. 8 of 1984, as amended by Federal Law No. 13 of 1988 - the "Commercial Companies Law" - and its by-laws have been issued. In broad terms the provisions of the Law are as follows:

The Federal Law stipulates a total local equity of not less than 51% in any commercial company and defines seven categories of business organization which can be established in the UAE. It sets out the requirements in terms of shareholders, directors,

minimum capital levels and incorporation procedures. It further lays down provisions governing conversion, merger and dissolution of companies.

The seven categories of business organisation defined by the law are:

1. General partnership company
2. Partnership-en-commend am
3. Joint venture company
4. Public shareholding company
5. Private shareholding company
6. Limited liability company
7. Share partnership company

Partnerships

Partnership companies are limited to UAE nationals only. The UAE government does not presently encourage the establishment of partnership-en-commendam and share partnership companies.

Joint Venture Companies

A joint venture is a contractual agreement between a foreign party and a local party licensed to engage in the desired activity. The local equity participation in the joint venture must be at least 51%, but the profit and loss distribution can be prescribed. There is no need to license the joint venture or publish the agreement. The foreign partner deals with third parties under the name of the local partner who - unless the agreement is publicized - bears all liability.

In practice, joint ventures are seen as offering a suitable structure for companies working together on specific projects.

Public and Private Shareholding Companies

The law stipulates that companies engaging in banking, insurance, or financial activities should be run as public shareholding companies. Foreign banks, insurance and financial companies, however, can establish a presence in Dubai by opening a branch or representative office.

Shareholding companies are suitable primarily for large projects or operations, since the minimum capital required is USD 2.725 million for a public company, and USD 0.545 million for a private shareholding company. The chairman and a majority of directors must be UAE nationals and there is less flexibility of profit distribution than is permissible in the case of limited liability companies.

Limited Liability Companies

A limited liability company can be formed by a minimum of two and a maximum of 50 persons whose liability is limited to their shares in the company's capital. Such companies are recognized as offering a suitable structure for organizations interested in developing a long term relationship in the local market.

While foreign equity in the company may not exceed 49% of the minimum capital, profit and loss distribution can be prescribed. Responsibility for the management of a limited liability company can be vested in the foreign or national partners or a third party.

The following steps are required in establishing a limited liability company in UAE. Select a commercial name for the company and have it approved by the Licensing Department of the UAE Department of Planning and Economy; Draw up the company's Memorandum of Association and have it notarized by a Notary Public in the UAE Courts; Seek approval from the UAE Department of Planning and Economy and apply for entry in the Commercial Register; Once approval is granted, the company will be entered in the Commercial Register and have its Memorandum of Association published in the Ministry of Economy and Commerce's Bulletin. The license will then be issued by the UAE Department of Planning and Economy; the company should then be registered with the UAE Chamber of Commerce and Industry.

Branches and Representative Offices of Foreign Commercial Companies

The Commercial Companies Law also covers the formation and regulation of branches and representative offices of foreign companies in the UAE and stipulates that they may be 100% foreign owned, provided a local agent is appointed.

Only UAE nationals or companies 100% owned by UAE nationals may be appointed as local agents (which should not be confused with the term "commercial agent"). Local agents -- also sometimes referred to as sponsors -- are not involved in the operations of the company but assist in obtaining visas, labour cards, etc and are paid a lump sum and/or a percentage of profits or turnover. In general, branches and offices of foreign commercial companies are not licensed to engage in importing activity except for re-export or in the case of products of a highly technical nature.

To establish a branch or representative office in UAE, a foreign commercial company should proceed as follows:

Apply for a license from the Ministry of Economy and Commerce, submitting an agency agreement with a UAE national or 100% UAE owned company. Before issuing the license, the Ministry will forward the application to the UAE Department of Planning and Economy to obtain the approval of the UAE government; forward the application specifying the activity that the office or branch will be authorized to undertake in the UAE, to the Federal Foreign Companies Committee for approval.

Once this has been done, the Ministry of Economy and Commerce will issue the required Ministerial license specifying the activity to be practiced by the foreign company; The branch or office should be entered in the UAE Department of Planning and Economy's Commercial Register, and the required license will be issued; The branch or office should also be entered in the Foreign Companies Register of the Ministry of Economy and Commerce; Finally the branch or office should be registered with the UAE Chamber of Commerce and Industry.

Branches and Representative Offices of Foreign Professional Companies

Branches and representative offices of foreign professional firms may be 100% foreign owned provided UAE nationals or 100% UAE owned companies are appointed as local agents. Such agents are not involved in the operations of the firm but assist in obtaining visas, labour cards etc and are paid a lump sum as remuneration. The UAE Department of Planning and Economy is the authority in charge of licensing such branches or representational offices.

Professional Firms

In setting up a professional firm, 100% foreign ownership, sole proprietorships or civil companies are permitted. Such firms may engage in professional or artisan activities but the number of staff members that may be employed is limited. A UAE national must be appointed as local service agent, but he has no direct involvement in the business and is paid a lump sum and/or percentage of profits or turnover. The role of the local service agent is to assist in obtaining licenses, visas, labour cards, etc

The legal terms of issuing a license in Abu Dhabi have been attached in Appendix B for reference.

4.0 CONCLUSIONS

The unprecedented growth of trade and tourism in the United Arab Emirates has spared no industry in the federation to embark on ambitious expansion schemes. The regional municipalities, government authorities, port authorities, airport authorities etc. are working on a double shift to put in place the infrastructure required to support the developments which are either planned or under construction.

Major investments are planned or underway for the expansion of existing airports, as well as construction of new capacity in the country. Dubai's airport expansion portfolio includes addition of a new terminal at the existing International airport and construction of a new Airport City in Jebel Ali. Abu Dhabi has also embarked on construction of a new terminal to accommodate the planned fleet expansion of Etihad Airways. Expansion is either underway or planned at Sharjah, Ras Al Khaimah and Fujairah while Ajman is focusing on construction of a new facility.

In February 2006, the emirate of Dubai launched a landmark initiative to tap a Dh3.67 trillion (\$1 trillion) global aviation industry and to transfer international aviation and aeronautics technology to the region. Dubai Aerospace Enterprise (DAE), a global aerospace manufacturing and services corporation with an investment of Dh55 billion (\$15 billion) to be spent in the next five years will be established in the emirate. The initiative, to be based in the 140-square-kilometre Jebel Ali Airport City (JAAC), will create the world's largest aviation hub and prepare Dubai to participate in major aircraft manufacturing programmes in future, most likely the Airbus A350 programme.

There are eleven commercial ports in U.A.E; Al Fujairah, Khor Fakkan, Rashid, Jebel Ali, Zayed, Saqr, Al Jazeera, Ras Al Khaimah Port, Ajman, Khalid and Hamariya. Expansion schemes are underway or planned in almost all the ports in the federation. Abu Dhabi officially unveiled plans on 14th January 2006 to build the estimated AED 8,000 million (\$2,100 million) Khalifa Port & Industrial Zone at Taweelah in Abu Dhabi. The project will eventually replace the Mina Zayed port. In Dubai, DPA is planning a Dh4,200 million (\$1,100 million) expansion programme to boost the capacity of Jebel Ali container terminal to 21.8 million 20-foot equivalent units (TEUs) by 2020. Ras al-Khaimah (RAK) is planning to invest \$1,000 million to expand the emirate's port infrastructure.

Substantial investment has been pumped into construction of roads and bridges over the past years throughout the federation. In Dubai, the DRTA has embarked on some major projects focusing on improving traffic movement and road networks by implementing short and long term plans. Dubai Creek will have a total of six crossings within the next few years to ease traffic flow. Currently there are three crossings – the Al Shindagha Tunnel, Al Maktoum Bridge and Al Garhoud Bridge while the fourth crossing Ras Al Khor Bridge is under construction. The Al Garhoud bridge will be replaced by a new 7-lane dual carriageway bridge, the contractor for which was finalized in February 2006. The fifth crossing will be near the Sheraton Hotel while the sixth will be after the under construction Ras al Khor bridge. The RTA is drawing up plans to tender several more major road projects. The largest new scheme will involve the construction of two new

highways running parallel to Shaikh Zayed highway between the Zaabeel area and Jebel Ali.

The emirate of Dubai will spend more than Dhs.25 billion (US\$6.81 billion) to improve the city's road, traffic and transport services by 2008. The plan has allocated Dhs.15 billion (US\$4.08 billion) for Dubai Metro and Dhs10 billion (US\$2.72 billion) for roads, traffic and public transport. Dubai will spend Dhs.3.5 (Dhs.953 million) in 2006 to build new roads and bridges in addition to improving the existing road network to ease traffic congestion. A separate Dhs.1 billion (US\$272 million) has been allocated for the Al Sufouh road network improvement project. The emirate of Abu Dhabi spends over US\$1 billion annually on the roads sector alone. By 2020, every road and street in the capital will be turned into four-lane carriageways. Two ambitious bridge projects are currently underway in the capital, one an 8-lane bridge to connect Al Reem Island to the main Abu Dhabi island and the second is the 3rd Maqta Crossing. In the Northern Emirates, the Ministry of Public works is embarking on a Dhs.900 million (US\$245 million) highway project to link Sharjah and Fujairah.

Rapidly expanding cities such as Dubai need mass transit systems if they are to continue to develop, and that puts rail developers in a very strong position when it comes to negotiating revenue guarantees. The year 2006 will witness the start of construction on the Dubai light rail transit (LRT) network. Dubai is likely to get at least eight monorails in addition to the Dubai Light Rail project. Four of them, one on The Palm Jumeirah, a second in Dubai International Financial Centre, a third in the City of Arabia at Dubailand and the fourth in Jebel Ali Airport City, have been confirmed. Four others are being studied. The other four are likely to be built in Dubai Waterfront, the Burj Dubai complex, The Palm Deira and Dubai Festival City. A fast track underground metro line to link Dubai International Airport and the proposed airport in Jebel Ali is also being studied.

An all-German consortium of Dornier Consulting, Deutsche Gesellschaft für Technische Zusammenarbeit (GTZ) and DE-Consult has completed a pre-feasibility study for the 700km long Emirates Railway project initiated by the Abu Dhabi Department of Planning & Economy. The same consortium is now undertaking a second stage study on the project which is due to be completed in September 2006.

The GCC Transport Ministers in October 2004 has given the go-ahead for a commissioning study to establish a GCC rail network connecting all the six GCC countries. The GCC technical coordinating committee is expected to issue a tender for a full feasibility study on the estimated US\$5,500 million project in 2006. An ambitious railway network extending in a giant loop from the Syrian/Turkish border, through Iraq and along the Arabian Peninsula's Gulf, Arabian Sea and Red Sea coasts is also being discussed which will have the seven UAE emirates connected to the loop.

The following table below details briefly the major initiatives in the UAE for Airports, Ports, Roads and Railways which are detailed in-depth within section 3.2 UAE Infrastructure Overview of this report.

Initiatives	Description	Period	Value (US \$)
Airports			
Abu Dhabi International Airport Expansion	Phase 1 will handle 20 million passengers per annum	Phase 1 to complete by 2010/11	6.8 billion (2 phases)
New Dubai Aerospace Enterprise	Establishing a global aerospace manufacturing and services corporation	5 years	15 billion
Sharjah Airport Expansion	Double the capacity to 8 million passenger	2005 - 2006	62
Ras Al Khaimah Airport Expansion	Expansion of the airport	Master plan under revision – duration not determined	N/A
New Ajman International Airport	The BOT contractor was awarded in 2001 but work has not progressed any further and is likely to be canceled	N/A	800
Ports			
Khalifa Port and Industrial Area in Abu Dhabi	Port will replace Port Zayed in Abu Dhabi. Capacity is yet to be established.	First phase will be completed in 5 years	2,100 million
Expansion of Jebel Ali Port	Expansion to boost capacity of Jebel Ali container terminal to 21.8 million 20-foot equivalent units	Completion expected by 2020	1,144 million
Dubai Maritime City	Mixed use offshore facility in Dubai to serve the maritime industry	Construction underway since late 2005.	175 million
Sharjah Maritime City	Maritime city in Sharjah's Hamriyah Free Zone	Master plan being prepared. Project duration is 18 months.	N/A

Initiatives	Description	Period	Value (US \$)
Ports (Continued)			
Ras Al Khaimah - Port Expansion	Expansion of Jazeerah Al Hamra port, Mina Saqr, RAK Port and Ras Al Darah port to increase the capacity to 30 million tones/year from 7mt/y.	N/A	1 billion
Roads			
Dubai Roads and Bridges	Building new roads and bridges	2006	954 million
Dubai Roads and Bridges	Roads and bridges	2007 - 2008	1.77 billion
Dubai - Sufouh Road	Al Sufouh road network improvement	2006 - 2008	272 million
Dubai Ittihad Road	Expanding the existing road from 4 to 8 lanes & improvements of 5 interchanges. The addition of 8 bridges and 4 underpass lanes	2006 - 2008	190 million
Abu Dhabi Roads and Bridges	Roads and bridges	Annually	1 billion
Abu Dhabi Al Reem Island Bridge	Al Reem island to main Abu Dhabi island bridge	2004 - 2006	N/A
Abu Dhabi Maqta Bridge	3 rd Maqta Crossing	2003 - 2006	177
Abu Dhabi - Qatar Causeway	300 km bridge connecting the two countries	N/A	N/A
Northern Emirates Highway	Highway project to link Sharjah and Fujairah	2006 - 2008	245 million
Railways			
Dubai Light Rail System	The Metro will transport 43,000 passengers/hour within the emirate, which is expected to increase to 50,400 passengers later	2006 - 2008	4.08 billion
Emirates Railway	700 km railway connecting the 7 Emirates of UAE	2010-2015	N/A
GCC Railway Network	Railway network to connect the 6 GCC countries.	Completion is expected to take 6 years	5,500 million

Initiatives	Description	Period	Value (US \$)
Railways (Continued)			
Arabian Railway Network	Railway network to connect Syria, Jordan, Iraq, Saudi Arabia, Oman and the UAE.	N/A	N/A

There is clearly a shortage of specialized contractors and consultants in the region. Tender invitations for several major infrastructure contracts are left unattended by the contractors because of the bulk of activity they are already involved in. Projects have been delayed or mothballed entirely across the region, as contractors only cherry-pick lucrative packages. The situation has reached crisis point in Dubai and Qatar where some tender announcements are failing to attract even a single response. The capacity crisis in the industry has led to fears that public sector tender awarding bodies are not getting value for money. The engineering department of the Municipality currently processes between 500 and 600 tenders every year, and the shortage of contractors responding to announcements is beginning to have a major impact on its infrastructure planning programme. The main reason for this situation is that there are too many developments happening at the same time, and contractors are putting in high rates. Contractors are also fearful of over-stretching themselves and gaining a bad reputation among clients for being unable to deliver projects on time.

Billions of dollars worth of projects are planned for infrastructure development in the country, particularly for the construction of roads and bridges, airports, ports and railway network. The lucrative sector is expected to bring in new companies to the region which can offer construction related services and be a partner in the development of the region.

5.0 APPENDICES

5.1 APPENDIX A: MAJOR UAE ROADS AND BRIDGES PROJECTS

1. Project Title	:	<u>SHEIKH ZAYED BRIDGE CROSSING – PACKS 3 & 4</u>
Project Value	:	US\$172 Mn (Dhs.630 million)
Client	:	Dept. of Municipalities & Agriculture-Abu Dhabi Municipality
Consultant	:	High Point Rendel and Zaha Haddad (London)
Main Contractor	:	Archirodon Construction
Project Background:		3rd bridge crossing adjacent to Maqta Bridge starting from Umm Al Nar roundabout at the beginning of Channel Street to tie in to the end of Eastern Ring Road. Part of Abu Dhabi Master Plan to solve the communication problems at the entry to the Abu Dhabi Island.
Project Scope	:	<p>Construction of a 650 metres long bridge along with adjoining interchanges and connections on both sides of the Maqta Channel to the existing Channel Street and Eastern Ring Road.</p> <p>Pack 3: Construction of a 850m long bridge that will cross the Maqta Channel, will have a central span of 150m (Dhs.400 million). The contract also includes construction of 1.3km of dual carriageway, carryout landscaping and install lighting, signage, railings and drainage. The bridge will have 3 arches with the main arch having a span of 234 meters. The bridge will resemble dunes of the desert. The bridge will be called as the Shaikh Zayed bridge.</p> <p>Pack 4: Construction of an access road to the Grand Mosque for traffic entering Abu Dhabi across the Sheikh Zayed Bridge. The 4th pack will be carried out in two parts. Part 1: Construction of a new slip road under the island side approach embankment in 2005. Part 2: Extension of the access road, via 1,050 meters of viaducts, to the Grand Mosque.</p>
Schedule	:	<p>Pack 3: Tender for main contractor issued in Aug' 2001 with closing date on 8th Oct' 2001. Archirodon submitted the lowest bids (Dhs.636.4) followed by Six Construct with Hyundai Engineering (Dhs.748.4 million). Archirodon appointed as the contractor for Pack 3 during Jan' 2003. Works on the project are underway and the project is expected to be complete by mid 2006.</p> <p>Pack 4: High Point Rendel has been appointed in Oct' 2004 as the main consultant for pack 4 of the project. High Point</p>

Rendel will be the designer and construction supervisor for pack 4. Tender for part 1 of pack 4 was issued in the month of Jan' 2005. Part 1 will be re-tendered. The re-tender which will be issued in 3rd quarter of 2006 will also include part 2.

Remarks : The project was previously named Third Maqta Crossing.

Bidders for the consultancy contract were: Rendal Palmer & Tritton, Hyder Acer Freeman Fox, Halcrow International Partnership and Ove Arup & Partners all from the UK, and US based De Leuw Cather Int'l.

2. Project Title : **ABU DHABI - DUBAI HIGHWAY – PACK 1B**
Project Value : US\$42 Mn (Dhs.155 million)

Client : Dept. of Municipalities & Agriculture-Abu Dhabi Municipality
Consultant : Parkman Consultants (UK)
Main Contractor : Bin Hafeez Contracting

Project Background: A project to upgrade the main highway between Abu Dhabi and Dubai. Overall project for the Abu Dhabi - Dubai Highway Upgrade is divided onto five bigger and a few smaller packages each containing 13 to 17 km of 4-lane dual carriageway construction in average along with installing street lighting, drainage and water ways and interchanges, if necessary.

Project Scope : Contract 1-B – construction of a 2.5 km road and a new intersection at Shawamikh.

Schedule : Tender for pack 1-B issued in June 2002 with closing date on 15th July 2002. Bin Hafeez submitted the lowest quotes (Dhs.153.28 mn) followed by ADMAK at Dhs.167.36mn. Pack 1-B was awarded to Bin Hafeez Contracting in Sept' 2003. Work on pack 1-B has commenced in Nov' 2003 and the project duration is 24 months. Completion of the project is now scheduled in December 2006.

3. Project Title : **SEVEN UNDERPASSES IN AL AIN – PHASE 2**
Project Value : US\$45 Mn (Dhs.168 million)

Client : Al Ain Municipality
Consultant : Maunsell Consultancy Services (UK)

- Project Scope** : Phase two (Dhs. 168 million) calls for the construction of three underpasses on Al Ain – Abu Dhabi road. The first underpass will be at a junction of Al Maqam Palace entrance, the second on Twam roundabout and the third one at Asharaj roundabout.
- Schedule** : Consultant appointed in June '99. Project is expected to be tendered under six different contracts. Phase one will include four contracts and phase 2, two contracts.

PHASE II

Tender for Tawam underpass is expected to be issued in the 2nd quarter of 2006.

Tender for the Asharaj underpass is expected to be issued in the 1st quarter of 2006. Project is on hold.

- Remarks** : Shankland Cox is appointed as the sub-consultant by Maunsell for the landscape design of some of the underpasses.

4. Project Title : SAADIYAT ISLAND CROSSING PROJECT

Project Value : US\$ Mn (Dhs. million)

Client : Abu Dhabi Tourism Authority (ADTA)

Consultant : Parsons International

Project Scope : The project entails the construction of a 1,455-metre-long segmental box girder bridge, with five carriageways running in each direction for road traffic and two central lanes reserved for a provisional rail link, and the construction of a road between the bridge and the existing Mina road on Abu Dhabi Island.

Schedule : ADTA has invited contractors to submit pre-qualification documents by 15th February 2006 for the proposed bridge linking Saadiyat island to Abu Dhabi island. ADTA aims to complete the pre-qualification process by 1st March 2006, and is expected to issue tenders for the construction contracts in July 2006.

5. Project Title	:	<u>INTERCHANGE NEAR SWEIHAN ROUNDABOUT</u>
Project Value	:	US\$27 million (Dhs.100 million)
Client	:	Dept. of Municipalities & Agriculture-Abu Dhabi
Consultant	:	Frederic R. Harris
Project Scope	:	Project calls for the construction of an interchange near Sweihan roundabout, near Al Hayr on the Al Ain-Dubai highway.
Schedule	:	Maunsell Group was appointed as the consultant in the 1 st quarter of 2001. Tender for the main contractor was issued on 17 th August 2005 with bid submission set on 12 th September 2005. Al Muhairy General Contracting Co. is the lowest bidder at Dhs.99.8 million followed by Al Jaber Transport & General Contracting at Dhs.114 million. The other bidders are Ghantoot Transport & General Construction at Dhs.115 million, Admak General Contracting Co. at Dhs.115.4 million, Al Geemi & Partners Contracting Co. at Dhs.125.5 million, Copri Construction Co. at Dhs.139.4 million, Saif Bin Darwish Co. at Dhs.154.5 million and Nael & Bin Harmal Contracting & Irrigation Est. at Dhs.164 million. Contract is expected to be awarded in the 2 nd quarter of 2006.
Remarks	:	Construction Tender No. : 95/2005.

6. Project Title	:	<u>INTERNAL ROADS IN UMM GHAFI, AL AIN</u>
Project Value	:	US\$25 Mn (Dhs.90 million)
Client	:	Al Ain Municipality
Consultant	:	Gibb Limited
Main Contractor	:	Al Jaber Est.
Project Scope	:	Project involves construction of 50 kilometres of internal roads with street lighting in Umm Ghafi area in Al Ain.
Schedule	:	Tender for main contractor issued in April 2002 with closing date on 6 th May 2002. Al Jaber submitted the lowest quotes (Dhs.88 million) followed by Bin Hafeez (Dhs.96 mn). Tender Specification No. is M-16A/B (Stage 2). Al Jaber Enterprises has been appointed as the contractor in Nov' 2002. Construction began in Jan' 2003. Construction underway and project duration is 3 years. Completion is scheduled on 13 th of April 2006.

Remarks : The current project is the phase 2 of the M-16A/B contract. The phase 1 calls for the construction of internal roads, stormwater drainage and street lighting in Mezyad and Al Dhaher. Bin Hafeez was the lowest bidder at Dhs.137 million followed by Al Jaber Transport & General Contracting at Dhs.147.7 million. Bin Hafeez was awarded the contract in Jan' 2000.

7. Project Title : MAFRAQ – SAUDI ROAD UPGRADE

Project Value : Dhs. million

Client : Dept. of Municipalities & Agriculture-Abu Dhabi Mun.

Consultant (study): Gibb Limited

Project Scope : Project calls for the upgrade of 335km dual carriageway from Mafrqa interchange to Al Ghwaifat, about 30km beyond Sila, on the Saudi border. The study will also involve ascertaining traffic volumes, street lighting, making changes to the existing Mussafah and Mafrqa interchanges, and the possible conversion of the road into a three-lane carriage way.

Schedule : Eight consultants submitted proposals for a feasibility study contract on 17th Jan' 2000. Consultant appointed in Jan' 2001. Project is still in the study stage. Detailed time schedule is yet to be established.

Remarks : The 1st phase of the project, stretching from Mafrqa to Mirfa, is estimated to cost Dhs.900 million.

The consultants participated for the feasibility contract include Hyder Consulting, Conesco International, Dorsch Consult, Cansult, Maunsell, Diwi Consult, Frederic R. Harris and Gibb.

8. Project Title : THREE TUNNELS & TWO FLYOVERS IN ABU DHABI

Project Value : US\$209 million (Dhs.769 million)

Client : Dept. of Municipalities & Agriculture-Abu Dhabi Mun.

Consultant : Parsons De Leuw Cather International

Project Scope : The project calls for the construction of three tunnels and two flyovers in Abu Dhabi. The length of the longest tunnel will be 1,100 metres with the two smaller ones extending about 740 metres. Each tunnel will include a three-lane dual carriageway.

The first and the longest tunnel will begin at the intersection of Mina Port, Corniche and Salam and ending after Zayed the first (Electra) Street Intersection on Salam Street. After this tunnel a flyover with four lanes each side will replace the existing intersection at 31st Street on Salam Street, which will end before approaching Al Falah Street junction, where another tunnel will be constructed. The third tunnel will be built on Hazza Bin Zayed Street junction on Salam Street. Another flyover will replace the intersection in front of Al Bahar Palace on the street.

Schedule : Design is currently underway. The project will be tendered as one single contract. Tender for the construction contract is expected to be issued during mid 2006. Project completion is expected in 2009.

9. Project Title : **DUBAI – FUJAIRAH ROAD**

Project Value : US\$222 million (Dhs.815 million)

Client : Ministry of Public Works & Housing

Consultant (study): Snowy Mountain Engineering Corp. Ltd.

Consultant : Al Turath Engineering / Wilbur Smith Associates

Main Contractor : Al Muhairy General Contracting/National Wheel J&P

Project Scope : The project involves construction of a new highway from Dubai to Fujairah. The total length of the highway will be 80 km. The scope of works include bridges, underpasses, tunnels and access slip roads to ensure uninterrupted traffic. Construction will also include a new tunnel cutting into the Hajar mountains in the Dhaid area.
Contract 1 – 23.3 km of road from Mileiha to Sifini.
Contract 2 - 22.1 km of road from Sifini to Fuairah.

Schedule : Snowy Mountain appointed as the study consultant in Feb' 2000. Study was completed in the 1st quarter of 2001. Al Turath appointed as the consultant for the project.

