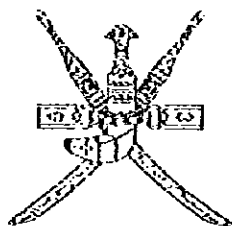



**SULTANATE OF OMAN**  
**MINISTRY OF COMMUNICATIONS**  
**DIRECTORATE GENERAL OF ROADS**



**CONSTRUCTION OF**  
**PEDESTRIAN UNDERPASS**  
**AT**  
**AL KHADRA**  
**BATINAH HIGHWAY**

**TENDER DOCUMENTS**

**BILL OF QUANTITIES**

JICA LIBRARY  
  
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SSF
CR(5)
97-015

1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes that this is essential for ensuring transparency and accountability in the organization's operations.

2. The second part of the document outlines the various methods and tools used to collect and analyze data. It highlights the need for consistent and reliable data collection processes to support effective decision-making and strategic planning.

3. The third part of the document focuses on the role of technology in data management and analysis. It discusses how modern software solutions can streamline data collection, storage, and reporting, thereby improving efficiency and accuracy.

4. The fourth part of the document addresses the challenges associated with data security and privacy. It provides guidance on implementing robust security measures to protect sensitive information from unauthorized access and breaches.

5. The fifth part of the document concludes by summarizing the key findings and recommendations. It stresses the importance of ongoing monitoring and evaluation to ensure that data management practices remain effective and aligned with the organization's goals.

**CONSTRUCTION OF PEDESTRIAN UNDERPASS AT**

**AL KHADRA**

**BILL OF QUANTITIES**

**BILL 1 - PRELIMINARIES**

Item No	Description	Unit	Estimated Quantity	Unit Rate		Amount	
				R.O.	Bz	R.O.	Bz
	<b>SECTION 100 PRELIMINARIES</b>						
	<b>101 Bonds and Insurance</b>						
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



1138448(4)

**CONSTRUCTION OF PEDESTRIAN UNDERPASS AT**

**AL KHADRA**

**BILL OF QUANTITIES**

**BILL 1 - PRELIMINARIES**

Item No	Description	Unit	Estimated Quantity	Unit Rate		Amount	
				R.O.	Bz	R.O.	Bz
	<b>104 Facilities for the Engineer</b>						
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  
AL KHADRA  
BILL OF QUANTITIES  
BILL 1 - PRELIMINARIES**

Item No	Description	Unit	Estimated Quantity	Unit Rate		Amount	
				R.O.	Bz	R.O.	Bz
104.6	Maintenance of Engineer's accommodation	month	16	150.000		2400.000	
	(i) Resident Engineer's accommodation (Type B, 2 unit x 8)	month	N/A	250.000			
	(ii) Engineer's accommodation (Type C, 1 unit 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					
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	
I-3				Carried to summary		3220.000	



**CONSTRUCTION OF PEDESTRIAN UNDERPASS AT**

**AL KHADRA**

**BILL OF QUANTITIES**

**BILL 1 - PRELIMINARIES**

Item No	Description	Unit	Estimated Quantity	Unit Rate		Amount	
				R.O.	Bz	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			
					Carried to summary		13500.000

**CONSTRUCTION OF PEDESTRIAN UNDERPASS AT**

**AL KHADRA**

**BILL OF QUANTITIES  
BILL 1 - PRELIMINARIES**

Item No	Description	Unit	Estimated Quantity	Unit Rate		Amount	
				R.O.	Ez	R.O.	Ez
	<b>108 Progress Photographs</b>						
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	
	<b>109 Sign Boards</b>						
109.1	Provision, erection, moving and maintenance of signboard (Wooden Type)	n.r.	N/A	300.000			
	<b>110 Commemoration Plaque and Opening Ceremony</b>						
110.1	Supply and erection of commemoration plaque (Optional)	n.r.	N/A				
110.2	Opening ceremony (Optional)	lump sum					
				1-5		Carried to summary	210.000

