



SULTANATE OF OMAN

MINISTRY OF COMMUNICATIONS DIRECTORATE GENERAL OF ROADS



CONSTRUCTION OF PEDESTRIAN UNDERPASS AT QARIH BATINAH HIGHWAY

TENDER DOCUMENTS

BILL OF QUANTITIES



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| CR(5) |
| 97-015 |
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| | CONSTRUCTION OF PEDESTRIAN UNDERPASS AT | N UNDE | RPASS AT | | |
|---------|---|---------------------------------------|-----------|--------------------|----------|
| | BILL OF QUANTITIES BILL 1 - PRELIMINARIES | TES ARIES | | | |
| Item No | Description | Unit | Estimated | 3at | ä |
| | | | Quantity | R.O. Bz | R.O. Bz |
| | SECTION 100 PRELIMINARIES | · · · · · · · · · · · · · · · · · · · | | | |
| | 101 Bonds and Insurance | | | | |
| 101.1 | Performance Bond (Clause 10 of Standard Conditions of Contract) | mns dmnl | | | |
| 101.2 | Insurance of the Works (Clause 21 of Standard Conditions of Contract) | uns duni | | | |
| 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 | Car | Carried to summary | 4000.000 |

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| | CONSTRUCTION OF PEDESTRIAN UNDERPASS AT | N UNDE | RPASS AT | | |
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| | BILL OF QUANTITIES BILL 1 - PRELIMINARIES | TES | | | |
| Item No | Description | Unit | Estimated | 💥 | 뉡 |
| | 104 Facilities for the Engineer | | Quantity | K.O. Bz | K.O. BZ |
| 104.1 | Provision of Engineer's office (Type A, 1 unit x S) | month | t- | 250.000 | 1750.000 |
| 104.2 | Maintenance of Engineer's office (Type A, 1 unit x 8) | month | 7 | 150.000 | 1050.000 |
| 104.3 | Provision of surveying instruments | month | r | 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 \times 7) | month | 14 | 250.000 | 3500.000 |
| | (ii) Engineer's accommodation (Type C, 1 units x 8) | month | Y/Z | 150.000 | |
| | (iii) Engineer's accommodation (Type B, 1 unit x 8) | month | N/A | 250.000 | Militar Constant Confiden |
| and the second seco | (iv) Dining/Kitchen (Type D, 1 unit x 8) | month | N/A | 250.000 | - Orden value various |
| 3N 424 N | | | | | <u>ja</u> |
| | | 1-2 | Car | Carried to summary | 9450.000 |

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| | CONSTRUCTION OF PEDESTRIAN UNDERPASS AT | AN UNDE | RPASS AT | | |
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| | BILL OF QUANTITIES BILL 1 - PRELIMINARIES | TIES ARIES | | | |
| Item No | Description | Unit | Estimated | Unit Rate | Amount |
| | | | Quantity | R.O. Bz | 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 | A'N | 250.000 | |
| | (iii) Engineer's accommodation (Type B, 1 unit x 8) | month | K/N | 150.000 | |
| un (o-manus) de la companya de la co | (iv) Dining/Kitchen (Type D, 1 unit x S) | month | N/A | 250.000 | |
| dani- | | | | | |
| 104.9 | Samoling and Testing where no site laboratory is provided | month | 1- | 80.000 | 560.000 |
| 104.10 | In situ soil bearing capacity tests | n.r. | 67 | 20.000 | 60.000 |
| 104.11 | Sub-soil investigation by specialist Contractor | prov. sum | | 200,000 | 200.000 |
| | | | | | |
| | | | - | | |
| | | 1-3 | Car | Carried to summary | 3220.000 |

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| | CONSTRUCTION OF PEDESTRIAN UNDERPASS AT | AN UNDE | RPASS AT | | entime (Schledephy) |
|---------|--|---------------|-----------|--------------------|---------------------------------------|
| | BILL OF QUANTITIES BILL 1 - PRELIMINARIES | TIES ARIES | | | gergelige Park in COSSAGARC |
| Item No | Description | Unit | Estimated | <u>#</u> | 동 |
| | 10 F A | | Quantity | 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 | uns dunl | | | |
| 106.2 | Maintenance of Contractor's facility | month | t~ | 500.000 | 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 Engineer (3 cm. thick) | ca. m. | rte only | 3.000 | |
| | | | | | and the second second |
| | | 1-4 | Car | Carried to summary | 13500.000 |