Tender for Contract No.1 was issued during April 2003 and the bid submission date was on 16th June 2003, extended to 21st July 2003. Tender was again extended to 25th Aug' 2003. A re-design on the project started on December 2004. Project was re-tendered on 15th of June 2005 with bid submission by 18th August 2005. Bid submission was extended to 12th September 2005. Contract duration is 36 months. Al Muhairy General Contracting Co. was the lowest bidder for contract no.1 at Dhs.223 million followed by Darwish Engineering at Dhs.255 million. Al Muhairy

General Contracting has been appointed as the main contractor for Contract No. 1 in March 2006.

Tender for Contract No.2 was issued during May 2003 and bid submission date was on 14th July 2003, extended to 11th Aug' 2003. Tender was once again extended to 25th Aug' 2003. Contract 2 involves upgrading of the 3rd section (37Km) of the Sharjah-Kalba road. A re-design on the project started on December 2004. Project was re-tendered on 15th of June 2005 with bid submission by 15th August 2005. Bid submission was extended to 12th September 2005. Contract duration is 41 months. National Wheel J&P was the lowest bidder for contract no. 2 at Dhs. 587 million. The lowest bid was 12% lower compared to the next which was submitted by Saif Bin Darwish. One other company also submitted bid for contract no. 2. National Wheel J&P bagged the Contract No. 2 in March 2006.

Remarks : New Tender No R/27/070/48/2005 is for Contract 1 and Tender No. R/27/070/49/2005 is for Contract 2.

10. Project Title : **AL KHAN LAGOON – ROADS & BRIDGES**

Project Value : US\$55 Mn (Dhs.200 million)

Client : Directorate of Public Works

Consultant : Halcrow International

Project Scope : Project calls for the construction of a 4.5km road which will include 7 interchanges at Al Khan area in Sharjah. The seven interchanges will comprise of 17 bridges.

Schedule : Tender for main contractor was expected to be issued in May 2001. The tender for the main construction contract was issued in January 2006.

11. Project Title : **ABU DHABI CORNICHE EXPANSION**

Project Value : US\$185 Mn (Dhs.680 million)

Client : Dept. of Municipalities & Agriculture-Abu Dhabi

Consultant : Parsons De Leuw Cather International

Main Contractor 1 : Al Muhairy General Contracting

Main Contractor 2 : Al Muhairy General Contracting

Project Scope : The contract entails 200-metre expansion of Abu Dhabi Corniche from Sheraton to Mina Zayed. The stage 1 contract includes 6.5million cubic metres of dredging and about two kilometers of asphaltting and road works. Stage 2 includes extending the corniche by about 6km behind the Sheraton hotel towards Mina Zayed and the construction of three underpasses. It involves the construction of three road tunnels aimed to minimize traffic congestion and 11 pedestrian underpasses for the safety of the park users. A road and pedestrian bridges will also be built across a lagoon. The existing corniche road will be redeveloped into a local road and parking areas to accommodate about 4,000 vehicles within the corniche. The contract also includes construction of eight pedestrian ways, parks and related works.

The new corniche will be significantly wider than the existing one. It will have bike paths, extensive landscaping, seating areas, waterfront plazas and public facilities. The pathway will be paved with a variety of materials and patterns. The park area will be developed into 3 major zones known as the Family Park, the Central Park and Heritage Park, with all associated facilities. The project will also consist of museums. The project is intended to convert the corniche into a major entertainment and tourism centre.

Schedule : BM Engineering & Construction Company was awarded the stage 1 construction contract in Nov' 2001. Completion was expected in May 2003. BM Engineering has been taken off from the project during early 1st quarter of 2003. The AD municipality has issued a re-tender for phase I and the bid submission date was on 10 Mar' 2003. Al Muhairy Gen. Contracting has been appointed as the stage 1 contractor for the project. Stage 1 of the project has been completed in Jan' 2005.

Tender for the estimated Dhs.500 million stage 2 issued in Aug' 2002 with closing date on 16th Sept' 2002. Bid submission date was further extended to 30th September 2002. Al Muhairy Contracting was the lowest bidder for the project at Dhs. 590,220,000 followed by ADMAK at Dhs. 637,159,000. Contract No. is 2016. Al Muhairy was appointed as the stage 2 contractor in the 1st quarter of 2003. Stage 2 of the project is expected to be completed in June 2006.

- 12. Project Title :** **REBUILDING OF BRIDGE NO. 6 ON SHAIKH ZAYED ROAD**
- Project Value :** US\$27 Mn (Dhs.100 million)
- Client :** Dubai Road Transport Authority (DRTA)
- Consultant :** Parsons De Leuw Cather International
- Project Background:** The project is part of the plan to replace all eight bridges on Shaikh Zayed road at a cost of Dhs.480 million. New bridges will be in place by 2007.
- Project Scope :** Project calls for the replacement of bridge no.6 on Shaikh Zayed road with a new bridge.
- Schedule :** Project still in its early stage. Design has not yet started. Detailed time schedule is yet to be established.
-
- 13. Project Title :** **REBUILDING OF BRIDGE NO. 1 ON SHAIKH ZAYED ROAD**
- Project Value :** US\$ Mn (Dhs. million)
- Client :** Dubai Road Transport Authority
- Consultant :** Parsons De Leuw Cather International
- Project Scope :** The project calls for the reconstruction of Interchange No. 1 at the Defence Roundabout. The scope involves construction of a three-level interchange which will have access to the Dubai International Financial Center and Burj Dubai.
- Schedule :** Tender for the main contractor is expected to be issued in March 2006.
-
- 14. Project Title :** **KING FAISAL SQUARE INTERCHANGE IN SHARJAH**
- Project Value :** US\$12 million (Dhs.43 million)
- Client :** Directorate of Public Works
- Consultant :** Halcrow International
- Main Contractor :** Sharjah General Contracting
- Project Background:** The project is part of a comprehensive plan to ease traffic congestion on Sharjah roads.
- Project Scope :** The project involves demolishing the existing Mother Cat roundabout and construction of a new six lane (three lane on each side) clover leaf shaped flyover.

Schedule : Contractors submitted bids on 27th April 2005. Sharjah General Contracting was appointed as the main contractor in July 2005. Project duration is 720 days. Construction started in August 2005.

Pre-qualifiers for the construction contract were Darwish Engineering, Sharjah General Contracting, Wade Adams Contracting, National Contracting Co., and a Chinese Co.

15. Project Title : **AL GARHOUD BRIDGE CORRIDOR**

Project Value : Dhs. million

Client : Dubai Road Transport Authority (DRTA)

Consultant (study): Halcrow International

Project Background: Al Garhoud Bridge Corridor is part of the inter-emirate strategic highway network and is classed as an arterial freeway within that network.

Project Scope : The Al Garhoud Bridge Corridor will be the most important transport corridor in Dubai, linking the emirate to Abu Dhabi and Sharjah. It will stretch from the Trade Centre on the Bur Dubai side of the Creek and run northwards to terminate at the Al Qiyadah interchange to the north of Dubai International Airport on the Deira side. Part of the project is the expansion of the Al Garhoud bridge into a seven-lane dual carriageway (Ref. IS136 for more details).

Schedule : Study on the project began in Aug' 2001 and is expected to be finished in the 3rd quarter of 2002. It is planned to issue 4 tenders on the project. The 1st tender was expected to be issued by the end of 2003 or during early 2004. The other 3 tenders will follow within a period of 1-2 months interval. Construction was expected to commence in 2004. The project is under design.

16. Project Title : **NEW GARHOUD BRIDGE**

Project Value : US\$113 million (Dhs.415 million)

Client : Dubai Road Transport Authority (DRTA)

Consultant : Halcrow

Main Contractor : Belhasa Six Construct

Project Scope : The project involves the construction of two 520 meter-long single-span bridge decks crossing the creek to the east of the existing Garhoud Bridge. The existing bridge will be demolished once the new crossing is completed. The new

bridge will have a 7-lane dual carriageway and will provide 15 meters of clearance for vessels on the creek.

Schedule : Halcrow was appointed as the consultant for the project during early 2002. The client invited contractors to submit bids by 4th December 2005 for the construction contract. Expected bidders for the construction contract include Dutco Balfour Beatty, Consolidated Contractors International Co., J&P National Wheel, and Six Construct. Deadline for submission of bids was extended to 25th December 2005.

Bids were opened on 15th January 2006 and results were as follows: Belhasa Six Construct was the lowest bidder at Dhs.415 million and offered alternative bids of Dhs.402 million, Dhs.404 million, and Dhs.391 million. This was followed by Al Masood Contracting with Gamudy (Malaysia) at Dhs.489 million. Other bidders were Bin Hafeez General Contracting & Transport, Wade Adams, and Darwish Engineering. Dutco Balfour Beatty declined to bid for the project. Belhasa Six Construct is awarded the main construction contract in February 2006.

17. Project Title : **TUNNEL LINKING AIRPORT ROAD & KHALIFA STREET**
Project Value : Dhs. million

Client : Abu Dhabi Municipality

Project Scope : Project calls for the construction of a tunnel to link Zayed The First Street (Airport Road) with Khalifa Street via Hamdan Street.

Schedule : Project has not progressed beyond the concept stage.

18. Project Title : **INTERNAL ROADS IN AL SHABIA-AL AIN**
Project Value : Dhs.10 million

Client : Dept. of Municipalities & Agriculture-Abu Dhabi Mun.
Consultant : High Point Rendel

Project Scope : Project involves construction of internal roads for new low cost houses at Al Shabia in Al Ain.

Schedule : Tender for the main contractor issued during Dec' 2002 and bid submission date for the project was on 6th Jan' 2003. The bid deadline was extended to 13th from the

original 6th Jan' 2003. No award has been yet made on the project. The project was re-tendered in July 2005. Bid submission date was not finalized. The tender is again cancelled and a re-tender is expected to be issued by end of February 2006. Re-tender was issued in February 2006.

Remarks : The bidders for the project and their respective prices are as follows:
Rike Emirates-Dhs.7,599,260
Al Dhafra-Dhs.7,801,435
Al Fahgan-Dhs.9,974,870
Saif Bin Darwish-Dhs.11,495,025
Bin Ham-Dhs.13,156,453
Pauling ME-Dhs.13,499,950
HILALCO-Dhs.13,750,000
Bin Hafeez-Dhs.14,600,000
Al Jeemi-Dhs.14,927,750
BRICC-Dhs.17,337,000
Tender no: is 141/2002.

19. Project Title : **ROADS, STORM WATER DRAINAGE AND SEWERAGE IN AL BAGH-AL BATEEN**

Project Value : US\$22 Mn (Dhs.82 million)

Client : Al Ain Municipality and Town Planning

Consultant : Hyder Consulting

Main Contractor : ADMAK

Project Scope : The project involves construction of Roads, Storm water drainage and Sewerage in Bagh Al Bateen.

Schedule : Tender for the main contractor issued in Dec' 2002 and bid submission date was on 3rd Feb' 2003. Main Contractor appointed in August 2003. Duration is 30 months. Completion of the project is now expected in June 2006.

Remarks : Tender no: is 151/2002. Contract no: is M40B. The tender opening results were as follows:

Admak-Dhs.81,735,000; Bin Hafeez-Dhs.82,000,000; Al Fahjan with Bin Harmal-Dhs.82,315,484; Egyptian Emirates Co. -Dhs.83,965,232; Bin Ham-Dhs.84,173,417; Saif Bin Darwish-84,435,437 and Al Muhairy-Dhs.91,839,400.

20. Project Title	:	<u>CONSTRUCTION OF ROAD IN BANIYAS EAST AND AL HEELIEH</u>
Project Value	:	US\$50 Mn (Dhs.185 Million)
Client	:	Dept. of Municipalities & Agriculture-Abu Dhabi
Consultant	:	Maunsell Consultancy
Project Scope	:	Project calls for the dualling of road between Baniyas East and Al Heelieh. The scope of work entails the construction of an 18.5 kilometer road with two lanes on each side, one interchange and associated works.
Schedule	:	<p>Tender for the main contractor was originally issued in Jan' 2003 and bid submission date was on 10th Feb' 2003. The bid deadline for the project was extended to 3rd March 2003, again extended to 17th Mar' 2003. The project was put on hold because BRICC which was appointed as the contractor for the project in May 2004 has closed down.</p> <p>The project underwent design revision. A new tender for the construction contract was issued on 13th September 2005 with bid submission on 26th September 2005.</p> <p>Al Muhairy General Contracting Co. is the lowest bidder at Dhs.184.3 million followed by Al Jaber Transport & General Contracting Est. at Dhs.198.4 million. The other bidders are Ghantoot Transport & General Construction at Dhs.198.5 million, Admak General Contracting Co. at Dhs.199.1 million, Al Geemi & Partners Contracting Co. at Dhs.219.7 million, Copri Construction at Dhs.248.5 million and Saif Bin Darwish Co. at Dhs.253.9 million.</p> <p>Contract duration is 18 months. Contract is expected to be awarded in April 2006.</p>
Remarks	:	<p>New Tender No. is 94/2005.</p> <p>Initial Construction Tender no: was 5/2003. Tender opening results show that the lowest 3 bidders were:- BRICC- Dhs. 134 million, Copri Construction- Dhs. 135 million and Ghantoot Contracting- Dhs.141 million.</p>
21. Project Title	:	<u>CONSTRUCTION OF ROAD TO AL AJBAN CAMP</u>
Project Value	:	US\$4.08 Mn (Dhs.15 million)
Client	:	Dept. of Municipalities & Agriculture-Abu Dhabi Mun.
Consultant	:	Dorsch Consult

Project Scope : Project calls for the construction of a road that will connect to the camp in Al Ajban.

Schedule : Tender for the main contractor issued in the 1st quarter of 2003 and the bid submission date was on 28th April 2003. There has been no award to date on the project. Project is still on hold.

Remarks : Tender opening results are as follows:
Copri Construction-AED 15.5 million; Saif Bin Darwish-AED 18 million; Ghantoot Contracting-AED 18.8 million; Bin Ham- AED 22 million; GENCO- AED 22.9 million; RIKE Emirates- AED 28.3 million.
Tender no: is 52/2003.

22. Project Title : **INTERNAL ROADS IN ABU DHABI**

Project Value : US\$10 Mn (Dhs.35 million)

Client : Dept. of Municipalities & Agriculture-Abu Dhabi Mun.

Consultant : Gibb Limited

Main Contractor : Copri Construction

Project Scope : Project calls for the construction of internal roads for the latest batch of new low cost houses that are being built in Abu Dhabi.

Schedule : Tender for the main contractor was issued in the 1st quarter of 2003 and the bid submission date was on 19th May 2003. Copri Construction was appointed as the contractor for the project in the month of Sept' 2004. Construction commenced in Oct' 2004. Project duration is 24 months.

Remarks : Tender no: was 70/2003; Contract no.4A. Tender opening results for the project were as follows: Al Jaber-AED 31.2 million; Saif Bin Darwish-AED 33.7 million; Copri Construction; 39.2 million.

23. Project Title : **AL SAFOUH INTERCHANGE**

Project Value : US\$48(Dhs.178 million)

Client : Dubai Road Transport Authority (DRTA)

Consultant : Parsons De Leuw Cather International

Main Contractor : Bel Hasa Six Construct/ Bin Hafeez General Contracting & Transport

- Project Scope** : Project calls for the construction of an interchange between the 4th and 5th interchanges on Sheikh Zayed Road. It is proposed to build a full free flow interchange at the intersection of Sheikh Zayed Road freeway with the existing road 331 (road serving Choueifat School and Dubai College) and road D611 currently linked to the Emirates Road on the east. The main features of this interchange include a tunnel serving the traffic coming from Dubai along the Sheikh Zayed Road going eastbound towards Al Khail Road and the Emirates Road. The interchange will also consist of a bridge connecting Road 331 northbound Sheikh Zayed road and another bridge connecting Road D611 to southbound Sheikh Zayed Road. A third bridge will also be built as part of the interchange over Sheikh Zayed Road to connect the two existing roads on the east and west of the road which will also serve the traffic traveling northbound wanting to go westbound to Al Safouh Area.
- Schedule** : Main contractor was expected to be appointed in Sept' 2003. A re-tender was issued on the project and the bid submission date was on 20th June 2004. The team of Bel Hasa Six Construct and Bin Hafeez Gen. Cont. was appointed as the contractor for the project in Aug' 2004. Project duration will be 570 days. Project is completed in March 2006.
- Remarks** : Tender opening results: Bel Hasa Six Construct with Bin Hafeez Gen. Cont. (AED 178 million); DBB (AED 186 million); Saudi Binladin Group (AED 191 million); Joannou & Paraskevaides (AED 209 million) and Wade Adams (AED 249 million).

24. Project Title : **IMPROVEMENTS TO AL AROUBA ROAD**

Project Value : US Mn (Dhs. million)

Client : Sharjah Public Works Department

Consultant (Study): Halcrow

Project Scope : Project calls for major improvements to be made to the busy Al Arouba Road in Sharjah. As part of the improvements it is also being considered whether to demolish the old overhead bridges and replace them or to strengthen them.

Schedule : Project is still in its early stages.

25. Project Title	:	<u>NEW ROAD IN ABU DHABI</u>
Project Value	:	US Mn (Dhs. million)
Client	:	Abu Dhabi Municipality
Project Scope	:	Project calls for the construction of a road to link the Tourist Club area to other parts of Abu Dhabi city. The main aim of the road is to ease traffic on Salam Street.
Schedule	:	Project is in a very early stage. Detailed time schedules have not been set.
26. Project Title	:	<u>FUJAIRAH – KHORFAKHAN ROAD</u>
Project Value	:	Dhs. million
Client	:	Ministry of Public Works
Consultant	:	Jouzy and Partners
Main Contractor	:	Al Nuaimi Group
Project Scope	:	Project involves construction of about 40-50 km road that will connect Fujairah to Khorfakhan.
Schedule	:	Tender for the main contractor was issued in Oct' 2004 and the bid submission date was on 10 th Nov' 2004. The tender submission was extended to 30 th Jan' 2005. The bid submission was further extended till 18 th April 2005, again extended till 5 th May 2005. The contract was awarded to Al Nuaimi Group in May 2005. Contract duration is 18 months. The project will not be re-tendered. The contractor will start mobilizing in April 2006.
Remarks	:	Construction tender no. was R/27/190/96/2004.
27. Project Title	:	<u>ROAD EXPANSION IN ABU DHABI</u>
Project Value	:	US\$16.35 Mn (Dhs.60 million)
Client	:	Dept. of Municipalities & Agriculture-Abu Dhabi Mun.
Consultant	:	Maunsell Consultancy
Main Contractor	:	Bin Hafeez
Project Scope	:	Project calls for the expansion of the road between Al Shawamik turn & Zayed Military City and Abu Dhabi-Swaihan Road.

Schedule : Tender for the main contractor was issued in the 3rd quarter of 2003 and the bid submission date was on 10th Nov' 2003. Project was awarded to Bin Hafeez in the month of Oct' 2004. Construction commenced in Nov' 2004. Project duration is 18 months.

Remarks : Results of the tender were as follows: BRICC-AED 58.5 million; Al Jaber AED 52 million; Ghantoot Trans and Gen. Cont.- AED 47.5 million; Bin Hafeez- AED 47 million; Al Fahjan- AED 63.5 million; Al Geemi & Partners- AED 68 million; Copri Const.- AED 49.8 million; Admak Gen. Cont.- AED 65 million; Saif Bin Darwish- AED 62 million.

Construction Tender no. was 160/2003.

28. Project Title : **RAS AL KHOR CROSSING**
Project Value : US\$300 million (Dhs.1,100 million)

Client : Dubai Road Transport Authority (DRTA)
Consultant : Parsons De Leuw Cather International
Main Contractor 1 : Bel Hasa Six Construct
Main Contractor 2 : Dutco Balfour Beatty

Project Scope : Project calls for the construction of a 4th crossing between Deira and Bur Dubai. The project aims to handle increased traffic volumes until 2020. The bridge will be a 12 lane bridge on the creek with a total of 5 major interchanges. The Ras Al Khor crossing will come up on the creek, 1.5 km east of Al Garhoud Bridge.

The new road is expected to ease congestion on Sheikh Zayed Road, Al Shindagha tunnel, Al Maktoum bridge and Al Garhoud bridge and will offer a freeway to motorists from Sharjah and northern emirates. The key intersections on the project are: Ramoul Intersection, Rabat Intersection, Garhoud-Riyadh Road Intersection, Jaddaf area intersection, Oud Metha Intersection. Some of the important features of the project is as follows:

- The project is expected to alleviate the traffic problems on Sheikh Zayed Road to the south and north towards Sharjah.
- The bridge will have 6 lanes in each direction with the option of adding a 6th lane in the future.

- The height of the bridge will be 19 meters above the high tide mark. This will allow ships to pass underneath the bridge without the need for a lifting span.
- Work on the intersections will include the construction of a northbound fly-over and exit from Khail Road to Ras Al Khor Road at intersection with road 309.
- A fully cloverleaf junction will be placed at the intersection with the second Za'abeel Road while a single point diamond interchange will form the intersection between Garhoud and Riyadh road.
- The fly-over will have a westbound loop at its intersection with Oud Metha Road while two left in and left out directional ramps will provide access to Jaddaf area.
- The bridge will have interchanges on both sides of the creek, thus enabling motorists to enter or exit the bridge.

Schedule : The project will be tendered in four packages:

Tender for the main construction package was issued in Aug' 2004 with closing date on 23rd Oct' 2004. The closing date for the main package was extended to 7th Nov' 2004. The main package, valued at about AED 388 million (\$106 million), covers the 12 lane bridge superstructure, a new interchange and an associated tunnel on the intersection of Al-Rabat road with Marrakech road. Bel Hasa Six Construct is the lowest bidder (AED 387.9 million; US\$106 million) for the main pack. Bel Hasa Six Construct was awarded the contract for the construction of the main package in the month of Feb' 2005. Project duration is 2 years.

The second tender calls for the construction of two new interchanges in Deira, road upgrading and associated works. The works also include the construction of 18 bridges and an underpass. The primary aim of the project is to ease traffic from Dubai Intl' Airport and providing a new entry point for Dubai Festival City. Tender for the construction of the estimated AED 350 million second phase works was issued in Nov' 2004 with the bid submission date on 5th Dec' 2004. Dutco Balfour Beatty (DBB) is the lowest bidder (US\$81.5 million; AED 299 million) for the pack. Project duration will be 20 months. Dutco Balfour Beatty was appointed as the contractor for

the project in the month of Jan' 2005. Mobilization has commenced on the project.

Tender was issued in August 2005 for the third phase and bids were due by 25th September 2005. The contract valued at Dhs.260 million will have 18 months duration. The contract entails the construction of an interchange at Oud Metha on the Bur Dubai side which will connect to Ras Al Khor Crossing. The scope also includes access to the Business Bay Development project. The scope will include 13 bridge structures, underpasses and associated landscaping. The client received 3 bids for the package on 30th October 2005. Bin Hafeez General Contracting & Transport Est. is the lowest bidder at Dhs.507 million followed by Oderbrecht (Brazil) at Dhs.532 million and J&P National Wheel at Dhs.550 million.

The client has invited contractors in Sept' 2005 to bid by 16th October 2005 for the phase 3b. The contract valued at Dhs.400 will have a duration is 15 months. Bids are now due to be submitted on 29th January 2006 for phase 3b. The package will link Doha, Al-Khail and Oud Metha roads and calls for the construction of three new crossings, which are understood to span the new section of the creek that will eventually link up with the sea through Safa Park and two other crossings. Bids were opened on 5th February 2006. National Wheel J&P submitted a low bid at Dhs.449 million. Ductco balfour Beatty quoted Dhs.462 million. Taisei Corporation /Bel Hasa Six Construct submitted a bid of Dhs.479 million. Construtura Norberto Oderbrecht, a subsidiary of Brazil's Oderbrecht offered Dhs.568 million.

Completion of the bridge is expected in 2007.

Remarks : The project will come under the auspices of the newly-created Road Transport Authority.

The second lowest bidder for pack 2 is National Wheel J&P, price quoted being US\$ 96 million (AED 349 million). 4 contractors participated in the project.

The other bidder for pack 1 was J&P (AED 599 million; US\$ 163.2 million).

Prospective bidders for the 2nd phase tender include Bel Hasa Six Construct with Bin Hafeez General Contracting & Transport Establishment, Dutco Balfour Beatty and Wade Adams Contracting.

29. Project Title : PALM JUMEIRAH GATEWAY

Project Value : \$19 (Dhs.70 million)

Client : Nakheel Corp.
Consultant : H2L2/Leonhardt Andra & Partner
Main Contractor : Bel Hasa Six Construct

Project Scope : Project calls for the construction of two five line bridges (North Bridge and South Bridge) leading to the Jumeirah Palm. Each bridge will be 360 metres and 26 metres across. They will be linked with Shaikh Zayed Road and the Soufah Interchange. The bridges will serve vehicles entering and exiting the island.

Schedule : Bel Hasa Six Construct is the contractor for the project, appointed in Dec' 2003. Project is completed in March 2006.

30. Project Title : ROADS AND INTERCHANGE IN AL FALAH AREA

Project Value : US\$15 Mn (Dhs.55 million)

Client : Abu Dhabi Municipality
Consultant : Fredric R. Harris
Main Contractor : Ghantoot Contracting

Project Scope : Project calls for the construction of an overhead crossing in the Al Falah area of Abu Dhabi.

Schedule : Tender for the main contractor issued in Dec' 2003 and the bid submission date was on 12th Jan' 2004. Project has been awarded to Ghantoot Transport and General Construction. Construction started in Sept' 2004. Project duration is 18 months. Project is completed in March 2006.

Remarks : Tender opening results were the following: Ghantoot Transport and General Construction with Chinese Engineering and Civil Const.- AED 53 million; BRICC- AED 58 million; Al Jaber – AED 64 million; Bin Hafeez -66 million; ED Zueblin – AED 67 million; Copri Const.- 69 million; Saif Bin Darwish Co.- AED 70 million; Al Geemi & Partners- AED 75 million; Al Muhairy Gen. Cont. Co.- AED 79 million; China Harbour – 86 million; Emirates Athena – 90 million. Construction Tender no. 116/2003. Contract no. is 974/1/1/B.

31. Project Title : MINA SEYAHİ EXPANSION

Project Value : US\$ 27.2 million (Dhs. 100 million)

Client : Nakheel Corp.

Consultant : Halcrow

Contractor : Van Oord ACZ Overseas

Project Scope : Project calls for the expansion and development of the Mina Seyahi in Dubai. The project will involve reclamation and construction of 2 kms of breakwater. The project is part of the overall plan to develop the entire area.