CONSTRUCTION OF PEDESTRIAN UNDERPASS AT  
AL KHADRA  
BILL OF QUANTITIES  
BILL 1 - PRELIMINARIES

Item No	Description	Unit	Estimated Quantity	Unit Rate		Amount
				R.O.	Bz	
115.1	115 Compliance with the Tender Documents  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**

**AL KHADRA**

**BILL OF QUANTITIES  
BILL 2 - EARTHWORKS**

Item No	Description	Unit	Estimated Quantity	Unit Rate		Amount
				R.O.	Bz	
	<b>202 Removal of Structures and Obstructions</b>					
202.1	Removal of Pavement (r=10 cm)	cu.m	99	2.000		198.000
202.2	Removal of Existing Guardrail	m	22	1.800		39.600
202.3	Removal of Curv Stone	m	0	1.500		0.000
	<b>206 Excavation and Backfilling for Structures</b>					
206.1	Structure excavation in soils to a depth of 2m	cu. m.	1534	1.000		1534.000
206.2	Structure excavation in soils to a depth more than 2m	cu. m.	1023	1.700		1739.100
206.3	Structural excavation in rock to a depth of 2m	cu. m.		2.100		
206.4	Structural excavation in rock to a depth more than 2m	cu. m.		2.600		
206.5	Extra over 206.1,2,3,4 for excavation under water	cu. m.		2.900		
				2-1	Carried to summary	3510.700

CONSTRUCTION OF PEDESTRIAN UNDERPASS AT  
AL KHADRA  
BILL OF QUANTITIES  
BILL 2 - EARTHWORKS

Item No	Description	Unit	Estimated Quantity	Unit Rate		Amount	
				R.O.	Bz	R.O.	Bz
SUMMARY							
Page 2-1						3510.700	
		2-2			To Grand Summary	3510.700	

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

Item No	Description	Unit	Estimated Quantity	Unit Rate		Amount	
				R.O.	Bz	R.O.	Bz
	<b>300 GRANULAR AND STABILIZED SUBBASE, BASECOURSE AND STABILIZED SUBGRADE</b>						
	<b>302 Granular Subbase</b>						
302.1	Granular subbase (class E) (150 mm thick)	cu. m.	48		2.000		96.000
	<b>303 Aggregate Basecourse</b>						
303.1	Aggregate basecourse (class E) (200 mm thick)	cu.m	64		3.300		211.200
			<b>3-1</b>	Carried to summary		<b>307.200</b>	

CONSTRUCTION OF PEDESTRIAN UNDERPASS AT

AL KHADRA

BILL OF QUANTITIES

BILL 3 - GRANULAR AND STABILIZED SUBBASE, BASE COURSE, STABILIZED SUBGRADE

Item No	Description	Unit	Estimated Quantity	Unit Rate		Amount
				R.O.	Bz	
	SUMMARY					
	Page 3-1					307.200
		3-2			Carried to summary	307.200



**CONSTRUCTION OF PEDESTRIAN UNDERPASS AT**

**AL KHADRA**

**BILL OF QUANTITIES**

**BILL 4 - BITUMINOUS PAVEMENT**

Item No	Description	Unit	Estimated Quantity	Unit Rate		Amount
				R.O.	Bz	
	<b>400 BITUMINOUS PAVEMENT</b>					
	<b>401 Bituminous Prime Coat and Tack Coat</b>					
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
	<b>402 Bituminous Basecourse</b>					
402.1	Bituminous basecourse (class B) 80 mm. thick	cu.m	25	22.000		550.000
402.4	Increase or decrease in bituminous content from nominal rate	kg	rate only	0.050		
	<b>405 Bituminous Wearing Course</b>					
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		1024.000

CONSTRUCTION OF PEDESTRIAN UNDERPASS AT

AL KHADRA

BILL OF QUANTITIES

BILL 4 - BITUMINOUS PAVEMENT

Item No	Description	Unit	Estimated Quantity	Unit Rate		Amount
				R.O.	Bz	
	SUMMARY					
	Page 4-1					1024.000
		4-2			Carried to summary	1024.000

