



SULTANATE OF OMAN

MINISTRY OF COMMUNICATIONS DIRECTORATE GENERAL OF ROADS



CONSTRUCTION OF FLYOVER AT FALAJ AL QABAIL ROUNDABOUT BATINAH HIGHWAY

TENDER DOCUMENTS

BILL OF QUANTITIES



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| | | CONSTRUCTION OF FLYOVER AT AL FALAJ QABAIL BILL OF QUANTITIES | TOVER A | £4 | | |
|---------------------------------------|-----------------|---|----------|-----------|--------------------|-----------------|
| | Item No | Description Description | Unit | Estimated | Unit Rate | Amount RO Rz |
| | | SECTION 100 PRELIMINARIES | | Grant B | | |
| · · · · · · · · · · · · · · · · · · · | | 101 Bonds and Insurance | | | | |
| | 101.1 | Performance Bond (Clause 10 of Standard Conditions of Contract) | mns dmnl | | | |
| 311 | 101.2 | Insurance of the Works (Clause 21 of Standard Conditions of Contract) | mns dmnl | | - | |
| 38293 | 101.3 184.48 | 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) | mns dunl | | | |
| | 101.5 | Accident or injury to Workmon (Clause 24 of Standard Condition of Contract) | lump sum | | | |
| | | | | | | |
| | | | 1-1 | Ca | Carried to summary | 44250.000 |
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| | CONSTRUCTION OF FLYOVER AT AL FALAJ QABAIL | YOVER A | £I | | |
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| volument de la litera | BILL 1 - PRELIMINARIES | ries Aries | | | |
| Item No | Description | Unit | Estimated | | 뀙 |
| | | | Quantity | R.O. Bz | R.O. Bz |
| • ••••• | 104 Facilities for the Engineer | | | | |
| 104.1 | Provision of Engineer's office (Type A, 1 unit x 24) | month | Q, | 250.000 | 5000.000 |
| 104.2 | Maintenance of Engincer's office (Type A, 1 unit x 24) | month | 20 | 150.000 | 3000.000 |
| 104.3 | Provision of surveying instruments | month | 18 | 300.000 | 5400.000 |
| 104.4 | Maintenance of surveying instruments | month | 18 | 150.000 | 2700.000 |
| 104.5 | Provision of Engineer's accommodation | | | | |
| | (i) Resident Engineer's accommodation (Type B, 1 unit x 24) | month | Ą'X | 250.000 | |
| Z.J. 1. 1. 2. 2. 1. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. | (ii) Engineer's accommodation (Type C, 5 units \times 24) | month | N/A | 400.000 | THE SHEET SHEET |
| | (iii) Engineer's accommodation (Type B, 1 unit \times 24) | month | A/N | 250.000 | gregorian (Er septem |
| | (iv) Dining/Kitchen (Type D, 1 unit x 24) | month | N/A | 250.000 | |
| · Orano gyanzan | | | | | |
| - 4 - 3 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 | | 1.2 | Ca | Carried to summary | 16100.000 |

