



SULTANATE OF OMAN

MINISTRY OF COMMUNICATIONS DIRECTORATE GENERAL OF ROADS



CONSTRUCTION OF PEDESTRIAN UNDERPASS AT LIWA BATINAH HIGHWAY

TENDER DOCUMENTS

BILL OF QUANTITIES



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	CONSTRUCTION OF PEDESTRIAN UNDERPASS AT	N UNDE	RPASS AT		
	BILL OF QUANTITIES BILL 1 - PRELIMINARIES	TES			
Item No	Description	Unit	Estimated	rat	nn(
			Quantity	R.O. Bz	R.O. Bz
	SECTION 100 PRELIMINARIES				
A 4 11 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	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)	Jump sum			
101.3	Damage to Persons and Property (Clause 22 of Standard Condition of Contract)	mns dmnl			
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	Car	Carried to summary	4000.000

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	CONSTRUCTION OF PEDESTRIAN UNDERPASS AT	N UNDE	RPASS AT		
	LIWA				
	BILL OF QUANTITIES BILL 1 - PRELIMINARIES	ries Aries			green de la constant
Item No	Description	Unit	Estimated	💥	崩
			Quantity	R.O. Bz	R.O. Bz
ing de la	104 Facilities for the Engineer				
104.3	Provision of Engineer's office (Type A, 1 unit x 7)	month	L -	250.000	1750.000
104.2	Maintenance of Engineer's office (Type A, 1 unit x 7)	month	1~	150.000	1050.000
104.3	Provision of surveying instruments	month	[-	300.000	2100.000
104.4	Maintenance of surveying instruments	month	1-	150.000	1050.000
104.5	Provision of Engineer's accommodation				
	(i) Resident Engineer's accommodation (Type B, 2 unit \times 7)	month	14	250,000	3500,000
	(ii) Engineer's accommodation (Type C, 1 units \times 8)	month	N/A	150.000	
- Principle Considera	(iii) Engineer's accommodation (Type B, 1 unit x 8)	month	N/A	250.000	adia Cultivi et Su
□ . 3 . 7 . 17 . 47 . 17 . 1	(iv) Dining/Kitchen (Type D, 1 unit x 8)	month	N/A	250.000	egit alat di mangrafi a transita di mangrafi a
		<u> </u>			обектом поставления на поставления на поставления на поставления на поставления на поставления на поставления
		1-2	Cax	Carried to summary	9450.000

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	CONSTRUCTION OF PEDESTRIAN UNDERPASS AT LIWA	N UNDE	RPASS AT		
	BILL 1 - PRELIMINARIES	ries Aries			
Item No	Description	Unit	Estimated	逆	빏
104.6	Maintenance of Engineer's accommodation		Quantity	K.O. bz	K.O. 52
	(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 \times 8)	month	N/A	250.000	
-	(iii) Engineer's accommodation (Type B, 1 unit x 8)	month	. N/N	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	t-	80.000	260,000
104.10	In situ soil bearing capacity tests	n,r.	ಣ	20.000	60,000
104.11	Sub-soil investigation by specialist Contractor	prov. sum		200.000	200.000
		1-3	Са	Carried to summary	3220.000

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	CONSTRUCTION OF PEDESTRIAN UNDERPASS AT	AN UNDE	RPASS AT		
	BILL 1 - PRELIMINARIES	TIES ARIES			
Item No	Description	Unit	Estimated	Ι≝Ι	片
	105 Assistance for Engineer		Quantity	R.O. Bz	R.O. Bz
105.1	Laborers to assist the Engineer (nox 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	۲-	200,000	3500,000
	107 Maintenance and Protection of Traffic				
107.1	Maintenance and protection of traffic	mns dmnl	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)	ca. 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 Bagincer (3 cm, thick)	cn. m.	rate only	3.000	
		.,,,	-	<u>.</u>	
		1.4	Car	Carried to summary	13500.000