Schedule : Tender for the contractor was issued in the 4th quarter of 2003 and the original bid submission date was on 4th Jan' 2004, but extended to 18th Jan' 2004. Contract was awarded to Van Oord in the 2nd quarter of 2004. Completion is expected in February 2007.

Remarks : Companies invited for the project are Overseas AST, Bel Hasa Six Construct, Archirodon Construction (Overseas), DBB, Ballast Ham, Van Oord ACZ Overseas and Jan de Nul.

32. Project Title : TUNNEL FOR JUMEIRAH PALM ISLAND

Project Value : US\$109million (Dhs. 400 million)

Client : Nakheel Corporation

Consultant : Parsons De Leuw Cather International

Contractor : Taisei Corporation

Project Scope : Project calls for the construction of an 800 meter sub-sea tunnel that will connect the spine of the Jumeirah Palm Island to its crescent. The proposed tunnel shall have 3 lanes for vehicles and two lanes for pedestrians.

Schedule : Bid submission date for the design and build contractor was originally on 7th Mar' 2004 but extended to 28th Mar' 2004. Bid submission once again extended to 18th April 2004. Taisei Corp. has been awarded the construction contract in the month of Aug' 2004. Project duration was expected to be 18 months. Completion of the project is expected in December 2006.

Remarks : Bidders for the construction contract were Taisei Corp, DBB with CCC, Bel Hasa Six Construct, Archirodon Construction (Overseas) and Bilfinger & Berger.

33. Project Title : **SERVICE TUNNELS FOR JUMEIRAH PALM ISLAND**

Project Value : US\$40 million (Dhs. 147 million)

Client : Nakheel Corporation
Consultant : Parsons De Leuw Cather International
Contractor : Al Naboodah Engineering Services

Project Scope : Project calls for the construction of two subsea service tunnels for the Jumeirah Palm Island. The tunnels will be known as the east and west service tunnels. The tunnels will connect the fronds of the Palm to its crescent.

Schedule : Tender for the main contractor was issued and the bid submission date was on 29th Feb' 2004. Al Naboodah Engineering Services is the contractor for the project, appointed in the month of Aug' 2004. Completion of the project is expected in May 2006.

34. Project Title : **WASIT ROAD INTERCHANGES**

Project Value : Dhs. million

Client :
Consultant : Halcrow International

Project Scope : Project calls for the construction of several interchanges on Wasit Road in Sharjah with the aim of reducing traffic jams and smoothening of traffic flow.

Schedule : Project is still in the study stage.

35. Project Title : **ROAD BETWEEN ARADA & BARIR POLICE STATION**

Project Value : US\$11 Mn (Dhs.40 million)

Client : Dept. of Municipalities & Agriculture-Abu Dhabi
Consultant : Gibb Limited
Main Contractor : Ghantoot Transport & General Contracting

Project Scope : Project calls for the construction of a road between Arada & Barir police station in the western region of Abu Dhabi.

- Schedule** : Tender for the main contractor was issued in Jan' 2004 with bid submission on 22nd Mar' 2004. The initial tender is understood to be cancelled. New tender for the main contractor was issued in Feb' 2005 with bid closing date on 28th March 2005. The project was re-tendered again in June 2005, but only one contractor participated in the bidding process. The project was re-tendered in early-August 2005. Ghantoot Transport & General Contracting was the lowest bidder at Dhs.38.5 million followed by Copri Construction at Dhs.46.275 million. The other bidders were Al Geemi & Partners Contracting Co. at Dhs.64.89 million, Al Jaber Transport & General Cont. Est. at Dhs.78.44 million and Saif Bin Darwish at Dhs.102.5 million. The project was awarded to Ghantoot Transport & General Contracting in November 2005. Construction is set to start in January 2006. Contract duration is 18 months.
- Remarks** : First construction tender no. was 14/2004. Second construction tender no. was 23/2005.

36. Project Title : **DUALLING OF AL AIN, AL WAQAN, AL QUOUH ROAD (Contract 1)**

- Project Value** : US\$27 Mn (Dhs.100 million)
- Client** : Dept. of Municipalities & Agriculture-Abu Dhabi Mun.
- Project Manager** : Parsons International
- Consultant** : Ital Consult
- Main Contractor** : Al Jaber Est.
- Project Scope** : Project calls for the construction of a dual carriageway between Al Ain, Al Waqan and Al Quouh in Abu Dhabi Emirate.
- Schedule** : Tender for the main contractor was issued in Jan' 2004 and the bid submission date was on 22nd Mar' 2004. Al Jaber was appointed as the contractor for the project in Aug' 2004. Project completion is expected in April 2006.
- The client has issued a request for proposals (RFP) in October 2005 for project management services on the project as it has fallen behind schedule. Parsons International is appointed in February 2006 as the project manager for the scheme. See also UIS260, UIS261, and UIS265 for related projects.

Remarks : Tender opening results (prices in AED millions):
Copri construction 110,055,063; Al Jaber 89,661,030;
BRICC 117,250,000; Al Muhairy Gen. Cont. 99,333,000; Al
Fahjan 110,222,859; Hilalco 117,183,000; Saif Bin
Darwish 103,782,243; Al Geemi and Partners
108,265,000.

Construction tender no. 11/2004.

37. Project Title : DUALLING OF AL AIN, AL WAQAN, AL QUOUH ROAD
(Contract 2)

Project Value : US\$40.8 Mn (Dhs.150 million)

Client : Dept. of Municipalities & Agriculture-Abu Dhabi Mun.

Project Manager : Parsons International

Consultant : Ital Consult

Main Contractor : Saif Bin Darwish Co.

Project Scope : Project calls for the construction of a dual carriageway
between Al Ain, Al Waqan and Al Quouh in Abu Dhabi
Emirate.

Schedule : Tender for the main contractor issued and the bid
submission date was on 29th Mar' 2004. Project was
awarded to Saif Bin Darwish Co in the month of Aug' 2004.
Construction on the project commenced in Sept' 2004.
Project completion is expected in July 2006.

The client has issued a request for proposals (RFP) in
October 2005 for project management services on the
project as it has fallen behind schedule. Parsons
International is appointed in February 2006 as the project
manager for the scheme. See also UIS259, UIS261, and
UIS265 for related projects.

Remarks : Tender opening results (prices in AED millions): ADMAK
164,725,000; Al Geemi and Partners 146,920,000; Copri
Construction 147,400,250; Al Muhairy Gen. Cont. Co
145,900,000 BRICC 142,344,000 Saif Bin Darwish
132,950,246 Hilalco 170,140,000; Al Jaber 134,198,250.
Construction Tender no. 18/2004.

38. Project Title	:	<u>DUALLING OF AL AIN, AL WAQAN, AL QUOUH ROAD (Contract 3)</u>
Project Value	:	US Mn (Dhs.155 million)
Client	:	Dept. of Municipalities & Agriculture-Abu Dhabi Mun.
Project Manager	:	Parsons International
Consultant	:	Ital Consult
Main Contractor	:	Al Fahjan
Project Scope	:	Project calls for the construction of a dual carriageway between Al Ain, Al Waqan and Al Quouh in Abu Dhabi Emirate.
Schedule	:	<p>Tender for the main contractor issued in Jan' 2004 and the bid submission date was on 29th Mar' 2004. Al Fahjan is the contractor for the project appointed in Aug' 2004. Completion of the project is expected on 26th Aug' 2006.</p> <p>The client has issued a request for proposals (RFP) in October 2005 for project management services on the project as it has fallen behind schedule. Parsons International is appointed in February 2006 as the project manager for the scheme. See also UIS259, UIS260, and UIS265 for related projects.</p>
Remarks	:	<p>Tender opening results (AED millions): Al Fahjan 152,319,115; BRICC 154,320,000; Al Jaber 158,911,800; Saif Bin Darwish Co. 163,000,000; Al Muhairy Gen. Cont. Co. 164,920,000; Al Geemi & Partners Cont. Co. 167,752,800; Admak 169,357,000; Copri Construction 178,187,950.</p> <p>Construction Tender no. 25/2004.</p>
39. Project Title	:	<u>ROADS AND PARKING IN MUSSAFAH EAST & WEST AREAS</u>
Project Value	:	US Mn (Dhs.45 million)
Client	:	Abu Dhabi Municipality
Consultant	:	Al Torath Consulting Engineers
Project Scope	:	Project calls for the construction of roads and parking in east and west areas of Mussafah in Abu Dhabi

Schedule : Tender for the main contractor was issued in Mar' 2004 and bid submission date was on 19th April 2004. The tender is understood to be cancelled. The project was re-designed due to client's decision to incorporate additional areas to the scope of work. Re-tender for the construction contract was issued on 3rd December 2005. Bids were opened on 3rd January 2006. Ghantoot Transport & General Contracting Est. is the lowest bidder. Contractor is likely to be awarded in April 2006.

Remarks : Initial Tender opening results (in AED):
Al Jaber: 42 million; Copri Construction: 44 million; Al Geemi & Partners: 45 million; Abu Dhabi Transportation: 46 million; Ghantoot Trans & Gen. Cont.: 47 million; Genco: 51 million; Saif Bin Darwish Co.: 54 million; Hilalco: 64 million. Tender no. 17/2004. Contract no. 228.

40. Project Title : **OVERHEAD BRIDGE IN AL BAHIA AREA**

Project Value : US Mn (Dhs.35 million)

Client : Abu Dhabi Municipality

Consultant : Ace International

Main Contractor : Al Jaber Est.

Project Scope : Project calls for the construction of an overhead bridge on the Dubai to Abu Dhabi highway. The overhead bridge will provide access to new constructed residential area in Al Bahia.

Schedule : Tender for the main contractor was issued in Mar' 2004 and bid submission date was on 29th Mar' 2004. Tender extended to 12th April 2004. Al Jaber Est. was appointed as the contractor for the project in May 2004. Construction is underway on the project. Project completion is expected in May 2006.

Remarks : Tender opening results(in AED millions): Al Jaber 32,894,000, BRICC: 33,330,000, Copri Construction: 36,825,825, Saif Bin Darwish: 39,132,168, ADMAK: 41,735,000, Hilalco: 43,220,000, Al Geemi & Partners: 45,740,000, Bin Hafeez: 45,800,000 and Emirates Athena: 53,760,000.

Tender no. 16/2004. Contract No. 3004.

41. Project Title	:	<u>DUALLING OF AL AIN, AL WAQAN, AL QUOUH ROAD (Contract 4)</u>
Project Value	:	US\$43.6 Mn (Dhs.160 million)
Client	:	Dept. of Municipalities & Agriculture-Abu Dhabi Mun.
Project Manager	:	Parsons International
Consultant	:	Ital Consult
Main Contractor	:	Copri Construction
Project Scope	:	Project calls for the construction of a dual carriageway between Al Ain, Al Waqan and Al Quouh in Abu Dhabi Emirate.
Schedule	:	<p>Tender for the main contractor was issued in the 1st quarter of 2004 and the bid submission date was on 19th April 2004. The project was awarded to Copri Construction in the month of Aug' 2004. Project duration is 24 months.</p> <p>The client has issued a request for proposals (RFP) in October 2005 for project management services on the project as it has fallen behind schedule. Parsons International is appointed in February 2006 as the project manager for the scheme. See also UIS259, UIS260, and UIS261 for related projects.</p>
Remarks	:	<p>Tender results (in AED): BRICC: 157 million; Copri Construction: 161 million; Saif Bin Darwish: 164 million; Al Jaber: 165 million; Admak: 173 million; Al Muhairy Gen. Cont. Co.: 174 million; Al Geemi & Partners: 178 million;.</p> <p>Construction Tender no. 31/2004.</p>
42. Project Title	:	<u>BRIDGE TO CONNECT KHALIFA CITY A WITH UMM AL NAR-AL SHAHAMA ROAD</u>
Project Value	:	US\$ Mn (Dhs. million)
Client	:	Dept. of Municipalities & Agriculture-Abu Dhabi Mun.
Project Scope	:	Project calls for the construction of a bridge to connect Khalifa City A with the Umm Al Nar/ Al Shahamah Road.
Schedule	:	Tender for the main contractor was issued in June 2004 and the bid submission date in on 5 th July 2004.

Remarks : Construction Tender No. is 55/2004.

43. Project Title : **ROADS AND PARKING IN VARIOUS AREAS OF ABU DHABI- PHASE 3**

Project Value : US\$21.8 Mn (Dhs.80 million)

Client : Abu Dhabi Municipality

Consultant : Fredric R. Harris

Main Contractor : ADMAK

Project Scope : Project calls for the construction of roads and parking in various different locations in Abu Dhabi

Schedule : Tender for the main contractor was issued in July 2004 and bid submission date was on 16th Aug' 2004. Project was awarded to ADMAK in Oct' 2004. Construction of the project has commenced in February 2005. Project duration is expected to be 24 months. Completion of the project is scheduled for 18th February 2007.

Remarks : Tender results were: Admak AED75,139,000; Abu Dhabi Transport AED 76,373,489; Copri Construction 113,995,000; Hilal Bil Badi & Partners Cont. Co. 131,169,000; Al Jaber 149,270,000; Saif Bin Darwish 160,114,300.
Contract no. is 940/2. Construction Tender no. was 54/2004.

44. Project Title : **ROADS IN DIFFERENT SECTORS OF AUH**

Project Value : US\$ Mn (Dhs. million)

Client : Abu Dhabi Municipality

Project Scope : Project calls for the construction of roads in various sectors of Abu Dhabi. The sectors will be East 19/2, East 25 & East 48.

Schedule : Tender for the main contractor has been issued in July 2004 with the bid submission date being on 6th Sept' 2004.

Remarks : The contract no. is 238. Tender no. is 65/2004.

45. Project Title : **CONSTRUCTION AND MAINTENANCE OF AL BAHIA CORNICHE ROAD**
Project Value : US\$ Mn (Dhs. million)
Client : Abu Dhabi Municipality
Project Scope : Project calls for the construction, accomplishment and maintenance of Al Bahia Corniche road.
Schedule : Tender for the main contractor was issued in the month of Aug' 2004 and the bid submission date was on 13th Sept' 2004.
Remarks : The contract no. is 241. Tender no. is 62/2004.

46. Project Title : **INTERCHANGE 4 ¾**
Project Value : US\$66.7 million (Dhs.245 million)
Client : Dubai Road Transport Authority (DRTA)
Consultant : Parsons De Leuw Cather International
Main Contractor : Wade Adams Contracting
Project Scope : Project calls for the construction of a new interchange between junction 4 and 5 on Sheikh Zayed road, Dubai. The interchange will consist of 2 underpasses and 10 bridge structures. The project will provide access to the Palm Island developments.
Schedule : Wade Adams was appointed as the contractor for the project in Aug' 2004. Construction on the project has commenced in the month of Oct' 2004 and the project duration is 20 months.

47. Project Title : **ABU DHABI – QATAR CAUSEWAY**
Project Value : US\$ (Dhs. million)
Client : Abu Dhabi and Qatar Governments
Project Scope : The proposed bridge will connect Abu Dhabi and Doha and will considerably reduce traveling time between the two capitals. The causeway will eliminate the need for travelers to cut through Saudi territory to reach Qatar.

Schedule : The project was announced on 21st Dec' 2004 at the 25th GCC summit in Manama. A company will be jointly set-up by the respective governments to implement the project.

48. Project Title : **ELEVATED 3 LANE DUAL CARRIAGEWAY IN DUBAI**
Project Value : US\$million (Dhs. million)

Client : Dubai Road Transport Authority (DRTA)

Project Background: The project is Dubai city's most ambitious transport project to date and is aimed at easing the ever worsening traffic congestion in Dubai. The project is also the biggest such project in the Gulf region.

Project Scope : Project calls for the construction of a 7 meter high, 3 lane elevated dual carriageway in Dubai. The elevated road network will be 60 km's in length and will be located directly above Sheikh Zayed road. The elevated tracks providing only minimal entry and exist points will stretch from the Al Maktoum and Al Garhoud bridges up until the Dubai – Abu Dhabi border. The project will provide motorists an express route through the city. Toll will be levied from the users of the proposed new road.

Schedule : The study and design contract duration will be 9 months. Two leading international consultants are short-listed for the project. An award on the fast track project is imminent. Construction duration of the project is expected to be 2 years. The project is currently on hold.

Remarks : The project is expected to cost a billion plus dirhams. Financing options for the project will be proposed by the study consultant. All financing options including BOT model will be considered to help finance the project.

49. Project Title : **INTERCHANGE 5**
Project Value : US\$71 million (Dhs.262 million)

Client : Dubai Road Transport Authority (DRTA)
Consultant : Parsons De Leuw Cather International
Main Contractor : Wade Adams Contracting

Project Scope : Project calls for the reconstruction of an interchange known as Dubai Marina interchange (Interchange No. 5) on Sheikh Zayed road in Dubai. The existing interchange will be demolished and the new one will take its place. The project will see the demolition of the existing entrance to Emirates Hills, to be replaced by a 1,040-metre-long bridge, running from the Hills via the Hard Rock Café and ending near the new Le Meridien Grosvenor House. The project will include 16 bridges, underpasses and ramps. Two of the structures will consist of an eight-lane main dual-carriageway stretching 280 metres in length.

Schedule : Tender for the main contractor was issued in Jan' 2005 and the bid submission date was 13th Feb' 2005. Project duration is expected to be 20 months.

Dutco Balfour Beatty submitted the lowest bid for the construction contract at Dhs.277.7 million. The next lowest bid came from Al Naboodah Contracting with Bin Hafeez General Contracting & Transport Development (Dhs.284 million). National Wheel J&P's bid was at Dhs.334.9 million. The first tender is understood to be cancelled.

Contractors submitted revised bids on 1st May 2005 for the re-tender on the construction contract. Five companies submitted revised prices. Wade Adams Contracting is the lowest bidder at Dhs.262 million. Belhasa Six Contract came in second at Dhs.274 million. Wade Adams was awarded the main construction contract in June 2005.

50. Project Title : **DUBAI BYPASS WIDENING PROJECT**
Project Value : US\$ Mn (Dhs. million)

Client : Dubai Road Transport Authority (DRTA)
Consultant : Al Turath/Wilbur Smith & Associates (USA)
Main Contractor 3 : Al Naboodah Contracting

Project Scope : The project calls for widening of the Dubai Bypass. The project will witness the highway upgraded to a four lane dual carriageway from the Dubai-Sharjah border to the Dubai-Abu Dhabi border by way of Al Ain. The project will be implemented in 4 phases. Phases 1 and 2 (R762/1, Part 1) entails widening of the existing Dubai Bypass 1 & 2. The 3rd phase (R762) is the construction of a 30 kilometer dual lane linking Dubai and Al Ain with Jebel Ali-Lehbab. The fourth phase (R762/1, Part 2) is the construction of a 50 kilometer dual carriageway linking Jebel Ali-Lehbab with Abu Dhabi border.

Schedule : In March 2005, Wilbur Smith (US) was awarded the contract for the study, design, and supervision of the first phase of the project. The company eventually bagged the consultancy contract for the other three phases.

Phases 1 & 2 – Tender for the main contractor is expected to be issued in the 1st quarter of 2006.

Phase 3 - The client invited contractors to bid by 30th October 2005 for the estimated Dhs.294 million construction contract. Bid submission was extended till 13th Nov' 2005. Al Naboodah Contracting submitted the lowest bids at Dhs.251.8 million. National Wheel J&P followed at Dhs.287.4 million. Bin Hafeez' bid was at Dhs.318 million. Contract duration is 18 months. Al Naboodah Contracting is awarded the phase 3 construction contract in February 2006.

Phase 4 – Tender for the main contractor is likely to be issued by mid 2006.

51. Project Title : **BRIDGES ON KING ABDUL AZIZ ROAD (NEAR NATIONAL PAINTS) IN SHARJAH**
Project Value : US\$ 23 Mn (Dhs.85 million)
Client : Sharjah Municipality
Consultant : Halcrow
Main Contractor 1 : Sharjah General Contracting

Project Background: The project is a part of a comprehensive plan to ease traffic congestion on Sharjah roads.

Project Scope : The project calls for the construction of three flyovers and associated works on King Abdul-Aziz road, near National Paints in Sharjah. It also involves the widening of the existing carriageway and extending it by five kilometers. The project which will be carried out in four phases is aimed at connecting Rolla to Emirates Road.

Schedule : Sharjah Municipality has invited contractors to bid by 14th March 2005 for the construction contract. Bids were submitted on 17th of April 2005. Bidders were Darwish Engineering, Sharjah General Contracting, Marwan General Contracting, and National Contracting Company. Phase 1 construction contract was awarded to Sharjah General Contracting in July 2005. Mobilization started in September 2005. Project duration is 24 months.

52. Project Title : AL BARSHA SOUTH ROADS PROJECT

Project Value : US\$52 Mn. (Dhs.190 million)

Client : Dubai Road Transport Authority (DRTA)
Consultant : Africon/Al Burj Engineering Consultants

Project Scope : The project entails construction of more than 30 kilometers of dual carriageway to serve the second phase of the new residential area in Al Barsha, Dubai.

Schedule : Tender for the construction contract was issued in November 2005. Bids were opened on 11th December 2005. Saif Bin Darwish submitted low at Dhs.109.8 million followed by Dutco Balfour Beatty at Dhs.111.8 million, Emirates Road Contracting at Dhs.114.5 million and Wade Adams Contracting (Dhs. 141.4 million). Award of the contract is likely to be made in the 2nd quarter of 2006.

53. Project Title : MIRDIFF INTERCHANGE

Project Value : US\$19 Mn. (Dhs.70 million)

Client : Dubai Road Transport Authority (DRTA)
Consultant : Africon/Al Burj Engineering Consultants

Project Scope : The project entails construction of an interchange at Mirdiff in Dubai.

Schedule : Project is under design. Tender for the main construction contract is expected to be issued in the 2nd quarter of 2006.

54. Project Title : WTC-INTERCHANGE 3 ROAD WIDENING

Project Value : US\$22 million (Dhs.82 million)

Client : Dubai Road Transport Authority (DRTA)
Consultant : Parsons De Leuw Cather International
Main Contractor : Dutco Balfour Beatty

Project Scope : The project calls for widening of the Shaikh Zayed highway in Dubai from the World Trade Center to Interchange 3. The scope involves the addition of a fifth lane on this part of the highway.

Schedule : The tender for the contractor was issued in April 2005. Bids were due on 8th of May 2005. Bid submission date was extended to 29th May 2005. The project was awarded to Dutco Balfour Beatty during late August 2005. The project duration is nine months.

55. Project Title : **INTERCONTINENTAL ROUNDABOUT TO KATM SHAKLAH ROUNDABOUT ROAD DEVELOPMENT**

Project Value : US\$11 Mn. (Dhs.40 million)

Client : Dept. of Municipalities & Agriculture-Al Ain Mun.

Consultant : Stipe Emirates Consulting Engineers/Ideal Design

Main Contractor : Bin Hafeez

Project Scope : The project calls for development of the road from Intercontinental roundabout to Katm Shaklah roundabout in Al Ain.

Schedule : Bin Hafeez was the low bidder at Dhs. 39.8 million when results were opened on 25th April 2005. Bin Hafeez was followed by Al Salmeen General Transporting & Contracting Co. at Dhs.43,767,910 and Nael Bin Harmal Contracting & Irrigation Est. at Dhs.44,977,493/32. Bin Hafeez received a letter of intent in July 2005. Project duration is 15 months. Project started in September 2005.

Remarks : Construction Tender No. was 31/2005.

56. Project Title : **JUMEIRAH BEACH ROAD WIDENING**

Project Value : US\$32.7 million (Dhs.120 million)

Client : Dubai Road Transport Authority (DRTA)

Main Contractor 1&2: Emirates Road Contracting

Main Contractor 3 : Saudi Binladin Group

Project Scope : The project calls for the widening and beautification of Jumeirah Beach road. The project will involve building an additional lane and general landscaping off the road from the Burj Al Arab Hotel to Union Square.

Schedule : Emirates Road Contracting was awarded the construction contracts for phases 1 & 2. Phase 1 is the widening and

beautification of 5.6 km of roads and is estimated at Dhs.60 million. The contract was awarded on 28th March 2005 and contract duration is 300 days. Phase 2 is the widening and beautification of ½ km of road and estimated at Dhs.8 million. The contract was awarded on 12th April 2005 and the contract duration is 8 months. Phase 3 is the widening and beautification of 4.5 km of roads which is estimated at Dhs.52 million. Contract was awarded on 31st of March 2005 and duration is 270 days. Completion for the 3 phases is expected in April 2006.

57. Project Title : **WIDENING OF EMIRATES ROAD IN AL AWEER**
Project Value : US\$16 million (Dhs.60 million)

Client : Dubai Road Transport Authority (DRTA)
Consultant : Italconsult
Main Contractor : Ascon

Project Scope : The project calls for widening of Emirates Road in the Al Aweer District. The scope entails extending 12 kilometers of road into four lanes from two lanes. The contract also involves associated works and landscaping.

Schedule : Contractors were invited to submit bids by 19th June 2005. The contract duration is 14 months. Ascon was awarded the project on 20th August 2005.

Remarks : The other bidders for the construction contract were Dutco Balfour Beatty and Wade Adams.

58. Project Title : **ROADS & CAR PARKING IN SAS AL NAKEL (233)**
Project Value : US\$12.5 million (Dhs.45 Million)

Client : Dept. of Municipalities & Agriculture-Abu Dhabi
Consultant : Parsons De Leuw Cather International

Project Scope : The project calls for the construction of roads and car parking facilities in Sas Al Nakel, Al Ain.

Schedule : Tender for the contractor was issued on 11th of May 2005. Bid submission was on the 6th of June 2005. Al Jaber Transport bid low at Dhs.45,910 million, followed by Abu Dhabi General Transport Co. at Dhs.46,228,793. Other

bidders were Copri Construction, Al Muhairy General Contracting Co., Saif Bin Darwish, Al Geemi & Partners, and Ghantoot Transport & Gen. Contracting. A contractor is expected to be awarded in the 2nd quarter of 2006.

Remarks : Contract No. 233. Construction Tender No.33/2005.

59. Project Title : **SEWERAGE & INTERNAL ROADS IN NEW SAROJ**

Project Value : US\$ million (Dhs. Million)

Client : Dept. of Municipalities & Agriculture-Al Ain Mun.