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| | CONSTRUCTION OF FLYOVER AT | YOVER A' | 5-1 | | |
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| | BILL OF QUANTITIES BILL 1 - PRELIMINARIES | TES ARIES | | | |
| Item No | Description | Unit | Estimated | Unit Rate | Amount |
| , | | _ | Quantity | R.O. Bz | R.O. Bz |
| 104.6 | Maintenance of Engineer's accommodation | | | - | A. San - San Hall Star Coll |
| | (i) Resident Engineer's accommodation (Type B, 1 unit x 24) | month | N/A | 150.000 | |
| | (ii) Engineer's accommodation (Type C, 5 unit \times 24) | month | N/A | 250.000 | |
| · | (iii) Engineer's accommodation (Type B. 1 unit $	imes$ 24) | month | N/A | 150.000 | |
| on the second second | (iv) Dining/Kitchen (Type D. 1 unit x 24) | month | N/A | 250.000 | |
| 104.7 | Provision of laboratory | month | 18 | 400.000 | 7200.000 |
| 104.8 | Maintenance of laboratory | month | 18 | 150.000 | 2700.000 |
| 104.10 | In situ soil bearing capacity tests | n,r. | 80 | 20.000 | 400.000 |
| 104.11 | Sub-soil investigation by specialist Contractor | prov. sum | | 8,000.000 | 8000.000 |
| | | | | | тарын тары |
| | | | | | |
| | | 1.3 | Ca | Carried to summary | 18300.000 |
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| | CONSTRUCTION OF FLYOVER AT AL FALAJ QABAIL BILL OF QUANTITIES | IL IIES | ı | | |
|---------|--|------------|-----------|--------------------|------------|
| | BILL 1 - PRELIMINARIES | ARIES | | | |
| Item No | Description | Unit | Estimated | Unit Rate | Amount |
| | | • | 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 dun | | | 100000.000 |
| 106.2 | Maintenance of Contractor's facility | month | 18 | 5,000,000 | 90000.000 |
| | 107 Maintenance and Protection of Traffic | | | | |
| 107.1 | Maintenance and protection of traffic | mns dmnl | | | 100000,000 |
| 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. | | | |
| 107.3 | Extra over item 107.1 for supply and compaction of bituminous basecourse on diversions where ordered by the Engineer (3 cm. thick) | cn. m. | | | |
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| | | 1-4 | Car | Carried to summary | 290000,000 |

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| | CONSTRUCTION OF FLYOVER AT AL FALAJ QABAIL BILL OF QUANTITIES | YOVER A JL FIES | £. | | |
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| | BILL 1 - PRELIMINARIES | 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 | 18 | 30.000 | 540.000 |
| | 109 Sign Boards | | | | |
| 109.1 | Provision, erection, moving and maintenance of signboard (Wooden Type) | n.r. | Ø | 300.000 | 600.000 |
| | | | | | |
| | 110 Commemoration Plaque and Opening Ceremony | | | | |
| 110.1 | Supply and erection of commemoration plaque (Optional) | n.r. | , | Option | |
| 110.2 | Opening ceremony (Optional) | uns dwnl | | | |
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| | | 1-5 | Ca | Carried to summary | 1140.000 |
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| | BILL OF QUANTITIES BILL 1 - PRELIMINARIES | TITIES INARIES | | | |
| Item No | Description | Unit | Estimated | Unit Rate | Amount |
| | | | Quantity | R.O. Bz | R.O. Bz |
| | SUMMARY | | | | |
| | Page 1-1 | | | | 44250.000 |
| | Page 1-2 | | | | 16100.000 |
| · • • • • • • • • • • • • • • • • • • • | Page 1-3 | | | | 18300.000 |
| | Page 1-4 | | | | 29000.000 |
| obsociation in the | Page 1-5 | | | - | 1140.000 |
| - Secretary and Confession of the Confession of | Page 1-6 | | | | 0,000 |
| المنازع | | | | | |
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| | | 1.7 | To (| To Ground Summary | 369790.000 |
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| | BILL 2 - EARTHWORKS | ries orks | | | |
| Item No | Description | Unit | Estimated | Unit Rate | Amount |
| | | | Quantity | R.O. Bz | R.O. Bz |
| | 200 EARTHWORKS | | | | anio antigrando de la composición del composición de la composició |
| | 201 Clearing and Grubbing | | | | |
| 201.1 | Removal and delivery of trees of 300mm trunk diameter or greater | ה.א. | 112 | 15.000 | 1680.000 |
| | 202 Removal of Structures and Obstructions | | | | |
| | | | | | |
| 202.1 | Removal of existing building (Shop, etc) | n,r. | જ | 200.000 | 400.000 |
| 202.2 | Removal of misc. reinforced concrete structures | cu. m. | 37 | 5.000 | 185.000 |
| 202.3 | Removal of pipe culvert (D=0.6,0.75,0.9) | lin.m. | N/A | 2.000 | |
| 202.4 | Removal of asphaltic concrete pavement (100 mm thick) | ca. m. | 3978 | 2.000 | 7956.000 |
| 202.5 | Removal of damaged steel safety barrier (Gurdrail) | lin.m. | 4339 | 1.800 | 7810.200 |
| | | | | | |
| | | 2-1 | Cal | Carried to summary | 18031.200 |