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| | CONSTRUCTION OF PEDESTRIAN UNDERPASS AT | AN UNDE | RPASS AT | | |
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| | BILL OF QUANTITIES BILL 1 - PRELIMINARIES | TIES | | | |
| Item No | Description | Unit | Estimated | Iğl | 뉡 |
| | 100 Bus and a Dhataman a ha | | Quantity | R.O. Bz | R.O. Bz |
| 108.1 | 108 Frogress Fnotographs Provision of negatives and 5 sets of photographs (14 photos max.) (Mountable-Size 100 x 150 mm.) | month | | 30.000 | 210.000 |
| | 109 Sign Boards | | | | |
| 109.1 | Provision, erection, moving and maintenance of signboard (Wooden Type) | n. Y | 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 | | | |
| | | | | | A process of the second se |
| | | | | | General Service (See Service S |
| : | | 1.5 | Car | Carried to summary | 210.000 |

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|--|--|---|-----------|--------------------|---------|
| Item No | BILL 1 - PRELIMINARIES Description Unit | ARIES Unit | Estimated | Unit Rate | Amount |
| · | | | Quantity | R.O. Bz | 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 | mns dunl mns dunl mns dunl mns dunl mns dunl mns dunl | | | |
| | | 1-6 | Can | Carried to summary | |

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| | BILL 1 - PRELIMINARIES | 'IES ARIES | | | |
| Item No | Description | Unit | Estimated | ا <u>چ</u> ا | 岩 |
| | | | Quantity | R.O. Bz | R.O. Bz |
| · | SUMMARY | | | | |
| y il and an and an inte | 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 |
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| | | | | · | |
| | | | | - | |
| | | 1-7 | To G | To Ground Summary | 30380.000 |

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| | CONSTRUCTION OF PEDESTRIAN UNDERPASS AT | N UNDE | RPASS AT | | |
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| | BILL OF QUANTITIES BILL 2 - EARTHWORKS | CIES ORKS | | | egus sinuse dan Surgia (Japangan |
| Item No | Description | Unit | Estimated | <u>ដ</u> ្ឋ | 멅 |
| | | | Quantity | R.O. Bz | R.O. Bz |
| - | 202 Removal of Structures and Obstructions | | | | |
| 202.1 | Removal of Pavement (t=10 cm) | ca,m | 100 | 2.000 | 200.000 |
| 202.2 | Removal of Existing Guardrail | £ | 22 | 1.800 | 39.600 |
| 202.3 | Removal of Curv Stone | В | 20 | 1.500 | 30.000 |
| | | | | | |
| | 206 Excavation and Backfilling for Structures | | | | |
| 206.1 | Structure excavation in soils to a depth of 2m | cn. m. | 1410 | 1.000 | 1410.000 |
| 206.2 | Structure excavation in soils to a depth more than 2m | ca. m. | 939 | 1.700 | 1596.300 |
| 206.3 | Structural excavation in rock to a depth of 2m | ca. 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 | Can | Carried to summary | 3275.900 |

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| CONSTRUCTION OF PEDESTRIAN UNDERPASS AT | | | tte Amount | K.O. Bz K.O. Bz | 60 60 60 | Summary 3275.900 |
|---|---------------------------|--|------------|-----------------|----------------|------------------|
| SUMMARY Page 2-1 | RPASS AT | | | | | To Grand |
| SUMMARY Page 2-1 | N UNDE | HES RKS | Unit | | | 2-2 |
| | CONSTRUCTION OF PEDESTRIA | QARIH BILL OF QUANTI' BILL 2 - EARTHW(| | SUMMARY | Page 2-1 | |

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| | CONSTRUCTION OF PEDESTRIAN UNDERPASS AT | N UNDE | RPASS AT | | |
|---------|--|----------------|-------------|--------------------|---------|
| | BILL OF QUANTITIES BILL 3 - GRANULAR AND STABILIZED SUBBASE, BASE COURSE, STABILIZED SUBGRADE | TES ASE COU | RSE, STABIL | ized subgr | ADE |
| Item No | Description | Unit | Estimated | Unit Rate | Amount |
| | | | Quantity | R.O. Bz | 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. | 48 | 2.000 | 96.000 |
| | 303 Aggregate Basecourse | | | | |
| 303.1 | Aggregate basecourse (class B) (200 mm thick) | cu.m | 25 | 3.800 | 211.200 |
| | | | | | |
| | | | | | |
| | | 3.1 | Car | Carried to summary | 307.200 |

