社会開発調査部報告書

SULTANATE OF OMAN

MINISTRY OF COMMUNICATIONS
DIRECTORATE GENERAL OF ROADS

CONSTRUCTION OF
PEDESTRIAN UNDERPASS
AT
LIWA
BATINAH HIGHWAY

TENDER DOCUMENTS

BILL OF QUANTITIES

PACIFIC CONSULTANTS INTERNATIONAL
FUKUYAMA CONSULTANTS INTERNATIONAL

March, 1997

CONSTRUCTION OF PEDESTRIAN UNDERPASS AT LIWA
BILL OF QUANTITIES
BILL 1 - PRELIMINARIES

Item No	Description	Unit	Estimated Quantity	Unit Rate R.O. Bz	Amount R.O. Bz
	SECTION 100 PRELIMINARIES				
	101 Bonds and Insurance				
101.1	Performance Bond (Clause 10 of Standard Conditions of Contract)	lump sum			
101.2	Insurance of the Works (Clause 21 of Standard Conditions of Contract)	lump sum			
101.3	Damage to Persons and Property (Clause 22 of Standard Condition of Contract)	lump sum			
101.4	Third Party Insurance (Clause 23 of Standard Conditions of Contract)	lump sum			
101.5	Accident or injury to Workmen (Clause 24 of Standard Condition of Contract)	lump sum			
		1-1		Carried to summary	4000.000

CONSTRUCTION OF PEDESTRIAN UNDERPASS AT LIWA
BILL OF QUANTITIES
BILL 1 - PRELIMINARIES

Item No	Description	Unit	Estimated Quantity	Unit Rate R.O. Bz	Amount R.O. Bz
	104 Facilities for the Engineer				
104.1	Provision of Engineer's office (Type A, 1 unit x 7)	month	7	250.000	1750.000
104.2	Maintenance of Engineer's office (Type A, 1 unit x 7)	month	7	150.000	1050.000
104.3	Provision of surveying instruments	month	7	300.000	2100.000
104.4	Maintenance of surveying instruments	month	7	150.000	1050.000
104.5	Provision of Engineer's accommodation				
	(i) Resident Engineer's accommodation (Type B, 2 unit x 7)	month	14	250.000	3500.000
	(ii) Engineer's accommodation (Type C, 1 units x 8)	month	N/A	150.000	
	(iii) Engineer's accommodation (Type B, 1 unit x 8)	month	N/A	250.000	
	(iv) Dining/Kitchen (Type D, 1 unit x 8)	month	N/A	250.000	
		1-2		Carried to summary	9450.000

CONSTRUCTION OF PEDESTRIAN UNDERPASS AT LIWA
BILL OF QUANTITIES
BILL 1 - PRELIMINARIES

Item No	Description	Unit	Estimated Quantity	Unit Rate R.O. Bz	Amount R.O. Bz
104.6	Maintenance of Engineer's accommodation				
	(i) Resident Engineer's accommodation (Type B, 2 unit x 8)	month	16	150.000	2400.000
	(ii) Engineer's accommodation (Type C, 1 unit x 8)	month	N/A	250.000	
	(iii) Engineer's accommodation (Type B, 1 unit x 8)	month	N/A	150.000	
	(iv) Dining/Kitchen (Type D, 1 unit x 8)	month	N/A	250.000	
104.9	Sampling and Testing where no site laboratory is provided	month	7	80.000	560.000
104.10	In situ soil bearing capacity tests	n.r.	3	20.000	60.000
104.11	Sub-soil investigation by specialist Contractor	prov. sum		200.000	200.000
		1-3		Carried to summary	3220.000