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| | CONSTRUCTION OF FLYOVER AT | YOVER A | F-4 | | |
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| | BILL OF QUANTITIES BILL 2 - EARTHWORKS | TIES ORKS | į | | |
| N.O. | Description | Unit | Estimated | Unit Rate | Amount |
| ONT TRANT | | | Quantity | R.O. Bz | R.O. Bz |
| 202.6 | Remove carefully and relocate sign boards and road signs (size) | n.r. | 67 | 3.500 | 234.500 |
| 202.7 | Removal of damaged Irish crossing marker posts | n.r. | N/A | 2.500 | |
| 202.8 | Removal of damaged drainage protection works (gabions, conc. tiles, mortared riprap, dry rip rap) | cu. m. | N/A | 3.500 | |
| 202.9 | Removal of existing fences (wire mesh, chicken wire) | lin.m. | A/Z | 1.500 | |
| 202.10 | Removal of existing fences (block or masonry wall) | Ľin.m. | N/A | 2.000 | |
| 202.11 | Removal of existing box culvert $(2 \times 1 \text{ m})$ | lin.m. | V/V | 5.000 | |
| 202.12 | Removal of existing interlocking tiles | sq. m | 2910 | 1.200 | 3492.000 |
| 202.13 | Removal of existing crush stone | lin.m. | N/A | 1.000 | |
| 202.14 | Removal of existing plain concrete | cu. m. | 8 | 2.000 | 176.000 |
| 202.15 | Removal of Curb Stone | E | 5025 | 1.500 | 7537.500 |
| , and the same of | | 2-2 | Ö | Carried to summary | 11440.000 |
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|-------------------|---|--------------------------------|-----------|--------------------|--|
| Item No | Description | Unit | Estimated | Unit Rate | Amount RO Bz |
| | 203 Earthworks Excavation | | famount | | 1 |
| 203.1 | Suitable excavation to embankment | cu. m. | 24827 | 0.600 | 14896.200 |
| 203.2 | Suitable excavation to waste | cu. m. | 12560 | 0.300 | 3768.000 |
| 203.3 | Unsuitable excavation to waste | cu. m. | N/A | 0.400 | - No. 10 10 10 10 10 10 10 10 10 10 10 10 10 |
| 203.4 | Borrow excavation to embankment | cu. m. | 10127 | 1.500 | 15190.500 |
| 203.5 | Extra over item 203.1 ,2, 3 for excavation under water | ca. m. | N/A | 3.000 | |
| | 206 Excavation and Backfilling for Structures | | | | |
| 206.1 | Structure excavation in soils to a depth of 2m | ່ ພ "ກວ | 505 | 1.000 | 505.000 |
| 206.2 | Structure excavation in soils to a depth more than 2m | ca. m. | N/A | 1.700 | |
| conta, M. Johanne | | | | | |
| | | 2-3 | Car | Carried to summary | 34359.700 |

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| all program for all laters were program according to | BILL 2 - EARTHWORKS | ries orks | | | |
| Item No | Description | Unit | Estimated Quantity | Unit Rate R.O. Bz | Amount R.O. Bz |
| 206.3 | Structural excavation in rock to a depth of 2m | cu. m. | N/A | | |
| 206.4 | Structural excavation in rock to a depth more than 2m | cu. m. | N/A | 2.600 | |
| 206.5 | Extra over 206.1,2,3,4 for excavation under water | cu, m. | N/A | 2,900 | |
| | | | | | |
| | | 2-4 | Car | Carried to summary | 0,000 |

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| Item No | Description | Unit | Estimated | Unit Rate | Amount RO RA |
| | SUMMARY | | forman's | 1 | |
| م سرد در ساد بد | Page 2-1 | | | | 18031.200 |
| soli december. | Page 2-2 | | | | 11440.000 |
| | Page 2-3 | | | | 34359,700 |
| | Page 2.4 | | | | 000.0 |
| olanszare sz era | | | | | |
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| | | | | | Maranana, wasayang |
| ~~~ | | 2-5 | To | To Grand Summary | 63830.900 |