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| NDERPASS AT | COURSE, STABILIZED SUBGRADE | it Estimated Unit Rate Amount | Quantity R.O. Bz R.O. Bz | | 307.200 | | | | Carried to summary 307 200 |
|---|---|-----------------------------------|--------------------------|---------|----------|--|--|--|----------------------------|
| CONSTRUCTION OF PEDESTRIAN UNDERPASS AT | QAKIH BILL 3 - GRANULAR AND STABILIZED SUBBASE, BASE COURSE, STABILIZED SUBGRADE | Item No Description Unit Estimate | Quantit | SUMMARY | Page 3-1 | | | | 3-2 |

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| | CONSTRUCTION OF PEDESTRIAN UNDERPASS AT | N UNDE | RPASS AT | | , |
|--|--|----------------|-----------|--------------------|----------------|
| 200-1 | BILL OF QUANTITIES BILL 4 - BITUMINOUS PAVEMENT | ries Avemen | Ţ | | |
| Item No | Description | Unit | Estimated | Unit Rate | Amount PO R |
| | 400 BITUMINOUS PAVEMENT | | & norman | 1 | |
| ······································ | 401 Bituminous Prime Coat and Tack Coat | | | | |
| 401.1 | Bituminous prime coat (MC 70) | អ្ | 400 | 0.150 | 60.000 |
| 401.2 | Bituminous tack coat (RC 250) | 45 Y, | 100 | 0.500 | 20.000 |
| | 402 Bituminous Basecourse | | | | |
| 40 2. 1. | Bituminous basecourse (class B) 80 mm.thick | m.uo | 26 | 22.000 | 572.000 |
| 402.4 | Increse or decrese in bituminous content from nominal rate | gy | 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 | Ca | Carried to summary | 1046.000 |
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| 4, | CONSTRUCTION OF PEDESTRIAN UNDERPASS AT | N UNDER | PASS AT | | |
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| dak razoren arrasaka asekaranzak | QARIH BILL OF QUANTITIES BILL 4 - BITUMINOUS PAVEMENT | IES AVEMEN | Ĕ. | | |
| Item No | Description | Unit | Estimated | Ě | 멅 |
| | | | Quantity | R.O. Bz | R.O. Bz |
| encepp hiden's decressive of the superficiency of the | SUMMARY | | | | |
| | Page 4-1 | | | | 1046.000 |
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| Eligid Pillian Pri Stranger | | · · · | | | |
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| | | 4.2 | Car | Carried to summary | 1046.000 |
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| gair ppopulation waster. | CONSTRUCTION OF PEDESTRIAN UNDERPASS AT | N UNDE | RPASS AT | | - |
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| anatumbokatokaturu. | BILL OF QUANTITIES BILL 5 - CONCRETE AND CONCRETE STRUCTURE | ries Rete sti | RUCTURE | | |
| 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. | 46 | 22.000 | 1012.000 |
| 504.2 | Concrete Class A 24/20 for pedestrian underpass, canopy and stairs (including all formwork, faisework and finish | cu.m. | 513 | 43.000 | 22059.000 |
| | 508 Pedestrian Underpass | | | | |
| 508.1 | Water Stop | E | ť- | 7.000 | 518.000 |
| | | | | | |
| | | 5-1 | Ca | Carried to summary | 23589.000 |

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| - | CONSTRUCTION OF PEDESTRIAN UNDERPASS AT QARIH BILL OF QUANTITIES BILL 5 - CONCRETE AND CONCRETE STRUCTURE | N UNDE TES | RPASS AT RUCTURE | | |
|---------|---|---------------|---------------------|--------------------|-----------|
| Item No | Description | Unit | Estimated | Unit Rate | Amount |
| 509.1 | 509 Reinforcing Steel High yield steel bar reinforcement of any diameter | tone | | ស | 5.0 |
| | | | | | |
| | | 5-2 | Cam | Carried to summary | 13395.000 |

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| | CONSTRUCTION OF PEDESTRIAN UNDERPASS AT | AN UNDE | RPASS AT | | |
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| | BILL 5 - CONCRETE AND CONCRETE STRUCTURE | TIES RETE ST | RUCTURE | | |
| Item No | Description | Unit | Estimated | Unit Rate | Amount |
| | | | Quantity | R.O. Bz | R.O. Bz |
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| SUMMARY | | | | | |
| Page 5-1 | | | | | 23589.000 |
| Page 5-2 | | | | | 13395.000 |
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| - No industrial | | | | - | |
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| | | က် | Cai | Carried to summary | 36984.000 |