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Carpet Michigan	CONSTRUCTION OF PEDESTRIAN UNDERPASS AT	N UNDE	RPASS AT		
	LIWA				
	BILL 1 - PRELIMINARIES	TIES ARIES			
Item No	Description	Unit	Estimated	Unit Rate	Amount
·			Quantity	R.O. Bz	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	t~	30.000	210.000
	109 Sign Boards				
109.1	Provision, erection, moving and maintenance of signboard (Wooden Type)	n,r.	N/A	300.000	
υ(1) <u>γ</u> (2 α γ	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			
al mirror de la companion de l					
		1-5	రో	Carried to summary	210.000

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	CONSTRUCTION OF PEDESTRIAN UNDERPASS AT	N UNDE	RPASS AT		
	LIWA BILL OF GHANTITIES	PIES			
	BILL 1 - PRELIMINARIES	ARIES			
Item No	Description	Unit	Estimated	Unit Rate	Amount
Auc Au			Quantity	R.O. Bz	R.O. Bz
· · · · · · · · · · · · · · · · · · ·	115 Compliance with the Tender Documents				
년 13 년	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				
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	Clause No	mns dmnl			
	Clause No	uns dun			
	Clause No	lump sum			
	Clause No	mns dmn			
	Clause No	mns duni			
	Clause No	lump sum			
	Clause No	mns duni			
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	CONSTRUCTION OF PEDESTRIAN UNDERPASS AT	N UNDE	RPASS AT		
O-Calbert Sch	LIWA				
	BILL 1 - PRELIMINARIES	TES ARIES			
Item No	Description	Unit	Estimated	Unit Rate	Amount
			Quantity	R.O. Bz	R.O. Bz
	SUMMARY				
المراجعة عنامة مراجعة	Page 1-1				4000.000
	Page 1-2				9450.000
Mh.Q. supagași an	Page 1-3				3220.000
	Page 1-4				13500.000
	Page 1.5				210.000
	Page 1-6				0.000
in in a second					
		1-7	To	To Ground Summary	30380.000

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	CONSTRUCTION OF PEDESTRIAN UNDERPASS LIWA	N UNDE	RPASS AT		
	BILL OF QUANTITIES BILL 2 - EARTHWORKS	ries Orks			
Item No	Description	Unit	Estimated	¥.	뉡
			Quantity	R.O. Bz	R.O. Bz
	202 Removal of Structures and Obstructions				MARANTE PARALE
202.1	Removal of Pavement (t=10 cm)	cu.m	<u>.</u> 28	2.000	170.000
202.2	Removal of Existing Guardrail	E	55	1.800	39.600
202.3	Removal of Curv Stone	E	20	1.500	30.000
	206 Excavation and Backfilling for Structures			·	and and an annual and an annual and an annual and an
206.1	Structure excavation in soils to a depth of 2m	ca. m.	1533	1.000	1533.000
206.2	Structure excavation in soils to a depth more than 2m	ca. m.	1022	1.700	1737.400
206.3	Structural excavation in rock to a depth of 2m	cu. m.	rate only	2.100	and delivery to the second
206.4	Structural excavation in rock to a depth more than 2m	ca. m.	rate only	2.600	
206,5	Extra over 206.1,2,3,4 for excavation under water	cu. m.	rate only	2.900	i i a pian Sagri
		2-1	Car	Carried to summary	3510.000

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		Bz		00	· · · · · · · · · · · · · · · · · · ·	Chronister in deglarge			8
		Amount R.O. I		3510.000			·		3510.000
		Unit Rate R.O. Bz							To Grand Summary
RPASS AT		Estimated Quantity							To
AN UNDE	TIES ORKS	Unit							2-2
CONSTRUCTION OF PEDESTRIAN UNDERPASS AT	BILL 2 - EARTHWORKS	Description	SUMMARY	Page 2-1					
		Item No	-						