CONSTRUCTION OF PEDESTRIAN UNDERPASS AT LIWA
BILL OF QUANTITIES
BILL 1 - PRELIMINARIES

Item No	Description	Unit	Estimated Quantity	Unit Rate R.O. Bz	Amount R.O. Bz
	105 Assistance for Engineer				
105.1	Laborers to assist the Engineer (no x months)	man month	N/A		
	106 Contractor's Compound				
106.1	Mobilization and demobilization of Contractor's facility	lump sum			
106.2	Maintenance of Contractor's facility	month	7	500.000	3500.000
	107 Maintenance and Protection of Traffic				
107.1	Maintenance and protection of traffic	lump sum	8 month		10000.000
107.2	Extra over item 107.1 for supply and compaction of subbase on diversions where ordered by the Engineer (10 cm. thick)	cu. m.	rate only	2.000	
107.3	Extra over item 107.1 for supply and compaction of bituminous basecourse on diversions where ordered by the Engineer (3 cm. thick)	cu. m.	rate only	3.000	
		1-4		Carried to summary	13500.000

CONSTRUCTION OF PEDESTRIAN UNDERPASS AT LIWA
BILL OF QUANTITIES
BILL 1 - PRELIMINARIES

Item No	Description	Unit	Estimated Quantity	Unit Rate R.O. Bz	Amount R.O. Bz
	108 Progress Photographs				
108.1	Provision of negatives and 5 sets of photographs (14 photos max.) (Mountable-Size 100 x 150 mm.)	month	7	30.000	210.000
	109 Sign Boards				
109.1	Provision, erection, moving and maintenance of signboard (Wooden Type)	n.r.	N/A	300.000	
	110 Commemoration Plaque and Opening Ceremony				
110.1	Supply and erection of commemoration plaque (Optional)	n.r.	N/A		
110.2	Opening ceremony (Optional)	limp sum			
		1-5		Carried to summary	210.000

CONSTRUCTION OF PEDESTRIAN UNDERPASS AT LIWA
BILL OF QUANTITIES
BILL 1 - PRELIMINARIES

Item No	Description	Unit	Estimated Quantity	Unit Rate R.O. Bz	Amount R.O. Bz
	115 Compliance with the Tender Documents				
115.1	Allow for all costs and expense for complying with all the conditions and requirements stipulated in the Tender Documents, including all Clause of the Standard Conditions of Contract, which the Tenderer considers have financial implications on his tender and which are not covered separately in the various pay items of the Bill of Quantities				
	Clause No ----------	lump sum			
	Clause No ----------	lump sum			
	Clause No ----------	lump sum			
	Clause No ----------	lump sum			
	Clause No ----------	lump sum			
	Clause No ----------	lump sum			
	Clause No ----------	lump sum			
	Clause No ----------	lump sum			
		1-6		Carried to summary	

CONSTRUCTION OF PEDESTRIAN UNDERPASS AT LIWA

BILL OF QUANTITIES

BILL 1 - PRELIMINARIES

Item No	Description	Unit	Estimated Quantity	Unit Rate R.O. Bz	Amount R.O. Bz
	SUMMARY				
	Page 1-1				4000.000
	Page 1-2				9450.000
	Page 1-3				3220.000
	Page 1-4				13500.000
	Page 1-5				210.000
	Page 1-6				0.000
		1-7		To Ground Summary	30380.000

CONSTRUCTION OF PEDESTRIAN UNDERPASS AT LIWA
BILL OF QUANTITIES
BILL 2 - EARTHWORKS

Item No	Description	Unit	Estimated Quantity	Unit Rate R.O. Bz	Amount R.O. Bz
	202 Removal of Structures and Obstructions				
202.1	Removal of Pavement (t=10 cm)	cu.m	85	2.000	170.000
202.2	Removal of Existing Guardrail	m	22	1.800	39.600
202.3	Removal of Curv Stone	m	20	1.500	30.000
	206 Excavation and Backfilling for Structures				
206.1	Structure excavation in soils to a depth of 2m	cu. m.	1533	1.000	1533.000
206.2	Structure excavation in soils to a depth more than 2m	cu. m.	1022	1.700	1737.400
206.3	Structural excavation in rock to a depth of 2m	cu. m.	rate only	2.100	
206.4	Structural excavation in rock to a depth more than 2m	cu. m.	rate only	2.600	
206.5	Extra over 206.1,2,3,4 for excavation under water	cu. m.	rate only	2.900	
		2-1		Carried to summary	3510.000