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| | CONSTRUCTION OF PEDESTRIAN UNDERPASS AT | N UNDE | RPASS AT | | |
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| | QARIH BILL OF QUANTITIES | ES | | | |
| | BILL 6 - STRUCTURAL STEEL AND OTHER METALWORK | THER N | IETALWORK | | |
| Item No | Description | Unit | Estimated | Unit Rate | Amount |
| | | | Quantity | R.O. Bz | R.O. Bz |
| | 600 STRUCTURAL STEEL AND OTHER METALWORK | | | | |
| Victoria de la constant a | 604 Handrail | | | | |
| 604.1 | Pedestrian Underpass Handrails (Mild Steel) (D=50 mm) | E | 45 | 15.000 | 675.000 |
| 604.2 | Galvanized Steel Bar for canopy (D=50 mm) | £ | 59 | 11.000 | 649,000 |
| and the state of the surface and activities and the state of the state | | | | | |
| | | | | | |
| | | 6.1 | Can | Carried to summary | 1324,000 |

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| | CONSTRUCTION OF PEDESTRIAN UNDERPASS AT | N UNDE | RPASS AT | | |
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| | QAKIH BILL 6 - STRUCTURAL STEEL AND OTHER METALWORK | ries Other d | IETALWORK | | |
| Item No | | Unit | Estimated | Unit Rate | Amount |
| | | | Quantity | R.O. Bz | R.O. Bz |
| | SUMMARY | | | | |
| | Раде 6-1 | | | | 1324,000 |
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| | | 6-2 | Car | Carried to summary | 1324.000 |
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| | CONSTRUCTION OF PEDESTRIAN UNDERPASS AT | N UNDE | RPASS AT | | |
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| | BILL OF QUANTITIES BILL 6 - STRUCTURAL STEEL AND OTH | TES OTHER 1 | OF QUANTITIES STEEL AND OTHER METALWORK | | att die der des Sproefe des wegete |
| Item No | Description | Unit | Estimated | Unit Rate | Amount |
| | 7 17 20G | | 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 | sq.m. | 519 | 0.350 | 181.650 |
| | | | | | |
| | | 8-1 | Can | Carried to summary | 4333.650 |

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| | CONSTRUCTION OF PEDESTRIAN UNDERPASS AT | | | | |
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| Ä | SILL OF QUANTITIES BILL 6 - STRUCTURAL STEEL AND OTHER METALWORK | RK | | | |
| Item No | Description | Unit | Estimated Quantity | Unit Rate R.O. Bz | Amount R.O. Bz |
| | SUMMARY | | | | |
| | Page 8-1 | | | | 4333.650 |
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| | | 8-2 | Ca | Carried to summary | 4333,650 |
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| | CONSTRUCTION OF PEDESTRIAN UNDERPASS AT | N UNDE | RPASS AT | | |
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| | BILL OF QUANTITIES BILL 14 - HIGHWAY SIGNS AND ROAD MARKING | TES ROAD N | IARKING | | |
| Item No | Description | Unit | Estimated | I ∯I | 벑 |
| 1401.1 | 1400 HIGHWAY SIGNS AND ROAD MARKING 1401 Highway Signs Highway sign for pedestrian underpass | r. | 2 square | 55.000 | 110.000 |
| | | 14.1 | Ca | Carried to summary | 110.000 |

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| | CONSTRUCTION OF PEDESTRIAN UNDERPASS AT | N UNDE | RPASS AT | | |
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| | BILL 14 - HIGHWAY SIGNS AND ROAD MARKING | TES ROAD M | IARKING | | |
| Item No | | Unit | Estimated | 돭 | 쓅 |
| | | | Quantity | R.O. Bz | R.O. Bz |
| | SUMMARY | | | | |
| 735 4.8 20 4.2 2 | Page 14-1 | | | | 110.000 |
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| | | 14.2 | Tc | To Grand Summary | 110.000 |
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| | CONSTRUCTION OF PEDESTRIAN UNDERPASS AT | N UNDE | RPASS AT | | |
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| , | GARIH BILL OF GUANTITIES | TES | | | |
| | BILL 17 - UTULITIES | IES | | | |
| Item No | Description | Unit | Estimated | Ť. | 뀱 |
| | | | Quantity | R.O. Bz | 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 | Ca | Carried to summary | 4000.000 |