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	CONSTRUCTION OF PEDESTRIAN UNDERPASS AT	N UNDE	RPASS AT		
- Selection for the second	BILL OF QUANTITIES BILL 3 - GRANULAR AND STABILIZED SUBBASE, BASE	TES SE COU	RSE, STABII	OF QUANTITIES SUBBASE, BASE COURSE, STABILIZED SUBGRADE	ADE
Item No	Description	Unit	Estimated	벌	밁
			Quantity	R.O. Bz	R.O. Bz
	300 GRANULAR AND STABILIZED SUBBASE, BASECOURSE AND STABILIZED SUBGRADE				C this is the second of the se
	302 Granular Subbase				
302.1	Granular subbase (class B) (150 mm thick)	cu. m.	49	2.000	000.86
	303 Aggregate Basecourse				
303.1	Aggregate basecourse (class B) (200 mm thick)	ca.m	65	3.300	214,500
		3-1	Car	Carried to summary	312,500

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	CONSTRUCTION OF PEDESTRIAN UNDERPASS AT	AN UNDE	RPASS AT	·	
	BILL OF QUANTITIES BILL 3 - GRANULAR AND STABILIZED SUBBASE, BASE COURSE, STABILIZED SUBGRADE	TIES ASE COU	RSE, STABII	IZED SUBGR	ADE
Item No	Description	Unit	Estimated	Unit Rate	Amount
	-		Quantity	R.O. Bz	R.O. Bz
	SUMMARY				
	Page 3-1				312.500
·/-,					
g agod o a seneral ares					
الحرار معالج معالج					
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		ଅ- ଅ	Ö	Carried to summary	312.500

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	CONSTRUCTION OF PEDESTRIAN UNDERPASS AT	N UNDE	RPASS AT		
	LIWA BILL OF QUANTITIES BILL 4 - BITUMINOUS PAVEMENT	TES AVEMEN	E		
Item No	Description	Unit	Estimated	Unit Rate	Amount
Pinesa			Quantity	R.O. Bz	R.O. Bz
	400 BITUMINOUS PAVEMENT				
· ·	401 Bituminous Prime Coat and Tack Coat				

401.1	Bituminous prime coat (MC 70)	** ?r	400	0.150	60.000
401.2	Bituminous tack coat (RC 250)	'n gr	100	0.500	20.000
*	402 Bituminous Basecourse				
402.1	Bituminous basecourse (class B) 80 mm.thick	cn.m	26	22.000	572.000
402.4	Increse or decrese in bituminous content from nominal rate	.አ ያዩ	rate only	0.050	,
	405 Bituminous Wearing Course				
				·	, Milan
405.1	Bituminous wearing course (class B) (T=4 cm)	ca. m.	13	28.000	364,000
405.2	Increase or decrease in bitumen content from nominal rate	- ਮ ੂਨ	rate only	0.050	
		4-1	Can	Carried to summary	1046.000

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	CONSTRUCTION OF PEDESTRIAN UNDERPASS AT	N UNDE	RPASS AT		
	BILL OF QUANTITIES BILL 4 - BITUMINOUS PAVEMENT	ries Avemen	Ŧ		-
Item No	Description	Unit	Estimated	벌	뭐
	SUMMARY		Quantity	K.O. Bz	R.O. Bz
	Page 4-1				1046.000
				<u> </u>	
		4-2	Can	Carried to summary	1046.000

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	CONSTRUCTION OF PEDESTRIAN UNDERPASS AT	N UNDE	RPASS AT		
-	BILL OF QUANTITIES BILL 5 - CONCRETE AND CONCRETE STRUCTURE	NES RETE ST	RUCTURE		
Item No	Description	Unit	Estimated	ह	ă
	adrinotians anadonoo dna anadonoo oor		Quantity	K.O. bz	K.O. bz
	504 Concrete for Structure				
504.1	Concrete Class 16/20 (OPC cement) Blinding	cu. m.	49	22.000	1078.000
. 204.2	Concrete Class A 24/20 for pedestman underpass, canopy and stairs (including all formwork, falsework and finish	ca.m	531	43.000	22833.000
	508 Pedestrian Underpass				
508.1	Water Stop	E	4.	7.000	518.000
		5-1	Car	Carried to summary	24429.000

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	CONSTRUCTION OF PEDESTRIAN UNDERPASS AT 1.TWA	שמעט אונ	Krado al		
	BILL 5 - CONCRETE AND CONCRETE STRUCTURE	ries Rete sti	RUCTURE		
Item No	Description	Unit	Estimated	逆	밁
			Quantity	R.O. Bz	R.O. Bz
	509 Reinforcing Steel				
509.1	High yield steel bar reinforcement of any diameter	tone	49	285.000	13965.000
		5-2	Car	Carried to summary	13965.000