CONSTRUCTION OF PEDESTRIAN UNDERPASS AT
LIWA
BILL OF QUANTITIES
BILL 2 - EARTHWORKS

Item No	Description	Unit	Estimated Quantity	Unit Rate R.O. Bz	Amount R.O. Bz
	SUMMARY				
	Page 2-1				3510.000
		2-2		To Grand Summary	3510.000

CONSTRUCTION OF PEDESTRIAN UNDERPASS AT
LIWA
BILL OF QUANTITIES
BILL 3 - GRANULAR AND STABILIZED SUBBASE, BASE COURSE, STABILIZED SUBGRADE

Item No	Description	Unit	Estimated Quantity	Unit Rate R.O. Bz	Amount R.O. Bz
	300 GRANULAR AND STABILIZED SUBBASE, BASECOURSE AND STABILIZED SUBGRADE				
	302 Granular Subbase				
302.1	Granular subbase (class B) (150 mm thick)	cu. m.	49	2.000	98.000
	303 Aggregate Basecourse				
303.1	Aggregate basecourse (class B) (200 mm thick)	cu.m	65	3.300	214.500
		3-1		Carried to summary	312.500

CONSTRUCTION OF PEDESTRIAN UNDERPASS AT
LIWA
BILL OF QUANTITIES
BILL 3 - GRANULAR AND STABILIZED SUBBASE, BASE COURSE, STABILIZED SUBGRADE

Item No	Description	Unit	Estimated Quantity	Unit Rate R.O. Bz	Amount R.O. Bz
	SUMMARY				
	Page 3-1				312.500
		3-2		Carried to summary	312.500

CONSTRUCTION OF PEDESTRIAN UNDERPASS AT LIWA
BILL OF QUANTITIES
BILL 4 - BITUMINOUS PAVEMENT

Item No	Description	Unit	Estimated Quantity	Unit Rate R.O. Bz	Amount R.O. Bz
	400 BITUMINOUS PAVEMENT				
	401 Bituminous Prime Coat and Tack Coat				
401.1	Bituminous prime coat (MC 70)	kg	400	0.150	60.000
401.2	Bituminous tack coat (RC 250)	kg	100	0.500	50.000
	402 Bituminous Basecourse				
402.1	Bituminous basecourse (class B) 80 mm.thick	cu.m	26	22.000	572.000
402.4	Increse or decrese in bituminous content from nominal rate	kg	rate only	0.050	
	405 Bituminous Wearing Course				
405.1	Bituminous wearing course (class B) (T=4 cm)	cu. m.	13	28.000	364.000
405.2	Increase or decrease in bitumen content from nominal rate	kg	rate only	0.050	
		4-1		Carried to summary	1046.000

CONSTRUCTION OF PEDESTRIAN UNDERPASS AT
LIWA
BILL OF QUANTITIES
BILL 4 - BITUMINOUS PAVEMENT

Item No	Description	Unit	Estimated Quantity	Unit Rate R.O. Bz	Amount R.O. Bz
	SUMMARY				
	Page 4-1				1046.000
		4-2		Carried to summary	1046.000

CONSTRUCTION OF PEDESTRIAN UNDERPASS AT LIWA
BILL OF QUANTITIES
BILL 5 - CONCRETE AND CONCRETE STRUCTURE

Item No	Description	Unit	Estimated Quantity	Unit Rate R.O. Bz	Amount R.O. Bz
	500 CONCRETE AND CONCRETE STRUCTURE				
	504 Concrete for Structure				
504.1	Concrete Class 16/20 (OPC cement) Blinding	cu. m.	49	22.000	1078.000
504.2	Concrete Class A 24/20 for pedestrian underpass, canopy and stairs (including all formwork, falsework and finish	cu.m	531	43.000	22833.000
	508 Pedestrian Underpass				
508.1	Water Stop	m	74	7.000	518.000
		5-1		Carried to summary	24429.000