**CONSTRUCTION OF PEDESTRIAN UNDERPASS AT**

**AL KHADRA**

**BILL OF QUANTITIES**

**BILL 5 - CONCRETE AND CONCRETE STRUCTURE**

Item No	Description	Unit	Estimated Quantity	Unit Rate		Amount	
				R.O.	Bz	R.O.	Bz
	<b>500 CONCRETE AND CONCRETE STRUCTURE</b>						
	<b>504 Concrete for Structure</b>						
504.1	Concrete Class 16/20 (OPC cement) Blinding	cu. m.	46		22.000		1012.000
504.2	Concrete Class A 24/20 for pedestrian underpass, canopy and stairs (including all formwork, falsework and finish	cu.m	526		43.000		22618.000
	<b>508 Pedestrian Underpass</b>						
508.1	Water Stop	m	74		7.000		518.000
			5-1	Carried to summary			24148.000

CONSTRUCTION OF PEDESTRIAN UNDERPASS AT

AL KHADRA

BILL OF QUANTITIES

BILL 5 - CONCRETE AND CONCRETE STRUCTURE

Item No	Description	Unit	Estimated Quantity	Unit Rate		Amount
				R.O.	Bz	
509.1	509 Reinforcing Steel High yield steel bar reinforcement of any diameter	tonc	47		285.000	13395.000
				5-2	Carried to summary	13395.000

CONSTRUCTION OF PEDESTRIAN UNDERPASS AT

AL KHADRA

BILL OF QUANTITIES

BILL 5 - CONCRETE AND CONCRETE STRUCTURE

Item No	Description	Unit	Estimated Quantity	Unit Rate		Amount	
				R.O.	Bz	R.O.	Bz
	SUMMARY						
	Page 5-1					24148.000	
	Page 5-2					13395.000	
				5-3	Carried to summary		37543.000

**CONSTRUCTION OF PEDESTRIAN UNDERPASS AT**

**AL KHADRA**

**BILL OF QUANTITIES**

**BILL 6 - STRUCTURAL STEEL AND OTHER METALWORK**

Item No	Description	Unit	Estimated Quantity	Unit Rate		Amount	
				R.O.	Bz	R.O.	Bz
	<b>600 STRUCTURAL STEEL AND OTHER METALWORK</b>						
	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  
AL KHADRA

BILL OF QUANTITIES

BILL 6 - STRUCTURAL STEEL AND OTHER METALWORK

Item No	Description	Unit	Estimated Quantity	Unit Rate	
				R.O.	Bz
	SUMMARY				
	Page 6-1				1339,000
				6-2	Carried to summary
					1339,000

CONSTRUCTION OF PEDESTRIAN UNDERPASS AT

AL KHADRA

BILL OF QUANTITIES

BILL 8 - DRAINAGE AND SERVICE DUCTS

Item No	Description	Unit	Estimated Quantity	Unit Rate		Amount	
				R.O.	Bz	R.O.	Bz
S05	Water proofing for structure						
S05.1	Waterproofing membrane	sq.m.	N/A	1.800			
S05.2	Mastic asphalt waterproofing	sq.m.	519	8.000		4152.000	
S05.3	Bituminous paint	sq.m.	519	0.350		181.650	
				8-1	Carried to summary		4333.650





CONSTRUCTION OF PEDESTRIAN UNDERPASS AT

AL KHADRA

BILL OF QUANTITIES

BILL 14 - HIGHWAY SIGNS AND ROAD MARKING

Item No	Description	Unit	Estimated Quantity	Unit Rate		Amount	
				R.O.	Bz	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

AL KHADRA

BILL OF QUANTITIES

BILL 14 - HIGHWAY SIGNS AND ROAD MARKING

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

**CONSTRUCTION OF PEDESTRIAN UNDERPASS AT  
AL KHADRA  
BILL OF QUANTITIES  
BILL 17 - UTILITIES**

Item No	Description	Unit	Estimated Quantity	Unit Rate		Amount	
				R.O.	Bz	R.O.	Bz
	<b>1700 UTILITIES</b>						
1701.1	Remove carefully and relocate low voltage electric poles, telephone poles, including removal of lines, excavation, backfilling and 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  
AL KHADRA  
BILL OF QUANTITIES  
BILL 17 - UTILITIES