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| | CONSTRUCTION OF PEDESTRIAN UNDERPASS AT | N UNDER | PASS AT | | |
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| | QARIH BILL OF QUANTITIES BILL 17 - UTULITIES | IES ŒS | | | Scource and Solida |
| Item No | Description | Unit | Estimated | 並 | 뉡 |
| | SUMMARY | | Quantity | K.O. bz | K.C. bz |
| ayakanin tayaya kipanin ayan ka asaa sa sa | Page 17-1 | Prov Sum | | | 4000.000 |
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| e-companies party experience | | | | | |
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| | | 17-2 | To | To Grand Summary | 400.000 |

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| | CONSTRUCTION OF PEDESTRIAN UNDERPASS AT | N UNDE | RPASS AT | | |
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| · · · · · · · · · · · · · · · · · · · | BILL 19 - DAYWORKS | ries RKS | | | |
| Item No | Description | Unit | Estimated | l 💥 | 걾 |
| | A. WAGES | | & damaico | P.C. DZ | 7G .O.W |
| | These include proper wages, all used allowance, medical expense and all other charges provided for by local laws | | | | |
| Å 1 | Supervisor | hour | 10 | 4.000 | 40,000 |
| A.2 | Site Surveyor | hour | 100 | 3.500 | 350,000 |
| A.3 | Foreman | hour | 84 | 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 | 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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| Quagapan parameter | CONSTRUCTION OF PEDESTRIAN UNDERPASS AT | N UNDE | RPASS AT | | |
|--------------------|---|------------|-----------|--------------------|--|
| | BILL OF QUANTITIES BILL 19 - DAYWORKS | TES RKS | | | and the second s |
| Item No | Description | Unit | Estimated | Unit Rate | Amount BO B2 |
| A.10 | Ordinary Labour | hour | 100 | o | L? |
| A.11 | Mason | hour | 100 | 0.650 | 65.000 |
| A12 | Painter | hour | 100 | 0.750 | 75,000 |
| A13 | Carpenter | hour | 100 | 0.650 | 65.000 |
| A.14 | Steel Fitter | hour | 100 | 0.650 | 65.000 |
| A.15 | Electrician | hour | ¢1 | 0.850 | 1.700 |
| | | | | | anna dashadan acamar Calarin Referensian azam azam azam ara karanan kara Bar-Cranalar ya malika sashan 1940-a |
| | | 19-2 | Cay | Carried to Summary | 326,700 |
| | | | | | 7 |

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| | CONSTRUCTION OF PEDESTRIAN UNDERPASS AT | N UNDE | RPASS AT | | |
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| | BILL OF QUANTITIES BILL 19 - DAYWORKS | IES KKS | | | |
| Item No | Description | Unit | Estimated | l ∰l | 뉡 |
| | B. OPERATING EQUIPMENT ON SITE | | Quanty | K.O. BZ | K.O. 52 |
| | 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. | ټ پ | | | |
| Ö. | Motorgrader from 100 hp up to 120 hp | hour | ю | 9.500 | 47.500 |
| М. 83 | Motorgrader from 120 hp up to 150 hp | hour | N/A | 11.500 | |
| М. 85 | Tractor from 60 to 100 hp | hour | N/A | 4.000 | |
| B.4 | Bulldozer with ripper from 100 hp to 150 hp | hour | വ | 7.000 | 35.000 |
| ස ය | Bulldozer with ripper from 150 hp to 200 hp | hour | N/A | 8.000 | |
| ю 9. | Bulldozer with ripper from 200 hp to250 hp | hour | N/A | 18.000 | |
| Ü, | 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 | Car | Carried to Summary | 122.500 |

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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 | IĕI | 쏬 |
| ļ | 1111 | | Quantity | R.O. Bz | R.O. Bz |
| 6.8 6.9 | Wheel tractor over 50 hp | hour | ď. Z | 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 | and the second deposits of the second deposit |
| Ø. 12 | Sheeps foot roller, from 5 tonnes to 10 tonnnes | hour | N/A | 5.000 | and a second |
| B.13 | Grid roller | hour | N/A | 7.000 | Лостиність До _в ь подвирод |
| B.14 | Vibratory compactor with prime mover up to 5 tonnes | hour | t * | 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 | Anna de Servicio d |
| B.17 | Pneumatic self-propelled rollers from 15 to 20 tonnes | hour | N/A | 4.500 | gang Maritman Angl |
| B.18 | Tandem roller up to 8 tonnes | hour | \$ Z | 4,500 | 108.000 |
| B.19 | Tandem roller from 8 to 12 tonnes | hour | N/A | 5.000 | A CONTRACTOR OF THE STATE OF TH |
| | | 19-4 | Car | Carried to Summary | 156.000 |