CONSTRUCTION OF PEDESTRIAN UNDERPASS AT LIWA
BILL OF QUANTITIES
BILL 5 - CONCRETE AND CONCRETE STRUCTURE

Item No	Description	Unit	Estimated Quantity	Unit Rate R.O. Bz	Amount R.O. Bz
	509 Reinforcing Steel				
509.1	High yield steel bar reinforcement of any diameter	tone	49	285.000	13965.000
		5-2		Carried to summary	13965.000

CONSTRUCTION OF PEDESTRIAN UNDERPASS AT
LIWA
BILL OF QUANTITIES
BILL 5 - CONCRETE AND CONCRETE STRUCTURE

Item No	Description	Unit	Estimated Quantity	Unit Rate R.O. Bz	Amount R.O. Bz
	SUMMARY				
	Page 5-1				24429.000
	Page 5-2				13965.000
		5-3		Carried to summary	38394.000

CONSTRUCTION OF PEDESTRIAN UNDERPASS AT LIWA
BILL OF QUANTITIES
BILL 6 - STRUCTURAL STEEL AND OTHER METALWORK

Item No	Description	Unit	Estimated Quantity	Unit Rate R.O. Bz	Amount R.O. Bz
	600 STRUCTURAL STEEL AND OTHER METALWORK				
	604 Handrail				
604.1	Pedestrian Underpass Handrails (Mild Steel) (D=50 mm)	m	46	15.000	690.000
604.2	Galvanized Steel Bar for canopy (D=50 mm)	m	59	11.000	649.000
		6-1		Carried to summary	1339.000

CONSTRUCTION OF PEDESTRIAN UNDERPASS AT
LIWA
BILL OF QUANTITIES
BILL 6 - STRUCTURAL STEEL AND OTHER METALWORK

Item No	Description	Unit	Estimated Quantity	Unit Rate R.O. Bz	Amount R.O. Bz
	SUMMARY				
	Page 6-1				1339.000
		6-2		Carried to summary	1339.000

CONSTRUCTION OF PEDESTRIAN UNDERPASS AT LIWA
BILL OF QUANTITIES
BILL 8 - DRAINAGE AND SERVICE DUCTS

Item No	Description	Unit	Estimated Quantity	Unit Rate R.O. Bz	Amount R.O. Bz
	805 Water proofing for structure				
805.1	Waterproofing membrane	sq.m.	N/A	1.800	
805.2	Mastic asphalt waterproofing	sq.m.	519	8.000	4152.000
805.3	Bituminous paint	sq.m.	519	0.350	181.650
		8-1		Carried to summary	4333.650

CONSTRUCTION OF PEDESTRIAN UNDERPASS AT
LIWA
BILL OF QUANTITIES
BILL 8 - DRAINAGE AND SERVICE DUCTS

Item No	Description	Unit	Estimated Quantity	Unit Rate R.O. Bz	Amount R.O. Bz
	SUMMARY				
	Page 8-1				4333.650
		8-2		Carried to summary	4333.650

CONSTRUCTION OF PEDESTRIAN UNDERPASS AT LIWA
BILL OF QUANTITIES
BILL 14 - HIGHWAY SIGNS AND ROAD MARKING

Item No	Description	Unit	Estimated Quantity	Unit Rate R.O. Bz	Amount R.O. Bz
	1400 HIGHWAY SIGNS AND ROAD MARKING				
	1401 Highway Signs				
1401.1	Highway sign for pedestrian underpass	n.r.	2	55.000	110.000
		14-1		Carried to summary	110.000