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Item No Description SUMMARY Page 5-1 Page 5-2		CONSTRUCTION OF PEDESTRIAN UNDERPASS AT	N UNDE	PASS AT		
SUMMARY Page 5-1	و سالم پسر می	LIWA				
SUMMARY Page 5-1 Page 5-2	Market arkethology samples	BILL 5 - CONCRETE AND CONCRETE STRUCTURE	TES RETE STR	CTURE		
Page 5-1	Item N		Unit	Estimated	Unit Rate	Amount
SUMMARY Page 5-1				Quantity	R.O. Bz	R.O. Bz
Page 5-1 Page 5-2	e ()					
Page 5-1		SUMMARY				
Page 5-2		Page 5-1				24429.000
		Page 5-2		-		13965.000
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	موان و معرف المستحد					
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			-			
			က်	ర	Carried to summary	38394.000

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	CONSTRUCTION OF PEDESTRIAN UNDERPASS AT	N UNDE	RPASS AT		
,	BILL OF QUANTITIES BILL 6 - STRUCTURAL STEEL AND OTHER METALWORK	IES OTHER D	IETALWORE	M	
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)	E	46	15.000	690.000
604.2	Galvanized Steel Bar for canopy (D=50 mm)	E	39	11.000	649.000
		6-1	Car	Carried to summary	13:39.000

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	CONSTRUCTION OF PEDESTRIAN UNDERPASS AT	N UNDE	RPASS AT		
	LIWA BILL OF QUANTITIES BILL 6 - STRUCTURAL STEEL AND OTHER METALWORK	IES OTHER D	IETALWORK		
Item No		Unit	Estimated	Unit Rate	Amount
			Quantity	R.O. Bz	R.O. Bz
	SUMMARY				
	Page 6-1				1339.000
			•••		
		6-2	Car	Carried to summary	1339.000

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	CONSTRUCTION OF PEDESTRIAN UNDERPASS AT	N UNDE	RPASS AT		
· ·	BILL OF QUANTITIES BILL 8 - DRAINAGE AND SERVICE DUCTS	IES RVICE DI	crs		
Item No	Description	Unit	Estimated	ξl	놽
			Quantity	R.O. Bz	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	sg.m.	519	0.350	181.650
		8-1	O	Carried to summary	4333.650

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	CONSTRUCTION OF PEDESTRIAN UNDERPASS AT	AN UNDE	RPASS AT		
	BILL OF QUANTITIES BILL 8 - DRAINAGE AND SERVICE DUCTS	TIES ERVICE D	UCTS		
Ï	Description	Unit	Estimated	뵨	ايد
			Quantity	R.O. Bz	R.O. Bz
			,		
					4333,650
				-	
		8-2	Ca	Carried to summary	4333,650

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	CONSTRUCTION OF PEDESTRIAN UNDERPASS AT LIWA	N UNDE	RPASS AT		
	BILL OF QUANTITIES BILL 14 - HIGHWAY SIGNS AND ROAD MARKING	TES ROAD A	IARKING		
Item No	Description	Unit	Estimated	Unit Rate	Amount
	1400 HIGHWAY SIGNS AND ROAD MARKING		quantity		
and the same be shape any or safe of great	1401 Highway Signs				
1401.1	Highway sign for pedestrian underpass	n.ř.	ଷ	55,000	110.000
Messales societados					
gget ylayasib-sc-sus FloC Mallich					
		14-1	Car	Carried to summary	110.000

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	Bz		00			gennyaera (to bereath de a			8
	Amount R.O.		110.000						110.000
	32			 			 		nary
	Unit Rate R.O. F								To Grand Summary
TION OF PEDESTRIAN UNDERPASS AT LIWA BILL OF QUANTITIES HIGHWAY SIGNS AND ROAD MARKING	Estimated Quantity	_,,,							To (
IN UNDE	Unit							:	14-2
ON OF PEDESTRIAN U) LIWA BILL OF QUANTITIES HWAY SIGNS AND RO.									
OF PEI									-
UCTION B 1 - HIGH									
CONSTRUC BILL 14 - I	Description								
		SUMMARY	[4-1						-
		SUM	Page 14-1						
	Item No			 					