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| | CONSTRUCTION OF PEDESTRIAN UNDERPASS AT | AN UNDE | RPASS AT | | |
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| | QARIH | \$ \$ \$ | | | |
| | BILL 19 - DAYWORKS | ries RKS | | | |
| Item No | Description | Unit | Estimated | Unit Rate | Amount |
| B.20 | Triaxle roller from 10 to 15 tonnes | hour | N/A | က် | • |
| 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/S | 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 | 000'06 |
| | | 19-5 | Car | Carried to Summary | 376.500 |

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| | CONSTRUCTION OF PEDESTRIAN UNDERPASS AT | N UNDE | RPASS AT | | |
|---------|---|-------------|-----------------|--------------------|--|
| | QARIH BILL OF QUANTITIES BILL 19 - DAYWORKS | TIES RKS | | | gyana nga samar sama ali da asambi |
| Item No | Description | Unit | Estimated | ΙĕΙ | 벍 |
| B.31 | Finisher from 80 t/h to 120 t/h. | hour | Quantity N/A | R.O. Bz | R.O. Bz |
| B.32 | Bitumen sprayer up to 6 tonnes | hour | 10 | 5.000 | 50,000 |
| B.33 | Tanker truck up to 6 cu.m. | hour | 13 | 5.000 | 000.67 |
| 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 | 0.000 | |
| 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 | Z/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 1/m. | hour | 22 | 1.500 | 22.500 |
| B.40 | Air compressor over 6000 Vm. | hour | 15 | 2.000 | 30.000 |
| B.41 | Mechanical broom | hour | N/A | 4.000 | and the second s |
| | | 19-6 | Car | Carried to Summary | 271.000 |

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| | CONSTRUCTION OF PEDESTRIAN UNDERPASS AT | IN UNDE | RPASS AT | | |
|---------|--|-------------|-----------------------|----------------------|-------------------|
| | BILL OF QUANTITIES BILL 19 - DAYWORKS | ries RKS | | | |
| Item No | Description | Unit | Estimated Quantity | Unit Rate R.O. Bz | Amount R.O. Bz |
| B.42 | Power water pump | hour | N/A | o | ł |
| B.43 | Steel cutting machine | hour | rc | 0.800 | 4.000 |
| B.44 | Steel bending machine | hour | K/Z | 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 | Transminer up to 5 cu.m. | hour | N/A | 6.500 | |
| B.50 | Concrete vibrators | hour | <u>ග</u> | 0.150 | 8.850 |
| B.51 | Orane 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 | Car | Carried to Summary | 32.850 |

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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 | ΙĔΙ | rt l |
| í | | | Quantity | R.O. Bz | R.O. Bz |
| ස දැ | Grane with boom and jib over 10 tonnes | hour | Ψ. X | 11.000 | |
| ж Қ | Generator 60 kw | hour | ю | 1.500 | 7,500 |
| B. 85 | Generator 75 kw | hour | ĕ/Z | 1.800 | proposition with a service in |
| 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 | a delitat e di Leigh (i |
| B.59 | Generator 200 kw | hour | N/A | 2.000 | |
| B.60 | Gravel strewer | hour | N/A | 10.000 | |
| | | | | | and a section of the |
| | | | | | CHICA PARAMETERS AND |
| | | 19-8 | Car | Carried to Summary | 7,500 |

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| | CONSTRUCTION OF PEDESTRIAN UNDERPASS AT QARIH | N UNDE | RPASS AT | | |
|---------|--|------------|-----------|--------------------|---------|
| | BILL 19 - DAYWORKS | IES KKS | | | |
| Item No | Description | Unit | Estimated | | 뉨 |
| | | | 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. | | | | |
| Ö | Aggregate for granular sub-base course in accordance with the General and Special Specifications, in place as specified. | cn.m. | ıo | 1.000 | 5.000 |
| о 0 | Aggregate for granular aggregate base course in accordance with the Gener Special Specifications, in place as specified. | cu.m. | ю | 2.000 | 9.000 |
| င်း | Aggregate for bituminous base course in accordance with the General and Special Specifications, near the asphalt plant, in bulk | cu.m. | ហ | 2.000 | 10.000 |
| 0 4. | Fine aggregate for concrete, in accordance with the General and Special Specifications, in place, in bulk | ca.m. | တ | 2,000 | 9.000 |
| က ပ | Coarse aggregates for concrete, in accordance with the General and Special specifications, in place, in bulk | cu.m. | ស | 1.200 | 6.000 |
| | | 19-9 | Car | Carried to Summary | 33.000 |