CONSTRUCTION OF PEDESTRIAN UNDERPASS AT
LIWA
BILL OF QUANTITIES
BILL 14 - HIGHWAY SIGNS AND ROAD MARKING

Item No	Description	Unit	Estimated Quantity	Unit Rate R.O. Bz	Amount R.O. Bz
	SUMMARY				
	Page 14-1				110.000
		14-2		To Grand Summary	110.000

CONSTRUCTION OF PEDESTRIAN UNDERPASS AT LIWA
BILL OF QUANTITIES
BILL 17 - UTULITIES

Item No	Description	Unit	Estimated Quantity	Unit Rate R.O. Bz	Amount R.O. Bz
	1700 UTILITIES				
	1701 Utilities				
1701.1	Remove carefully and relocate low voltage electric poles, telephone poles, including removal of lines, excavation, backfilling amd other related works as directed by the Engineer Protect of existing utilities crossing the roadway as shown in Drawing, or as directed by the Engineer	prov sum			4000.000
		17-1		Carried to summary	4000.000

CONSTRUCTION OF PEDESTRIAN UNDERPASS AT
LIWA
BILL OF QUANTITIES
BILL 17 - UTULITIES

Item No	Description	Unit	Estimated Quantity	Unit Rate R.O. Bz	Amount R.O. Bz
	SUMMARY				
	Page 17-1				4000.000
		17-2		To Grand Summary	4000.000

CONSTRUCTION OF PEDESTRIAN UNDERPASS AT LIWA
BILL OF QUANTITIES
BILL 19 - DAYWORKS

Item No	Description	Unit	Estimated Quantity	Unit Rate R.O. Bz	Amount R.O. Bz
	A. WAGES				
	These include proper wages, all used allowance, medical expense and all other charges provided for by local laws				
A.1	Supervisor	hour	10	4.000	40.000
A.2	Site Surveyor	hour	100	3.500	350.000
A.3	Foreman	hour	48	3.200	153.600
A.4	1st Class Operator	hour	48	1.100	52.800
A.5	2nd Class Operator	hour	10	0.950	9.500
A.6	Mechanic	hour	19	1.000	19.000
A.7	Driver	hour	48	1.000	48.000
A.8	Skilled Labour	hour	100	0.650	65.000
A.9	Semi Skilled Labour	hour	100	0.600	60.000
		19-1		Carried to Summary	797.900

CONSTRUCTION OF PEDESTRIAN UNDERPASS AT LIWA
BILL OF QUANTITIES
BILL 19 - DAYWORKS

Item No	Description	Unit	Estimated Quantity	Unit Rate R.O. Bz	Amount R.O. Bz
A.10	Ordinary Labour	hour	100	0.550	55.000
A.11	Mason	hour	100	0.650	65.000
A.12	Painter	hour	100	0.750	75.000
A.13	Carpenter	hour	100	0.650	65.000
A.14	Steel Fitter	hour	100	0.650	65.000
A.15	Electrician	hour	2	0.850	1.700
		19-2		Carried to Summary	326.700

CONSTRUCTION OF PEDESTRIAN UNDERPASS AT LIWA
BILL OF QUANTITIES
BILL 19 - DAYWORKS

Item No	Description	Unit	Estimated Quantity	Unit Rate R.O. Bz	Amount R.O. Bz
	B. OPERATING EQUIPMENT ON SITE				
	These rate include : fuel and lubricants cost, charges for depreciation interest, repairs, maintenance, spare parts, tyres, insurance, etc. Payment will not be made for mechanics or maintenance time which shall be include in and spread over the rates.				
B.1	Motorgrader from 100 hp up to 120 hp	hour	5	9.500	47.500
B.2	Motorgrader from 120 hp up to 150 hp	hour	N/A	11.500	
B.3	Tractor from 60 to 100 hp	hour	N/A	4.000	
B.4	Bulldozer with ripper from 100 hp to 150 hp	hour	5	7.000	35.000
B.5	Bulldozer with ripper from 150 hp to 200 hp	hour	N/A	8.000	
B.6	Bulldozer with ripper from 200 hp to250 hp	hour	N/A	18.000	
B.7	Bulldozer with ripper from 250 hp to 300 hp	hour	N/A	19.500	
B.8	Wheel tractor up to 50 hp	hour	10	4.000	40.000
		19-3		Carried to Summary	122.500