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	CONSTRUCTION OF PEDESTRIAN UNDERPASS AT	N UNDE	RPASS AT		
	BILL OF QUANTITIES BILL 17 - UTULITIES	TES IES			
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 some and other related mortes	prov sum			4000.000
	as directed by the Engineer Protect of existing utilities crossing the roadway as shown in Drawing, or as directed by the Engineer				
		- · · · · · · · · · · · · · · · · · · ·			
open some on the contract of t		<u> </u>			
		17-1	Ca	Carried to summary	4000.000

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	CONSTRUCTION OF PEDESTRIAN UNDERPASS AT	N UNDE	RPASS AT		
n jidan ngayanga ka	BILL OF QUANTITIES BILL 17 - UTULITIES	TES IES			
Item No	Description	Unit	Estimated Quantity	Unit Rate R.O. Bz	Amount R.O. Bz
	SUMMARY				
·	Page 17-1				4000.000

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none wher de lab					
irin dina menunggi					
		17-2	To	To Grand Summary	4000.000

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	CONSTRUCTION OF PEDESTRIAN UNDERPASS AT	AN UNDE	RPASS AT		
- F1 - 00	BILL OF QUANTITIES BILL 19 - DAYWORKS	TIES	1		
Item No	Description	Unit	Estimated	1 💥 1	뉡
	A. WAGES		Quantity	R.O. Bz	R.O. Bz
	These include proper wages, all used allowance, medical expense and all other charges provided for by local laws				agiya saniki ku yazi ingake et ingake dinasa di
A.1	Supervisor	hour	10	4.000	40.000
A.2	Site Surveyor	hour	100	3.500	350.000
₹	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
₹	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	Car	Carried to Summary	797.900

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	CONSTRUCTION OF PEDESTRIAN UNDERPASS AT	N UNDE	RPASS AT		
	BILL OF QUANTITIES BILL 19 - DAYWORKS	TES			
Item No	Description	Unit	Estimated	Unit Rate	Amount
		-	Quantity	R.O. Bz	R.O. Bz
A.10	Ordinary Labour	hour	100	0.550	55.000
A11	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	ବା	0.830	1.700
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		19.2	Car	Carried to Summary	326.700

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	CONSTRUCTION OF PEDESTRIAN UNDERPASS AT	N UNDE	RPASS AT		
	BILL OF QUANTITIES BILL 19 - DAYWORKS	TES			Collection Microsoft Science - March -
Item No	Description	Unit	Estimated	Unit Rate	Amount
		-	Quantity	R.O. Bz	R.O. Bz
r Tille skinn se	B. OPERATING EQUIPMENT ON SITE				
o mangamang seraka mendaman ne mengada ayalan	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.			· · · · · · · · · · · · · · · · · · ·	ns. Skalen AMIS (in 1974) graff filmered communica
3.1	Motorgrader from 100 hp up to 120 hp	hour	ស	9.500	47.500
B.2	Motorgrader from 120 hp up to 150 hp	hour	A/X	11.500	agen i frances
ස හ	Tractor from 60 to 100 hp	hour	N/A	4.000	entereda cioneca
Щ. 4.	Bulldozer with ripper from 100 hp to 150 hp	hour	ю	7.000	35.000
ස ත	Bulldozer with ripper from 150 hp to 200 hp	hour	N/A	8.000	er (Company) Articus (Company)
9. 9.	Bulldozer with ripper from 200 hp to250 hp	hour	N/A	18.000	M Berlin meanine die d
i~ αi	Bulldozer with ripper from 250 hp to 300 hp	hour	N/A	19.500	overelik en de di kwa
B,8	Wheel tractor up to 50 hp	hour	10	4.000	40,000
in helin inge segliye		19-3	Car	Carried to Summary	122.500