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

**CONSTRUCTION OF PEDESTRIAN UNDERPASS AT**

**AL KHADRA**

**BILL OF QUANTITIES**

**BILL 19 - DAYWORKS**

Item No	Description	Unit	Estimated Quantity	Unit Rate		Amount	
				R.O.	Bz	R.O.	Bz
<b>A. WAGES</b>							
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**

**AL KHADRA**

**BILL OF QUANTITIES**

**BILL 19 - DAYWORKS**

Item No	Description	Unit	Estimated Quantity	Unit Rate		Amount	
				R.O.	Bz	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  
AL KHADRA  
BILL OF QUANTITIES  
BILL 19 - DAYWORKS**

Item No	Description	Unit	Estimated Quantity	Unit Rate		Amount	
				R.O.	Ez	R.O.	Ez
<b>B. OPERATING EQUIPMENT ON SITE</b>							
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 to 250 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
				Carried to Summary		122.500	



**CONSTRUCTION OF PEDESTRIAN UNDERPASS AT**

**AL KHADRA**

**BILL OF QUANTITIES**

**BILL 19 - DAYWORKS**

Item No	Description	Unit	Estimated Quantity	Unit Rate		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 tonnes	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  
AL KHADRA  
BILL OF QUANTITIES  
BILL 19 - DAYWORKS**

Item No	Description	Unit	Estimated Quantity	Unit Rate		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 loader 1.2 to 1.6 cu.m.	hour	20	9.500		190.000
B.24	Wheel loader 1.6 to 2.0 cu.m.	hour	N/A	10.000		
B.25	Wheel loader 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
				Carried to Summary		376.500

**CONSTRUCTION OF PEDESTRIAN UNDERPASS AT  
AL KHADRA  
BILL OF QUANTITIES  
BILL 19 - DAYWORKS**

Item No	Description	Unit	Estimated Quantity	Unit Rate		Amount	
				R.O.	Bz	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  
AL KHADRA  
BILL OF QUANTITIES  
BILL 19 - DAYWORKS**

Item No	Description	Unit	Estimated Quantity	Unit Rate		Amount	
				R.O.	Bz	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		1.300		
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  
AL KHADRA  
BILL OF QUANTITIES  
BILL 19 - DAYWORKS**

Item No	Description	Unit	Estimated Quantity	Unit Rate		Amount	
				R.O.	Bz	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**

**AL KHADRA**

**BILL OF QUANTITIES**

**BILL 19 - DAYWORKS**

Item No	Description	Unit	Estimated Quantity	Unit Rate		Amount	
				R.O.	Bz	R.O.	Bz
<b>C. MATERIALS</b>							
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 General and 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**

**AL KHADRA**

**BILL OF QUANTITIES  
BILL 19 - DAYWORKS**

Item No	Description	Unit	Estimated Quantity	Unit Rate		Amount	
				R.O.	Bz	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	Outback 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  
AL KHADRA  
BILL OF QUANTITIES  
BILL 19 - DAYWORKS

Item No	Description	Unit	Estimated Quantity	Unit Rate		Amount	
				R.O.	Bz	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 gabions, 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

AL KHADRA

BILL OF QUANTITIES  
BILL 19 - DAYWORKS

Item No	Description	Unit	Estimated Quantity	Unit Rate		Amount	
				R.O.	Bz	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	3510.700
3	Granular and stabilized subbase, basecourse and stabilized subgrade	307.200
4	Bituminous Pavement	1024.000
5	Concrete and concrete structure	37543.000
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	85333.100
	Contingencies (10%)	8533.310
	<b>TOTAL CONTRACT VALUE (R.O)</b>	<b>93866.410</b>

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

NAME OF TENDERER

DATE

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SIGNATURE OF TENDERER