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| CONTRACTOR DESCRIPTION | AL FALAJ QABAIL BILL OF QUANTITIES | IL PIES | | | |
| , , | BILL 3 - GRANULAR AND STABILIZED SUBBASE, BASE COURSE, STABILIZED SUBGRADE | 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 | | | - valoring to the second | |
| 302.1 | Granular subbase (class B) (150 mm thick) | ca. m. | 6076 | 2.000 | 12152.000 |
| | 303 Aggregate Basecourse | | | | |
| 303.1 | Aggregate basecourse (class B) (300 mm thick) | cu. m. | A/N | 3.600 | |
| 308.2 | Aggregate basecourse (class B) (250 mm thick) | cu. m. | N/A | 3.500 | |
| 303.3 | Aggregate basecourse (class B) (200 mm thick) | cu. m. | 10688 | 3.300 | 35270.400 |
| 303.4 | Aggrogate basecourse (class B) (150 mm thick) | cn. m. | 720 | 3.000 | 2160.000 |
| · zazar zaroldek (i) | | | | | |
| | | 3-1 | Car | Carried to summary | 49582,400 |

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| | CONSTRUCTION OF FLYOVER AT | YOVER A | ـــــ | | |
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| | AL FALAJ QABAIL BILL OF QUANTITIES | IL IIES | ı | | |
| | BILL 3 - GRANULAR AND STABILIZED SUBBASE, BASE COURSE, STABILIZED SUBGRADE | ASE COU | RSE, STABIL | IZED SUBGRA | ADE |
| Item No | Description | Unit | Estimated | Unit Rate | Amount |
| | | - | Quantity | R.O. Bz | R.O. Bz |
| | SUMMARY | | | | |
| | Раке 3-1 | | | | 49582.400 |
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| | | 3.2 | Carr | Carried to summary | 49582.400 |

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| | CONSTRUCTION OF FLYOVER AT AL FALAJ QABAIL | YOVER A IL | <u></u> | | |
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| one wassend | BILL OF QUANTITIES BILL 4 - BITUMINOUS PAVEMENT | nes Avemen | T | | |
| Item No | Description | Unit | Estimated | Unit Rate | Amount |
| oran cov ex | | | Quantity | R.O. Bz | R.O. Bz |
| | 400 BITUMINOUS PAVEMENT | | | | |
| | 401 Bituminous Prime Coat and Tack Coat | ************************************** | | | ggarana (galangana) |
| | | | | | en-deligración (|
| 401.1 | Bituminous prime coat (MC 70) | ж я | 42755 | 0.250 | 10688.750 |
| 401.2 | Bituminous tack coat (RC 250) | gx | 10688 | 0.300 | 3206.400 |
| فنان وادان ب | | | | | - |
| · | 402 Bituminous Basecourse | | •• | | |
| The space of the s | | | | | |
| 402.1 | Bituminous basecourse (class B) 50 mm,thick | ca. m. | N/A | 22.000 | |
| 402.2 | Bituminous basecourse (class B) 100 mm.thick | cu,m. | 5344 | 28.000 | 149632.000 |
| 402.4 | Increse or decrese in bituminous content from nominal rate | .X. | rete only | 0.050 | |
| | | | | | |
| mar 3. 3 tr + 13-71 | | | | | |
| | | 4-1 | Car | Carried to summary | 163527.150 |
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| | | 뭁 | R.O. Bz | | 95508.000 | | 95508.000 |
| | | Unit Rate | R.O. Bz | | 28.000 | 0.050 | Carried to summary |
| 1.T | E Z | | Quantity | | 3411 | rate only | Ca |
| YOVER A | TIES PAVEME | Unit | | | ca. m. | អ្ | 4-2 |
| CONSTRUCTION OF FLYOVER AT | BILL OF QUANTITIES BILL 4 - BITUMINOUS PAVEMENT | Description | | 405 Bituminous Wearing Course | Bituminous wearing course (class B) (50 mm thick) | Increase or decrease in bitumen content from nominal rate | |
| | | Item No | | | 405.1 | 405.2 | |