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	CONSTRUCTION OF PEDESTRIAN UNDERPASS AT	N UNDE	RPASS AT		
повечного г	BILL OF QUANTITIES BILL 19 - DAYWORKS	ries RKS			
Item No	Description	Unit	Estimated	Unit Rate	Amount
න ම	Wheel tractor over 50 hp	hour	N/A	Ę-,	ı
B.10	Motor scraper capacity up to 18 cu.m.	hour	N/A	19.000	
E.I.	Motor scraper capacity from 18 to 24 cu.m.	hour	N/N	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	
17	Pneumatic self-propelled rollers from 15 to 20 tonnes	hour	N/A	4.500	Landing and American
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	Car	Carried to Summary	156.000

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	CONSTRUCTION OF PEDESTRIAN UNDERPASS AT	N UNDE	RPASS AT		
	BILL OF QUANTITIES BILL 19 DAYWORKS	ries RKS			
Item No	Description	Unit	Estimated	Unit Rate	Amount RO Ro
B.20	Triaxle roller from 10 to 15 tonnes	hour	N/A	LO:	
8.23 2.23	Light frog- rammer 0.1 tonne	hour	N/N	0.500	
B.22	Heavy frog-rammer 0.5 tonne	hour	50	00.700	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/N	10.000	
B.25	Wheel loder 2.0 to 2.5 cu.m.	hour	V/N	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	Av.,
B.29	Bituminous mixing plant with batching apparatus from 80 to 150 th.	hour	A/N	23.000	androideacht (1995)
B.30	Finisher up to 80 t/h.	hour	10	9.000	90.000
		19-5	Ca	Carried to Summary	376.500

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	CONSTRUCTION OF PEDESTRIAN UNDERPASS AT	N UNDE	RPASS AT		
<del>m incorporate</del>	BILL OF QUANTITIES BILL 19 - DAYWORKS	ries RKS			
Item No	Description	Unit	Estimated	ĭĭ	멅
			Quantity	R.O. Bz	R.O. Bz
B.31	Finisher from 80 th to 120 th.	hour	N/A	10.000	<del>Care de la c</del>
32 32	Bitumen sprayer up to 6 tonnes	hour	10	2.000	20.000
Э.	Tanker truck up to 6 cu.m.	hour	15	2.000	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	Web died seiner Zerend
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 Vm.	hour	15	2.000	30.000
14.0	Mechanical broom	hour	A/N	4.000	Anne Anne Angele
		19-6	Car	Carried to Summary	271.000

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	CONSTRUCTION OF PEDESTRIAN UNDERPASS AT	N UNDE	RPASS AT		
	BILL OF QUANTITIES BILL 19 - DAYWORKS	ries RKS			Mary Ageitsegië alleste i Ethiology
Item No	Description	Unit	Estimated	بنه	닭
			Quantity	R.O. Bz	R.O. Bz
B.42	Power water pump	hour	N/A	0.700	
Ω. 55.	Steel cutting machine	hour	ស	0.800	4.000
B.44	Steel bending machine	hour	N/A	1.200	
B.45	Belt conveyor	hour	N/A	7.000	glecta PARA Dar Cole s Col
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	
В.48	Automatic concrete batch plant without mixing drum	hour	N/A	7.500	
B. 49	Transmixer up to 5 cu.m.	hour	V/N	6.500	
B.50	Concrete vibrators	hour	60	0.150	8.850
B.51	Crane up to 5 tonnes.	hour	N/A	4.500	
B 55	Crane with broom and jib 5 to 10 tonnes	hour	V/N	8.000	
		19-7	Car	Carried to Summary	32.850

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	CONSTRUCTION OF PEDESTRIAN UNDERPASS AT	AN UNDE	RPASS AT		
	BILL OF QUANTITIES BILL 19 - DAYWORKS	TIES			
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	ro	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	e e e e e e e e e e e e e e e e e e e
B.58	Generator 150 kw	hour	N/A	4,000	
B.59	Generator 200 kw	hour	N/A	3,000	
B.60	Gravel strewer	hour	A/N	10.000	
-		19-8	Car	Carried to Summary	7.500