Project Scope : The project calls for the construction of sewerage and internal roads in New Saroj Area in Al Ain.

Schedule : Tender for the contractor was issued on 21st of June 2005. Bid submission was on the 17th of August 2005. Al Jaber Est. is the lowest bidder for the tender. The contract is not yet awarded to any contractor.

Remarks : Construction Tender No. 3/2005.

60. Project Title : **INFRASTRUCTURE WORKS AT DUBAI KNOWLEDGE VILLAGE**

Project Value : US\$30 million (Dhs.110 Million)

Client : Dubai Technology, e-Commerce & Free Zone Authority (Tecom)

Consultant : Halcrow

Project Scope : The works include earthworks and grading, internal roadworks, telecommunications infrastructure and potable water, sanitary and drainage systems for the new 130-hectare Knowledge Village Campus located near Academic City on the Dubai-Al Ain road.

Schedule : Construction bids are under evaluation and an award was expected in November 2005. The project is not yet awarded to any contractor.

Remarks : Bidders for the main construction contract are Bin Hafeez General Contracting & Transport Establishment, Wade Adams Contracting and National Wheel J&P.

61. Project Title : **JEBEL ALI – LEHBAB ROAD UPGRADE**
Project Value : US\$40 million (Dhs.147 million)

Client : Dubai Road Transport Authority (DRTA)
Consultant : Cansult
Main Contractor 1 : Bin Hafeez
Main Contractor 2 : Saif Bin Darwish

Project Scope : The Jebel Ali – Lehabab highway upgrade project will be implemented in 2 phases comprising the widening to four lanes of 34km of road. The scope will also include addition of 5km to the existing highway.

Schedule : Tender for the main contractor was issued in June 2005 with bid submission date on 31st July 2005. Bids were opened on 15th of August 2005. Bin Hafeez was the lowest bidder for the first phase priced at Dhs.94 million. Saif Bin Darwish was the lowest bidder for the second phase priced at Dhs.124 million. The contracts were both awarded to the contractors on 26th November 2005. Contract duration is 12 months.

62. Project Title : **THE VILLA PROJECT – INFRASTRUCTURE PACKAGE**
Project Value : US\$30 million(Dhs.110 million)

Client : Dubai Properties
Project Manager : Mace International
Consultant : Maunsell Consultancy Services
Main Contractor : Wade Adams Contracting

Project Background: Kuwait's Al-Mazaya Holding Company for Real Estate Development is investing about Dhs.1,200 million (\$324 million) to develop 700 plots. Located along Emirates road, near the Global Village complex, the entire project will cover an area of about 2.7 million square metres. The project is divided into Spanish-themed districts including the Haciendas villas, the ranch-style Ponderosa, the courtyard Aldea area and the heart of the development, the Centro.

- Project Scope** : The contract involves construction of internal roads, telecommunications infrastructure and potable water, sanitary and drainage systems.
- Schedule** : Contractors were invited to bid by 31st July 2005 for the main infrastructure contract. Wade Adams is awarded the construction contract in March 2006. Infrastructure works are likely to commence in April 2006.
- Remarks** : The bidders for the construction contract included local Bin Hafeez General Contracting & Transport Establishment and Wade Adams Contracting and the local/Cypriot National Wheel J&P. Wade Adams was earlier appointed for the earthworks package also on the project.

63. Project Title : **7 PEDESTRIAN BRIDGES PROJECT IN DUBAI**

Project Value : US\$5.72 million (Dhs.21 million)

- Client** : Dubai Road Transport Authority (DRTA)
- Consultant** : Overseas Ast
- Main Contractor** : Overseas Ast

Project Scope : The project consists of constructing 7 pedestrian bridges in different parts of the city to enhance road safety for motorists and pedestrians. The bridges are to be located in Abu Hail Street (close to the Grand Mosque), Al Nahda Street (Near Union Cooperative Society), Abu Baker Al Siddique Street (near Al Gaz Mosque), Al Maktoum Street (close to Al Khaleej Palace Hotel), Airport Road (near Cargo Village underpass), Casablanca Street (near Dubai Tennis Stadium) and Baniyas Road (near Sheraton Hotel). All the bridges will have stairs and elevators.

Schedule : Tender for the design and build contract was issued in the 2nd quarter of 2005. Design and build contract was awarded to Overseas Ast in August 2005. Project completion is expected in August 2006.

64. Project Title : **AL KHAWANEEJ AREA ROAD PROJECT**

Project Value : US\$8.4 million (Dhs.30 million)

- Client** : Dubai Road Transport Authority (DRTA)
- Consultant** : Cansult

Main Contractor : Port Saeed Transport & Bldg. Contracting Co.

Project Scope : The project involves construction of Al Khawaneej area road in Dubai. The scope of work entails the leveling of sandy areas, service roads, street lights, road signage and landscaping.

Schedule : Tender for the main contractor was issued in the 2nd quarter of 2005. Port Saeed Transport & Building Contracting was awarded the construction contract on 15th August 2005. Construction is set to complete on 9th August 2006.

65. Project Title : **INTERNAL ROADS FOR LOW COST HOUSES IN LIWA**

Project Value : US\$11.2 million (Dhs.41 million)

Client : Dept. of Municipalities & Agriculture-Abu Dhabi

Consultant : Gibb Limited

Main Contractor : Ghantoot Transport & General Contracting

Project Scope : The project involves construction of internal roads for the low cost houses in Liwa.

Schedule : Tender documents for the construction contract were released in July 2005. Bids were opened in August 2005 with tender results as follows: Ghantoot Transport & General Contracting at Dhs.40 million, Copri Construction Enterprises Est. at Dhs.42.7 million, Nael & Bin Harmal Contracting & Irrigation Est. at Dhs.44.9 million, Al Jaber Transport & General Contracting Est. at Dhs.48.5 mn and Al Geemi & Partners Contracting Co. at Dhs.62.7 million. The project is awarded to Ghantoot Transport & General Contracting in November 2005. Construction to start in January 2006. Project duration is 18 months.

Remarks : Construction Tender No. was 87/2005.

66. Project Title : **AL ITTIHAD ROAD IMPROVEMENT SCHEME**

Project Value : US\$191 million (Dhs.700 million)

Client : Dubai Road Transport Authority (DRTA)

Consultant : Cansult

Project Scope : The project calls for the improvement of Al Ittihad Road in Dubai. The scope of work involves the conversion of Al Nahda Roundabout into an intersection; Al Qiyada tunnel will be widened into four lanes; ramps will be installed linking Al Quds Road to Al Ittihad Road; and a new tunnel for Dubai-bound traffic at the Airport Road Interchange, together with a direct ramp from Al Ittihad Road to Dubai Airport.

The improvements will also include widening tunnels and the upgrade of junctions between Al-Mamzar junction, Galadari intersection, and City Centre in the Port Saeed area.

Schedule : Tender documents are expected to be released in the 2nd quarter of 2006 for the main construction contract.

67. Project Title : **RAK AIRPORT TO SEAPORT ROAD UPGRADE (AL KHUSAIDAT-AL NAKHEEL-SHAMS ROAD)**

Project Value : US\$27 million (Dhs.100 million)

Client : Ministry of Public Works and Housing

Consultant : Halcrow

Project Scope : The project calls for the improvement of road between Ras al Khaimah Airport and Seaport. The scope of work entails the upgrade of 23 kilometers of highway, 4 interchanges and landscaping works.

Schedule : The client invited contractors to submit bids by 24th October 2005 for the main construction contract. Contract duration is 18 months. Award of the contract is still awaited.

Remarks : Al-Nuaimi Group (Road Dept.) submitted the lowest bid at Dhs.98 million for the main construction contract followed by Emirates Road Contracting at Dhs.154 million.

68. Project Title : **DEVELOPMENT OF ROADS IN AL AIN**

Project Value : US\$4 million (Dhs.15 million)

Client : Dept. of Municipalities & Agriculture-Al Ain Mun.

Project Scope : The project calls for the development of roads in Al Ain.

Schedule : The client issued the tender for the main construction contract on 11th October 2005. Submission of bids was on 31st October 2005.

Nael & Bin Harmal Contracting & Irrigation Est. is the lowest bidder at Dhs.14,965 million. Al Salmeen General Transporting & Contracting Co. followed at Dhs.17,430 million.

Remarks : Construction Tender No.95/2005.

69. Project Title : DESIGN & ACCOMPLISHMENT OF ROADS (GRP 1)

Project Value : US\$ million (Dhs. million)

Client : Ministry of Public Works & Housing

Consultant : Concer Consulting

Main Contractor : Saif Bin Darwish Engineering

Project Scope : The project calls for the design and accomplishment of roads in Thdna, Al Taween, Al Khlibiah, and Ezan areas.

Schedule : The client issued the tender for the main construction contract on 27th September 2005. Submission of bids was on 15th November 2005. Saif Bin Darwish is awarded the main construction contract in January 2006. Contract duration is 24 months.

Remarks : Construction Tender No.T/106/2005.

70. Project Title : DESIGN & ACCOMPLISHMENT OF ROADS (GRP 2)

Project Value : US\$ million (Dhs. million)

Client : Ministry of Public Works & Housing

Consultant : Concer Consulting

Main Contractor : Darwish Engineering Emirates

Project Scope : The project calls for the design and accomplishment of roads in Al Madam, Kedra, and Al Mneai areas.

Schedule : The client issued the tender on 1st October 2005 for the main construction contract. Submission of bids was on 22nd November 2005. Darwish Engineering Emirates bagged the contract in January 2006. Contract duration is 24 months.

Remarks : Construction Tender No.T/107/2005.

71. Project Title : IMPROVEMENT OF 4 JUNCTIONS IN DEIRA

Project Value : US\$20 million (Dhs.75 million)

Client : Dubai Road Transport Authority (DRTA)

Consultant	:	Italconsult
Main Contractor	:	Emirates Road Contracting
Project Scope	:	The project calls for the improvement of the 4 junctions in Deira.
Schedule	:	The client received bids from two contractors in October 2005. Emirates Road Contracting (ERC) has submitted low at Dhs.75 million. Dutco Balfour Beatty's bid was at Dhs.118 million. Contract duration is 15 months. ERC has been appointed as the main contractor in March 2006.
72. Project Title	:	<u>BRIDGE LINKING WELLNESS VILLAGE AND SEVEN PEARLS PROJECT</u>
Project Value	:	US\$ million (Dhs. million)
Client	:	Dubai Properties
Project Scope	:	The project calls for the construction of a bridge linking the Wellness Village project and Seven Pearls project in Dubai.
Schedule	:	Project is in its early stages.
73. Project Title	:	<u>INTERNAL ROADS IN ABU DHABI, PHASE 15</u>
Project Value	:	US\$23 million (Dhs.85 million)
Client	:	Dept. of Municipalities & Agriculture-Abu Dhabi
Consultant	:	Gibb Limited
Project Scope	:	The project involves construction of internal roads in Abu Dhabi, Phase 15.
Schedule	:	Tender documents were released in October 2005 for the main construction contract. Tender results are as follow: Al Fahjan Transport & General Contracting Co is the lowest bidder at Dhs.84.201 million. Saif Bin Darwish followed at Dhs.122.495 million. Al Jaber Transport & General Contracting Est. bid is at Dhs.132.184 million. Contract is likely to be awarded in March 2006.
Remarks	:	Construction Tender No. is 91/2005.
74. Project Title	:	<u>TRUCK TUNNEL AT DIFC</u>
Project Value	:	US\$105 million (Dhs.387 million)
Client	:	Dubai Properties
Consultant	:	Maunsell Consultancy Services
Main Contractor	:	Arabtec

Project Scope	:	The project involves construction of a truck tunnel at the Dubai International Financial Center. The 1.2km long, 38-meter wide cut and cover tunnel will run at lower basement level from Murooj complex between 2 rows of towers that make up the DIFC district to the Gate building next to the Emirates Towers. The tunnel will serve as a convenient route for service vehicles within the DIFC zone.
Schedule	:	Contractor was awarded the contract in November 2005. Project is due to mobilize by end of November 2005. Contract period is 20 months.
Remarks	:	Under the terms of the contract, Arabtec will also undertake the maintenance of the tunnel once the project is completed. Peremba was also a bidder for the project.

75. Project Title : ROADS IN NORTHERN EMIRATES

Project Value : US\$27 million (Dhs.100 million)

Client : Ministry of Public Works & Housing

Consultant : Concer Consulting

Main Contractor : Darwish Engineering Emirates

Project Scope : The project involves construction of roads in 32 locations in the northern emirates of Sharjah and Ras al-Khaimah.

Schedule : Darwish Engineering Emirates was appointed as the main contractor for the project in Dec' 2005. The contract period is 700 days.

76. Project Title : JEBEL ALI CONTAINER TERMINAL – INFRASTRUCTURE PACKAGE

Project Value : US\$68 million (Dhs.250 million)

Client : Dubai Ports Customs & Free Zone Corp. (DPCFZC)

Project Manager : Parsons International

Consultant : Scott Wilson (UK)

Project Scope : The project is part of the Jebel Ali container terminal expansion scheme. The stage 1 upland facilities package calls for the installation of 1.4 million square metres of concrete block paving, 44,000 square metres of asphalt pavement, 25,000 metres of crane rails, 2,500 tonnes of structural steelwork, 7,500 concrete piles and high and low-voltage electrical works.

Schedule : Two contractors submitted bids by 14th January 2006 for the infrastructure package. The bidders are Dutco Balfour

Beatty and Hyundai Engineering & Construction Co. Award is awaited.

Remarks : Prospective bidders for the main construction contract included: the local/UK Al-Futtaim Carillion; the local/UK Dutco Balfour Beatty; and South Korea's Hyundai Engineering & Construction Company.

77. Project Title : **SHEIKH RASHID BIN HUMAID AL NUAIMI ROAD IN AJMAN**

Project Value : US\$ million (Dhs. million)

Client : Ajman Government

Project Scope : The project calls for the construction and development of roads in Ajman.

Schedule : The tender for the main contractor was released on 8th January 2006. Submission is due on 29th January 2006.

Remarks : Tender No.CPD/1092/06.

78. Project Title : **NEW JUNCTION ON SHEIKH ZAYED HIGHWAY**

Project Value : US\$ million (Dhs. million)

Client : Dubai Road Transport Authority (DRTA)

Consultant : Parsons De Leuw Cather International

Project Scope : The project calls for the construction of a new junction on Sheikh Zayed Highway. The junction will be located between interchange 5 and the Gardens/Ibn Batuta mall flyover. The junction will have at least 10 bridge structures, five of which will cross the highway.

Schedule : The tender for the construction contract is released in January 2006. Submission is due on 12th February 2006. Project duration is 24 months.

79. Project Title : **AL SOFOUH DISTRICT ROAD IMPROVEMENT-PACKS 1 & 2**

Project Value : US\$57 million (Dhs.208 million)

Client : Dubai Road Transport Authority (DRTA)

Consultant : MVA Systra

Project Scope : The project calls for the construction of a 600-meter long, 15 to 16 meter high bridge that will cross Shaikh Zayed

Highway close the Police Academy and an underpass beneath the Dubai College road.

Schedule : The tender for the main contractor was released in January 2006. Bid submission was due on 28th January 2006. Project duration is 19 months. Wade Adams is the lowest bidder at Dhs.208 million. National Wheel J & P is the other bidder at Dhs.211 million.

80. Project Title : **AL SOFOUH DISTRICT ROAD IMPROVEMENT-PACKS 4 & 5**

Project Value : US\$ million (Dhs. million)

Client : Dubai Road Transport Authority (DRTA)
Consultant : MVA Systra

Project Scope : The project calls for the construction of a new interchange and road improvement works in Al Sofouh district.

Schedule : The tender for the main contractor was released in January 2006. Bid submission was due on 12th February 2006. Project duration is 18 months. Bid submission is extended to 26th February 2006.

81. Project Title : **ROADS IN KHALIFA CITY A (CONTRACT NO.972)**

Project Value : US\$35 million (Dhs.130 million)

Client : Dept. of Municipalities & Agriculture-Abu Dhabi
Consultant : Fredric R. Harris

Project Scope : The project calls for the construction, accomplishment and maintenance of road works in Khalifa City A.

Schedule : The tender for the main contractor was released in December 2005. Bids were opened on 16th January 2006. Tender results are as follows: Ghantoot Transportation & General Contracting is the lowest bidder at Dhs.125.8 million followed by Al Jaber Transport & General Contracting at Dhs.133.5 million, Abu Dhabi General Transport Co. at Dhs.135.8 million, Admak General Contracting at Dhs.143.75 million, Copri Construction Enterprises Est. at Dhs.162.06 million, Al Geemi & Partners Contracting Co. at Dhs.167.67 million and Zakoob Gulf Contracting at Dhs.191.81 million.

Remarks : Construction Tender No.148/2005

82. Project Title : **FIFTH CROSSING IN DUBAI**
Project Value : US\$ million (Dhs. million)

Client : Dubai Road Transport Authority (DRTA)
Project Scope : The project calls for the construction of a new crossing between Shindagha tunnel and Maktoum Bridge in Dubai. The crossing will be located near the Dubai Sheraton Hotel.
Schedule : Design competition is in progress. A consultant is likely to be appointed in the 2nd quarter of 2006.

83. Project Title : **ROADS IN EASTERN & WESTERN MUSSAFAH**
(Contract No. 228)

Project Value : US\$16 million (Dhs.60 million)

Client : Dept. of Municipalities & Agriculture-Abu Dhabi
Project Scope : The project calls for the construction of roads in Eastern and Western Mussafah.
Schedule : Bids were opened on 23rd January 2006. Ghantoot Transportation & General Construction is the lowest bidder at Dhs.55.6 million followed by Copri Construction Enterprises Est. at Dhs.59.56 million, Admak General Contracting Co. at Dhs.67.38 million, Nael & Bin Harmal Contracting & Irrigation Est. at Dhs.67.4 million, Al Jaber Transport & General Contracting Est. at Dhs.80.97 million and Gulf Zakoob Contracting at Dhs.94.65 million.
Remarks : Construction Tender No.152/2005

84. Project Title : **IMPROVEMENT OF AL QUDRA ROAD**

Project Value : US\$17 million (Dhs.65 million)

Client : Tatweer (Dubai Holding)
Consultant : Parsons De Leuw Cather
Project Scope : The project calls for the improvement of Al Qudra road running from Bab Al Shams resort to the Arabian Ranches roundabout.
Schedule : Bids were opened in early-March 2006. Wade Adams is the lowest bidder at Dhs.65 million. Khansaheb Civil Engineering submitted a bid of Dhs.82 million. Bin Hafeez

General Contracting & Transport submitted at Dhs.84 million. Dutco Balfour Beatty's bid was at Dhs.89 million.

85. Project Title : EMIRATES ROAD IMPROVEMENT

Project Value : US\$62 million (Dhs.228 million)

Client : Dubai Road Transport Authority

Consultant : Parsons De Leuw Cather

Project Scope : The project calls for the widening and improvement of Emirates Road between Sharjah and the Arabian Ranches roundabout. The 35-km scheme will involve the widening the road from 3 to 5 lanes in each direction and the improvement of approach roads.

Schedule : Dutco Balfour Beatty is the sole bidder of the project at Dhs.228 million.

86. Project Title : 2 PARALLEL HIGHWAYS TO SHEIKH ZAYED ROAD

Project Value : US\$ million (Dhs. million)

Client : Dubai Road Transport Authority

Consultant : Parsons De Leuw Cather

Project Scope : The project calls for the construction of 2 new highways which will run parallel to Sheikh Zayed Highway between Zaabel area and Jebel Ali.

Schedule : The project is under design. The scheme will be split into several packages. Tenders for main contractors are expected to be released in 2006.

87. Project Title : 8th INTERCHANGE FOR SHEIKH ZAYED ROAD

Project Value : US\$ million (Dhs. million)

Client : Dubai Road Transport Authority

Consultant : Cansult

Project Scope : The project calls for the construction of an 8th interchange for Sheikh Zayed road. The free-flowing junction will be located to the current turn of for Jebel Ali Free Zone gate 8 and the Jebel Ali Hotel.

Schedule : The project is currently under design.

88. Project Title	:	<u>BRIDGE CONNECTING REEM ISLAND & ABU DHABI</u>
Project Value	:	US\$ million (Dhs. million)
Client	:	Private Department of Shk. Zayed Bin Sultan Al Nahyan
Consultant	:	The Consultant Engineering & Project Management Co.
Main Contractor	:	Nurol Group
Project Scope	:	Project calls for the development of a 600-meter, 8 lane bridge that will connect Al Reem Island with main land Abu Dhabi.
Schedule	:	Contractor was appointed in December 2004 Project duration will be 14 months. Completion is expected in June 2006.
89. Project Title	:	<u>SHARJAH-FUJAIRAH ROAD</u>
Project Value	:	US\$245 million (Dhs.900 million)
Client	:	Ministry of Public Works & Housing (MOPW)
Project Scope	:	The project calls for the construction of a 70km road from Sharjah to Fujairah.
Schedule	:	The tender for the main contractor is expected to be issued in March 2006.

5.2 APPENDIX B: MAJOR UAE AIRPORT PROJECTS

1. Project Title	:	<u>ABU DHABI AIRPORT EXPANSION</u>
Project Value	:	US\$6.8 billion (Dhs.25 billion)
Client	:	SCADIA (Supervision Committee For Expansion of Abu Dhabi Airport)
Project Manager	:	Parsons International
Consultant Design	:	Masterplan- Skidmore Owings & Merrill (SOM)
		Package 1 -Satellite Building & ground handling.
		Package 2- Design of the second runway – Halcrow Int'l
Main Contractor 1	:	Six Construct (Aircraft Stands)
Main Contractor 2	:	Al Jaber Energy Services
Main Contractor 3	:	Saif Bin Darwish (Rough Grading)

Project Scope : The new development plans were unveiled for the Abu Dhabi International Airport during the 1st week of May 2005. The new scope includes a new 4.1km runway, a large terminal building, a cargo and logistics centre, a commercial area incorporating a free zone and associated facilities. The development is planned in two phases with the first phase, having a capacity to handle 20 million passengers per annum, being scheduled for completion in 2010.

Schedule : Masterplan
Skidmore Owings & Merrill (SOM) was appointed as the new masterplan consultant for the project during late Nov' 2004. SOM completed the master plan in the 1st quarter of 2005.

US' Parsons International was appointed as the Project Manager in Aug '99.

A re-tender has been issued for the post of project manager. Selected companies were invited to submit proposals by 11th Sept' 2004. Revised bids were submitted in the last week of Nov' 2004. Parsons International is the PMC for the expansion program.

9 Aircraft Stands

Tender for the construction of 9 aircraft stands contract has been issued with the bid submission date on 19th Feb' 2005. The contract is valued at approx. between US\$20-30 million. The bidders for the contract: CCC, Grinaker LTA, J&P, Murray & Roberts Contractors (Middle East) and Six Construct.

The contract for the construction of 9 aircraft stands, taxiway modifications, drainage and airfield lighting is awarded to Six Construct in March 2005. Completion is expected in September 2006. Consultant for the package is Halcrow.

Terminal Extension

Al Jaber Energy Services bagged the terminal extension package contract in March 2005. The contract is worth about Dhs.90 million. The project involves the refurbishment of gate 3 on terminal 1A, the refurbishment of terminal 2, extension of an existing warehouse, car

parks, and external services. Consultant for the package is GHD. Project is completed in August 2005.

Scadia invited 10 consultants to develop the designs for the new terminal. The consultants are ADPi (France) SOM, HOK, Gensler, KPF, Fentress Bradburn Architects (all from US), GHD (Australia), Kisho Kurokawa (Japan), Brechbul Ove Arup (Switzerland), and Pascal Watson (UK). The short listed companies will enter into a competition which the government will choose the best design for construction. Scadia short-listed 4 companies for the design competition on the midfield passenger terminal: HOK, SOM, KPF, and Fentress Bradburn & Associates/GHD. Request for Proposals (RFP) was issued during late June 2005 with the design proposals due on 8th October 2005. Proposals from the 4 companies were received in October 2005. The contract calls for the construction of about 400,000 square meters of built-up space and will include about 50 contact gates. The terminal which will be tendered for construction in several packages is expected to release its first tender in early-2007. The evaluation is narrowed to 2 design consultants. Scadia is currently negotiating with HOK and Kohn Pederson Fox Associates (KPH) both from US.

Scadia also short-listed 6 international consultants for the 120-meter high control tower design competition. They are Aeroports de Paris, Kisho Kurokawa Architect & Associates, Itten-Brechbulh, Fentress Bradburn/GHD, KPF/Arup, and SOM. An award is awaited. Proposals from 4 companies are under evaluation.

Scadia issued an invitation for contractors to submit expressions of interest by 31st of May 2005 for package NRTW-1008-CN. The package includes the construction or the installation of the following: a) New Code F4, 100m runway with instrument landing system (b) associated taxiways, blast pads, roads and fencing (c) connections to the existing runway and airport systems (d) airfield drainage system (e) electrical distribution for main and other utilities (f) civil works for airfield lighting (g) CAT IIIB Instrument Land Systems, DVOR and other Navigational Aids. Pre-qualification documents were received in June 2005.

Saif Bin Darwish was awarded the rough grading package in July 2005 which entails site preparation and landfill. The contract duration is 6 months. Halcrow is the consultant.

In July 2005, Scadia has invited specialised companies to submit pre-qualifications by 31st July 2005 for the airfield lighting and runway control system package (NRTW-1009-CN) to serve the expansion scheme. The scopes of works include the supply and installation of in-pavement lighting fixtures for the new runway and taxiway, signage systems and related facilities.

Scadia issued a pre-qualification tender on 18th August 2005 for the temporary Etihad Passenger Terminal. The contract involves the fast-track design and build of the terminal which is expected to be operational by the third quarter of 2006. Pre-qualifications are to be submitted not later than 22nd August 2005. The scope includes a 55,000 sq. meters terminal which will be connected to the existing main terminal structure, 6 nine contact gates, baggage handling areas and office and maintenance areas. It also entails the supply and installation of passenger loading bridges and fixed bridge sections, all MEP works and all civil infrastructure works. Tender No. for the project is 866 and Bid Package ETIT-1006-CN. Pascal & Watson (UK) is the design consultant on the package. Scadia short listed 7 groups for the contract. The client issued the tender for the main contractor in March 2006 with bid submission on 22nd April 2006.

