

LIST OF ROAD AND HIGHWAY PROJECTS

Sl. No.	Project Name	Client	Country	Location	Construction Cost (US\$)	Design Completion Date	Construction Completion Date	Brief Description	Services Provided
1	Ehden Development	Zghorta Municipality	Lebanon	Ehden	2,500,000	On Going	-	Regrouping and re-allocating of lands and related roads.	Survey and Planning Development
2	Upgrading of Hazmieh - Saufar Int'l Road	Council for Development and Reconstruction	Lebanon	Mount Lebanon	45,000,000	On Going	-	Upgrading, widening of Beirut - Damascus Road, Hazmieh - Saufar Section.	Design and Construction Supervision
3	Detailed Design of Settat - Marakech Highway	Societe Nationale des Autoroutes du Maroc	Morocco	Settat - Skhour Rehanna	135,000,000	On Going	-	Final Highway Design for 65 km.	Design
4	Roads in Al Mountazah, Zone 23	Ministry of Agriculture Municipalities and	Qatar	Al Mountazah	15,000,000	On Going	-		
5	New Port and Dry Dock Complex at Duqm, Oman	Ministry of Transport & Communications	Sultanate of Oman	Duqm	N/A	2003	2005	The establishment of a port at Duqm comprising a commercial quay and naval base, ship repair/drydock basin, passenger berth, fishing harbour and associated infrastructure including access road. The project is in association with Postford Haskoning. The main elements are:- Drydock complex, Berth facilities for ROP and Coast Guard vessels, A multi-purpose cargo berth for general cargo and containers, A berth for the navy including provision of ro-ro facilities, Facilities for recreation boats, Back-up area, equipment and flotilla, Associated infrastructure and 10 km link road.	Design & Construction Supervision
6	Latakia - Artha Motorway	Ministry of Communications	Syria	Latakia	185,000,000	1999	2005	The project consists of a motorway connecting Latakia - Tartous Highway with the existing Highway leading to Artha City. The project length is 89 km and comprises the construction of a dual carriageway three lanes each with inner and outer shoulders. The two carriageways are separated by a central median with concrete New Jersey barrier, Geotechnical, environmental, hydrological and transportation (automatic and manual traffic counts) studies were carried out. Over 85 bridges, viaducts, underpasses, overpasses and retaining walls are to be constructed along the road. All types of interchanges will be provided at main crossings (diamond, full cloverleaf, and trumpet) in addition to signage, marking and incidental works.	Design & Construction Supervision
7	Improvement of interchanges on King Fahd Road At Dammam	Al Darbas Road & Maintenance Co. Ltd.	Saudi Arabia	Dammam	25,000,000	-	2005	Construction Supervision for the Improvement of Interchanges on King Fahd Road At Dammam	Construction Supervision
8	Bsous - Kahale - Baalchmey Highway	Council for Development and Reconstruction	Lebanon	Bsous- Kahale- Baalchmey	N/A	2004	-	A 2x2 lane Highway to link Damascus Road at Bsous Birturcation with Saufar at Baalchmey with all relevant interchanges and utility services	Design

LIST OF ROAD AND HIGHWAY PROJECTS

Sl. No	Project Name	Client	Country	Location	Construction Cost (US\$)	Design Completion Date	Construction Completion Date	Brief Description	Services Provided
9	Dubai Autoparts City	Auto Parts Merchants Group	U.A.E	Dubai	10,000,000	2002	2004	The project consists of a 120 he new development of free zone/customs bonded warehousing including infrastructure and buildings. The services include masterplan, design and construction supervision of full infrastructure and buildings.	Master Plan, Design & Construction Supervision
10	Amir Majed Street - Traffic Study	Ananet Munafazat Jeddah	Saudi Arabia	Jeddah	17,600,000	2004	-	Data collection, traffic survey, traffic forecast and traffic management Study.	Traffic Study
11	Dualization Of Hail / Al Madinah Al Munawarah Road Phase	Ministry of Communication (MOC)	Saudi Arabia	Riyadh		2003	-	Study and Design of the Roads of Madinah Al Munawarah Region, Hail Region, Quaseem Region & 1 st Part of Madinah Al Munawarah/Hail Dualization Road.	Study & Design
12	Road Improvement Works Umm Salal Municipality	Ministry of Municipalities and Agriculture	Qatar	N/A	250,000,000	-	2003		Construction Supervision
13	Design of Road in Zones 53,54, 54	Ministry of Municipalities and Agriculture	Qatar	N/A	50,000,000	-	2003		Construction Supervision
14	Design of Roads in Zone 52, Al Luqta & Al Rayyan	Ministry of Municipalities and Agriculture	Qatar	N/A	40,000,000	2003	-		Design
15	Intersection Improvement Programme	Ministry of Municipalities and Agriculture	Qatar	N/A	15,000,000	-	2003		Construction Supervision
16	Zouk Mosbeh - Mairouba - Kfar Deblane - El Taybeh Road	Council for Development and Reconstruction	Lebanon	Kesrouan - Bekaa	90,000,000	2003	-	Rehabilitation, widening and Construction of Roads.	Detailed Design for Rehabilitating, widening and construction of Roads
17	Rehabilitation of Sour - Naqoura Road and three (3) bridges	Council for Development and Reconstruction	Lebanon	South Lebanon	8,000,000	2003	-	Design of Single Road from Sour - Naqoura including 3 bridges at Bayda Area.	Design
18	Chebaa Ain Ala Rachaya Al Wadi	High Relief Committee	Lebanon	South Lebanon	400,000	2003	-	Single Road including Retaining walls and drainage.	Design
19	Naqoura - Edaysa	Council for Development and Reconstruction	Lebanon	South Lebanon	24,000,000	2003	-	Preliminary and Final Design for the Road.	Design and Tender Documents

LIST OF ROAD AND HIGHWAY PROJECTS

Sl. No.	Project Name	Client	Country	Location	Construction Cost (US\$)	Design Completion Date	Construction Completion Date	Brief Description	Services Provided
20	Saadat - Debbien - Ain El Haour and Joun - Zaitounye - Zaouriyeh Roads	Council for Development and Reconstruction	Lebanon	Shouf	13,000,000	2003	-	Rehabilitation and widening existing facilities.	Design
21	The Dualization of the existing Tabouk - Tayma - Madinah Road (Qualalbah - Tayma)	Ministry of Communications	Saudi Arabia	Northern Province	28,000,000	2003	-	The Dualization of the existing Tabouk - Tayma - Madinah Road.	Study, Design & Construction Supervision
22	Non-destructive Road Crossing (NDRC) for cable laying across major roads (Spec 002/2002)	DEWA	U.A.E	Dubai	N.A	2002	2003	Installation of cable crossing under major roads by Non-destructive (No Dig) methods.	Design & Construction Supervision
23	Chebaa - Hebbanet Road	High Relief Committee	Lebanon	South Lebanon	400,000	2002	-	Design of 7.5 km of Roads.	Final Design and Tender Documents
24	Green Community Engineering Services, Dubai.	Dubai Investments and Union Properties, Dubai	U.A.E	Dubai	400,000,000	2002	-	To carry out masterplanning, subdivision and related engineering for a 470 hectares development in Dubai.	Master Plan & Engineering Design
25	Engineering Works for Old Al Matnah New Residential Area, Dubai, U.A.E.	Dubai Municipality, Dubai, U.A.E.	U.A.E	Dubai	20,000,000	2002	-	This is a new 579 ha development in the South eastern part of Dubai Urban Area. The project area is planned to be a residential area of locals comprising 3290 plots of different sizes, accommodating a population of around 25,000.	Master Plan & Engineering Design
26	Badr Neighborhood Redevelopment Plan	Dubai Islamic Bank	U.A.E	Dubai	100,000,000	2002	-	The Project is located approximately 15 Kilometres east of the Dubai Central Business District. The plan proposed the development of 81 G+2 buildings providing 2,360 dwelling Units.	Master Plan & Engineering Design
27	Ras Al Khaimah Free Zone Master Plan, U.A.E.	RAK Free Zone Authority	U.A.E	Ras Al Khaimah	10,800,000	2002	-	Preparation of the schematic of the RAK on the Arabian Gulf and close to the Straits of Hormuz allows the Free Trade Zonedirect access to the CIS, Indian and Iranian subcontinent market. The Industrial Park is part of the proposed 940hectares Huleyiah Island Free Trade Zone Industrial Development and is presently available for light industrial manufacturing, assembling, warehousing and distribution activities. The Technology Park is located opposite Jazeirat Al Hamra and hasbeen planned to provide land for office, Research and Development, Manufacturing, Warehouse Distribution and Showroom uses to support these Industries.	Master Plan
28	Al Barashi Land Development, Sharjah	Al Barashi Real Estate Development Company	U.A.E	Sharjah	10,000,000	2002	-	Carrying out masterplanning, subdivision, infrastructure and related engineering for 200 hectares development in Sharjah.	Design