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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 |
| O.6 | Stone for drainage, masonry and slope protection, in accordance with the General and Special Specifications in place | cu.m. | o, | 2.500 | 500 5 |
| 0.7 | Asphalt cement, grade 60-70 on site | ton | 0.1 | 44.000 | 4.400 |
| 8 0 | Asphalt cement, grade 50-60 on site | ton | 0.1 | 48,000 | 4,800 |
| ၈ ပ | 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 |
| O. | Portland cement on site | ton | 0.1 | 25.000 | 2,500 |
| 0 1 1 | Deformed billet steel bars, AASHTO M 31 grade 60 (High Yield) of any diameter | ton | 0.1 | 135.000 | 13.500 |
| O.13 | Deformed billet steel bars AASHTO M 31 grade 40 (Mild) of any diameter | ton | 0.1 | 135.000 | 13,500 |
| O. 14 | Highway signs | .g.m. | ო | 32.000 | 96.000 |
| O.15 | Highway sign supports - 1 post | nr. | 4 | 15.000 | 60.000 |
| CP172-CP142-2 | | 19-10 | Ca | Carried to Summary | 216.700 |
| | | | | | |

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| | CONSTRUCTION OF PEDESTRIAN UNDERPASS AT | N UNDE | RPASS AT | | |
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| dalastera and a second | BILL OF QUANTITIES BILL 19 - DAYWORKS | ries RKS | | | A dia Se al and a se |
| Item No | Description | Unit | Estimated | Unit Rate | Amount RO Ro |
| Ş | | | (amino) | 77 .0:11 | |
| 9 | Highway sign supports - 2 post | ü | 61 | 20.000 | 40.000 |
| C.17 | Timber plank, on site | cn.m. | H | 105.000 | 105.000 |
| C.18 | Timber props, on site | cu.m. | - | 105.000 | 105.000 |
| C.19 | Wire mesh gabgions, on site | ton | 0.5 | 320,000 | 160.000 |
| C.20 | Explosive, on site | ş; | N/A | 20.000 | ance and a second |
| 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 | žį. | က | 0.300 | 0.900 |
| | | | | | - Comment |
| | | | | | |
| | | 19-11 | Car | Carried to Summary | 444.900 |

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| | CONSTRUCTION OF PEDESTRIAN UNDERPASS | AN UNDE | RPASS AT | | |
|------------|---------------------------------------|---------|-----------|------------------|----------|
| | BILL OF QUANTITIES BILL 19 - DAYWORKS | TIES | | : | |
| Item No | Description | Unit | Estimated | Unit Rate | Amount |
| | | | Quantity | 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 |
| ota en | | | | | |
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| | | | | | |
| | | 19-12 | To | To Grand Summary | 2785.550 |
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BILL OF QUANTITIES

GRAND SUMMARY

| | | Amount |
|---------|---|-----------|
| Bill No | Description | R.O. |
| 1 | Preliminaries | 30380,000 |
| 2 | Earthworks | 3275.900 |
| 3 | Granular and stabilized subbase, basecourse and stabilized subgrade | 307.200 |
| 4 | Bituminous Pavement | 1046,000 |
| 5 | Concrete and concrete structure | 36984.000 |
| 6 | Structural steel and other metal work | 1324.000 |
| 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 | 84546,300 |
| | Contingencies (10%) | 8454.630 |
| | TOTAL CONTRACT VALUE (R.O) | 93000,930 |

| | |] |
|---|------------------------|---------------------------------------|
| Sub-total | | 84 |
| Contingencies (10%) | | 3 |
| TOTAL CONTRACT VALUE (| (R.O) | 93 |
| (IN WORDS, THE TOTAL TENI | DER VALUE IS RIAL OMAN | l) |
| | | · · · · · · · · · · · · · · · · · · · |
| NAME OF TENDERER | DATE | |
| SIGNATURE OF TENDERER | | |
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