Scadia issued a pre-qualification invitation on 21st September 2005 for the Materials Sample Testing contractor. The scope of work entails the establishment of a dedicated laboratory on site to verify contractors testing on the various construction packages on the project.

The client issued a pre-qualification invitation on 4th of October 2005 for the 3rd party Inspection of Manufacture and Construction Works. Tender No. is PMPM-1024-TI.

Scadia issued the first major construction tender on the project in November 2005. The package calls for the construction of a 4.1km runway with associated facilities, substations, and a tunnel. 7 companies were invited to submit bids by late-December 2005. The contract is estimated at Dhs.734 million. Bid submission was extended to 21st January 2006. 6 companies submitted bids for the contract. Strabag is the lowest bidder at

Dhs.987 million. Its offer is about 8.4% lower than the next cheapest bid of Dhs.1,070 million submitted by the joint venture of Six Construct and Haji Hassan, and 34% lower than the highest bid of Dhs.1,332 million submitted by Al Naboodah Contracting. The other bidders are Al Jaber Group/Oderbrecht, Saif Bin Darwish/Joannou & Paraskevaides, and Taisei Corp./Arabian Construction Co. Bids are still being evaluated.

Remarks : The invited bidders for the post of PMC on the re-tender are believed to be Turner Intl', Parsons Intl', Bechtel and Bovis Lend Lease.

2. Project Title : **AIRPORT CITY IN JEBEL ALI**

Project Value : US\$10 billion (Dhs.36.7 billion)

Client : Department of Civil Aviation

Project Managers : Dar Al Handasah (Shair & Partners)/ Aeroports de Paris (AdP)

Consultant (Feasibility, masterplan): Dar Al Handasah (Shair & Partners)/ Aeroports de Paris (AdP)

Main Contractor 1 : Al Naboodah Contracting

Project Scope : Project involves the construction of a new airport and associated city to be located south of Jebel Ali village, near to the Dubai Investments Park. The project along with the 3rd terminal expansion project (Ref:UUD131) is being developed with the aim of handling up-to 60 million passengers annually by 2010.

In its first phase of development, the new airport is expected to cater to cargo, logistics and charter flights. The first phase development is expected to cost AED 800-1,000 million and will consist of the development of a cargo terminal, runway and general air handling facilities. The capacity of cargo operations will range between 250,000 and 300,000 tonnes in the first phase. The airport will handle all the cargo of airlines other than Emirates Airlines. This volume is expected to increase when the airport goes in for further future expansion. The airport will be able to accommodate up-to 6 runways although, only 3 are currently planned. The project scope has been increased to encompass an integrated airport city that will comprise of residential, entertainment and leisure projects including golf courses and gardens. The mixed use buildings planned in the development will range in height from 50 to 300 meters.

In the 2nd phase the airport will cater to low cost non-charter passenger airlines. Further phases will subsequently follow.

Within the Airport City, the areas earmarked include Commercial City, Residential City, Science & Technology Park, Golf Resort, Aviation City, Dubai Exhibitions City, Dubai Logistic City, and Jebel Ali International Airport.

Schedule : According to the original schedule the project was slated for development only between 2015 and 2020 and was second priority to the third terminal expansion project (UUD131).

In July 2004 Dar Al Handasah (Shair & Partners) and Aeroports de Paris (AdP) has been appointed as the project management consultants (PMC) for the project. The PMC's will be responsible for drawing up a detailed feasibility study and masterplan for the project. The masterplan is to develop the city within the next 20 years.

Tender for the ground leveling and preparatory earthworks (US\$ 34 million; AED 125 million) was issued in Dec' 2004 and the bid submission date was on 25th Jan' 2005. The leveling and preparatory works are expected to last for 10 months and will involve the excavation and disposal of about 20 million cubic meters of rock covering 140sq.km.

Cargo handling activities are expected to commence in late 2006.

In March 2005, Trident Transport was awarded the 12-month contract for ground leveling and preparatory earthworks at the Jebel Ali International Airport, Dubai Logistics City and Jebel Ali Airport City. The contract calls for the removal and disposal of 21 million cubic meters of rock. 10 companies submitted bids for the estimated US\$30 million contract. Completion is in February 2006.

At least 7 companies were invited to submit bids by 13th December 2005 for the construction of the first runway tender for the Jebel Ali Int'l Airport and Dubai Logistic City. Bids were submitted on 27th Dec' 2005 for the 4.5km runway. The bidders include: Al-Naboodah Contracting; National Wheel J&P; Dutco Balfour Beatty (DBB) and Saudi Binladin Group. Completion expected in November 2007. Al Naboodah Contracting is awarded the first runway contract of the project in February 2006. Two more packages were expected to be issued by December 2005. One is the JXB-INF/003 which covers the construction of

two 4.5 km taxiways. The other is JXB-IF/006 will cover the construction of a heliport and a tunnel underneath the runway. The runway contract is the first phase of the 140-km Jebel Ali Airport City. The first phase also concentrates on the construction of Dubai Logistics City which is expected to complete by end of 2007.

The new Jebel Ali International Airport will be linked to Jebel Ali Port via underground tunnel. The 10-kilometer tunnel will transport cargo from port to airport using some form of conveyor built.

Remarks : The companies invited to bid for the ground leveling and preparatory works included Al Shafar Transport & Contracting, Al Sahel Contracting, Wade Adams, Al Naboodah Contracting and Bin Hafeez Gen. Contracting & Transport Establishment.

Dubai Airshow will be transferred to the new Jebel Ali Airport complex in 2009.

In February 2006, the emirate of Dubai launched a landmark initiative to tap a Dh3.67 trillion (\$1 trillion) global aviation industry and to transfer international aviation and aeronautics technology to the region. Dubai Aerospace Enterprise (DAE), a global aerospace manufacturing and services corporation with an investment of Dh55 billion (\$15 billion) to be spent in the next five years will be established in the emirate. The initiative, to be based in the 140-square-kilometre Jebel Ali Airport City (JAAC), will create the world's largest aviation hub and prepare Dubai to participate in major aircraft manufacturing programmes in future, most likely the Airbus A350 programme.

3. Project Title : **THIRD TERMINAL AT DUBAI INT'L AIRPORT**

Project Value : US\$4000 Mn (Dhs.14,680 million)

Client : Department of Civil Aviation

Consultant : Aeroport de Paris (France) / Dar al-Handasah

Main Contractor 1 : Al Naboodah Contracting (Pack AX 056)

Main Contractor 2 : Al Naboodah Contracting (Pack AX 011A)

Main Contractor 3 : Al Naboodah Laing O' Rourke(Pack AX058)

MEP : Transgulf

Project Background: By 2018, Dubai International Airport is expecting to have a capability to handle between 40-45 million passengers.

Project Scope : Project involves construction of a new terminal (Terminal 3) and 2 concourses (Concourse 2 and Concourse 3) at Dubai

International Airport. The third terminal will be capable of handling 20 million passengers a year. The third terminal will be a replica of the second terminal. It will have between 62 to 64 parking bays and 36 or 37 gates. The Terminal 3 will be located beneath the apron and taxiway area and will directly link with Concourse 2.

AX056 involves earthworks and piling for terminal 3, concourse 2 and a car park. It entails demolition, excavation of about 8 million cubic metres of material, construction of diaphragm walls, dewatering and installation of up to 7,11 tension piles.

AX059 covers the architectural finishes and MEP works for terminal 3, an underground structure covering a total area of 532,000sq.m, the open air car park structure having built up area of 257,000sq.m and the 670,000sq.m concourse 2.

PQ01 (Contract No. AX040): Cargo Handling Equipment and Storage System for Cargo Mega Terminal.

PQ02: Prequalification of architectural/civil engineering consultants for the provision of multi-disciplinary design and construction supervision services for Contract No. AX044 – Development and relocation of royal airwing facilities.

PQ03: Prequalification of General Civil Engineering Contractors for the Construction of Airfield aprons, taxiways and runways.

PQ04: Prequalification for ground works to concourse 2, terminal 3 and car park building.

PQ05: Prequalification of Engineering Facilities Complex.

PQ06: Prequalification for VIP Pavilion – Phase 2.

PQ07: Construction of the Duty free Warehouse and Distribution System.

PQ08: Passenger Boarding Bridges

PQ09: Baggage Handling System

PQ10: Conveying Systems

PQ11: Sky Train

PQ12: Design and Engineering Services for the expansion of existing central plant and new central plant facilities at Dubai International Airport.

PQ13: Design and Engineering services for fuel farm expansion.

PQ14: Construction of a new engineering centre for Dubai-based Emirates. The scope includes construction of aircraft parking, a docking system, hangars with heavy maintenance facilities, a wash water treatment plant, a sewage treatment plant, workshops, stores, administration and engineering offices, including an engineering training school, a multi-storey car park and related facilities.

PQ 15: Airfield lighting and control systems.

PQ 16: Security screening equipment which can meet the need of aviation security, safety and operational requirement.

PQ 17: Design, supply and installation of airfield guidance, external vehicular, external pedestrian, internal directional and emergency and information signage.

PQ 18: Design, supply, installation and maintenance of two automated people-mover systems, of 1.5km each, will be located on the proposed underground tunnel connecting concourses 2 and 3 and terminal 3.

PQ 19: Concourse 2 and Terminal 3 MEP Works. The contract shall include the following: MEP works covering approx: 995,000m of gross floor area, comprising : HVAC and electrical systems (including MV & LV), Fire protection, plumbing and drainage, extra low voltage installations including BMS, communication systems, data networking, security, fire detection and special airport systems such as FIDS & BIDS, passengers tracking, airport information systems and systems integration, along with other building services necessary for the operation of an international airport.

PQ 21: Crisis Centre (84,000sq.m).

PQ 27: \$135 million (Dhs. 495 million): The pack involves the demolition of the existing terminal building and the construction of a 2 level terminal over 110,000 sqm. 15 companies have applied for pre-qualification for PQ 27.

PQ 30: Fuel Farm Expansion

PQ 33: (\$500 million): Cargo Mega Terminal. The project comprises a major cargo handling facility for Emirates Airlines. The cargo terminal will cover an area of approx:

270m by 130m, with a multi-storey car-park to accommodate up to 700 cars and a connecting bridge. The project involves concrete structures, structural steel shell, insulated metal sandwich panel cladding system, cladding to office levels, pre-cast concrete works for the multi-storey car park, external truck dock area arrangement, airside roads and dolly dock areas, external lighting, finishes, ancillary works and MEP installations.

PQ 34: Airport Operations and Crisis Centre. The project consists of a high-tech facility for operations, risk assessment and management. The main features of the project include systems integration, extensive data management and display facilities. The project will also consist of sophisticated cabinet work and specialist interior works. The project also includes construction of a 2 storey underground concrete structure.

PQ 37: Medium sized building and civil engineering projects.

AX 011A: Construction of taxiways north of the proposed concourses 1 and 2 and an expansion of the apron area.

AX 086: Construction of a tunnel west of the existing concourse 1 under the taxiways. The project also involves installation of fire-fighting, lighting, drainage and stormwater drainage systems for the proposed tunnel, relocation of the existing aviation turbine fuel supply line and related civil, electrical and mechanical works.

AX058 (Dhs.1.5 billion): Reinforced concrete works on the substructures for the proposed second concourse, third terminal and car park. The facilities will be constructed in 3 levels over a total of 870,000sq.m. The lowest will be built at a depth of 20 meters below ground level. A total of about 2 million cubic meters of concrete will be used to construct the facilities, which will take about 2 years to build. This pack was known as PQ 22 during pre-qualification.

The central utility and power supply package (PQ31) calls for the construction of four new central utility complexes (CUCs) to serve terminal 3, concourses 2 and 3, the new cargo terminal and Dubai Flower Centre. The chilled water plants (PQ32) will consist of water-cooled chillers, cooling towers, district chilled water distribution piping and related services of total capacity of 10,000 tonnes of refrigeration. The power system will consist of 132-Kv substations and cabling works.

AX 273B: Covers the construction of reinforced concrete and steel works, mechanical, electrical and plumbing and finishes.

AX101: Involves the building works for the cargo terminal.

Schedule : Five consultants submitted design bids during the first quarter of 2000. Aeroports de Paris and Dar al-Handasah were appointed as the consultants in Oct' 2000. Aeroports de Paris will be responsible for the design of the third terminal while Dar al-Handasah will be in charge of the new concourse.

DCA invited contractors to prequalify by 3rd Nov' 2001 for the four packages. Pack 1 (AX056) issued for tender in Nov' 2001 with closing date on 22 Jan' 2002. Seven Groups submitted bids for pack 1. In July 2002, Al Naboodah Contracting appointed as the contractor for the 22-month AX056 contract (Dhs.500mn). DCA invited firms to prequalify by 16th Feb' 2002 to provide design and engineering services for two more packages. The packages will cover the expansion of the existing fuel farm and the construction of a new central plant and related facilities. DCA, in Feb' 2002, invited contractors and architectural firms to prequalify by 14th March 2002 for packs PQ14 and PQ15. DCA invited contractors to submit bids by 23rd March 2002 for a contract to construct ancillary buildings and the upgrade of the fire station at the airport.

In May 2002, DCA invited electromechanical contractors to submit pre-qualification documents by 31st Aug' 2002 on PQ19. Tender for PQ19 has been issued and the bid submission date is on 9th Sept' 2003.

PQ30- Prequalification for the Fuel Farm Expansion closed on 8th Sept' 2003.

PQ31 and PQ32 – Pre-qualifications closed on 20th Sept' 2003.

Prequalification for PQ33 closed on 21st Mar' 2004.

Prequalification for PQ34 closed on 21st Mar' 2004.

Prequalification for PQ37 was launched in April 2004 and the closing date is on 10th May 2004.

Consultants were invited to submit their pre-qualification bids by 15th June 2002 for PQ21. Companies are also

invited to apply by 31st July 2002 to pre-qualify for PQ17 and PQ18. Tender for main contractor on AX 011A pack issued in July 2002 with closing date on 7th Aug' 2002. Tender submission date is extended till 21st Aug' 2002. Al Naboodah Contracting has been appointed the contractors for the Dhs.221 million AX 011A tender. Joannou & Paraskevaides was the other bidder for the package. Six companies are understood to have responded by 4th Sept' 2002 for an enquiry on the estimated Dhs.40 million AX 086. Bids are currently under evaluation for package AX086. The bidders for the AX086 pack are Al-Naboodah Engineering, CCC, DBB, National Wheel J&P, Wade Adams Contracting. Contractors submitted pre-qualification documents on 16th Oct' 2002 for AX058. Bid submission deadline for pack PQ22 has been extended to 30 Nov' 2002. About 10 companies have been pre-qualified for pack PQ22. The tender for AX058 (PQ22) has been issued and the bid submission date is on 7th May 2003. Bid submission date for AX058 has been extended to 17th June 2003. (For list of prospective bidders see remarks). Bid submission was once again extended to 1st July 2003. Al Naboodah Laing has been appointed as the contractor for AX058 in July 2003. Project duration is 30 months.

Contractors were invited to submit their expressions of interest on 15th April 2004 for pack AX059 (\$981 mn; AED 3,600 mn) which covers the finishes and MEP works for terminal 3, concourse 2 and the car parking structure. The scope of AX059 covers an area of 532,000sq.m. This includes the open-air car park structure having a built-up area of 257,000sq.m. and the 670,000sq.m concourse 2. Tender for AX059 was issued on 22nd May 2004 and the bid closing date was on 14th Aug' 2004. Bid deadline for AX059 was extended to 11th Sept' 2004, once again extended to 27th Sept' 2004. Bidders for the pack were: Al Naboodah Laing O' Rourke and a joint venture of Al Habtoor Eng. Ent. and Murray & Roberts Contractors (Middle East). Letter of intent (LOI) for AX059 has been issued to the grouping of Al Habtoor Eng. Enterprises, Murray & Roberts Contractors Middle East and Takenaka Corp in Dec' 2004.

The largest element of AX059 project is the MEP works, known as AX324. Provisional sums make up around 50 % of the total value of the contract. 3 groups of companies are bidding for AX324. AX324 (AED 1,800 million; US\$490 million), the largest MEP contract so far in the UAE construction industry has been awarded to Thermo. The contract covers the MEP works and special airport systems (SAS) for terminal 3, concourse 2 and car park elements.

Thermo will be assisted on the project by Alcatel and Arinc. Specialist subcontractors will carry out 6 sub-packages. Amec (Hong Kong office) will provide engineering project management services. The other bidding groups for the project were BK Gulf with ETA and Kharafi National with Voltas International.

Project duration for AX059 and AX324 is 28.5 months. Other provisional sums include fit-out works.

Bids for AX101 were submitted on 11th Jan' 2005.

Consultants were invited to submit prequalification documents by Nov' 6 2002 for pack PQ07 Construction period is 2 years. In Feb' 2003, DCA declared the cancellation of the pre-qualification process for PQ07, PQ12, PQ13 and PQ15. Project is scheduled to be complete by 2006.

Bids for the central utility and power supply package has closed on 29 June 2003.

AX 273B: Pre-qualifications closed in mid-Feb' 2004. Tender for AX 273 , valued at around US\$135 million (AED 47.71), has been issued in the first week of Dec' 2004.

York International was appointed in Nov' 2004 as the air conditioning contractor for the 3rd terminal and associated buildings. The company will be responsible for installation and maintenance of primary chilled and condenser water pumps and cooling towers. The contract is worth around US\$25 million (AED 92 million).

Hill International is awarded a contract by Department of Civil Aviation to provide claims management consultancy for the project in April 2005. The contract is for three years with a two-year option.

Emirates Glass is awarded on 23rd August 2005 a contract to supply 560,000 sq. ft. of high performance glass to the Concourse 2 project.

Remarks : ThyssenKrupp has been awarded the contract (US\$ 100 million; AED 367 million) to supply and install 658 passenger conveyance systems by 2008. The passenger conveyance systems will include 368 elevators, 162 escalators and 128 moving walkways. In June 2004 ThyssenKrupp had been awarded the contract (US\$50 million; AED 184 million) to supply and install passenger

boarding bridges. 117 bridges will be installed totally. Out of the total, 25 bridges will serve the new Airbus A380 aircraft.

The consortium of Mitsubishi Heavy Industries (MHI) and Mitsubishi Corporation has been awarded the AED 334 million (US\$91 million) contract to build the automated transport system. The contract also involves a 4 year option to operate and maintain the system. The contract will include the supply of driverless vehicles, signaling systems, control systems and associated facilities. The system will run underground from the new concourse 2 and 3. The project will be complete in 2008.

AX059 is the largest package on the project valued at an estimated US\$800 million (Dhs.2936 million).

Siemens Dematic is the supplier of automation technology and facilities for cargo handling at the new mega terminal. The contract is worth AED 420 million (\$114 million)

Originally the total project costs were put at Dhs.9,175 million but after a recent revision costs have been put at 14,680 million. This value takes into account the various access roads to the airport.

Bidders for Pack AX058 are: Murray & Roberts Contractors with Al Habtoor Engineering Ent.; Dutco Balfour Beatty with CCC; Al Naboodah Laing and the grouping of Bel Hasa Six Construct, Interbeton, ACC and Arabtec.

The pre-qualifiers for PQ22 (AX058) are: Murray & Roberts Contractors with Al-Habtoor Engineering; DBB; Al-Naboodah Laing; Gromaler LTA with Bu Haleeba Contracting; CCC; a 4 member group of ACC, Belhasa Six Construct, Arabtec and Interbeton; Mohammed Abdulmohsin Kharafi and Sons.

The pre-qualifiers for PQ01 are ABB Airport Technologies, Murata Machinery, SD Middle East, Lodige Fordertechnik and SHS Fordertechnik. Pre-qualifiers for PQ02 are ADP, ADR Engineering, Birk Hillman, Halcrow, Mott MacDonald, Maunsell, WS Atkins, Woods Bagot and Scott Wilson. The pre-qualifiers for PQ03 are Al Naboodah Contracting, Al Naboodah-Bin Hafeez, Dutco Construction, Dyckerhoff & Widmann, Khansaheb, National Wheel J&P and Wade Adams. Pre-qualifiers for PQ04 are Al Naboodah Contracting, Al Naboodah-Bin Hafeez, Al Habtoor-Murray & Roberts, Bilfinger & Berger, Belhasa Six Construct, Dutco and DBB, Mohd. Abdulmohsin al-Kharafi, National Wheel J&P and Wade Adams. Pre-qualifiers for PQ05 are Al

Naboodah Contracting, Al Naboodah Laing, Al Hamed Development & Construction, Arabtec, Al Habtoor Engineering, Belhasa Six Construct, Saudi Bin Ladin Group, Dutco & DBB, Khansaheb and National Wheel J&P. Pre-qualifiers for PQ06 are Al Naboodah Contracting, Al Naboodah Laing, Arabtec, Al Hamed Development & Construction, Al Habtoor Engineering, Dutco-DBB, Saudi Bin Ladin Group, Khansaheb and National Wheel J&P.

Pre-qualifiers for PQ08 are Dutco Tennant/NKI Group, FMC Technologies, FMT Aircraft Gates Support Systems, Norgate AS/ Cavotec Middle East, Thyssen Henschell and Technologia Europa Aplicada Movimiento. Pre-qualifiers for PQ09 are Logan Fabricom Limited, SD Middle East, FKI Logistex/ Crisplant, Van der Lande Industries and Kawasaki Heavy Industries. Pre-qualifiers for PQ10 are Mitsubishi, Thyssen Lifts, OTIS, Kone, Hitachi, CNIM and Fujitec Co. Pre-qualifiers for PQ11 are Mitsubishi, Thyssen Lifts, OTIS, Kone and Fujitec. Pre-qualifiers for PQ14 are Birk Hillman/Dorscan/Cinmar Design, Meinhardt-Stanford Moor & Farrington, Mott MacDonald, Halcrow, Scott Wilson Kirkpatrick, Norr Group, Maunsell, ADP and WS Atkins. Pre-qualifiers for PQ20 are Murata Machinery, Advanced Logistic Systems, Dutco Tennant/ Lodige Fordertechnik, Siemens Dematic, ICM/ Rotary Humm/ Dubai Technology Partners and Vanderlande Industries International.

4. Project Title	:	RAK AIRPORT EXPANSION
Project Value	:	Dhs. million
Client	:	RAK Department of Civil Aviation
Consultant	:	Khatib and Alami (Masterplan)
	:	Aeroports de Paris (AdP) (Design)
Project Scope	:	Project calls for the construction of a new arrival and departure lounges, expanded runway and taxiways, a free trade zone, automated cargo warehouses, parking lots, offices and restaurants. 5 star hotel properties, golf courses and extensive landscaping are also planned in and around the airport. The project will utilize an additional 3 million square meters.
Schedule	:	The RAK DCA has announced on 25 th Feb' 2003 a 5 year plan to upgrade the airport. Khatib and Alami is the master planning consultant for the project. The 5 year plan is part of a 20 year master plan. In Oct' 2004 AdP signed a MoU with the RAK DCA to act as the

consultant for drawing up designs and developing strategies for the airport's arrival and departure lounges, duty free zone, cargo and handling areas and catering facilities.

Master plan was completed in November 2005. The master plan is being revised and is expected to complete in January 2006. 5 consortiums made up of European, Asian, US, and regional companies have submitted proposals for the project. The project is expected to be carried out on some form of build-operate-transfer (BOT) basis.

Remarks : The project will be financed by the RAK government, the DCA and also by a private firm which will build a 5 star hotel at the airport.

5. Project Title : **AJMAN INTERNATIONAL AIRPORT**

Project Value : US\$800 Mn (Dhs.2,936 million)

Client : Ajman Govt./ Wiggins Group (UK)

Project Scope : The project entails construction of an international airport at Al Helou in Ajman. The project will call for the construction of a 4,000 m runway and 2 taxiways, a terminal building, a dedicated shopping area, a high technology park, 20-30 boutique hotels, resorts, residential and tourism facilities. It will also have a commercial and light industrial zone that will feature 20,000 habitable units and attract investments as well as tourists. The airport will be able to cater to 2 million passengers annually. The airport will have the provision of hangars for maintenance, general aviation and a royal lounge. The complex will serve as a complete air service station. The development would require about 8 km of land.

Schedule : Wiggins Group has undertaken the build-operate-transfer (BOT) contract to construct the terminal and allied infrastructure. The contract was signed in May 2001. A rough master plan has been submitted to the Ajman government. Wiggins group received a go-ahead from the government to proceed with the detailed designs on the project. Construction will take place in multiple phases. The airport is scheduled to be functional by 2006. The project is likely to be cancelled.

Remarks : The project also envisages the airport to be linked by monorail to the seafront of Al Zoura which would give rise to a resort area featuring 30 hotels and water front villas.

The airport will be part of a growing network of airports and airstrips through out the Middle East under the brand name Plane Station. Traffic is expected to be boosted because of the network.

6. Project Title : **SHARJAH AIRPORT EXPANSION**

Project Value : US\$62 Mn (Dhs.227 million)

Client : Sharjah Department of Civil Aviation
Project Manager : Projacs
Consultant : Gutteridge Haskins and Davey (GHD)
Main Contractor : Saudi Bin Ladin Group
MEP Contractor : In-house

Project Scope : The project involves the expansion, redevelopment and construction of a second terminal at the Sharjah International Airport. The main aim of the project is to double the airport's passenger handling capacity from 2 million to 8 million.

The extension will comprise the development of a new arrival and departure area, an expanded duty free area, a 5,000 sq.m. check in area, a new baggage reclaim of 5,000 sq.m. 6 new air bridges, 3 new gates, a new concourse and a 150 vehicle car park in the arrivals area. The extension works will cover a total area of 20,000 sq.m.

Renovation work will involve the overhauling of all airport systems, air-conditioning units, immigration and police counters. The refurbishment of existing facilities will cover an area of 21,000 sq.m.

Schedule : The project was on hold for some time. GHD is the consultant for the project. Tender for the main contractor was issued in May 2004 with a bid submission date on 14th June 2004 and extended to late Sept' 2004. Saudi Bin Ladin Group has been appointed as the contractor for the project on 28th Dec' 2004. Completion of the

expansion and renovation programme is expected in late 2006.

Remarks : The client is also considering upgrading the airport's facilities to accommodate Airbus A380 aircraft.