LIST OF ROAD AND HIGHWAY PROJECTS

Sl. No	Project Name	Client	Country	Location	Construction Cost (US\$)	Design Completion Date	Construction Completion Date	Brief Description	Services Provided
29	P2906/FZ - Jebel Ali Port Distribution Road Maintenance	Dubai Ports Authority	U.A.E	Dubai	N/A	-	2002	Rehabilitation of Existing Port Roads.	Construction Supervision
30	Al Hassawi Land and Infrastructure development	Mubarak Abdul Aziz Al Hassawi	U.A.E	Sharjah	5,500,000	2001	2002	85 hectares land development area including all roads, drainage, electricity and telecommunications.	Master Plan & Engineering Design
31	Hillside Development, Dubai	Jebel Ali Properties	U.A.E	Dubai	19,100,000	2001	2002	Design and construction supervision of road works and infrastructure including sewerage, water supply, electrical distribution, telecommunications, irrigation, street community lighting, district cooling, central television and central gas, relating to a private housing development located on a site with severe topographical problems. The site is located adjacent to the existing Jebel Ali Village and the Gardens development. It encompasses the development of a residential community covering earthworks, infrastructure, villas and landscaping. The residential components of the development comprise the construction of 104 no. blocks with each block containing two villas of 3 & 4-bedroom provided with service block and two covered car parking each.	Design & Construction Supervision
32	P327/FZ - Free zone south infrastructure, Phase 1	Jebel Ali Free Zone Authority	U.A.E	Dubai	6,000,000	2001	2002	Design and construction supervision of earthworks grading, roadworks and infrastructure in relation to a site being developed by the Client for the purpose of leasing plots within a free zone environment.	Design & Construction Supervision
33	International Marina & Sports Club, Khalid Lagoon, Sharjah	Sharjah Commerce & Tourism Development Authority	U.A.E	Sharjah	13,000,000	2001	2002	The work completed on this project includes the master plan, detail design and project management of a full service leisure and sport facility being developed on a 4.8-hectare island in Khalid Lagoon that is located in the Sharjah Central Business District. Design services include the design of a two-story clubhouse, sports and recreation building, chalets (5 presidential, 38 - 2 bedroom units and 22 1-bedroom units) with a Moorish architectural theme. Work also included the design of a new bridge connecting the island to the main land, roads, infrastructure, landscaping and a 150-boat marina.	Design & Construction Supervision

LIST OF ROAD AND HIGHWAY PROJECTS

Sr. No.	Project Name	Client	Country	Location	Construction Cost (US\$)	Design Completion Date	Construction Completion Date	Brief Description	Services Provided
34	The Gardens	Jebel Ali Free Zone Authority (JAFZA)	U.A.E	Dubai	178,000,000	2000	2002	The site is on an area of land of some 200Ha located to the north-east of the existing Jebel Ali Village. The project encompasses the development of an area of land of approx. 112 Ha for a residential community. The development work will cover earthworks, infrastructure buildings and landscaping. The site is located adjacent to and on the southeast side of Sheikh Zayed Road between the existing Jebel Ali Village to the south and the existing military road to the north. Approximately 900,000m ³ of earth will be shifted in order to grade the site, promoting surface water flow by gravity to a designated discharge point and to provide landscaping features within the development. The residential component of the development will comprise the construction of 129 no. apartment buildings containing approx. 3800 dwelling units in a mix of 1,2,3 bedroom apartments. Infrastructure to serve the residential units will include a road system of approx. 13.5 within ROW corridors which will accommodate various utility systems as follows: 1kv electricity distribution system, potable water system, telecommunications system (following effluent requirements), irrigation system (utilising treated sewage effluent), sewage collection system, sewage treatment plant (5000 - 7000m ³ /day), surface water drainage system. The residential complex will be fully landscaped, with planned open areas, areas around apartment buildings and road corridors being planted.	Design & Construction Supervision
35	Al Leith Highway	Ministry of Communications	Saudi Arabia	Jeddah	45,000,000	1998	2002	The scope of work of this project includes the Design and Construction Supervision of a coastal highway linking Jeddah City to Al Leith City, along the Red Sea coast. This road will be extended in future to connect Jeddah to Jizan City at Yemen border. The project comprises two sections. The first section (main road) extends from Jeddah to Al Leith with a length of 185 km, while the second section branches from the main road at 45km approximately and connects with Shmaisy interchange on Jeddah - Makkah road having a length of 50 km.	Design & Construction Supervision
36	Dubai Investment Park Infrastructure Project, Dubai	DIPDC	U.A.E	Dubai	25,000,000	1998	2002	The preparation of a development plan for DIP site which is located approx. 9 km inland from the Arabian Gulf. This is generally undeveloped area of 3181 hectares. The work includes roadways and site grading, water, sewer and a sewage treatment plant, power and telecommunications.	Design & Construction Supervision

LIST OF ROAD AND HIGHWAY PROJECTS

Sl. No.	Project Name	Client	Country	Location	Construction Cost (US\$)	Design Completion Date	Construction Completion Date	Brief Description	Services Provided
37	R 168 - Internal Roads in Al Qasimia Area - Phase 2	Sharjah Municipality	U.A.E	Al Qasimia	2,000,000	1998	2002	Design and supervision of inner city roads. The services included study, design and supervision of construction and maintenance period works.	Design & Construction Supervision
38	Dubai Investment Park Infrastructure Project, Dubai	DIPDC	UAE	Dubai	25,000,000	1998	2002	The preparation of a development plan for DIP site which is located approx. 9 km inland from the Arabian Gulf. This is generally undeveloped area of 3181 hectares. The work includes roadways and site grading, water, sewer and a sewage treatment plant, power and telecommunications.	Design & Construction Supervision
39	JAFZA (P2/6F2) Free Zone Roads	JAFZA	UAE	Jebel Ali, Dubai	5,500,000	1996	2002	The project has been sub-divided into three separate locations and the associated works are: Location 1:- Earthworks of approximately 125 Ha. 5.0 km of single fine carriageway roads including all necessary ground improvements. 2.2 km of dual 7.5m wide carriageway road. Location 2 :- Earthworks to the area of the proposed road only. 1.3 km of dual 6m carriageway road. Location 3:- Minor road works and lane arrangement on existing Port Gate No.2 road and approach to round about No. 6.	Design & Construction Supervision
40	R 168 - Internal Roads in Al Qasimia Area - Phase 3	Sharjah Municipality	UAE	Sharjah	2,000,000	1998	2002	Design and supervision of inner city roads in Al Qasimia Area.	Design & Construction Supervision
41	Hadath - Al Masina Freeway (Sawfar-Madeirj Section)	Conseil Executif des Grands Projets de la ville de Beyrouth	Lebanon	Sawfar Madeirj	40,000,000	1998	2001	The works involved the Construction Supervision of a section (5 km long) of Hadath - Syrian Border Highway (Sawfar-Madeirj), passing through very difficult mountainous terrain. The project included two long viaducts 440 m and 310 m respectively with high piers and columns (70 m approx.) and two interchanges with two bridges each, in addition to retaining walls, soil stabilization, and subsurface water drainage treatment.	Design & Construction Supervision