CONSTRUCTION OF PEDESTRIAN UNDERPASS AT LIWA
BILL OF QUANTITIES
BILL 19 - DAYWORKS

Item No	Description	Unit	Estimated Quantity	Unit Rate R.O. Bz	Amount R.O. Bz
B.9	Wheel tractor over 50 hp	hour	N/A	7.000	
B.10	Motor scraper capacity up to 18 cu.m.	hour	N/A	19.000	
B.11	Motor scraper capacity from 18 to 24 cu.m.	hour	N/A	19.000	
B.12	Sheeps foot roller, from 5 tonnes to 10 tonnnes	hour	N/A	5.000	
B.13	Grid roller	hour	N/A	7.000	
B.14	Vibratory compactor with prime mover up to 5 tonnes	hour	4	5.000	20.000
B.15	Vibratory compactor with prime mover from 5 to 10 tonnes	hour	4	7.000	28.000
B.16	Pneumatic compactor with prime mover from 30 to 50 tonnes	hour	N/A	7.000	
B.17	Pneumatic self-propelled rollers from 15 to 20 tonnes	hour	N/A	4.500	
B.18	Tandem roller up to 8 tonnes	hour	24	4.500	108.000
B.19	Tandem roller from 8 to 12 tonnes	hour	N/A	5.000	
		19-4		Carried to Summary	156.000

CONSTRUCTION OF PEDESTRIAN UNDERPASS AT LIWA
BILL OF QUANTITIES
BILL 19 - DAYWORKS

Item No	Description	Unit	Estimated Quantity	Unit Rate R.O. Bz	Amount R.O. Bz
B.20	Triaxle roller from 10 to 15 tonnes	hour	N/A	5.000	
B.21	Light frog- rammer 0.1 tonne	hour	N/A	0.500	
B.22	Heavy frog-rammer 0.5 tonne	hour	20	0.700	14.000
B.23	Wheel loder 1.2 to 1.6 cu.m.	hour	20	9.500	190.000
B.24	Wheel loder 1.6 to 2.0 cu.m.	hour	N/A	10.000	
B.25	Wheel loder 2.0 to 2.5 cu.m.	hour	N/A	11.000	
B.26	Excavator up to 0.8 cu.m.	hour	15	5.500	82.500
B.27	Excavator from 0.8 to 1.2 cu.m.	hour	N/A	7.500	
B.28	Bituminous mixing plant with batching apparatus up to 80 t/h.	hour	N/A	18.000	
B.29	Bituminous mixing plant with batching apparatus from 80 to 150 t/h.	hour	N/A	23.000	
B.30	Finisher up to 80 t/h.	hour	10	9.000	90.000
		19-5		Carried to Summary	376.500

CONSTRUCTION OF PEDESTRIAN UNDERPASS AT LIWA
BILL OF QUANTITIES
BILL 19 - DAYWORKS

Item No	Description	Unit	Estimated Quantity	Unit Rate R.O. Bz	Amount R.O. Bz
B.31	Finisher from 80 t/h to 120 t/h.	hour	N/A	10.000	
B.32	Bitumen sprayer up to 6 tonnes	hour	10	5.000	50.000
B.33	Tanker truck up to 6 cu.m.	hour	15	5.000	75.000
B.34	Dump truck up to 10 tonnes	hour	17	5.500	93.500
B.35	Dump truck from 10 to 15 tonnes	hour	N/A	6.000	
B.36	Screening plant from 80 to 100 t/h.	hour	N/A	16.000	
B.37	Crushing plant from 40 to 60 t/h.	hour	N/A	20.000	
B.38	Crushing plant with primary and secondary from 60 to 100 t/h.	hour	N/A	30.000	
B.39	Air compressor up to 6000 l/m.	hour	15	1.500	22.500
B.40	Air compressor over 6000 l/m.	hour	15	2.000	30.000
B.41	Mechanical broom	hour	N/A	4.000	
		19-6		Carried to Summary	271.000