The bidders for the construction contract are Saudi Binladin Group; Al Hamed Development & Construction; Al Futtaim Carillion and Darwish Engineering.

Type of foundation: Raft Footing by Main Contractor.

Other Subcontractors involved in the project:

Concrete Supply: Cemex
Tel: 06-5345574

Steel Supply: Rasana
Tel: 06-5339620

Glass & Aluminium Works: Thomas Bennett Gulf
Tel: 04-3381919

Paint Supply: Jotun U.A.E. Ltd.
Tel: 04-3395000

Ceiling Works: Cloisall Co. Ltd.
Tel: 04-2825100

7. Project Title : **EMIRATES NEW ENGINEERING CENTRE (ENEC)**
Project Value : US\$273 Mn (Dhs.1,000 million)

Client : Emirates Airlines
Project Manager : Aeroports de Paris (AdP)
Consultant : Aeroports de Paris/ Fraser Nag Partnership
Main Contractor 1 : J&P Overseas
Main Contractor 2 : Ascon (Land site buildings)
MEP Contractor : ETA Ascon

Project Background: Emirates Airlines as part of its expansion drive has placed orders for several Airbus A380 aircrafts, which are due to be delivered in 2006. The proposed facilities are being built to accommodate the wide-bodied jets.

Project Scope : The project involves the following scope:
1. Eight light and heavy maintenance hangers requiring a total area of around 100,000 sqm. These hangers will

house the airbus A380s double-deck aircraft, requiring specially designed floor areas and an overhead crane system consisting of 3 moving bridges per hanger. The first phase construction will also include a 12,000 sqm. workshop and central plant building; two taxiways; offices; a power complex; aircraft washing bay; gatehouse and a 73,000 sqm. car park building.

2. Supporting facilities such as power complex, workshops, gate house, offices, a training school, mosque and a multi-storey car park.

3. An infrastructural complex surrounding the hangars with 9 aircraft parking stands capable for A380 aircraft, an engine on wing to run up area and two taxiways connected to the airport. The project will come-up at a site adjacent to the airport exhibition centre.

Schedule : Consultants submitted proposals on 27th July 2002. Aeroports de Paris has been appointed as the design consultant for the hangars during Nov' 2002. Contractors were invited to submit pre-qualification documents by 10th March 2003. 30 companies have submitted their pre-qualifications by 10th Mar' 2003 for the project.

The project is expected to comprise of a main works package and 9 specialist packages.

Original bid deadline for the structural steel contract (AED 100 million, \$27 million), which is the first specialist package was on 23rd June 2003, but was extended to 30th June 2003. 7 companies have submitted bids for the structural steel package on 30th June 2003. A joint venture of TEPE Akfin (Turkey) and Punj Lloyd (India) was awarded the structural steel contract in Aug' 2003.

Other specialist packages cover the construction of administration buildings, car park and the supply and installation of security systems.

Tender for package 1 of the project was issued in June 2003 with bid submission date on 3rd Sept' 2003. Tender closing date is further extended till 13th Oct' 2003. J&P Overseas was appointed as the main contractor for pack 1 in January 2004. Completion is expected by the end of May 2006.

Tender for the pack 2 land site construction contract closed on 6th Oct' 2003. Ascon is the contractor for the land site project. Construction commenced in Jan' 2004. The project

involves the construction of 4 buildings- G+2 Administration building, a multi-storied car park, gate house and a mosque. Project duration is 14 months. Completion is expected by end of December 2006.

Remarks : The short-listed bidders for pack I were: Bel Hasa Six construct with Arabtec; TEPE Akfin with Punj Lloyd; J&P Overseas and Al Naboodah Laing. Bidders for the pack I were: Bel Hasa Six construct with Arabtec; TEPE Akfin with Punj Lloyd; J&P Overseas; Al Naboodah Laing; ACC with Interbeton; Taisei and Baytur.

The 7 companies which pre-qualified and also bid for the structural steel contract were: Cleveland Bridge & Engineering Middle East, Murray & Roberts Contractors, Cimolai, Tiger Steel, Punj Lloyd with TEPE-Afken, Eversendai and Emirates Building Systems.

The pre-qualified consultants included WS Atkins International, Halcrow, Mott MacDonald, Dorsch Consult, Meinhardt, Aeroports de Paris, Maunsell Consultancy Services and Scott Wilson Kirkpatrick. The existing EEC will be demolished.

8. Project Title : **EXPANSION OF TERMINAL 2 AT DUBAI INTL' AIRPORT**

Project Value : US\$137 Mn (Dhs.503 million)

Client : Department of Civil Aviation

Consultant : Aeroport de Paris (France) / Dar al-Handasah (Shair & Partners)

Main Contractor 1 : Strabag

Main Contractor 2 : Al Naboodah Contracting/Group Five

Project Background: The project is part of DCA's overall expansion programme for the airport, of which the main element is the construction of a third terminal, two new concourses, a mega cargo terminal and related facilities (Refer UD:131).

Project Scope : Project involves expansion of the existing terminal 2. The project will be divided into 2 phases.

Phase I (Dhs.14.68 million): involves the temporary expansion of the existing terminal building; the installation of a new baggage claim carouse and two new passenger boarding gates; and the construction of a dedicated transit lounge, restaurants and related works.

Phase II(Dhs.488million): involves the demolition of the existing terminal building; the construction of a new two level terminal building over 110,000 square metres and with 60 new check-in counters, 38 passport control desks and 22 boarding lounges; and the installation of 22 passenger boarding gates with aerobridges, 11 aircraft parking bays, and six baggage claim carousels.

The proposed facilities are targeted for completion by end-2005 and the new facilities will enable terminal 2 to handle between 2 to 5 million passengers from 500,000 at present.

Schedule : Companies were invited to submit pre-qualification documents by 9th Sept' 2003 for the structural works (PQ 27). The 12-month contract will cover reinforced concrete and structural steel works, foundations and related facilities.

Pre-qualifications were submitted during mid Feb' 2004 for PQ28. The contract covers the expansion of floor space by about 80,000sq.m and also the refurbishment of the existing 15,000sq.m. facility. The extension works will see the construction of an 800 meter long, 130 meter wide building. Tender for the structural, MEP and finishes works worth around US\$130 million have been issued and the bid submission date was on 9th Feb' 2005. The bid package is known as AX 273. The contract is expected to be awarded in April 2006. The construction is expected to take about 17 months for completion.

9. Project Title : **AIRPORT TERMINAL ON DAS ISLAND**
Project Value : Dhs. million

Client : Adma-Opco

Project Scope : Project entails construction of an airport terminal on Das Island. Full scope for the project will be known only after designs have commenced on the project.

Schedule : The project is under study. The project is currently on hold.

10. Project Title : **TERMINAL FOR ROYAL JET**
Project Value : US\$40.9 Mn (Dhs.150 million)

Client : Royal Jet

Project Scope	:	Project calls for the construction of luxury terminal facilities at Abu Dhabi International Airport for the charter carrier Royal Jet. The facility to be known as Fixed Based Operations (FBO) will comprise 6 VIP lounges, an aircraft hangar initially capable of accommodating 4 Boeing Business Jets and a 3,000 sq.m HQ building for Royal Jet. The facility is planned to be built on the eastern side of the AUH intl' airport next to AUH aviation. Royal Jet handles the operations of the ruler's jets.
Schedule	:	Tender for the consultancy contract was issued in June 2004 with bid submission on 4 th Aug' 2004. Four design concepts have been short listed. Design duration is expected to be 9 months and construction is expected to be completed in 2007. The project is still on hold.
Remarks	:	<p>7 international and local companies are pre-qualified for the consultancy contract. These include: Aeroports de Paris, W.S Atkins, Halcrow and Dewan Architects & Engineers.</p> <p>Abu Dhabi Works Department will be in charge of the construction work. Royal Jet is owned equally by Amiri Flight and Abu Dhabi Department of Civil Aviation.</p>

11. Project Title : THIRD TERMINAL – CONCOURSE 3 AT DIA

Project Value : US\$545 (Dhs.2,000 million)

Client : Department of Civil Aviation

Consultant : Aeroport de Paris (France) / Dar al-Handasah

Project Background: By 2018, Dubai International Airport is expecting to have a capability to handle between 40-45 million passengers.

Project Scope : Project involves construction of the Terminal 3 -concourse 3 at Dubai International Airport. Please refer UUD131 for the Terminal 3-Concoure 2 project.

The concourse 3 will be of the same size as concourse 2 and will be dedicated to handling the new Airbus A380 aircraft. Concourse 3 will also have a 250-room hotel, and a 12,000 square meters of retail space.

Schedule : The main construction tender is expected to be released in the 1st quarter of 2006. The tender will include the structure and the fit-out of the concourse 3. Al Naboodah Contracting is selected in December 2005 for the enabling works package on the project.

Remarks : DCA has started ordering long lead items for the project. Items already procured include the structural steel frame ordered from Cleveland Bridge.

5.3 APPENDIX C: MAJOR UAE PORT PROJECTS

1. Project Title : **PORT UPGRADE PROJECT / MINA ZAYED**
Project Value : US\$27 Mn (Dhs.100 million)
Client : Dept. of Municipalities & Agriculture-Abu Dhabi
Consultant : Gibb Limited
Main Contractor : Al Geemi and Partners

Project Background: Further step to upgrade Mina Zayed covered by Mina Zayed Master Plan.

Project Scope : To upgrade the existing facilities at Mina Zayed Port in Abu Dhabi.
 Packages issued for tender are;
 Construction of a control tower, a pontoon, access roads, a parking area, accommodation for sailors, workshops and an administration building (80 million).

Schedule : Final design completed End of March'96.
 Tender issued in April 2001 with closing date on 20th May 2001. Tender closing date was further extended till 10th July 2001. Al Geemi & Partners submitted the lowest bids (Dhs.68.7 mn) followed by Pauling Middle East (Dhs.69.9 mn). Al Geemi and Partners was appointed as the contractor for pack 2 in Mar' 2003. Completion is now expected on 29th April 2006.
Permanent changes in the scope of works proposed by the client were the reason for delay in the tender.
 Completion is expected within two years after award.

Remarks : Prequalified contractors for pack 2 were Al Habtoor-Murray & Roberts, ADMAK General Contracting, Ed Zeublin, Al Muhairy General Contracting and Al Geemi & Partners, Al Hamed Development & Construction and Pauling Middle East.

2. Project Title : **AJMAN PORT DEVELOPMENT**
Project Value : Dhs.25 million
Client : Emirates Ports Services
Consultant (Study): Halcrow Group

Consultant	:	Gibb Limited
Project Background:		At present Ajman port is having a depth of eight metres with which it can currently take vessels up to 20,000 DWT.
Project Scope	:	Halcrow will initially prepare a 20-year masterplan for all aspects of the port's development. Among the development plans is the deepening of the port's channel to 10.5-11 metres, addition of two new berths, extension of the quay wall, warehousing facilities and an equipment upgrade.
Schedule	:	Halcrow appointed as the master planning consultant for the project in Nov' 2001. Study on the project was completed in July 2002. Gibb Limited appointed as the consultant in the 4 th quarter of 2003. Bids for the main construction contract have been submitted. Project is on hold for the time being.
Remarks	:	EPS is a 50:50 joint venture between ETA Group and Uniship Shipping Agencies.
3. Project Title	:	<u>ADDITIONAL MOORING DOLPHINS AT MINA ZAYED</u>
Project Value	:	Dhs. million
Client	:	Dept. of Municipalities & Agriculture-Abu Dhabi
Consultant	:	Halcrow International
Project Scope	:	Project calls for extension to Mina Zayed Harbour in Abu Dhabi.
Schedule	:	Design completed. Project was put on hold during the 1 st quarter of 2002. The project continues to be on hold and is most likely to be cancelled.
4. Project Title	:	<u>DRY DOCK IN FUJAIRAH</u>
Project Value	:	Dhs. million
Client	:	Port of Fujairah
Project Background:		The Port of Fujairah is planning to attract investors to set up a dry dock for repairing ships as part of the port authority's new policy of attracting investments to develop its maritime business.

Project Scope : A dry dock could be easily constructed on the land between the port and Fujairah Beach Motel. Feasibility study on the project is complete. Detailed scope of work has not been established.

Schedule : The client was in negotiations with possible 3rd party investors. Project is currently on hold.

5. Project Title : **EXPANSION OF THE RULER'S PORT IN AJMAN**

Project Value : Dhs. million

Client : Emirates Port Services

Consultant : Halcrow (study)

Project Scope : Project involves expansion of the port on Ajman-RAK road.

Schedule : Study completed and submitted to the client during July 2002. Detailed time schedule is yet to be established. Project is still on hold.

6. Project Title : **RELOCATION OF JADAF SHIPYARD**

Project Value : Dhs. million

Client : Dubai Municipality

Consultant (study): Halcrow Group

Project Scope : Project calls for the re-location of the Jadaf Shipyards on Dubai Creek to a new site on the Dubai coastline.

Schedule : Halcrow Group appointed as the study consultant for the project in July 2002. Study on the project has been completed during Feb' 2003. The shipyard is most likely to be shifted to Port Rashid. However, the project is very long term and could materialize only within 3-4 years.

Remarks : The project is now part of the Dubai Maritime City project.

7. Project Title : **JETTY UPGRADE AT DAS ISLAND**

Project Value : Dhs. Million

Client : ADGAS

Consultant (Design): In House

Consultant (study): Halcrow Group

Project Scope : Project entails upgrade of the existing jetty at Das Island.

Schedule : Halcrow completed the study and submitted to the client in Sept' 2002. Detailed design was expected to begin in the 4th quarter of 2002. Design on the project was done in house. Project is still on hold.

8. Project Title : **JEBEL ALI PORT EXPANSION**

Project Value : US\$1144 Mn (Dhs.4,200 million)

Client : Dubai Ports Customs & Free Zone Corp. (DPCFZC)

Consultant (Masterplan): Han Padron Associates

Project Background: Since the past several years Dubai has seen a massive growth in trade and this has called for increasing the strained capacity of the Dubai port. Dubai port is at present witnessing an annual 15 percent growth rate. This is likely to increase even further. The new expansion plans aim at meeting the ever increasing demands on the port.

Project Scope : The project is an ambitious one that aims to add 30 Km to Dubai's shoreline. The project is a very long-term one with up-to 4 phases. Phase I on the project has already started during March 2002. This involved widening and lengthening the channel.

The different phases on the project are as follows:

Phase I

This phase will extend from March 2002 until 2005.

Phase I involves channel dredging, which began in March 2002, to 17 meters in addition to its widening from 235 metres to 325 metres; five additional berths with 14 Super Post-Panamax quayside cranes; and construction of deepwater quay walls for mega-vessels calling at Jebel Ali. This phase will see the capacity of the port rising to 5.7 million TEUs. The total cost of this phase will be Dhs.868 million.

Phase II

This phase will extend from 2005 to 2007.

This phase involves developing 50 per cent of the mega-berths of 450 meters; development of additional berths; construction of anew automated gatehouse; 10 additional quayside cranes (six Mega-Max cranes for mega-vessels)

and supporting yard equipment. It also includes the planning for the construction of new terminals.

The total capacity during this phase will rise to 9.7 million TEUs. The total cost will be Dhs.718 million for this phase.

Phase III

This phase will extend from 2007 to 2010.

Phase III will involve the continuing development of additional four berths; an additional 11 quayside cranes with supporting yard equipment; and the commencement of the construction of new phase IV terminals. The total capacity will rise to 9.7 million TEUs during this phase. The total cost will be Dhs.718 million.

Phase IV

This phase will have duration of 10 years, from 2010 to 2020.

Phase IV will include 18 deepwater berths with 70 super Post-Panamax and Mega Max cranes. It will have 3 major terminals:

Terminal 2- 2.7m TEUs, at a cost of Dhs.1,000 million

Terminal 3- 4.7m TEUs, at a cost of Dhs.700 million

Terminal 4- 4.7m TEUs, at a cost of Dhs.700 million

The total cost of this phase will be 2.4 billion Dhs. and the total capacity will be raised to 21.8 million TEUs.

Schedule : The client invited consultants to express interest by 3rd May 2003 for the contract to design and supervise the construction of a new container terminal in the Jebel Ali port and also prepare a master-plan for the development of the entire port until 2020. 14 international consultants submitted proposals in Sept' 2003. The short listed consultants for design and supervision of the project are: Han Padron Associates, Halcrow and Maunsell Consultancy Services.
Han Padron Associates have been appointed as the master planning consultants for the project in April 2004.

Phase I extends from March 2002 until 2005.

Phase II will extend from 2005 to 2007.

Phase III will extend from 2007 to 2010.

Phase IV will extend from 2010 to 2020.

30 percent of the channeling widening which began in March 2002 is complete.

Remarks : In April 2004 Shanghai Zhenhua Port Machinery Co. was awarded a US\$218 million contract to provide 20 large container cranes and 76 bridge cranes for the project. Pre-qualified companies for the consultancy contract are Pacific consultants, Hyder Consulting, Mott MacDonald, Louis Berger International, Han Padron Associates, Arenco, Rotterdam Municipal Port Management, Posford Haskoning, Scott Wilson Kirkpatrick, Halcrow, Maunsell Consultancy Services and Mouchel. DPA will use its own funds and borrowings from banks to finance the project. There will not be any issue of bonds.

9. Project Title : FISHING HARBOUR AT SILA

Project Value : Dhs. million

Client : Dept. of Municipalities & Agriculture-Abu Dhabi

Consultant : Halcrow

Main Contractor : China Harbour

Project Scope : Project calls for the construction of a fishing harbour in Sila, close to the Saudi Arabian border. The scope of works will include dredging of the existing harbour basin, extension of the breakwater and construction of various administrative buildings.

Schedule : Halcrow has been appointed as the design consultant and construction supervisor for the project during mid-Feb' 2003. Designs on the project were completed in about 4 months. Bids for the project were submitted during early Oct' 2003. Although China Harbour was named as the contractor for the project in Oct' 2003, official signing of the contract took place only on 10th Aug' 2004. Project duration is 14 months. Completion of the project is expected in August 2006.

Remarks : China Harbour was the lowest bidder for the project at AED 38 million (\$10 million), followed by Target Eng. & Cont. at AED 48 million (\$13 million) and Emirates Athena at AED 49 million (\$13.35 million).

10. Project Title : DIBBA AL FUJAIRAH PORT DEVELOPMENT

Project Value : Dhs. million

Client	:	Port of Fujairah
Project Scope	:	Project calls for a major development of the Dibba Al Fujairah port. Project aims at drastically increasing the port's capacity in handling vessels and cargo and also in terms of other major facilities.
Schedule	:	Project is at present in the concept stages. No time schedule has been fixed yet.

11. Project Title : NEW HARBOUR AT SAQR PORT

Project Value : Dhs. million

Client : Saqr Port/ KGL Ports International (Kuwait)

Consultant : Halcrow

Project Scope : Project calls for the setting up of a new harbour that will specialize in container handling at Mina Saqr. The new container terminal will have a capacity of 300,000 TEU's on completion.

The new port will have necessary facilities such as suitable platforms and giant cranes. The new port is expected to improve the container trade in RAK. The depth of the port will be increased to 14 meters instead of the current 12.2 metres to enable ships carrying more than 100,000 tonnes to use the port.

Schedule : Project is under study. The project is being developed by Kuwait based KGL Ports International on a BOT basis. The company has signed a concession agreement with the client for a period of 21 years. The agreement was signed on 14th July 2004.

Remarks : KGL Ports International is a subsidiary of Kuwait & Gulf Link Transport Company. The concession agreement was drawn up and prepared by Wadih Khalaf Associates of Kuwait.

12. Project Title	:	<u>INNER HARBOUR EXPANSION AT HAMRIYAH FREE ZONE</u>
Project Value	:	Dhs.150 million
Client	:	Hamriyah Free Zone Authority
Project Scope	:	Project calls for the phase 3 and 4 expansion of the inner harbour at Hamriyah Free Zone in Sharjah. The recently completed Dhs.75 million phase 2 of the seven metre deep inner harbour offer investors access to 20 waterfront plots over 3,000sq.m in size. During phases 3 and 4, investors will get further access deep into the sea and that would bring more investors to the zone.
Schedule	:	Project is in the initial concept stage. Detailed time schedule is yet to be established.
13. Project Title	:	<u>EXPANSION OF KHOR FAKKAN PORT</u>
Project Value	:	US\$54.5 million (Dhs.200 million)
Client	:	Sharjah Ports and Customs Authority
Consultant	:	Halcrow
Main Contractor	:	Athena Construction
Project Scope	:	Project calls for a major expansion of the Khor Fakkan port. The project will involve adding another 2 deepwater berths, each with 4 super post-Panamax gantry cranes, to the port's existing capacity. The project is expected to more than double the port's existing capacity, which currently handles throughput of about 1.8 million 20 foot equivalent units (TEUs).
Schedule	:	Prequalification documents were issued for the contractors with closing date for submission on 25 th Feb' 2004. Tender for the main contractor was scheduled to be issued in April 2004 but has been delayed. Gulftainer Co. invited 5 companies to submit bids by 7 th Aug' 2004 for the construction contract. The bid submission date for the project was extended to 6 th Sept' 2004, once again extended till 27 th Sept' 2004. Athena Construction was awarded the main construction contract in Oct' 2004. Completion is extended to 31 st August 2006.
Remarks	:	The operator of the port is Gulftainer Company.

The bidders for the construction contract were Archirodon Construction (Overseas), Athena, China Harbour Engineering Co., Interbeton, Overseas AST, Six Construct.

14. Project Title	:	<u>EXPANSION AND DEVELOPMENT OF FISHING HARBOURS AND MARINAS IN DUBAI</u>
Project Value	:	US\$ Mn (Dhs. million)
Client	:	Nakheel Corporation
Consultant (Masterplan)	:	Gutteridge Haskins and Davey (GHD)
Project Scope	:	<p>Project calls for the expansion of 3 fishing harbours along the Jumeirah coast. These are Jumeirah Harbour 1, Umm Saqueim Harbour 1 and Umm Saqueim Harbour 2. Each harbour will be able to handle various kinds of fishing boats and yachts. A new fishing harbour will be developed at the Dubai Maritime City.</p> <p>Also as part of the project, 3 marinas will be re-developed on the Dubai creek, 2 of which will serve dhows and the third will serve tourist yachts and luxury cruisers. The marinas will serve the Palm Islands and The World developments.</p>
Schedule	:	GHD is the master plan consultant on the project. The master plan was completed in July 2004. Design and build tender was issued in the 1 st quarter of 2005. Bids are currently under evaluation. An award is expected in the 2 nd quarter of 2006.
Remarks	:	The two consultants short-listed for the master plan were Halcrow and GHD.

15. Project Title	:	<u>SEAPORT DEVELOPMENT AT SAMALIA ISLAND</u>
Project Value	:	US\$ Mn (Dhs. million)
Client	:	Dept. of Municipalities & Agriculture-Abu Dhabi
Consultant	:	Conseco International Ltd.
Main Contractor	:	Six Construct
Project Background:		Project is part of the Samalia Island Development project (Ref:UM007)
Project Scope	:	<p>Project calls for the construction of a port at the Samalia Island, Abu Dhabi. The scope of the project is as follows:</p> <ul style="list-style-type: none"> • Construction of boat way.

- Construction of quay wall.
- Construction of landing.
- Installation of pontoon system.
- Construction of rock revetment.
- Verification and removal of any high spots from dredge levels.

Schedule : Tender for the main contractor was issued in the 4th quarter of 2004. The bid submission date was on 10th Jan' 2005. Six Construct was chosen as the main contractor during late May 2005. Construction started in June 2005. Project duration is 1 year.

16. Project Title : **SAFINA**
Project Value : US\$27 Mn (Dhs.100 million)
Client : Dubai Drydocks
Consultant : Royal Haskoning
Main Contractor : NSCC & Bachy Solbntanche (JV)

Project Scope : Project calls for the construction of a new port at Dubai Drydocks, Dubai. The new project is known as Safina. The proposed dry dock will build small, medium and large vessels. The project when completed, along with the maritime city, will form the largest maritime hub in the entire Middle East. Safina will enable Dubai Drydocks to construct vessels 60 meters wide, 30 meters in depth any length. The scope of works will include underwater engineering works, grand slab foundations and major construction works such as: road works, shipbuilding foundations, and civil works foundations.

Schedule : Prequalification for the project was launched on 11th Jan' 2005. Commissioning of the new port is expected in the 1st quarter of 2006.

Tender for the construction works was issued in Feb' 2005 with closing date on 27th April 2005.

Due to a re-design, the project was re-tendered in April 2005. Bid submission was due on 22nd of May 2005. Pre-qualifiers for the estimated Dhs.92 million contract are Archirodon Construction, Belhasa Six Construct, NSCC, Kier Dubai, Interbeton, and Larsen & Toubro. Main

contractor appointed in July 2005. Construction commenced in August 2005. Project duration is 1 year.

Remarks : Along with Safina Dubai Drydocks is investing approximately US\$200 million (Dhs. 734 million) in expansion of its facilities. This includes increasing dock life to 40 years, construction of an offshore floating dock and expansion of accommodation facilities.

17. Project Title : RUWAIS HARBOUR

Project Value : US\$8.17 Mn (Dhs.30 Million)

Client : ADNOC

Consultant : Hyder Consulting

Project Scope : The project calls for the construction of a small boat harbour in Ruwais, Abu Dhabi. The scope will include a quay wall, a roll-on, roll-off berth, a helipad, and an administration building.

Schedule : Nine pre-qualified contractors were invited to submit bids by 15th May 2005 for the construction contract. Contract is likely to be re-tendered.

18. Project Title : JEBEL ALI CONTAINER TERMINAL – STAGE 1

Project Value : US\$68 million (Dhs.251 million)

Client : Dubai Ports Customs & Free Zone Corp. (DPCFZC)

Project Manager : Parsons International

Consultant (Masterplan) : Han Padron Associates

Consultant (Supervision): Scott Wilson (UK)

Main Contractor : Hyundai Engineering & Construction

Project Scope : The project calls for the construction of about 2.8 km of pre-cast quay wall, located 200 meters offshore and running parallel to an existing breakwater. The stage 1 of the new Jebel Ali container terminal project covers eight 350-metre-long container berths, with an alongside depth of 17 metres.