LIST OF ROAD AND HIGHWAY PROJECTS

Sl No	Project Name	Client	Country	Location	Construction Cost (US\$)	Design Completion Date	Construction Completion Date	Brief Description	Services Provided
42	Abha - Qara'a - Airport Road	Ministry of Communications	Saudi Arabia	Abha	11,000,000	1996	2001	The project consists of the construction supervision of a divided dual carriageway in Abha City (Southern Region of the Kingdom of Saudi Arabia). Works included the construction of 18 km of dual carriageway with three wadi bridges, many box culverts and protection works (loose stone Rip Rap, Grouted stone Rip Rap and concrete slope protection).	Construction Supervision
43	Abha - Qara'a - Airport Road	Ministry of Communications	Saudi Arabia	Abha	11,000,000	1996	2001	The project consists of the construction supervision of a divided dual carriageway in Abha City (Southern Region of the Kingdom of Saudi Arabia). Works included the construction of 18 km of dual carriageway with three wadi bridges, many box culverts and protection works (loose stone Rip Rap, Grouted stone Rip Rap and concrete slope protection).	Construction Supervision
44	Emergency Assistance Project - Gaza	PECDAR	Palestine	Gaza	45,000,000	1994	2001	Salah El-Din Road forms the main arterial highway in the Gaza City and all other major population centres to the border with Egypt. The road, with its eastern loops at Gaza and Khan Younis, forms the only main highway link in the North South axis of Gaza. This axis, some 50 kms long is the critical spine serving the narrow strip.	Design & Construction Supervision

LIST OF ROAD AND HIGHWAY PROJECTS

Sr. No.	Project Name	Client	Country	Location	Construction Cost (US\$)	Design Completion Date	Construction Completion Date	Brief Description	Services Provided
45	Beirut Southern Ring Road	CDR	Lebanon	Beirut	125,000,000	1993	2001	<p>The project included the design of 12Km of urban freeway encompassing interchanges, tunnels and viaducts in addition to 12 other Km of Urban arterial roads all with their utility services (power, telephone, sewer and drainage). The project was divided into the following sections:</p> <ul style="list-style-type: none"> - Cocody-Cola 1: 2 Km of freeway & service roads including bridges & culverts with exit ramps including street lighting and utilities. - Cocody-Cola 2: 2 Km of Urban freeway including tunnels, bridges & ramps in addition to service roads including street lighting and utilities. - Chatila-Choueifat 1: 2.5 Km of Urban arterial road including side parking, sidewalks and channelized intersections, street lighting and utilities. - Chatila-Choueifat 2: 3.5 Km of arterial road including side parking, & channelized intersections with street lighting and utilities. - Tiro Road: 2.3 Km of arterial road street lighting and utilities. - Khaldieh Cocody & Hay El Sulum-Hadath: 8 Km of freeway and service <p>roads including viaducts and culverts with ramps including street lighting and utilities.</p> <ul style="list-style-type: none"> - Hadath airport road: 3 Km of Urban arterial road including street lighting and utilities. - Chatila rotary interchange(additional works): 2 level interchange including bridges, retaining walls, street lighting and utilities. - New airport interchange(additional works): 3 level interchange including bridges, retaining walls, street lighting and utilities. <p>The Services include:</p> <ol style="list-style-type: none"> 1) Topographical surveys necessary for the preparation of the consultancy documents. 2) Preparation of geotechnical investigation contracts & assessment of revolls. 3) Preparation of expropriation documents including: Plans of related plots, acquisition of lands required for the works and calculations of land areas to be expropriated. These documents shall include the administrative requirements for the appropriate legal evaluations investigations (during and after the detailed preliminary design phase). 4) Preparation of final design and Tender Documents. 	Design & Construction Supervision

LIST OF ROAD AND HIGHWAY PROJECTS

Sl. No.	Project Name	Client	Country	Location	Construction Cost (US\$)	Design Completion Date	Construction Completion Date	Brief Description	Services Provided
145	Masnaa - Syrian Border Highway	Ministry of Public Works	Lebanon	Masnaa	13,000,000	1997	2000	Assignments involved the Rehabilitation Design and Construction Supervision of 6 km of dual 2 - lane carriageway at Syrian Border. The design works included the complete execution drawings comprising pavement design, widening and geometric improvement of existing road, safety features, retaining walls, road marking and signing in addition to storm water drainage.	Design & Construction Supervision
46	Shouf Expressway	CDR	Lebanon	Shouf	160,000,000	1997	2000	The project consists of a 65 km expressway linking the Southern Highway at wadi El Zeini to Damascus Road at Dahr El Bairdar through the Shouf Mountains. This expressway is composed of a dual 2 - lane carriageway, interchanges, bridges and channelized intersections. Works included environmental, traffic, hydrological, geometric, structural studies, as well as preparation of expropriation decree and files.	Design & Construction Supervision
47	Engineering Work for Nadd Al Hamar East Residential Area & New Residential Area - Hatta	Dubai Municipality	U.A.E	Hatta	15,000,000	1996	2000	Nad Al Hamar East Residential Area land use consists of national residential plots, investment plots, residential commercial community facilities and district parks and open spaces with total 1631 ha. Hatta Residential Area is approximately 100 ha of land. It consists of 469 plots providing housing for an estimated population of 3200 persons, to be relocated from other parts of Hatta.	Design & Construction Supervision
48	Rehabilitation of Roads in South Lebanon	Ministry of Public Works	Lebanon	South	74,000,000	1995	2000	The project included the Rehabilitation and Reconstruction Design and Construction Supervision of existing roads in south Lebanon by evaluating and assessing the conditions of these roads after a detailed and thorough site inspection to propose the most adequate remedial solutions. Works included pavement, storm water drainage, retaining walls, safety fences and lighting.	Design & Construction Supervision
49	Agricultural Road Links in Bani - Amr Areas	Ministry of Communications	Saudi Arabia	Abha	5,120,000	1991	2000	Study, Design & Supervision of construction of 33 km of Farm link roads in the southern region of the region.	Design & Construction Supervision
50	Agricultural Roads in Qassim Area	Ministry of Communications	Saudi Arabia	Qassim	13,850,000	1991	2000	Design of 333 km of farm link roads.	Design & Construction Supervision
51	Salalah Addressing Project	Dhofar Municipality	Sultanate of Oman	Dhofar	5,000,000	1999	-	The project was aimed at producing plot, street, community and sector numbering and coding systems and to provide direction and information signs as well as locating streets and neighbourhood nameplates for the entire city. The project also included the production of a pocket map for the city of Salalah and an information guide explaining the addressing system. These were all produced using GIS technology.	Design