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| | CONSTRICTION OF FLYOVER AT | OVER A | F | | |
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| | AL FALAJ QABAIL BILL OF QUANTITIES | IL IES | , { | | |
| Ttem No | BILL 4 - BITUMINOUS PAVEMENT Description Unit 1 | AVEMEN Unit | T. Estimated | Unit Rate | Amount |
| | | | Quantity | R.O. Bz | R.O. Bz |
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| | SUMMARY | | | | |
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| | Page 4-2 | | | | 95508,000 |
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| | CONSTRUCTION OF FLYOVER AT AL FALAJ QABAIL BILL OF QUANTITIES BILL 5 - CONCRETE AND CONCRETE STRUCTURE | AIL TIES CREEST | T RUCTURE | | |
|------------------------------------|--|-----------------|--------------|--------------------|--|
| Item No | Description | Unit | Estimated | Unit Rate | Amount |
| | | | Quantity | R.O. Bz | R.O. Bz |
| CHOPPING TO LIFE OF | 500 CONCRETE AND CONCRETE STRUCTURE | | | - | |
| | 504 Concrete for Structure | | | | yder St. Charles St. Charles, yw gan charles |
| 504.1 | Concrete Class 16/20 (OPC cement) Blinding, Gravity Wall | cu. m. | 2851 | 30.000 | 85530.000 |
| 504.2 | Concrete Class A 24/20 for retaining wall, abutment and piers (OPC) | u'nə | 8265 | 35.000 | 289275.000 |
| 504.3 | Concrete Class 32/20 for bridge deck. cross beam and joint | cn.m | 352 | 50.000 | 17600.000 |
| 504.4 | Cast-in-Situ Concrete Class 24/20 for bridge deck for cantilever | m.uo | 1003 | 38.000 | 38114.000 |
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| ggefandet v far heldgregand, gyrad | | | | | |
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| | CONSTRUCTION OF FLYOVER AT AL FALAJ QABAIL BILL OF QUANTITIES BILL OF QUANTITIES | OVER A IL IES | T SUCTURE | | |
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| 74.000 | | Unit | Estimated | Unit Rate | Amount |
| ov man | | | Quantity | R.O. Bz | R.O. Bz |
| | 506 Prestressed Concrete for Bridge | | | | |
| 506.1 | Precast, pre-stressed, bridge beam, reinforced concrete class AA40 including all reinforcement, tendons, tension cable strands, approved anchorage points | , at | | | |
| ··· | "Freyssinct" system or coual and approved sheaths, de-watering, pipes grouting in accordance with manufacturers recommendations, all complete and as detailed on tender drawings | | | | |
| | | | | | |
| | | , | | | |
| advit orio a ana | | \$ | Ø. | 2.400.000 | 47.5200.000 |
| , | a) PS Box griders (Internal) 26 m long | |) | ī | |
| | b) PS Box girders (External) 26 m long | n.r. | 44 | 2,700.000 | 118800.000 |
| | | | | | |
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| | | Amount | R.O. | | 2382 | | | 2382 |
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| | | е | $\mathbf{B}\mathbf{z}$ | | 285.000 | 300.000 | 400.000 | ary |
| | | Rat | R.O. | | 285. | 300 | 400. | mwn |
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| | TU. | Estimated | Quantity | | 836 | N/A | N/A | |
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| CONSTRUCTION OF FLYOVER AT | BILL 5 - CONCRETE AND CONCRETE STRUCTURE | £. | | | 6) | e) | | |
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| | | | | rcin | tecl | ar re | rcem | |
| | | | | cinf | ield s | q ləə | cinfo | |
| | | | | 509 Reinforcing Steel | High yield steel bar reinforcement of any diameter | Mild steel bar reinforcement of any diameter | Mesh reinforcement of any size | |
| | | å | | ഥ | <u>_</u> | | | |
| | | Item No | | | 509.1 | 509.2 | 509.3 | |
| And Description | | | احسرا | | رة. ح | ഹ | <u> </u> | ı |