CONSTRUCTION OF PEDESTRIAN UNDERPASS AT
LIWA
BILL OF QUANTITIES
BILL 19 - DAYWORKS

Item No	Description	Unit	Estimated Quantity	Unit Rate R.O. Bz	Amount R.O. Bz
B.42	Power water pump	hour	N/A	0.700	
B.43	Steel cutting machine	hour	5	0.800	4.000
B.44	Steel bending machine	hour	N/A	1.200	
B.45	Belt conveyor	hour	N/A	7.000	
B.46	Concrete mixer up to 0.5 cu.m.	hour	10	2.000	20.000
B.47	Concrete mixer over 0.5 cu.m.	hour	N/A	4.000	
B.48	Automatic concrete batch plant without mixing drum	hour	N/A	7.500	
B.49	Transmixer up to 5 cu.m.	hour	N/A	6.500	
B.50	Concrete vibrators	hour	59	0.150	8.850
B.51	Crane up to 5 tonnes.	hour	N/A	4.500	
B.52	Crane with broom and jib 5 to 10 tonnes	hour	N/A	8.000	
		19-7		Carried to Summary	32.850

CONSTRUCTION OF PEDESTRIAN UNDERPASS AT LIWA
BILL OF QUANTITIES
BILL 19 - DAYWORKS

Item No	Description	Unit	Estimated Quantity	Unit Rate R.O. Bz	Amount R.O. Bz
B.53	Crane with boom and jib over 10 tonnes	hour	N/A	11.000	
B.54	Generator 60 kw	hour	5	1.500	7.500
B.55	Generator 75 kw	hour	N/A	1.800	
B.56	Drilling equipment	hour	N/A	0.200	
B.57	Generator 100 kw	hour	N/A	3.000	
B.58	Generator 150 kw	hour	N/A	4.000	
B.59	Generator 200 kw	hour	N/A	5.000	
B.60	Gravel strewer	hour	N/A	10.000	
		19-8		Carried to Summary	7.500

CONSTRUCTION OF PEDESTRIAN UNDERPASS AT LIWA
BILL OF QUANTITIES
BILL 19 - DAYWORKS

Item No	Description	Unit	Estimated Quantity	Unit Rate R.O. Bz	Amount R.O. Bz
	C. MATERIALS These rates include all the charges for the supply of the materials, loading, transport to site, unloading and stores as well as all the charges provided for in the General and Special Specifications and in the Contract.				
C.1	Aggregate for granular sub-base course in accordance with the General and Special Specifications, in place as specified.	cu.m.	5	1.000	5.000
C.2	Aggregate for granular aggregate base course in accordance with the Gener Special Specifications, in place as specified.	cu.m.	3	2.000	6.000
C.3	Aggregate for bituminous base course in accordance with the General and Special Specifications, near the asphalt plant, in bulk	cu.m.	5	2.000	10.000
C.4	Fine aggregate for concrete, in accordance with the General and Special Specifications, in place, in bulk	cu.m.	3	2.000	6.000
C.5	Coarse aggregates for concrete, in accordance with the General and Special specifications, in place, in bulk	cu.m.	5	1.200	6.000
		19-9		Carried to Summary	33.000