LIST OF ROAD AND HIGHWAY PROJECTS

Sl. No.	Project Name	Client	Country	Location	Construction Cost (US\$)	Design Completion Date	Construction Completion Date	Brief Description	Services Provided
52	Al Ahli Interchange	Ministry of Municipal Affairs and Agriculture (MMAA)	Qatar	Al Ahli	21,000,000	1999	-	A narrow diamond grade separated junction in Doha intended to replace a busy roundabout. The elevated section, dual 3 lane, consists of reinforced earth approaches and a 4 span, 36m each, post tensioned concrete deck.	Design
53	Abha - Qara - Matar Road	Ministry of Communications	Saudi Arabia	Abha	9,600,000	-	1999	Construction of 21 kms dual carriageway Road in Abha area.	Construction Supervision
54	Contract R 83 - Roads in Al Majaz Phase 2 & 3	Sharjah Municipality	U.A.E	Sharjah	4,900,000	1996	1998	The project comprises the construction of new roads at two locations: 1. Roads in Al Majaz Phase 2 2. Roads in Al Majaz Phase 3 Al Majaz, phase 2 - consists of the construction of 4 km of new single carriageway roads. Al Majaz, phase 3 - consists of the construction of 3 km of new single carriageway roads and 1 km of dual carriageway. The works include storm water pumping station, new pavement, parking and footpaths, hard and soft landscaping, irrigation, electricity, telecommunications and water systems. The services included study, design and supervision of construction and maintenance period works.	Design & Construction Supervision
55	Infrastructure Development for Industrial Area XVII	Al Rostamani Group	U.A.E	Sharjah	10,500,000	1996	1998	The project involved the complete infrastructure development of a sand dune site to model Industrial Park with the provision of roads, power, water, drainage and telecommunications to allow private industry development to take place with the least possible constraint. The development covered an area of 1.1 million m2 and the project was undertaken on a fast-track basis using multiple contracts to ensure returns on the development at the earliest possible time. The construction included:- 9.5 km of water pipe network. 1 No. 33kv Electricity Sub station. 28 No. 11kV/415kV Sub-Station. 35 km of cabling. The services included study, design and supervision of construction and maintenance period works.	Design & Construction Supervision
56	R 635 - Leveling Works and Fencing for Bio-Saline Agriculture Centre	Dubai Municipality	U.A.E	Dubai	NA	1996	1998	The project comprises the leveling of an area of some 1000 ha for the Ministry of Agriculture & Fisheries. The work includes fencing for the site and road base type access & internal roads totaling 3 km in length.	Design & Construction Supervision

LIST OF ROAD AND HIGHWAY PROJECTS

ST. No.	Project Name	Client	Country	Location	Construction Cost (US\$)	Design Completion Date	Construction Completion Date	Brief Description	Services Provided
57	Contract R 82 - Internal Roads in Al Qasimia & Abuteena Areas	Sharjah Municipality	U.A.E	Sharjah	9,006,500	1995	1998	The project comprises the construction of new roads at two locations : 1. Roads in Al Qasimia Area 2. Roads in Abuteena Area Al Qasimia Area Roads consists of the construction of some 10 km of new single carriageway roads Abuteena Area Roads consists of the construction of some 3 km of new single carriageway roads The works include storm water pumping station, new pavement, parking and footpaths, hard and soft landscaping, irrigation, electricity, telecommunications and water systems. The services included study, design and supervision of construction and maintenance period works.	Design & Construction Supervision
58	Contract R 84 - Roads in Al Nabba & Abu Shagara	Sharjah Municipality	U.A.E	Sharjah	6,500,000	1995	1998	The services included study, design and supervision of construction and maintenance period works.	Design & Construction Supervision
59	Fairoun - Kfar Deblane - Fakra Road	Consell Executif des Grands Projets (CEGP)	Lebanon	Fairoun, Kfar Deblane, Fakra	3,500,000	1998	-	Rehabilitation of 7 Km of the existing Fairoun-Kfar Deblane road. Reconstruction of 8 Km of roadways representing Kfarzeban Bypass Asphalt overlay for 8 Km of Kfarzeban Internal Roads. After rehabilitation on normal 2-lane road 7m wide will be observed in addition to 1.5m shoulder from each side. Beautification, rehabilitation and widening that will include geometric design, drainage design and street lighting. Signing, making and lighting will be implemented.	Design
60	The Redevelopment of Hill - Fun City	Al Ain Municipality	U.A.E	Al Ain	35,000,000	1998	-	The project comprises a comprehensive redevelopment plan for the existing amusement park. The existing 80 ha park includes a variety of rides, attractions and facilities catering to families and children.	Design
61	Planning and Development for Al Zora Ajman Government Area, Ajman	Ajman Government	U.A.E	Ajman	275,000,000	1998	-	The preparation of a development plan for Al Zora area of the Emirate of Ajman. This is a generally undeveloped area consisting of a beach front of 3 km, generally rolling sand dunes. The project involved the identification of needs and alternatives for a 1000 ha beach front area in Ajman. The project included economic, social, demographic, planning and engineering studies on the feasibility of the development.	Design
62	Contract R 415 - Roads in Al Hamriya	Dubai Municipality	U.A.E	Dubai	6,603,000	1991	1998	A 12 km of road development for a 100 ha residential/commercial development of Dubai.	Design & Construction Supervision
63	Contract R 414 - Rehabilitation of Al Khawaneej	Dubai Municipality	U.A.E	Dubai	10,000,000	1991	1997	A 12 km of road development for a 350 ha residential/commercial development of Dubai.	Design & Construction Supervision

LIST OF ROAD AND HIGHWAY PROJECTS

Sl. No.	Project Name	Client	Country	Location	Construction cost (US\$)	Design Completion Date	Construction Completion Date	Brief Description	Services Provided
64	Pedestrian Bridges	Makkah Municipality	Saudi Arabia	Makkah	N/A	1997	-	Design of 12 pedestrian bridges over existing roads in different locations in Makkah.	Design
65	Khalden - Jiyeh Lateral Roads	Conseil Executif des Grands Projets (CEGP)	Lebanon	Khalden - Jiyeh	10,000,000	1997	-	A 36 km of service roads were conceived to protect the Southern Highway from Khalden to Jiyeh and to serve the abutting lands. Ramps and Interchanges are provided to connect these roads with the main highway.	Design
66	Madinah Second Ring Road	Ministry of Communications	Saudi Arabia	Madinah	104,000,000	1986	1997	A complete design check and supervision of a 27 km. multilane divided urban ring road in Al-Madinah Al-Munawwarah. The design check was extensive and a complete reappraisal of the hydrological design resulted in the complete redesign of many major bridges (eg. 2 new bridges each 10span with overall span lengths of 75 m each were introduced. The largest bridge has a central span of 85m. The project is of motor way standard with 13 interchanges - 3 triple level, 8 diamond and 2 coverleaf. The bridge construction includes conventional reinforced concrete and prestressed work.	Design & Construction Supervision
67	Infrastructure Development for Industrial Area XV	Al Rostamani Group	U.A.E	Sharjah	15,000,000	1995	1996	The project involved the complete infrastructure development of a sand dune site to model Industrial Park with the provision of roads, power, water, drainage and telecommunications to allow private industry development to take place with the least possible constraint. The development covered an area of 1.5 million m2 and the project was undertaken on a fast-track basis using multiple contracts to ensure returns on the development at the earliest possible time. The construction included:- The potable water system included 19 km. Of pipeworks varying in diameter from 150 mm to 300 mm with related valves and appurtenances. 1 No. 33kv Electricity Sub station. 28 No. 11KV/415Kw Sub-Station. 41 km of cabling. 98 no. feeder pillars 7 km of telephone ducting. The services included study, design and supervision of construction and maintenance period works.	Design & Construction Supervision
68	Preventive Maintenance Project in Eastern Province	Ministry of Communications	Saudi Arabia	Eastern Province	8,000,000	-	1996	Preventive Maintenance work of 60 bridges along 300 kms road length.	Construction Supervision