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	CONSTRUCTION OF PEDESTRIAN UNDERPASS AT	N UNDE	RPASS AT		
	BILL OF QUANTITIES BILL 19 - DAYWORKS	IES KS			
Item No	Description	Umit	Estimated	Unit Rate	Amount
			Quantity	R.O. Bz	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.				gyygykatur Mallinda de Maranda Provi
Ö	Aggregate for granular sub-base course in accordance with the General and Special Specifications, in place as specified.	cu.m.	າວ	1.000	1.7
Ö Ö	Aggregate for granular aggregate base course in accordance with the Gener Special Specifications, in place as specified.	ca.m.	ಣ	2.000	000.9
Ö,	Aggregate for bituminous base course in accordance with the General and Special Specifications, near the asphalt plant, in bulk	cu.m.	ιɔ	2.000	000.01
O 4	Fine aggregate for concrete, in accordance with the General and Special Specifications, in place, in bulk	cu.m.	တ	2.000	0.000
O IV	Coarse aggregates for concrete, in accordance with the General and Special specifications, in place, in bulk	cu.m.	ഫ	1.200	9.000
		19-9	Ca	Carried to Summary	33.000

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	CONSTRUCTION OF PEDESTRIAN UNDERPASS AT	N UNDE	RPASS AT		
	BILL OF QUANTITIES BILL 19 - DAYWORKS	ries Rks			
Item No	Description	Unit	Estimated	X	按
			Quantity	A.C. DZ	P.O. DZ
Ö. 9.	Stone for drainage, masonry and slope protection, in accordance with the General and Special Specifications in place	cu.m.	ന .	2,500	7.500
Ö.	Asphalt cement, grade 60-70 on site	ton	0.1	44.000	4,400
C.S	Asphalt cement, grade 50-60 on site	ton	0.1	48.000	4.800
<u>ග</u>	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	13.000	7.500
0.11	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
0.13	Deformed billet steel bars AASHTO M 31 grade 40 (Mild) of any diameter	ton	0.1	135.000	13,500
C.14	Highway signs	sd.m.	က	32.000	96,000
C.15	Highway sign supports - 1 post	nr.	. 4	15.000	60.000
		19-10	Ca	Carried to Summary	216.700

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	CONSTRUCTION OF PEDESTRIAN UNDERPASS AT LIWA	N UNDE	RPASS AT		
	BILL OF QUANTITIES BILL 19 - DAYWORKS	ries Rks			
Item No	Description	Unit	Estimated Onantity	Unit Rate	Amount RO Rz
C.16	Highway sign supports - 2 post	nr.	2	o	l ġ
C.17	Timber plank, on site	cu.m.	H	105.000	105.000
C.18	Timber props, on site	ca.m.		105.000	105.000
C.19	Wire mesh gabgions, on site	ton	0.5	320.000	160.000
C.20	Explosive, on sitc	ş, Ş	N/A	. 20.000	
O.21	Gas oil, on site	litre	50	0.080	4.000
C.22	Gasoline, on site	litre	230	0.120	30.000
C.23	Lubricant	Ϋ́	တ	0.300	0.900
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					gayardi waki girin Tirin (Maryania)
		19-11	Ca	Carried to Summary	444.900

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A second	Bz	797.900 326.700 156.000 37.6.500 7.500 816.700 44.900	0250
	Amount R.O.	797.900 326.700 156.000 37.6.500 32.850 32.850 444.900	2785,550
	Unit Rate R.O. Bz		To Grand Summary
RPASS AT	Estimated Quantity		To
AN UNDE TIES	Unit		19-12
CONSTRUCTION OF PEDESTRIAN UNDERPASS AT LIWA BILL OF QUANTITIES BILL 19 - DAYWORKS	a No Description	SUMMARY Page 19-1 Page 19-2 Page 19-5 Page 19-5 Page 19-7 Page 19-9 Page 19-10 Page 19-10	
and the second s	Item No		

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### **BILL OF QUANTITIES**

#### **GRAND SUMMARY**

		Amount
Bill No	Description	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	Stope 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 (Ŕ.O)	94831.770

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

NAME OF TENDERER	DATE	
SIGNATURE OF TENDERER	<b></b>	

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