CONSTRUCTION OF PEDESTRIAN UNDERPASS AT LIWA
BILL OF QUANTITIES
BILL 19 - DAYWORKS

Item No	Description	Unit	Estimated Quantity	Unit Rate R.O. Bz	Amount R.O. Bz
C.6	Stone for drainage, masonry and slope protection, in accordance with the General and Special Specifications in place	cu.m.	3	2.500	7.500
C.7	Asphalt cement, grade 60-70 on site	ton	0.1	44.000	4.400
C.8	Asphalt cement, grade 50-60 on site	ton	0.1	48.000	4.800
C.9	Emulsified asphalt, grade RS-1 on site	ton	0.1	70.000	7.000
C.10	Cutback asphalt, MC and RC type on site	ton	0.1	75.000	7.500
C.11	Portland cement on site	ton	0.1	25.000	2.500
C.12	Deformed billet steel bars, AASHTO M 31 grade 60 (High Yield) of any diameter	ton	0.1	135.000	13.500
C.13	Deformed billet steel bars AASHTO M 31 grade 40 (Mild) of any diameter	ton	0.1	135.000	13.500
C.14	Highway signs	sq.m.	3	32.000	96.000
C.15	Highway sign supports - 1 post	nr.	4	15.000	60.000
		19-10		Carried to Summary	216.700

CONSTRUCTION OF PEDESTRIAN UNDERPASS AT LIWA
BILL OF QUANTITIES
BILL 19 - DAYWORKS

Item No	Description	Unit	Estimated Quantity	Unit Rate R.O. Bz	Amount R.O. Bz
C.16	Highway sign supports - 2 post	nr.	2	20.000	40.000
C.17	Timber plank, on site	cu.m.	1	105.000	105.000
C.18	Timber props, on site	cu.m.	1	105.000	105.000
C.19	Wire mesh gabgions, on site	ton	0.5	320.000	160.000
C.20	Explosive, on site	kg.	N/A	20.000	
C.21	Gas oil, on site	litre	50	0.080	4.000
C.22	Gasoline, on site	litre	250	0.120	30.000
C.23	Lubricant	kg.	3	0.300	0.900
		19-11		Carried to Summary	444.900

CONSTRUCTION OF PEDESTRIAN UNDERPASS AT LIWA
BILL OF QUANTITIES
BILL 19 - DAYWORKS

Item No	Description	Unit	Estimated Quantity	Unit Rate R.O. Bz	Amount R.O. Bz
	SUMMARY				
	Page 19-1				797.900
	Page 19-2				326.700
	Page 19-3				122.500
	Page 19-4				156.000
	Page 19-5				376.500
	Page 19-6				271.000
	Page 19-7				32.850
	Page 19-8				7.500
	Page 19-9				33.000
	Page 19-10				216.700
	Page 19-11				444.900
		19-12		To Grand Summary	2785.550

BILL OF QUANTITIES

GRAND SUMMARY

Bill No	Description	Amount R.O.
1	Preliminaries	30380.000
2	Earthworks	3510.000
3	Granular and stabilized subbase, basecourse and stabilized subgrade	312.500
4	Bituminous Pavement	1046.000
5	Concrete and concrete structure	38394.000
6	Structural steel and other metal work	1339.000
7	Paint	N/A
8	Drainage and service ducts	4333.650
9	Slope protection and stabilization	N/A
10	Piling	N/A
11	Bridge bearing, expansion joints, joint seals and fillers	N/A
12	Sidewalks, paved areas and kerbs	N/A
13	Safety barriers, delineators and fences	N/A
14	Highway signs and road marking	110.000
15	Electrical installations	N/A
16	Landscape and irrigation	N/A
17	Utilities	4000.000
18	Plant and Equipment	N/A
19	Dayworks	2785.550
	Sub-total	86210.700
	Contingencies (10%)	8621.070
	TOTAL CONTRACT VALUE (R.O)	94831.770

(IN WORDS, THE TOTAL TENDER VALUE IS RIAL OMANI)

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NAME OF TENDERER DATE

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SIGNATURE OF TENDERER