LIST OF ROAD AND HIGHWAY PROJECTS

Sl. No.	Project Name	Client	Country	Location	Construction Cost (US\$)	Design Completion Date	Construction Completion Date	Brief Description	Services Provided
69	Rehabilitation of Roads in Eastern Province	Ministry of Communications	Saudi Arabia	Eastern Province	25,000,000	-	1995	The project consists of the Rehabilitation Design and Construction Supervision of several roads in the Eastern Province of Saudi Arabia. Works including damage assessment of the roads and structures, including FWD and Schmidt Hammer Tests in order to evaluate and propose remedial solutions, such as road widening, pavement overlay, new pavement, interchanges improvement, bridges, overpasses and underpasses rehabilitation.	Construction Supervision
70	NDOD 1200 (3+8) Combined Infrastructure	Ministry of Municipal Affairs and Agriculture (MMAA)	Qatar	Doha	8,000,000	1994	1996	Supervision of roads, drainage, sewerage, electrical installation for a new development area.	Design & Construction Supervision
71	Markiya Road Supervision, ERC0091/S1	Ministry of Municipal Affairs and Agriculture (MMAA)	Qatar	Doha	2,500,000	-	1996	Supervision of City road improvements.	Construction Supervision
72	Roads in Al Karana	Dubai Municipality	U.A.E	Dubai	10,000,000	1990	1996	Study and rehabilitation of a network of 20 km of roads in a commercial / residential area of Dubai.	Design & Construction Supervision
73	Roads in Umm Hureir	Dubai Municipality	U.A.E	Dubai	6,000,000	1989	1996	The study, design and supervision of 6 km of service roads and internal roads for a 50 ha. area of the city of Dubai. Work included a positive surface water drainage system and utilities infrastructure.	Design & Construction Supervision
74	Shaybah Access Road	Saudi Aramco	Saudi Arabia	Khojar	100,000,000	1995	-	The scope of work of this project included the Design and Technical Support during Construction of an access road in the Empty Quarter having a length of 475km. This road connects the Governmental road in the Eastern Province at Salwa area to Shaybah Oil Plant in Rubi Al Khali at United Arab Emirates border. The road was designed to support Huge Rigs and other construction equipment needed for the Construction of GOSPs (Gas Oil Separation Plants) at Shaybah site.	Design
75	Muscat Area Traffic Study	Muscat Municipality	Sultanate of Oman	Muscat	N/A	1995	-	Detailed Traffic Study and Implementation Plan for the capital area in Oman to the year 2010. The study area includes the entire urban area of the Municipality of Muscat extending from Bait Al Barakah to Al Bustan. All highway links of strategic importance have been considered.	Transportation and Traffic Master Plan
76	Contract R 63 - Roads at Graveyard	Sharjah Municipality	U.A.E	Sharjah	500,000	1994	1995	Design and supervision of inner city roads. The services included study, design and supervision of construction and maintenance period works.	Design & Construction Supervision
77	Contract R 64 - Roads in Sharqan Area	Sharjah Municipality	U.A.E	Sharjah	1,000,000	1994	1995	Design and supervision of inner city roads. The services included study, design and supervision of construction and maintenance period works.	Design & Construction Supervision

LIST OF ROAD AND HIGHWAY PROJECTS

Sl. No.	Project Name	Client	Country	Location	Construction Cost (US\$)	Design Completion Date	Construction Completion Date	Brief Description	Services Provided
78	Contract R 65 - Roads in Abu Shagara	Sharjah Municipality	U.A.E	Sharjah	1,000,000	1994	1995	Design and supervision of inner city roads. The services included study, design and supervision of construction and maintenance period works.	Design & Construction Supervision
79	NDOD 1200 ERC0199, New District Blocks	Ministry of Municipal Affairs and Agriculture (MMAA)	Qatar	Doha	7,250,000	-	1995	Supervision of filling in new development area.	Construction Supervision
80	Contract R 495 - Service Roads on Khalid Bin Al Waleed Road	Dubai Municipality	U.A.E	Dubai	5,100,000	1993	1995	8 km of Service Roads on main urban arterial.	Design & Construction Supervision
81	Contract R 46 - Road Development in Residential Areas	Sharjah Municipality	U.A.E	Sharjah	2,200,000	1993	1995	Approximately 12 km of collector roads in new residential areas.	Design & Construction Supervision
82	Contract R 53 - Rehabilitation of Mina Road and Associated Works	Sharjah Municipality	U.A.E	Sharjah	1,100,000	1993	1995	Urban arterial including storm water pumping station, new pavement, parking and footpaths, hard and soft landscaping, irrigation, electricity, telecommunications and water systems.	Design & Construction Supervision
83	King Fahd, Sayed Ashunada & Bab Al Diyar Est. Salam Interchange		Saudi Arabia	Madinah	16,000,000	1991	1995	This project consisted of the design and supervision of three large diamond interchanges at AL Madinah AL Monawara City. Forming a part of Madinah Second Ring Road. The design included highway, structural, drainage, lighting and traffic lights studies.	Design & Construction Supervision
84	Rehabilitation of Al Khan Road	Sharjah Municipality	U.A.E	Sharjah	3,000,000	1991	1995	4 km rehabilitation of arterial dual carriageway.	Design & Construction Supervision
85	Infrastructure Development for Industrial Area XI	Sharjah Chamber of Commerce	U.A.E	Sharjah	20,000,000	1991	1995	The project involved the development of a desert, sand dune site into a model industrial development area with the provision of roads, power, water, telecommunications and drainage to allow private industry development to take place with the least possible constraint. The development covered an area of 1.6 million m ² and the project was completed on a fast-track basis in 4 contracts.	Design & Construction Supervision
86	South Tehama Jebels - Road # 53 M.O.C. ROADS (6 SECTIONS)	Ministry of Communications	Saudi Arabia	Mahayil	23,000,000	1983	1995	The full design check followed by supervision of a 88 km length of single carriageway highway in the south eastern region of Saudi Arabia. The terrain through which the road runs is mixed flat and rolling plains and hilly areas. The project included a reappraisal of the hydrological design which resulted in a complete new structural design, including 10 reinforced concrete wadi bridges, many culverts and Irish crossings. The construction also includes slope stabilisation using grouted prestressed post tensioned rock anchors.	Design & Construction Supervision
87	ERC 0092/D1 - Road Maintenance in Minor Roads in Greater Doha	Ministry of Municipal Affairs and Agriculture (MMAA)	Qatar	Doha	N.A	1994	-	Design of Urban Road Rehabilitation in inner city area - length 6 km.	Design

LIST OF ROAD AND HIGHWAY PROJECTS

Sl. No.	Project Name	Client	Country	Location	Construction Cost (US\$)	Design Completion Date	Construction Completion Date	Brief Description	Services Provided
88	ERC 0092/D2 - Road Maintenance in Minor Roads in Greater Doha	Ministry of Municipal Affairs and Agriculture (MMAA)	Qatar	Doha	N/A	1994	-	Design of Urban Road Rehabilitation in inner city area - Length 4.4 km.	Design
89	ERC 0092/D4 - Road Maintenance in Minor Roads in Greater Doha	Ministry of Municipal Affairs and Agriculture (MMAA)	Qatar	Doha	N/A	1994	-	Design of Urban Road Rehabilitation in inner city area - Length 4.5 km.	Design
90	Ibri - Dank Road Rehabilitation	Ministry of Communications	Sultanate of Oman	Ibri	6,600,000	-	1994	Rehabilitation of 70 km of existing rural roads.	Construction Supervision
91	Contract R 547 - Filling & Levelling in Al Quoz, South West	Dubai Municipality	U.A.E	Dubai	18,000,000	1993	1994	Grading work involving earthwork excavation, filling, levelling and compaction.	Design & Construction Supervision
92	Contract R 433 - Mardaf Interchange	Dubai Municipality	U.A.E	Dubai	5,000,000	1991	1994	Assignment involved the design and supervision of a grade separated interchange on a main arterial dual carriageway in Dubai City. The design included the plan and profile drawings. Typical cross sections, drainage, and structural detail drawings.	Design & Construction Supervision
93	Contract R 47 - Al Qasimia Road between Government Square & Al Arouba Street	Sharjah Municipality	U.A.E	Sharjah	1,050,000	1992	1993	Dual carriageway arterial link approximately 0.5 km long including storm water pumping station, new pavement, parking and footpaths, hard and soft landscaping, irrigation, electricity, telecommunications and water systems.	Design & Construction Supervision
94	Final Development of Home Ownership Lots Increment XI, North Rahima	Saudi Aramco	Saudi Arabia	North Rahima	N/A	1993	-	Provide all the necessary professional engineering and drafting services for the preparation of detailed engineering design for the Final Development of Home Ownership Lots. The scope of work included site visits and data collection; design of roads, streets and parking; stormwater drainage; street marking.	Design
95	Birkat Al Mawz - Sarq Road	Ministry of Communications	Sultanate of Oman	Birkat Al Mawz - Sarq	50,000,000	1993	-	The project consists of the design of a single carriageway road 40 km long in a very mountainous terrain. The study included environmental, hydrological, traffic analysis, road geometries, road typical section.	Design
96	Samma Descant Link Road, Southern region	Ministry of Communications	Saudi Arabia	Abha	11,000,000	1989	1993	Design & construction of a 16 km road connecting the Ma'hail - Jizan Road to the Mountain resort area of Souda. Route alignment through the 7 km mountain section of the road was very difficult, requiring the adoption of a 16% maximum gradient.	Design & Construction Supervision