Schedule : The client issued an invitation to bid for the stage 1 of the project to contractors in April 2005. Bid submission was on 11th of June 2005. Completion is expected in 2008. Pre-qualifiers for the project were Dutco Balfour Beatty, Bel Hasa Six Construct, Murray & Roberts Contractors, Interbeton and Archirodon Construction. Reclamation on the project is completed. Bids went in on 11th June 2005.

The bidders were: Archirodon Construction (Overseas), Bel Hasa Six Construct, Dutco Balfour Beatty, Hyundai Engineering & Construction, Larsen & Toubro, Murray & Roberts Contractors, Interbeton, Overseas AST, and Odebrecht. Hyundai Engineering & Construction Co. submitted the lowest bid.

Fresh prices were submitted on 13th August 2005 for a re-bid on the project. Hyundai Engineering & Construction Co. has again submitted a low bid at Dhs.251 million. Bel Hasa Six Construct followed at Dhs.259 million. The other bidders were Archirodon Construction, and Murray & Roberts Contractors with Interbeton.

Hyundai Engineering was awarded the construction contract on 20th of August 2005. Scott Wilson is appointed as the design and supervision consultant in September 2005. Project duration is 24 months.

Remarks : Capacity is expected to reach 5.7 million TEUs by late 2005 with the completion of another expansion. In 2008, the capacity of the port will be up 8 million-9 million 20 foot equivalent units. Han Padron Associates is part of the UK's Halcrow.

19. Project Title : MARINA AT MISNOAH ISLAND

Project Value : US\$ million (Dhs. million)

Client : Dept. of Municipalities & Agriculture-Abu Dhabi

Consultant : Halcrow International

Main Contractor : Ghantoot Transport & General Contracting

Project Scope : The project calls for the construction of a marina in Abu Dhabi's Misnoah Island.

Schedule : The project was tendered among contractors on 8th of June 2005. Bid submission was on 25th of June 2005. Main construction contract is bagged by Ghantoot Transport & General Contracting Est. in February 2006. Project duration is 18 months.

Remarks : Construction Tender No.48/2005.

20. Project Title	:	NEW QUAY IN RAS AL KHAIMAH PORT
Project Value	:	US\$9.54 million (Dhs.35 million)
Client	:	Ras Al Khaimah Customs & Ports Dept.
Consultant	:	Gibb Limited
Main Contractor	:	Athena SA Marine Works
Project Scope	:	<p>The project calls for the construction of a quay to increase the port's draught in Ras Al Khaimah. The project will be implemented in two phases.</p> <p>The first phase will see the construction of a 307-meter quay and increasing the draught of the port to 10 meters. The second phase is the expansion of the quay by 500-meters to more than 800 meter.</p>
Schedule	:	Tender for the main contractor was issued on 5 th February 2005. Project was awarded to contractor on 19 th June 2005. Contract duration is 275 days. Mobilization started in July 2005.
Remarks	:	The development will enable the port to handle vessels of up to 30,000 tonnes.
21. Project Title	:	JEBEL ALI CONTAINER TERMINAL – DREDGING PACKAGE
Project Value	:	US\$503 million (Dhs.1,850 million)
Client	:	Dubai Ports Customs & Free Zone Corp. (DPCFZC)
Consultant (Masterplan)	:	Han Padron Associates/Scott Wilson
Main Contractor	:	Jan de Nul
Project Scope	:	The contract calls for the dredging of 22 million cubic metres of materials for the new container terminal project in Jebel Ali.
Schedule	:	<p>Tender for the dredging contractor was issued in June 2005 with bid submission date on 25th July 2005. Bids were submitted on 8th August 2005 for the contract. Bidders included Dredging Int'l, Jan de Nul, Van Oord, Royal Boskalis Westminster, Great Lakes Dredge & Dock, China Harbour Engineering Co., Archirodon Construction, Hyundai Engineering & Construction Co., and National Marine Dredging Co.</p> <p>Three contractors were requested to submit fresh bids by mid-September 2005. The three contractors were Van Oord Gulf, Jan de Nul, and Royal Boskalis Westminster.</p>

Jan de Nul bagged the dredging contract in October 2005. Completion of the work is expected by end of 2007.

Remarks : Pre-qualifiers for the dredging contract were Archirodon Construction, China Harbour Engineering, Dredging International, Hyundai Engineering & Construction Company, Jan de Nul Dredging, National Marine Dredging Company, Royal Boskalis Westminster and Van Oord Gulf FZE.

22. Project Title : AL JAZEERAH AL HAMRA PORT EXPANSION

Project Value : US\$ million (Dhs.million)

Client : Ras Al Khaimah Customs & Ports Dept.

Project Background: Ras al-Khaimah is planning to invest Dhs.3,670 million (\$1,000 mn) to expand the emirate's port infrastructure.

Project Scope : The project will primarily focus on developing container and cargo facilities at Al-Jazeerah al-Hamra port in Ras al Khaimah as well as acquiring more handling equipment and increasing the depth of the approach channel to eight metres.

Schedule : Project is in its early planning stages. Detailed time schedule is yet to be established.

Remarks : RAK emirate will also expand Mina Saqr, Ras al-Khaimah port and Ras al-Darah port in a bid to increase capacity to 30 million tonnes a year (t/y) from 7 million t/y.

23. Project Title : CALM BUOY AT MUBARRAZ OILFIELD

Project Value : US\$ million (Dhs.million)

Client : Abu Dhabi Oil Company (ADOC)

Main Contractor : Bluewater Energy Services (Holland)

Project Scope : The aim of the project is to install a single point mooring calm buoy at the Mubarraz Oilfield. The contract also includes the supply and installation of a pipeline and manifold, telemetry system and related facilities. The calm buoy will be designed to serve 330,000-dwt tankers.

Schedule : The engineering, procurement and construction (EPC) contract was awarded to Bluewater Energy Services in July 2005. Completion is expected by mid-2006.

24. Project Title	:	<u>QUAY WALLS AT MINA SAQR PORT</u>
Project Value	:	US\$ million (Dhs. million)
Client	:	Kuwait Gulf Links Ports International (KGLPI)
Consultant	:	Halcrow
Main Contractor	:	China Harbour
Project Background:		The project is part of the government's \$1,000 million investment programme over the next year to expand the emirate's port infrastructure.
Project Scope	:	The project aims at the construction and strengthening of quay walls at the Mina Saqr Port in Ras Al Khaimah. The scope of works includes construction of a 638 meter long new quay wall at berths 8 and 9, dredging and filling behind the quay walls, and strengthening of quay walls 1 to 3.
Schedule	:	The client invited contractors to bid by 17 th November 2005 for the main construction contract. Project completion is expected in April 2007. China Harbour was awarded the main construction contract in early-January 2006. Contract duration is 460 days.
25. Project Title	:	<u>ENTRANCE HARBOUR AT SAMALIA ISLAND</u>
Project Value	:	US\$4.4 Mn (Dhs.16 million)
Client	:	Dept. of Municipalities & Agriculture-Abu Dhabi
Consultant	:	Conseco International Ltd.
Project Background:		Project is part of the Samalia Island Development project (Ref:UM007 & UM077)
Project Scope	:	Project calls for the construction of an entrance port at the Samalia Island, Abu Dhabi.
Schedule	:	Tender for the contractor was issued in September 2005. Bids were opened on 24 th October 2005. Abu Dhabi based Interbeton N.V is the lowest bidder at Dhs.15.28 million followed by China Engineering Co. at Dhs.17.54 million and Six Construct at Dhs.22.89 million. Contract is expected to be awarded in the 2 nd quarter of 2006.
Remarks	:	Construction Tender No.105/2005.

26. Project Title : QUAY WALL AT FUJAIRAH PORT

Project Value : US\$ million (Dhs. million)

Client : Port of Fujairah

Consultant : Mott MacDonald

Project Scope : The project involves construction of a 1.5 kilometer quay wall at the Fujairah Port. The new quay wall will have an alongside depth of 15 meters and will be constructed along one of the port's breakwaters.

Schedule : Bids were due for submission on 3rd December 2005 for the design and build contract. Bidders are expected to include Archirodon Construcion, Athena, China Harbour Engineering Co., Essar, Six Construct, and Tidal Marine. Bids are still under evaluation.

27. Project Title : MARITIME CITY AT HAMRIYAH FREE ZONE

Project Value : US\$ million (Dhs. million)

Client :

Consultant : Halcrow

Project Scope : The Maritime City project at Hamriyah Free Zone involves the development of facilities from marine services and dry docking to shipbuilding, designing and maintenance of vessels. The development will also cater specifically to marine infrastructure related to oil and gas sector, including maintenance and building. The scheme will cover an area of about 5 million meters.

The first construction packages will include new quays and berths, a new road network, basic infrastructure, and extensive dredging work.

Schedule : The project will have 18 months duration once started. Halcrow is currently working on the master plan.

28. Project Title	:	<u>MARINE WORKS AT LAYYAH POWER STATION</u>
Project Value	:	US\$ million (Dhs. million)
Client	:	Sharjah Electricity & Water Authority (SEWA)
Project Scope	:	The project entails land reclamation works and sea wall construction at Layyah power station. The scope of works calls for the removal of an existing breakwater, the reclamation of 6.5 hectares of land and the construction of a new 550-metre-long breakwater along the power station boundary.
Schedule	:	SEWA has invited companies to bid by 21 st January 2006 for the main construction contract. Bids are under evaluation. Main construction contract is likely to be awarded in April 2006.
29. Project Title	:	<u>KHALIFA PORT AND INDUSTRIAL ZONE IN ABU DHABI</u>
Project Value	:	US\$2,180 million (Dhs.8,000 million)
Client	:	Mubadala Development Co./Abu Dhabi Seaport Authority/HCSEZ
Project Scope	:	The project calls for the development of a port and industrial zone in Taweelah, Abu Dhabi. The scheme will include a container handling terminal and piers for handling raw and bulk cargoes. The project will be designed and developed to the highest international standards and will be capable of handling the largest types of ships. The development also entails an industrial estate along with ancillary and supporting commercial and residential developments.
Schedule	:	The 1 st phase of the project is expected to be completed in 5 years. Master planning for the project is currently underway.
Remarks	:	The project will eventually replace the Mina Zayed which will be used for real estate developments.

30. Project Title	:	EXPANSION OF KHOR FAKKAN PORT – PHASE 2
Project Value	:	US\$ million (Dhs. million)
Client	:	Sharjah Ports and Customs Authority
Project Scope	:	Project calls for the phase 2 expansion of the Khor Fakkan port. The expansion will involve adding another 400 meters to the facility. Under the new expansion plan, 4 new giant cranes will be erected, taking the total number of cranes at Khor Fakkan to 18.
Schedule	:	Negotiations between Gulftainer and Sharjah Government for the project are underway.
Remarks	:	The operator of the port is Gulftainer Company.

5.4 APPENDIX D: MAJOR UAE RAILWAYS & MONORAIL PROJECTS

1. Project Title	:	DUBAI LIGHT RAIL PROJECT
Project Value	:	US\$3,897 Mn (Dhs.14,300 million)
Client	:	Dubai Road Transport Authority (DRTA)
Consultants	:	Wilbur Smith and Associates (Initial study) Systra (Preliminary Eng. Study)
Main Contractor	:	Dubai Rapid Link (DURL)
Project Scope	:	<p>The rail network will comprise 2 lines- The Red Line and the Green Line.</p> <p>The Red Line will initially run from Salahuddin Road to the American University of Dubai through Bur Juman and Sheikh Zayed Road and will later be extended to Jebel Ali Port in the south and the intersection of Al Nahda and Damascus roads through Al Qiyadah intersection in the north.</p> <p>The Green Line will run between Al Ittihad Square and Rashidiya bus station via Deira City Centre and the Airport Terminals 1 and 3 and will be extended to serve the Deira and Bur Dubai central areas up to BurJuman and Waif shopping centers.</p> <p>The total length of the rail line will be 70 Kms. There will be 55 stations in all. 35 along the 50 km long Red Line and 22 along the 20 Km Long Green Line. 2 transfer stations will</p>

be at Al Ittihad Square and Burjuman. An extension of the Green Line from Wafi to the festival city is currently under study. The two lines will partly run underground in the heart of the city. The Red Line from the intersection of Sheikh Rashid and Sheikh Khalifa Bin Zayed roads to just before the intersection of Salahuddin and Abu Bakr Al Siddique roads. The Green Line runs from Garhoud to Oud Metha Road. The project will have 18 kms of tunnels, 51 kms of viaduct, one major train depot and several stabling facilities.

The project will also involve the construction of 2 bridges across Dubai creek.

The project is being designed to transport around 43,000 passengers per hour in each direction. This capacity is expected to increase to around 50,400 passengers later on. The number of trains that are required to handle the expected volume of passengers is 99 trains with 5 compartments. The electric train will be environment friendly with no noise pollution and will be of a streamlined design.

Phase 1 (AED6,500 -7,000 million; US\$1,800-US\$1,900 million) calls for the construction of two light transit lines over 70kms, of which about 30% will be underground.

Schedule : US' Wilbur Smith & Associates completed the technical feasibility study towards the end of 2nd quarter of 2002.

In June 2002, Dubai Municipality invited local and international consultants to pre-qualify for the preliminary engineering study contract by 15th Aug' 2002. Upto 20 companies have applied to prequalify for carrying out the preliminary study. The study is to be completed in 12-18 months. Ten International companies have been pre-qualified during Nov' 2002 to submit technical and financial bids by 15 Dec' 2002 for the contract to carry out the preliminary engineering study. 7 international companies have submitted bids in Dec' 2003 for carrying out the preliminary engineering study (See Remarks). 4 firms have been short-listed for doing the preliminary engineering study (See Remarks). Systra, a French company has been awarded, in Mar' 2003, the contract to carry out the preliminary engineering study for the project. Once the study is over, the firm will prepare the tender documents for the various construction packages (For other consultants involved with the project and their roles see remarks).

In Sept' 2003 the Dubai government set up higher committee for overseeing the project. The committee is entrusted with regulating all necessary strategies, plans and programmes for carrying out the project. The committee will undertake responsibility for the financial, legal, administrative, technical and procedural aspects of the project.

Request for prequalification (RFQs) for the final design and construction for the project was submitted on 1st June 2004. 5 groups of companies are pre-qualified for the first phase of the project. They are: Saudi Binladin Group with Siemens and Dywidag; Brazil's Odebrecht with Bombardier of Canada; the group of Bilfinger, Taisei Corp., Six Construct and Alstom; Vinci (France), CCC, AnsaldoBreda and Hochtief (Germany); and a group of Obayashi Corporation, Mitsubishi Electric and Yapi Merkezi. Out of the original 5 prequalifiers for the 1st phase of the project, the group led by Vinci has withdrawn from the project. However, AnsaldoBreda which was part of the Vinci group is still competing for the train supply contract.

Tender for the phase 1 (AED6,500 -7,000 million; US\$1,800-US\$1,900 million) of the project was issued in the 1st week of Aug' 2004. 5 international groups, each consisting of a rolling stock supplier, are pre-qualified to bid for the final design, construction and equipment supply contract, the value of which is more than US\$1,800 million.

Technical bids for the 1st phase (AED6,500 -7,000 million; US\$1,800-US\$1,900 million) rolling stock and electromechanical parts were submitted on 1st Nov' 2004. The rolling stock will comprise fully automatic, driverless trains.

Technical bids for the underground civil works package were originally due to be submitted by the end of Nov' 2004, but has been extended to 3rd Jan' 2005.

Technical bids for the overground civil works contract were due to be submitted in the last week of Dec' 2004.

Bidders for all the 4 main packages were given until 31st Jan' 2005 to submit their proposals for the civil works package and commercial offers. The overall commercial bids were due to be submitted on 28th Feb' 2004. The successful bidder will have to carry out works such as

tunneling, construction of stations, depots and line facilities, MEP works and relocation of some public utilities.

The elevated section of Phase I is expected to be completed on 31st Jan' 2009. The municipality is considering various options to speed up the execution of the project, including bringing forward the construction date of the second phase of the project, which was originally scheduled to commence on completion of the 1st phase and to be completed fully in the year 2012. Also, according to current plans the contractors of phase I will also carry out phase II but in order for quicker completion the municipality can issue a different tender for phase II and appoint a different contractor.

For the 1st phase, the consortium led by Mitsubishi known as Dubai Rapid Link (DURL) submitted the lowest bid at Dhs. 6,285 million. Dubai Star came second at Dhs. 8,854 million followed by Salsabeel at Dhs.8,922 million and Metron One at Dhs.10,000 million.

Dubai Rapid Link (DURL) was awarded the Dhs.12.45 billion construction contract for the 1st and 2nd phases in May 2005. The consortium also won a Dhs.1.88 billion contract to carry out the maintenance of the project for 15 years. The prices quoted by the other consortiums for the 2 phases are Dhs.18.26 billion by Dubai Star, Dhs.18.84 billion by Salsabeel and Dhs.19.29 billion by Metro One. The contract signing, which was scheduled on 25th June 2005, took place on 6th August 2005.

The project is to be constructed in two phases within a period of 55 months. Phase is will take 49 months, and phase two 35 months. Phase two will be started 20 months into phase 1. Construction on phase 1 is scheduled to commence in July 2005 with both phases set for completion by July 2009.

In June 2005, Llewelyn Davies (US) was selected as the lead architect to design the 30 stations on the project. Capita Symonds (UK) is the lead engineer and project manager. Kellog Brown & Root (KBR) of US is providing the tunneling engineering advice. Systra with Parsons is appointed as the program manager. In June 2005, France' Alcatel was awarded a US\$250 million contract to provide communications infrastructure for the metro system.

Kinkisharyo (Japan) received an order in August 2005 valued at about Dhs.1,670 million to provide 385 trains for the project. 20 trains will be shipped to Dubai from Japan each month from 2008-2009, while production for the second phase of delivery will begin at the same time.

In Sept' 2005, National Central Cooling Co. (Tabreed) has been selected to provide district cooling to the project. Under the Dhs.3,000 million contract, Tabreed will provide initial cooling with a capacity of 36,000 tonnes for 45 metro stations, passageways and carriageways. The capacity will rise to 350,000 tonnes once the project is completed.

In mid-November 2005, the client is expected to issue a tender for the operation of the Dubai Light Rail Transport. Five companies are expected to be invited for the operations contract which is likely to run for 15 years. A tender for an independent safety assessor is also expected by end of 2005.

Banks were requested to submit proposals by 27th November 2005 to fund the project. A 3-week extension was granted to the banks to submit the proposals. Jumeirah Capital is the financial adviser on the project.

DURL short-listed 3 companies for the viaduct piling works on the Dubai Light Rail transit scheme. Short-listed companies are Al Habtoor Engineering Enterprises/STFA Soil Group, Bauer (Germany), and Forasol International (Switzerland). The works are split into 3 phases and involve piled foundations at 30-meter intervals along the elevated sections of the rail network.

Forasol and Bauer bagged the viaduct piling contracts in late-January 2006. Forasol is awarded section 1 which runs from Dubai International Airport to the Port Saeed area, and section 2 which runs from Burjuman Center to Al Manara near interchange 3 on Shaikh Zayed Highway. Bauer is awarded section 3 which continues along the highway to Jebel Ali.

A joint venture of Middle East Foundations and Sambo (South Korea) is also awarded the foundations package for 2 stations: Port Saeed and Union Square Station. France's Intrafor (Bouygues) has also been awarded the foundations package for the Burjuman Station.

Arabian Mix and Arabian Forasol Ready Mix is also awarded the estimated Dhs.350 million contract to supply 1.3 million cubic meters of ready mix concrete for the entire project.

Systra and Parsons Int'l are overseeing the construction for Dubai Road & Transport Authority.

Remarks:

Full funding for the project will be provided by Dubai Municipality. Originally, the bidding consortia was responsible for arranging 90% of the project finance for phase I while the municipality would be responsible for the remaining 10 %. The decision was taken in order to execute the project on a fast track basis.

The revised costs for the whole project are presently estimated at AED 14.3 billion.

Bidding Consortia for the contract works are:

1. Dubai Star Consortium - Bilfinger & Berger (Ger) with Taisei Corp. (Japan), Six Construct (Belgium), Al Habtoor Eng. Ent. (local), Orascom Construction Industries (Egypt) and Alstom (France)
2. Dubai Rapid Link (DURL) - Obayashi Corp. and Kajima group (Japan) with Yapi Merkezi (Turkey) and Mitsubishi Electric (Japan). The consortium was previously known as Dubai Rapid Rail Transit.
3. Metro One - Bombardier (Canada) with Arabtec Construction (local), Guris (Turkey), Parsons International (US), Ghella (Italy) and Oderbrecht (Brazil),
4. Salsabeel Consortium - Saudi Binladin Group with Hill International (US), Siemens (Ger), Dywidag Systems International (Ger) and CITEC (China).

The feasibility studies on the project are estimated to have cost AED 46.5 million. Each Km of track is expected to cost around AED 100 million, but this will be less when the track is at the ground level or underground.

The pre-qualifiers for the study are Parsons Brinckerhoff International, Wilbur Smith & Associates, Parsons International, Lea & Elliot, Louis Berger International, Systra, Tonichi, Halcrow and Lahmeyer and an unidentified Singaporean firm. The bidders for the study were: Halcrow,

Lahmeyer with Parsons Brinckerhoff International, Parsons International with Wilbur Smith & Associates.

The companies short-listed for the preliminary engineering study are Systra, Scott Wilson Kirkpatrick, Louis Berger International and MSI.

The other consultants that will assist Systra on the project were as follows:

Dar Al Handasah (Shair & Partners);

MVA (Systra subsidiary):- will be responsible in modeling traffic, reorganization of bus lines and pricing aspects;

RSM Salsustro- Reydel:- Advice on financial aspects and contractual agreements for construction works;

AREP:- Architecture;

B+M Architecture:- Construction of viaducts and bridges.

Dubai Municipality announced in March 2005 its plan to add a third line to its metro system once the red and green lines are ready in 2012. The blue line will connect Dubai and Jebel Ali Airport while serving the terminals in between.

2. Project Title : MONORAIL PROJECT ON THE JUMEIRAH PALM ISLAND

Project Value : US\$390 million (Dhs.1,431 million)

Client : Nakheel Corp.

Project Manager : Parsons Brinckerhoff

Consultant (Prelim. Study): Wilbur Smith and Associates (USA)

Main Contractor : Hitachi Corporation/Marubeni/Mitsui/Obayashi

Project Scope : Project entails construction of a monorail network on the Jumeirah Palm Islands in Dubai. The rail network will be 10 kms. It will run from the mainland and across the Palm. Stations are planned at the Palm's base, the palm tower, village center and the theme park that is to be constructed on the crescent of the island (Ref:UUD491). 2 medium sized stations will be built at the mid point of the island's trunk and a small station is planned on the spine. Four

major stations are planned at the base. Each train will have a capacity of 200 passengers seated and standing.

Schedule : Tender for the main contractor issued in the 4th quarter of 2003. Bid submission date was on 13th Dec' 2003, but was extended to the last week of Jan' 2004. Bid submission date on the project was once again extended to the last week of Feb' 2004. Bidders of the project were asked to submit final clarifications by mid Nov' 2004. The contractor will design, build and supply equipment for the project. In addition, the contractor will provide rolling stock and maintain the rail system for 5 years. Project duration is one year.

Fresh prices were submitted in July 2005 after initial bids came in well above the budget. Companies who submitted revised prices are Intamin, Mitsubishi Corp with Sembcorp, Monorail Malaysia, Hitachi Corp., Marubeni Corp., Mitsui Co., and Obayashi Corp.

The consortium lead by Hitachi Corporation has signed a letter of intent in September 2005 for the turnkey contract to design, build and equip the project. The consortium includes Marubeni Corporation, Mitsui & Company, and Obayashi Corporation. The contract duration is 33 months.

Remarks : The 3 companies short listed for the turnkey construction contract are: Monorail Malaysia, Intamin Transportation (Switzerland) and Hitachi Corp.

9 contractors and equipment suppliers have been invited to participate in the project. These companies include: Hitachi Corp., Monorail Malaysia, Intamin Transportation, EBC, American Maglev, Severn Lamb, Mitsubishi Electric Corp., Marubeni Corp., VWD and Siemens.

The client opted for the Hitachi-lead consortium due to its preference for a driver-led monorail system held on steel beams rather than the automated transport system (ATS). The consortium will also provide rolling stock and maintain the facility for five years.

3. Project Title : **MONORAIL IN CITY OF ARABIA,DUBAILAND**

Project Value : US\$164 million (Dhs.600 million)

Client : Ilyas & Mustafa Galadari Group

Project Manager : Hill International

Consultant (Infrastructure): Hyder Consulting

- Consultant** : Palm & Turner (Hongkong)
- Project Background:** Project is part of the Downtown development (UUD581) in the Dubailand Project (UUD499).
- Project Scope** : The City of Arabia shall be a combination of 4 major projects. These are: Restless Planet (Ref: UUD599), Mall of Arabia, Wadi Walk and Elite Towers.

Restless Planet: please see Ref:UUD599 for details.

The Mall of Arabia: is expected to be one of the largest shopping malls in the whole world (10 million square foot). The mall will have 4 levels and be built to resemble ancient Middle Eastern architecture. The mall will be host to the best international brands and will offer the latest and most modern leisure and entertainment facilities. The project will also consist of a state of the art stage for theatrical performances and a world class spa. It will also include hotels. Refer UUD750 for more details.

Wadi Walk: the Wadi Walk will be an urban community developed next to a creek. The commercial development will consist of retail shops and elegant outdoor cafes. Refer UUD751 for more details.

Elite Towers: The mixed use development shall consist of 34 high rise towers offering commercial and mixed use towers. The towers will offer grand views of the entire Dubailand development.

The entire city will be linked by a monorail and waterways.

- Schedule** : Pre-qualifications started for the civil works contract on the automated people mover project. The contract involves the construction of all associated civil, mechanical and electrical works, including 6.8 kilometers of tract viaduct, 14 stations and a maintenance depot. The scope will also include an interchange at the Mall of Arabia that will eventually link the system into Dubai Light Rail's proposed blue line which will connect Dubai International Airport and the new Jebel Ali International Airport.
- MTrans (Malaysia) and Bombardier (Canada) are competing for the estimated Dhs.587 million contract to build the 16km long monorail at the City of Arabia. Award is expected in April 2006.