LIST OF ROAD AND HIGHWAY PROJECTS

Sr. No.	Project Name	Client	Country	Location	Construction Cost (USD)	Design Completion Date	Construction Completion Date	Brief Description	Services Provided
97	Barik As-Sahil - Road #28 M.O.C. ROADS (6 SECTIONS)	Ministry of Communications	Saudi Arabia	Mahajel	16,500,000	1983	1993	Full design check and supervision of an 80 km single carriageway road link in the south eastern region of Saudi Arabia. The project included many multi-span reinforced concrete bridges and multi-cell r.c culverts. The project was through an area of generally flat rolling plains but with some mountainous stretches. Also as well as the main highways various link roads were included with related junctions.	Design & Construction Supervision
98	Mahassin Road Improvements Project Proposal	Saudi Aramco	Saudi Arabia	Al Hasa	N.A	1992	-	The work included collection and analysis of data, site visits and field verification, traffic analysis, preparation of preliminary design drawings, project proposal report, bulk material take-off, QA/QC and project management.	Design
99	Tunnel Lighting In South Western	Ministry of Communications	Saudi Arabia	South Western Province	N.A	1992	-	Design of lighting for 12 road tunnels, 5 of the lighting systems will be energised through utilisation of solar energy.	Design
100	R 446 - Al Ramool Industrial Area Roads	Dubai Municipality	U.A.E	Dubai	15,000,000	1992	-	Rehabilitation of 24 km of existing road network within Al Ramool Industrial Area, including the installation of surface water and land drainage. The existing pavements had been severely damaged by water ingress to the pavement structure and showed severe alligator cracking. A full pavement assessment was carried out including a PCI based survey, field sampling including 33 cores and 5 cut-outs and a full laboratory testing programme.	Design
101	Contract R 458 - Continuation of Fencing on Hatta Road	Dubai Municipality	U.A.E	Dubai	500,000	-	1992	Leveling of ground and erection of a canal fence with associated gates and canal grids along Hibab - Hatta Road.	Construction Supervision
102	Contract R 418/1 - Advanced Earthworks in Al Qusais Industrial Area	Dubai Municipality	U.A.E	Dubai	500,000	-	1992	Supervision of a 40 ha site involving a total volume of fill of 110,000 m ³ .	Construction Supervision
103	Contract R 459 - Civil Works for Road Lighting	Dubai Municipality	U.A.E	Dubai	500,000	-	1992	Civil Works for road lighting to be installed in various locations in Dubai Area.	Construction Supervision
104	Driver Training Center	Sharjah Municipality	U.A.E	Sharjah	1,000,000	1991	1992	Central Driver Training Centre for Sharjah.	Design & Construction Supervision
105	Contract R 441 - Roads Around Sheikha Moza Palace	Dubai Municipality	U.A.E	Dubai	1,000,000	1991	1992	(iii) Surface Water Drainage Works - 60 km of pipes installed and a major pump station built.	Design & Construction Supervision
106	Contract R 462 - Roads Around Sheikh Ahmed's Palace	Dubai Municipality	U.A.E	Dubai	500,000	1991	1992	The services included study, design and supervision of construction and maintenance period works.	Design & Construction Supervision

LIST OF ROAD AND HIGHWAY PROJECTS

Sl. No.	Project Name	Client	Country	Location	Construction Cost (US\$)	Design Completion Date	Construction Completion Date	Brief Description	Services Provided
107	Rehabilitation of Qusais Road	Dubai Municipality	U.A.E	Dubai	15,000,000	1988	1992	The study, design and supervision of the rehabilitation of a major arterial dual carriageway on the outskirts of the city of Dubai. The project involves the study of the condition of an existing pavement of a 3+3 lane dual carriageway 5.5 km long and proposals for its improvements. The project also included the design of service roads parking areas, infrastructure (water, telephone, street lighting, electricity, drainage). In addition a full surface water drainage system with 2 nos. pumping stations were also constructed.	Design & Construction Supervision
108	Dayer - Al Khoba - Road # 41A (M.O.C. ROADS (6 SECTIONS))	Ministry of Communications	Saudi Arabia	Mahayel	17,800,000	1986	1992	A complete design check and supervision of a 69 km. single carriageway highway in the south eastern region of Saudi Arabia. The project also was extended to include various link roads and related intersections.	Design & Construction Supervision
109	Contract R 390/1 - New Parking Facilities	Dubai Municipality	U.A.E	Dubai	1,000,000	1990	1991	(i) Grading Works - 3 million m3 of sand moved and the area capped.	Design & Construction Supervision
110	Makkah Inner Ring Road - Contract III	Ministry of Communications	Saudi Arabia	Makkah	75,000,000	1985	1991	The detailed check design and supervision of one part of a multi contract project to construct a freeway standard inner ring road for the Holy City of Makkah. This particular project covers the construction of 2 main tunnels with an intervening cut and cover section in addition to 4 ramp tunnels covering a total distance of some 3.6 km. The work covers various aspects of tunnel & highway engineering such as tunnel excavation, supports, portal structures, water proofing, concrete lining, ventilation, lighting, pavement construction and road furniture.	Design & Construction Supervision
111	Dhahran Sixth Street Improvements	Saudi Aramco	Saudi Arabia	Dahran	N.A	1990	-	Improvements to the main access road to Saudi Aramco in Dhahran including a new entrance gate (space frame) and dual carriageway road.	Design
112	Al Munira Underpass	Saudi Aramco	Saudi Arabia	Dahran	N.A	1990	-	Pedestrian Underpass in the centre of Dhahran.	Design
113	Light Industrial Park Road widening - Final Design	Saudi Aramco	Saudi Arabia	Dahran	N.A	1990	-	Preparation of a design package to widen the existing road and convert it from 2 to 3 lanes.	Design
114	Roadwork & Parking for Gold Souk	Dubai Municipality	U.A.E	Dubai	2,000,000	1990	-	Implementation of a traffic management study including pedestrian, large parking areas and related surface water drainage, sewer and services work.	Transportation and Traffic Master Plan
115	Al Sharqan Road	Sharjah Municipality	U.A.E	Sharjah	1,000,000	1990	1990	A one km residential area dual carriageway link road.	Design & Construction Supervision

LIST OF ROAD AND HIGHWAY PROJECTS

Sr. No.	Project Name	Client	Country	Location	Construction Cost (US\$)	Design Completion Date	Construction Completion Date	Brief Description	Services Provided
116	Industrial Area 4 Road	Sharjah Municipality	U.A.E	Sharjah	1,000,000	1990	1990	A one km collector dual carriageway in central Sharjah.	Design & Construction Supervision
117	Emergency Drainage Works	Dubai Municipality	U.A.E	Dubai	1,500,000	1988	1990	Flood prevention work in various areas of the Dubai Road Network.	Design & Construction Supervision
118	Pedestrian Bridge over Airport Road	Dubai Municipality	U.A.E	Dubai	2,000,000	1989	1990	A prestigious pedestrian bridge giving access to Dubai International Airport including panoramic lifts.	Design & Construction Supervision
119	Rashneediya - Muhariz Road	Sharjah Municipality	U.A.E	Sharjah	2,000,000	1989	1990	10 km rural desert road in the emirate of Sharjah including flood protection works.	Design & Construction Supervision
120	Kalba - Fujairah Highway	Sharjah Government	U.A.E	Sharjah	4,000,000	1988	1990	This project consisted of the design and construction supervision of 12km divided carriageway on the East Coast of the U.A.E, connecting Kalba - Fujairah Emirates.	Design & Construction Supervision
121	Roads in Industrial Areas 2 & 3	Sharjah Municipality	U.A.E	Sharjah	5,000,000	1989	1990	10 km of dual and single carriageway roads in Industrial Area of Sharjah.	Design & Construction Supervision
122	Green Belt Roundabout	Sharjah Municipality	U.A.E	Sharjah	1,000,000	1989	1990	Rehabilitation and improvement of an existing roundabout on a main arterial road.	Design & Construction Supervision
123	Makkah Inner Ring Road - Contract IV	Ministry of Communications	Saudi Arabia	Makkah	37,000,000	1985	1989	This is a part of a multi contract project, involving the construction of an Inner Ring Road in the Holy City of Makkah. This section of the project, contract 4, covers the construction of two main tunnels with an intervening cut & cover section, in addition to four ramp tunnels with a total length of about 3.6 km. The work covers various tunnel & highway engineering aspects such as : tunnel excavation, supports, portal structures, water proofing & tunnel concrete lining in addition to bases, asphalt, lighting, ventilation and other road related items. The engineering services provided included a detailed check design of the structural elements included in the contract.	Checking of Design and Construction Supervision

LIST OF ROAD AND HIGHWAY PROJECTS

Sl. No.	Project Name	Client	Country	Location	Construction Cost (US\$)	Design Date	Construction Date	Brief Description	Services Provided
124	Azraq - Iraqi Border Highway	Ministry of Public Works	Jordan	Azraq	90,000,000	1987	1988	The project covers the assessment of the existing pavement over 240 Km of major single carriageway road. The pavement has suffered significant damage and deterioration due to abnormally heavy truck loads. Traffic counts axle load surveys, goods movement studies and future traffic forecast were all included in the project. All bridges and culverts on the road were checked from a structural and hydrological viewpoint and necessary drainage protection works input. The testing procedure for evaluation of the existing pavement used a falling weight Deflectometer (FWD) method which simulates moving vehicle loads both in magnitude and duration without permanent damage to the pavement construction. The FWD results were analysed using a multi-elastic layer computer method to determine in-situ material properties of the various pavement layers. The results of the analysis were used to develop 2 alternative proposals, one based on a flexible pavement, the other rigid.	Design & Construction Supervision
125	Zarqa - Sukhna Jarash Highway	Ministry of Public Works	Jordan	Zarqa, Jarash	16,000,000	-	1988	The scope of work of this project included the Construction supervision of 36 km of highway linking the cities of Zarqa and Jarash through a mountainous area. Some 2.1 million cubic meters of rock cut and fill, more than 150 Box Culverts and wadi bridges were executed during the course of construction in addition to the other elements of the road, including slope and rock stabilization.	Construction Supervision
126	South Shouna - North Shouna - Syrian Border	Ministry of Public Works	Jordan	Shouna	25,000,000	1986	-	The assignment involved the complete study and design of 135 km divided dual carriageway highway in the Jordan Valley. The study included the upgrading through improvement of existing bridges and culverts together with the provision of new bridges. The design considered the planning restrictions and right of way in an area of heavy cultivation of great economic importance.	Design
127	Riyadh - Dammam Expressway - Camel Crossing Bridges	Ministry of Communications	Saudi Arabia	Riyadh - Dammam	17,000,000	1985	-	Riyadh-Dammam Expressway is a six lane controlled access highway designed to move large volumes of traffic at high speeds. The expressway passes over a vast expanse of desert in which overpasses are being provided to serve as crossings for the camels. The project provides for the construction of six camel crossings. The bridge at each crossing comprises of two spans of 30 meters each. The superstructure consists of a 30 meter wide pre-stressed concrete voided slab, the deck slab is covered by a layer of sand to facilitate its use by the camels.	Design

LIST OF ROAD AND HIGHWAY PROJECTS

Sl. No.	Project Name	Client	Country	Location	Construction Cost (US\$)	Design Completion Date	Construction Completion Date	Brief Description	Services Provided
128	Taima - Taif Road	Ministry of Defence	Saudi Arabia	Taima - Taif	8,000,000	1982	1985	The assignment involved the design of about 30 km of dual carriageway road in Taima and Taif area in the Southern area of the Kingdom in a different type of terrain (Flat to Rolling and mountainous). A complete Hydrological study was also included.	Design & Construction Supervision
129	Omar Ibn Al Khattab Boulevard	Dubai Municipality	UAE	Dubai	8,000,000	1982	1985	The project includes the design and construction supervision of one of the most important and congested divided dual carriageway city center arterial. The work also includes an assessment of the existing pavement, traffic study, and the reconstruction of major intersections. The total length of this road is two kilometers including three major signalized intersections and two roundabouts.	Design & Construction Supervision
130	Al Diyafah Road	Dubai Municipality	UAE	Dubai	8,000,000	1982	1985	The work included the design and supervision of four kilometers divided dual carriageway with service roads, side parking, side walks, landscaping and surface drainage.	Design & Construction Supervision
131	Rania - Bisha Road	Ministry of Communications	Saudi Arabia	Rania - Bisha	50,000,000	1976	1985	The project included the design and supervision of a 2 lane, single carriageway rural highway extending from Raniah to Bisha in the South-Western part of the Kingdom. The project consisted of two main sections with a total length of 165 km, including 34 Wadi Bridges, and several at grade intersections. Two road links were added later to the project with an additional length of 7 Km. The work covered all aspects of highway and bridge engineering in addition to extensive drainage protection works. The topography varied from flat and rolling plains to mountainous regions. The initial design work was done in association with KIV - ACE. However all design revisions & additions and construction supervision were carried out by SCEC (Khatib & Alami) alone.	Design & Construction Supervision

LIST OF ROAD AND HIGHWAY PROJECTS

Sl. No.	Project Name	Client	Country	Location	Construction Cost (US\$)	Design Completion Date	Construction Completion Date	Brief Description	Services Provided
132	Ras El Khaymah Bridge	Ministry of Public Works	U.A.E	Ras El Khaymah	17,500,000	1981	1984	<p>Super Structure : is composed of a slab of variable thickness having a width of 11.6 m and connected to two main steel girders, the depth of the girders varies from 4.1 m to 2.5 m in the central span and from 2.5 m to 1.7 m in the end spans web thickness 10 mm to 18 mm top flange width 400 mm to 500mm (700 mm at the central support) bottom flange width 500-700 mm, 1000 mm at the central support. Protection against corrosion by sand blasting & painting, total weight of structural steel 1210 tons</p> <p>Piers : circular 1m diam. with height varying from 3 m to 10 m and grouped in pairs the central portion over water piers are rectangular in shape of 1.1 m x 7.8 m with rounded ledges and a height of 11.5 m.</p> <p>Foundations : the nature of the soil dictated the utilization of piles, approach spans : each column stands on 6 piles of 0.5 m diam. in water : concrete pedestal 2.0 m wide 9.2 m long with rounded ends, pedestal rest on a pile cap 5.80 m x 9.5 m resting on 24 piles of 0.5 m diam. each.</p> <p>Abutments : open type supported on 20 piles of 0.5 m diam each.</p> <p>Supports : the two main steel girders rest on neoprene pads located on piers, except at the central piers where fixed steel bearings used.</p> <p>Expansion joints : there are two expansion joints located at the abutments which allow max. longitudinal displacement of 10 cm</p> <p>Parapets : there were cast in situ using concrete with cast iron handrails, the slab and parapets were poured by the use of silk shuttering.</p>	Design & Construction Supervision
133	Roads Beautification	Jeddah Municipality	Saudi Arabia	Jeddah	45,000,000	-	1984	Upgrading of some main streets in Jeddah.	Construction Supervision
134	Tabuk - Kharij Road	Ministry of Defence	Saudi Arabia	Tabuk - Kharij	21,000,000	1979	1984	The project consists of design and supervision of about 110 km of dual carriageway roads in Tabouk and Kharij cities through rolling to mountainous terrain. Works included the design of typical cross-section, Horizontal and Vertical Alignments, Drainage, structural design of Bridges, and Box culverts and safety elements.	Design & Construction Supervision
135	Clemenceau - Bab Idniss Intersection	Conseil Executif des Grands Projets (CEGP)	Lebanon	Beirut	6,000,000	1980	-	Design of two kms of Urban highway link including bridges, pedestrian over/underpasses and major retaining walls. The project intended to relieve major traffic congestion at the intersection of two major inner city arterial roads.	Design