Remarks : Dubailand is preparing to issue tenders in January 2006 for a system that will link Dubailand's main attractions. Systra (France) is the consultant. Additional links to Dubailand from Dubai Light Rail are also being considered. The plans include a spur line to link Dubailand and Bur Dubai.

4. Project Title : **CIRCULAR RAIL SYSTEM IN ABU DHABI**

Project Value : US Mn (Dhs. million)

Client : Abu Dhabi Municipality

Project Scope : Project calls for the development of a rail system in Abu Dhabi city. The proposed system is expected to circle the city and cover all the important areas. It is planned to introduce a train with 12 coaches. The train is expected to make a round trip in 30 minutes with a stop in between stations every 3 to 5 min. on an average. The length of the railway will be 12 km and it will have 19 stops.

Schedule : Project is in the early stage. An in house study has recently been conducted by the municipality.

5. Project Title : **GCC RAIL NETWORK**

Project Value : US\$5,500 (Dhs.20,185 million)

Client : Governments of GCC

Project Scope : Project calls for the construction of a railway network that would link the 6 GCC countries with each other. If implemented the length of the rail line will be thousands of kilometers in length. Various routes for the rail line are under consideration. Existing rail networks in various countries can be upgraded to join the common network. The project can help increase trade activities among the countries.

Schedule : The project had been in the pipeline for a long period but it was only in the last 2 years that more serious attention has been paid to the project. Various studies regarding the project has been completed and an action plan has also been developed. The GCC technical coordinating committee is already started preparing to issue a tender of a full feasibility study on the project. At least 15

international consultants are understood to be pre-qualified for the contract which is expected to take at least 12 months to draw up. The study will evaluate several elements including route alignments, the extrapolation of topographical and statistical data, creation of a legal model, passenger and flight configuration, port integration and financing and development options. Once completed, it will create a framework for the next stage. Completion of the scheme is expected to take at least 6 more years.

The signal to go ahead with the commissioning study was given in October 2004 during a meeting of GCC transport ministers in Kuwait but was only recently revived. The scheme's preliminary study, completed 2 years ago by Parsons Brinckerhoff and Global Investment House proposed 2 routes for the network. The 1st runs from Muscat through UAE and Saudi Arabia before terminating in Kuwait. The other option includes incorporating both Qatar and Bahrain into the network. This route is more expensive but offers a higher rate of return.

Remarks : Co-ordinating with the varying demands of 6 different countries will be one of the projects obstacles, but as was proved with the GCC electricity grid, regional government can overcome these challenges if the project can be shown beneficial for all.

6. Project Title : **MONORAIL LINE BETWEEN DUBAI & JEBEL ALI AIRPORTS**

Project Value : US\$3.40 billion (Dhs.12.5 billion)

Client : Department of Civil Aviation

Project Scope : The project aims at establishing a fast track underground metro line to link Dubai International Airport and the proposed airport in Jebel Ali.

The proposed project is an option to provide fast, efficient and safe transit between the airports to transfer passengers in less than five minutes.

Schedule : The project is under study.

7. Project Title	:	<u>MONORAIL AROUND BURJ DUBAI</u>
Project Value	:	US\$ Mn (Dhs. million)
Client	:	Emaar Properties
Project Scope	:	Emaar Properties is planning to construct a 1.3 kilometer monorail around the Burj Dubai development. The monorail will link Dubai Mall and the Dubai light rail system.
Schedule	:	The project is in its concept stage. The client is evaluating proposals from consultants for a small scale dual-technology internal transport system for Burj Dubai Development. Tramway network, water taxis and shuttle services are among the choices being considered. Once the technology is selected, the contractor will work on a full scale feasibility study on the project.
Remarks	:	<p>The project, if realized will be the third monorail to be built in Dubai after Dubai LRT project and the Palm Jumeirah monorail projects.</p> <p>The project is planned out of a need to shuttle visitors in and out of the Burj Dubai district in an efficient way. When completed, as many as 40 million people could visit Dubai Mall annually.</p>
8. Project Title	:	<u>PRT NETWORK IN DIFC</u>
Project Value	:	US\$ million (Dhs. million)
Client	:	DIFC Development Co.
Project Scope	:	<p>The project involves construction of a 1.2 kilometer long personal rapid transit (PRT) system in the Dubai Financial Center.</p> <p>The system is based on dozens of small four-six passenger driverless vehicles supported by lightweight guide-ways. It is fully automated with traffic fully computer-controlled, transporting passengers between DIFC Buildings. The network will not connect directly with the planned Dubai LRT, but it is likely to be connected to the station by express moving walkways.</p>
Schedule	:	Project is still in its early conceptual stage.

9. Project Title	:	<u>EMIRATES RAILWAY PROJECT</u>
Project Value	:	US\$ million (Dhs. million)
Client	:	Abu Dhabi Department of Planning & Economy
Project Scope	:	<p>The project involves the establishment of an inter-emirate rail network that will run from Abu Dhabi to Fujairah. The rail network will be 700km long.</p> <p>The 1st phase of the project would be for cargo and container network followed by passenger network in the 2nd phase.</p>
Schedule	:	<p>The all-German consortium of Dornier Consulting, Deutsche Gesellschaft fur Technische Zusammenarbeit (GTZ) and DE-Consult has completed a pre-feasibility study for the proposed project. The same consortium is now undertaking a second stage study on the project which is due to be completed in September 2006. Pre-feasibility study determined that the network will extend from Ruwais through Mussafah, past Abu Dhabi City and up to Jebel Ali and Dubai. The line will fork in Dubai with one branch leading to Fujairah in the east and the other running through Sharjah, Ajman, and Umm Al Quwain to Ras Al Khaimah in the north. The second stage study entails the technical details such as routing of the rail lines and whether diesel or electric powered rolling stock will be used. Completion of the rail network is expected between 2012 and 2015.</p>

5.5 APPENDIX E: ISSUANCE OF LICENSE IN ABU DHABI

Law NO. 5 Executive By-Law No.(29) Of 1999

Issuance In Implementation Of The Provisions Of Law No.(5) Of 1999 Concerning The Issuance Of License In The Emirates Of Abu Dhabi

- 1 Definitions**
 - 2 General Provisions**
 - 3 Licensing of Companies, Branches & Foreign Company Branches**
 - 4 Licensing of Proprietorship & Branches**
 - 5 License Issuance & Renewal**
-

1- General Provisions

License Term
Sale & Mortgage of Trading Place
License Modification
General Trading
Representation of Companies
Capacitated Applicant

2-Licensing of Companies, Branches & Foreign Company Branches.

Licensing of Companies.
Licensing of company Branches
Licensing of Foreign Company Branches

3- Licensing of Proprietorships & Branches

ARTICLE (11)
ARTICLE (12)
ARTICLE (13)

4-License Issuance & Renewal

ARTICLE (14)

ARTICLE (15)

ARTICLE (16)

Definitions

ARTICLE (1)

In implementation of the provisions of this by-law, the following terms and wordings shall have the meanings as stated on their right-hand side:

- 1 Concerned authority: Abu Dhabi Municipality & Town Planning Department.
- 2 Chairman: Chairman of Abu Dhabi Municipality & Town Planning Department
- 3 Licensing Department: the department concerned with licensing economic activities at the concerned authority.
- 4 The Law: Law No. (5) Of 1998 concerning the issuance of licenses in the Emirate of Abu Dhabi.
- 5 Commercial Company Law: Federal Law No. (8) Of 1984 concerning commercial companies and the amending laws thereof.
- 6 Commercial Procedures Law: Federal Law No. (18) Of 1993 concerning the issuance of the Commercial Procedures Law.
- 7 Civil Code: Federal Code No. (5) Of 1985 concerning the issuance of the UAE Civil Code.
- 8 Firm: The involved company or proprietorship.
- 9 Agricultural License: That license usually issued in favor of agricultural, fisheries and livestock farms, where manufacturing industries are based to produce profitable products.
- 10 Industrial License: That license usually issued in favor of all factories of manufacturing or productive industries in general.
- 11 Trade License: That license usually issued in favor of companies and proprietorships exercising trading businesses in accordance with the definition of Trading Businesses provided in the Commercial Procedures Law mentioned herein above.
- 12 Professional License: That license usually issued in favor of professional persons who depend on their mental and intellectual potentials or on their studies and scientific talents. among such persons are consultants, physicians, lawyers and so on...).
- 13 Vocational License: That license usually issued in favor of whomever independently practicing a profitable vocation or a craft relying on his own physical capabilities or with the aid of other tools or equipment. Such a craftsman may either do business alone or along with not more than five workers.

General Provisions

License Term-Sale Of Trading Place

General Trading-Representation Of

Companies-Applicant Capacity

License Term

ARTICLE (2)

The first term of a trade license shall be one Anno Domini year. However, it may be renewed upon the applicant's request for a further term of one, two or three Anno Domini years starting

From the date of renewal issue, which shall remain subject to the following terms and conditions:

- Applicant must submit a lease contract involving the place subject matter of renewal.
- 1 The contract must be still valid for the whole period required for renewal or for a period as deemed appropriate by the concerned authority.
 - 2 Duly paid-up fees covering the whole period of requested renewal.
 - 3 The concerned authority shall have the right to refuse renewal for more than one Anno Domini year as long as it deems that a renewal for one year is sufficiently conforming the size of the establishment in question or for other considerations as per its discretion. The concerned authority's decision in this regard shall be considered final.

Sale & Mortgage Of Trading Place

ARTICLE (3)

Without prejudice to the provisions of the Commercial Procedures Law, any disposition towards transferring the proprietorship of the trading place or Initiation of a right in-kind on its account shall have to be duly attested and authenticated before the Notary Public and duly registered in the Commercial Register. Otherwise, it shall be considered void. However, such a disposal shall include the following data and information:

- 1 Names, nationalities and place of residence of all signatories
- 2 The date and type of disposition.
- 3 The type and address of the trading place, as well as the elements or points included in the disposition agreed upon.
The values of corporeal and incorporeal elements in case the disposition's subject matter is the selling of the place. Also the already paid up portion (earnest money) paid at the time of contract and the pending balance value.
- 4 Agreements concerning contracts and obligations appertaining the trading place (if any).
- 5 Agreements according to which the seller's rights of rescission, termination or concession are reserved (if any).
- 6

Trading Place Selling Registration in the Commercial Register.

- 1 The concerned clerk at the Commercial Register shall, upon the purchaser's request and on his account, advertise a brief on the sale contract through two Arabic daily local newspapers. Advertising shall be made successively one after the other, with a period of one week in between.
The above mentioned brief shall include the signatories' names, nationalities and place of residence. It shall also state for the total value of the place and an authorization calling creditors to submit their objections within ten days from the date of the latter advertising.
- 2
- 3 Objections shall be presented before the concerned civil court where the trading place area is falling within its jurisdiction. Objections shall show the debit amount and subject matter.

- 4 Other terms and conditions shall be duly fulfilled in accordance with the provisions of the Commercial procedures Law.

License Modification

ARTICLE (4)

1- Except for the trading place mentioned in the previous article, any modification or amendment required to be introduced to a trading license (i.e. to the trade name, capital decrease, partnership abrogation, proprietorship transfer, change of services agent...) shall be made through an application submitted to the licensing department. A brief on the required amendment shall have to be announced on the applicant's account in one Arabic daily local newspaper for one time only.

2- If no objection to the requested amendment is received within one week from the date of publication, the amendment procedures shall be completed.

3- But, in case a concerned party has an objection to such amendment, his objection shall be supported by the following documents to denote the seriousness of the objection:

- * An official copy of a judicial judgment on a lawsuit involving the announcing company or proprietorship.
- * A certificate issued by the court of law to certify that a lawsuit on a case relevant to the company activity has been already brought before a UAE court of law.
- * An order on an urgent precautionary measure issued by one of the UAE courts of law concerned with urgent cases against such a company or proprietorship or any of its parties for a reason relating to its practiced activity.

4- Objection shall not be recognized in absence of the aforesaid supporting documents, or if it is made against one certain partner for a personal litigation having nothing to do with the activity of the involved company or proprietorship.

5- In all cases in which one of the aforementioned supporting documents is presented, the amendment procedures shall be suspended and shall not be continued unless upon giving the objection up or upon getting a court order from the court of law allowing such procedures to be continued.

6- The chairman of the concerned authority or whoever is duly authorized by him shall have the right to release applicants from the announcement mentioned in clause (4/1) herein before, provided that the applicant in question has justifiable reasons for such a release.

General Trading

ARTICLE (5)

Applicants requesting "General Trading" license shall have to meet the

following terms and conditions:

- 1 He must be a 100% national individual or firm.
- 2 His main office must be based in Abu Dhabi Emirate.
- 3 He must have been involved in the line of business activity in Abu Dhabi Emirate for six years at least.
- 4 That the capital of the company owned by the national is not less than six million UAE Dirhams.
- 5 That a contract between the company and a duly certified chartered accountant is already signed.
- 6 That the company is so structured to comprise technical, financial and managerial bodies

Representation Of Companies

ARTICLE (6)

Applicant requesting "Representation of Companies" license shall have to meet the following terms and conditions:

- 1 He must be a 100% national individual or firm
- 2 His main office must be based in Abu Dhabi Emirate.
- 3 He must keep an integrated financial and managerial body

Capacitated Applicant

ARTICLE (7)

According to the provision of article (18) of the Commercial Procedures Law:

- 1 Having no other prohibition by the force of law, whoever completed (21) Anno Domini years of age shall be capacitated to practice business activity.
An underage, whether being under guardianship or custodian ship, shall have the
- 2 right to practice business activities when he completes (18) Anno Domini years of age, provided that he is so permitted by the court of law, irrespective of that such a permission is absolute or restricted
- 3 National applicant partners or owners of a company or a proprietorship must, at the time of application, meet either clause (7/1) or (7/2) mentioned herein before.
- 4 Non-national applicant partners or owners of a profession or a vocation must, at the time of application, meet clause (7/1) mentioned herein before.

Licensing Of Companies, Branches & Foreign Company Branches

LICENSING OF COMPANIES

ARTICLE (8)

Terms and documents required for acquiring a company license:

- 1 Applicant company must adopt one of the types of companies provided in the UAE Commercial Company Law and the amending laws thereof
- 2 The company must have a trade name as approved by Abu Dhabi Chamber of Commerce & Industry.
Prior approval by respective competent authority is required for the practice of certain activities, i.e. (Ministry of Health for Physicians, Ministry of Economy & Commerce for certified accountants.. etc.)
- 3 Such approval shall remain valid over the whole period of a renewed license, unless the respective competent authority otherwise notifies the Licensing Department
- 4 Prior approval by the Executive Council is required for the practice of other certain activities.
A printed (typed) Company License Application Form prepared for the purpose by the
- 5 Licensing Department is to be completed in accordance with the exercised line of business activity.
- 6 A copy of a valid lease contract involving the office/shop intended to be the place of business activity, as per the provision of clause (2/1) herein before.
- 7 Copies of partners' passports, still valid at the time of application. Copies of Civil Status Extracts for UAE nationals.
- 8 Two passport photographs for each partner in the license.
- 9 A preliminary Sponsorship assignment (transfer) to be obtained from the previous sponsor. (For non-nationals only).
A duly authenticated Power of Attorney in favor of an authorized person, in case such
- 10 a person is required to subrogate the principal in respect of application submission and representation before the concerned authority.
- 11 A copy of the receipt certifying that the company has already taken the required steps towards the promulgation of its memorandum and articles of association in the special publication issued by the Ministry of Economy & Commerce.
- 12 Licensing fees shall be charged in accordance with those fixed in the relevant schedule annexed to the Law.

Licensing Of Company Branches

ARTICLE (9)

Terms and documents required for licensing a branch of a company

registered in Abu Dhabi City:

A Company Branch Application Form, duly signed by the concerned persons or their authorized person empowered to represent the company, must be submitted along with the following documents:

- 1 The company branch trade name as approved by Abu Dhabi Chamber of Commerce & Industry.
- 2 Other relevant registration and licensing forms prepared by the Licensing Department must be duly completed.
- 3 The decision taken by the involved company board of directors showing the company intention to open a branch in Abu Dhabi. The said decision must be duly signed by the concerned persons or their representative.
- 4 A facsimile of each of the following supporting documents: (trade license and the certificate of registration in the Commercial Register), which must be duly attested by the issuer in the respective emirate.
- 5 A facsimile of the company memorandum and articles of association, along with the receipt certifying that the memorandum has been duly promulgated through the Ministry of Economy & Commerce office at which the applicant company has been initially registered.
- 6 A copy of a valid lease contract involving the office/shop intended to be the place of business activity, as per the provision of clause (2/1) herein before.
- 7 A copy of a valid membership certificate issued by Abu Dhabi Chamber of Commerce & Industry.
- 8 A copy of the signature of the authorized person legally empowered to represent the company.
- 9 Licensing fees shall be charged in accordance with those fixed in the relevant schedule annexed to the Law.

3-Automatic abolition of a company branch license:

In implementation of the provision of article (45) of the UAE Civil Code according to which "the branch shall be dropped if the principal is dropped", a company branch license shall be automatically invalidated in case that of the mother company is abolished.

Licensing Of Foreign Company Branches

ARTICLE (10)

Without prejudice to the provisions of the UAE Commercial Company Law concerning the terms and conditions of licensing foreign companies, the terms and documents required for licensing a foreign company branch shall be as follows:

- 1 The decision taken by the applicant foreign company board of directors, showing the company intention to open a branch in Abu Dhabi. The said decision must be duly attested by the UAE embassy based in the applicant foreign company mother country.
- 2 Getting the company activity approved by the Licensing Department before getting that of the Ministry of Economy & Commerce.
- 3 The company must have a UAE services agent. In case the said agent is a company, the company and all partners in it must be holding the UAE nationality.

- 4 The obligations of a services agent vis-à-vis the company and other third parties shall be confined to rendering required services to the company without any liability or financial obligations relating to the businesses or the activity of the company branch whether inside or outside the state.
- 5 A facsimile of the authorization granted by the company to its legal representative in Abu Dhabi. Also, his signature authorization and a copy of his passport.
- 6 Except clauses (8/1, 8/7, 8/8, 8/10), all other terms and documents enlisted in article (8) herein before shall be passed on any foreign company branch.
- 7 Licensing fees shall be charged in accordance with those fixed in the relevant schedule annexed to the Law.
- 8 The license of a foreign company branch in Abu Dhabi shall be automatically abolished if the mother company abroad is proved to be insolvent, and/or closed and/or having its license already abolished

3-Licensing Of Proprietorships & Branches

ARTICLE (11)

Terms and documents required for licensing a proprietorship:

1- Prior approval by respective competent authority is required for the practice of certain activities, i.e. (Ministry of Health for Physicians, Ministry of Economy & Commerce for certified accountants... etc.)

Such approval shall remain valid over the whole period of a renewed license, unless the respective competent authority otherwise notifies the Department.

2- Prior approval by the Executive Council is required for the practice of other certain activities.

3- A proprietorship must have a trade name as approved by Abu Dhabi Chamber of Commerce & Industry.

4- A printed (typed) Proprietorship License Application Form prepared for the purpose by the Licensing Department is to be completed in accordance with the exercised line of business activity.

5- A copy of a valid lease contract involving the office/shop intended to be the place of business activity, as per the provision of clause (2/1) herein before.

6- A copy of the applicant valid passport, or the Civil Status extract (for UAE nationals).

7-Two passport photographs

8-A duly authenticated Power of Attorney in favor of an authorized person, in case such a person is required to subrogate the principal in respect of application submission and representation before the concerned authority.

9-A copy of a valid membership certificate issued by Abu Dhabi Chamber of Commerce &

Industry.

10-Non-national proprietorship license shall, additionally require to meet the following terms:

- * A copy of a contract with a national services agent regularly resident in Abu Dhabi Emirate. The said contract must be duly authenticated by the Notary Public and attached to a photocopy of the services agent's passport.
- * The services agent shall not be liable for any loss/obligations that might be incurred from the practice of the professional or vocational activity subject matter of the license according to which he is acting as agent.
- * The definition of a simple profession or vocation shall be specified in accordance with the schedule annexed to the by-law hereinafter.

11- Licensing fees shall be charged in accordance with those fixed in the relevant schedule annexed to the Law

4- Licensing Of Proprietorship Branch(Es)

ARTICLE (12)

1- Terms and documents required for licensing a branch of a proprietorship already registered in Abu Dhabi City:

A Proprietorship Branch Application Form duly signed by the owner or his authorized person empowered to represent the proprietorship, must be submitted along with the following documents:

- 1 Relevant registration and licensing forms prepared for the purpose by the Licensing Department must be duly completed
- 2 A copy of each of the following supporting documents: (trade license and the certificate of registration in the Commercial Register).
- 3 A copy of a valid lease contract involving the office/shop intended to be the place of business activity, as per the provision of clause (2/1) herein before.
- 4 A copy of a valid membership certificate issued by Abu Dhabi Chamber of Commerce & Industry in favor of the proprietorship branch.
- 5 Licensing fees shall be charged in accordance with those fixed in the relevant schedule annexed to the Law.

2- Terms and documents required for licensing a branch of a proprietorship registered in other UAE emirates:

A Proprietorship Branch Application Form duly signed by the owner or his authorized person empowered to represent the proprietorship in Abu Dhabi City must be submitted along with the following documents:

- 1 The proprietorship branch trade name as approved by Abu Dhabi Chamber of Commerce & Industry.
- 2 Other relevant registration and licensing forms prepared for the purpose of licensing a proprietorship branch by the Licensing Department must be duly completed.
- 3 A facsimile of each of the following supporting documents: (trade license and the membership certificate issued and attested by the concerned chamber of commerce & industry in the respective emirate).
- 4 A copy of a valid lease contract involving the office/shop intended to be the place of business activity, as per the provision of clause (2/1) herein before.
- 5 A copy of a valid membership certificate issued by Abu Dhabi Chamber of Commerce & Industry.
- 6 A copy of the signature of the authorized person legally empowered to represent the proprietorship, along with a photocopy of his passport.
- 7 Licensing fees shall be charged in accordance with those fixed in the relevant schedule annexed to the Law.

3- Automatic abolition of a proprietorship branch license:

In implementation of the provision of article (45) of the UAE Civil Code according to which "the branch shall be dropped if the principal is dropped", a proprietorship branch license shall be automatically invalidated in case that of the mother proprietorship is abolished.

Original Documents

ARTICLE (13)

The concerned employee at the Licensing Department shall have to make sure of the authenticity of submitted copies through comparison with original documents. The copies shall, thereafter, be signed and stamped as FACSIMILE by the said employee.

However, comparison with such original documents shall remain subject to what may be deemed necessary by the Licensing Department.

License Issuance & Renewal

License Issuance

ARTICLE (14)

A license shall be issued once all licensing terms provided for companies, proprietorships or branches through articles (8-12) herein before are duly fulfilled. Also, once all professional or technical licensing terms and requirements provided for professional or technical licenses are fulfilled as required by the ministries, departments and agencies concerned with licensing procedures.

License Renewal

ARTICLE (15)

1- A company or a proprietorship license shall be renewed without prior field (business place & warehouse) inspection procedures.

Such procedures shall be taken through follow-up by the competent authorities concerned with making sure of that a firm (company or proprietorship as to the case) is duly meeting the relevant terms and requirements at all times. A firm owner(s) or his (their) legal representative shall have to take the following steps:

1 Inquire by fax, addressed to the concerned Inquiry employee at the licensing department, about the fees covering the whole period of renewal he requires within the limits specified in the law. The said employee shall reply to the firm's fax number effected in the file of the inquirer firm informing of the would be charged renewal fees plus those of dispatching the renewed license by mail
The inquirer shall, thereafter, send an envelope by registered mail addressed to the Director of the Licensing Department. The envelope must show the license number and the trade name of the firm, and shall enclose the following documents:

1- A Renewal Application Form signed in conformity with the Signature Authorization deposited in the firm's file kept at the Department.

2- License renewal fees through a certified cheque made in favor of the concerned authority and payable as from the date of dispatch by registered mail.

2 3- A copy of a valid lease contract involving the office/shop intended to be the place of business activity, as per the provision of clause (2/1) herein before.

4- The original license subject matter of renewal.

5- A Commitment to be signed in conformity with the Signature Authorization deposited in the firm's file at the Licensing Department. The said Commitment must state that no modification whatsoever has been introduced to the firm's legal status, and that any such modification, amendment or change of address during the renewal period, shall be immediately reported to the Licensing Department.

3 Once all the terms and documents mentioned herein before are duly fulfilled, the concerned authority shall immediately renew the license and send it back by return registered mail to the post office box number, as effected in the file of the firm in question.

2- However, interested firms shall have the right to take and complete the whole renewal procedures personally through application submission, payment of fees and delivery of renewed license by hand at the Counter of the Licensing Department-premises of the concerned authority.

3- In case of delayed license renewal application (more than one month from the date of expire), the applicant shall be fined the amount of Fifty UAE Dirhams against each month of delay, but provided that the total fine amount may not exceed (Dhs.1500).

4- In case of failure to renew the license for longer periods, the fixed annual licensing fees multiplied by the number of delayed years shall be collected from the failing applicant. The said fees shall, however be calculated in accordance with the fixed fees at the time of the license issuance plus the fine amount provided in clause (15/3) herein before.

5- Exceptional from the previous clause herein, no fees against delayed renewal shall be collected if the applicant firm owner(s) present(s) an Acknowledgment affirming that no activity has been exercised and no benefit has been accrued from the license over the whole period of suspension. However, such an acknowledgment shall have to be supported with official documents agreeable to the concerned authority.

6- The concerned authority shall have the right to cancel a license if not renewed for a period of five consecutive years. Cancellation shall be made through a one-time announcement to be advertised in an Arabic daily local newspaper. However, the cancellation procedures may be seized if the concerned authority receives an objection to the cancellation within a week from the date of advertisement, a case in which clauses (4/3) and (4/4) of article (4) herein before shall be applicable.

ARTICLE (16)

This by-law shall be effective as from the date of issue and shall be promulgated in the official gazette.

END OF REPORT

Ventures Middle East hereby states that the information provided within this report is accurate to the best of its knowledge, however Ventures Middle East shall have no liability of any nature, whether in contract, tort or otherwise, for any losses whatsoever and howsoever caused arising from or in any way connected to this report.