LIST OF ROAD AND HIGHWAY PROJECTS

Sl. No.	Project Name	Client	Country	Location	Construction Cost (US\$)	Design Completion Date	Construction Completion Date	Brief Description	Services Provided
136	Fakhiddien Tunnel	Conseil Executif des Grands Projets (CEGP)	Lebanon	Beirut	7,000,000	1979	1980	The project involved the construction of a 300 m length of road tunnel to relieve traffic congestion in Central Beirut Area. The project included a detailed traffic study and an impact analysis for the proposed tunnel. The road tunnel provides dual 2 lane carriageways and the works included all structures related to the tunnel, connections to the existing road network, traffic control (including signal junctions) and lighting. Also large-scale expropriation and housing restoration and massive retaining walls were included.	Design & Construction Supervision
137	Turbah - Rania Road	Ministry of Communications	Saudi Arabia	Turbah - Rania	25,000,000	-	1979	This project involved the construction of an 88 km of Highway linking Turbah City to Rania City in the south eastern region of the Kingdom of Saudi Arabia. The project included many bridges, culverts, massive retaining walls.	Construction Supervision
138	Turabah - Road 54 Link	Ministry of Communications	Saudi Arabia	Turabah	25,000,000	1975	1979	The project involved Design and Construction Supervision of Highway linking Turabah to Road 54.	Design & Construction Supervision
139	Road from Khurmah to Taif - Riyadh Highway	Ministry of Communications	Saudi Arabia	Khurmah - Taif - Riyadh	35,000,000	1969	1978	The project involved Design and Construction Supervision of Khurmah - Taif - Riyadh Highway.	Design & Construction Supervision
140	Ashrafieh Flyover	Town Planning Office	Lebanon	Beirut	1,600,000	1973	1974	Design and Construction Supervision of Ashrafieh Flyover.	Design & Construction Supervision
141	Peripherique de Beyrouth	Conseil Executif des Grands Projets (CEGP)	Lebanon	Beirut	25,000,000	1971	1973	The scope of work included the design and supervision of a 45 km of peripheral freeway around the city of Beirut. The project consisted of multilane divided freeway system linking the Northern Coastal Freeway to the Southern entrance of the city. A full system of grade separated interchanges was introduced.	Design & Construction Supervision
142	Khurmah - Turabah Road	Ministry of Communications	Saudi Arabia	Khurmah - Turabah	30,000,000	1969	1971	The project involved Design and Construction Supervision of Khurmah - Turabah Road.	Design & Construction Supervision
143	Khaldeh - Zahranl Freeway	Conseil Executif des Grands Projets (CEGP)	Lebanon	Khaldeh - Zahranl	7,000,000	1971	-	Assignment involved the design of 80 km of 4 lane divided highway linking the southern approaches to Beirut (Khaldeh) to Zahranl River (in the South). The project included a major transportation and hydrological study. Some 7 number of interchanges and more than 50 Box Culverts were proposed in addition to the safety features.	Design

LIST OF ROAD AND HIGHWAY PROJECTS

23

Sl. No.	Project Name	Client	Country	Location	Construction Cost (US\$)	Design Completion Date	Construction Completion Date	Brief Description	Services Provided
144	Tabarja - Tripoli Freeway	Conseil Executif des Grands Projets (CEGP)	Lebanon	Tabarja - Tripoli	70,000,000	1967	1970	A 80 km 4-lane coastal superhighway extending from Tabarja North of Beirut to Tripoli in the North of the country. The project included all bridges, hydraulic and other structures and was based on a wide ranging transportation and hydrological study for the routing. The many river crossings included in the project resulted in many and varied bridge types. The project was carried out in association with BCEOM (France) and ACE (Lebanon).	Design & Construction Supervision

المجلس هواري (البلدية الثانية)

رئاسة مجلس الوزراء

ديوان المحاسبة

نسخة عن وثيقة تبليغ^(١)

صادرة عن ديوان المحاسبة

(الغرفة الأولى)

المطلوب تبليغه : الامانة العامة لمجلس الوزراء

الأوراق المطلوب تبليغها برأي استشاري : رقم : 2004/18

تاريخ : ٢٠٠٤/١/٢٣ رقم الأساس : ٢٠٠٤/٨ استشاري

موضوع الأوراق : التعاقد رضائيا مع استشاري لإدارة قانون برنامج الطرق لدى
وزارة الأشغال العامة والنقل.

المرفقات :



٢٨ كانون الأول ٢٠٠٤

بيروت في :

رئيس المصلحة
مجلس المصلحة الإدارية بالإنابة

نعمان زرزور

رئاسة مجلس الوزراء
رقم الورد : ١٦٦٨
التاريخ : ٢٠٠٤/١/٢٣
الرقم : ١٩٥٦
جهة الإيداع : المجلس الأعلى
التاريخ : ٢٠٠٤/١/٢٣

عضو على كتابكم رقم ١٤٢/٧٥ تاريخ

مكمل
٢٠٠٤/١/٢٣

(١) تبقى بيد الشخص المبلغ

رأي استشاري
صادر عن ديوان المحاسبة سنداً للمادة ٨٧ من قانون تنظيمه

-:-

رقم الرأي : ٢٠٠٤/١٨
تاريخه : ٢٣ / ١ / ٢٠٠٤
رقم الأساس : ٢٠٠٤/٨ استشاري

الموضوع : التعاقد رضائياً مع استشاري لإدارة قانون برنامج الطرق لدى
وزارة الأشغال العامة والنقل.

المرجع : كتاب امين عام مجلس الوزراء رقم ٧٥/م ص تاريخ
٢٠٠٤/١/١٢.

x x x

الهيئة

الرئيس : رشيد حطيط
رئيس غرفة : جوزيت طبراوي راشد
رئيس غرفة : هدى عبد الله حايك
رئيس غرفة : حسن نور الدين
المستشار : ايلي معلوف

x x x

ان ديوان المحاسبة (الغرفة الخاصة)
بعد الاطلاع على كافة الاوراق بما فيها تقرير المقرر
ولدى التدقيق والمداولة
تبين ما يلي :

انه ورد ديوان المحاسبة بتاريخ ٢٠٠٤/١/١٣ الكتاب المذكور في المرجع اعلاه
المتضمن ايداع الملف المتعلق بعقد رضائي منظم بين وزارة الأشغال العامة والنقل وشركة
الاتحاد الهندسي (خطيب وعلمي) لإدارة قانون برنامج الطرق - القسم الاول موضوع
الصيانة الدورية الروتينية.

وان العقد منظم استناداً الى قرار مجلس الوزراء رقم ٤٤ تاريخ ٢٠٠٣/٧/٣ الذي اقر
التعاقد مع استشاري لإدارة قانون البرنامج.