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| Item No | Description Unit Estimated | Unit | Estimated | Unit Rate | Amount |
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| or o | SUMMARY | | | | |
| | Page 5-1 | | | | 430519.000 |
| | Page 5-2 | | | - | 594000.000 |
| | Page 5-3 | | | | 238260.000 |
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| | | 7. 4. | | Carried to summary | 1989779 000 |
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| -2-4-3-th | CONSTRUCTION OF FLYOVER AT AL FALAJ QABAIL | YOVER A | E -4 | | |
|-----------|---|-----------------|-------------------|--------------------|------------|
| | BILL 6 - STRUCTURAL STEEL AND OTHER METALWORK | ries Other i | IETALWOR K | | |
| Item No | Description | Unit | Estimated | Unit Rate | Amount |
| | | | Quantity | R.O. Bz | R.O. Bz |
| | 600 STRUCTURAL STEEL AND OTHER METALWORK | | | | |
| | 603 Bridge Parapets | | | | |
| 603.1 | Bridge Handrails (Aluminum) (H=500 mm) | lin.m. | 2285 | 45.000 | 102825.000 |
| | | | · | · | |
| | | 6-1 | Can | Carried to summary | 102825.000 |

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| | CONSTRUCTION OF FLYOVER AT | OVER A' | Ţ. | | |
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| | AL FALAJ QABAIL | , , | | | |
| | BILL 6 - STRUCTURAL STEEL AND OTHER METALWORK | ES THER D | IETALWORK | | |
| Item No | Description | Unit | Estimated | Unit Rate | Amount |
| | | | Quantity | R.O. Bz | R.O. Bz |
| | SUMMARY | | | | |
| | Page 6-1 | | | | 102825.000 |
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| | | 6.2 | Car | Carried to summary | 102825.000 |

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| | CONSTRUCTION OF FLYOVER AT AL FALAJ QABAIL | YOVER A | £r. | | |
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| | BILL 8 - DRAINAGE AND SERVICE DUCTE | TIES SRVICE D | UCTE | | |
| Item No | Description | Unit | Estimated | Unit Rate | Amount |
| | | | Quantity | R.O. Bz | R.O. Bz |
| | 800 DRAINAGE AND SERVICE DUCTS | | | , , | |
| | 801 Pipe Culverts | | | | |
| 801.1 | Reinforced concrete pipe culvert (600 mm. dia.) | lin.m | 135 | 35,000 | 4725.000 |
| 801.2 | Reinforced concrete pipc culvert (750 mm. dia.) | lin.m | 19 22 | 45.000 | 1125.000 |
| | | | | | |
| | 802 Reinforced Concrete Box Culverts, Box Culverts and Pipe Culverts Headwalls, Wingwalls and Aprons (SRP cement) | | | | |
| 802,1 | Concrete (Class 28/20), Box Culverts, Box Culverts and Pipe Culverts Headwalls, Wingwalls, Wingwalls, Wingwalls and Aprons (SRP Cement), all complete and as detailed on drawing | lwalls, Wingw ing | alls, | · · · · · · · · · · · · · · · · · · · | |
| 802.1.1 | Box culvert 2 x 1 m 1 cell | lin.m | N/A | 60.000 | |
| 802.1.2 | Box culvert 2 x 1 m 2 cell | lin.m | Ø | 110.000 | 000.066 |
| 802.1.3 | Box culvert 2 x 1 m 3 cell | lin.m | 12 | 150.000 | 1800.000 |
| Roniby Ankador | | 8-1 | Ca | Sarried to summary | 8640.000 |

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| 2 | TE TEL OTEL TO MOTEO CATEORY | | | | |
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| × 42.0 | AL FALAJ QABAIL | 님 | | | |
| | BILL OF QUANTITIES BILL 8 - DRAINAGE AND SERVICE DUCTE | IES RVICE D | UCTE | | |
| Item No | | Unit | Estimated | Unit Rate | Amount |
| | | | Quantity | R.O. Bz | R.O. Bz |
| | 804 Catch Basins, Catch Pits, Manholes, Curb Inlets, Ditch Inlets and Outlets | | | | |
| | | | | | |
| | Reinforced concrete catch pit comprising excavation, backfilling, disposal, 100 mm thick plain in-situ sulphate resisting concrete class (12/20) blinding. | | | | |
| | concrete class (24/20) for structure, all complete and as detailed on drawing | | | | |
| 804.1 | Catch Pits 1x1x2m | n.r. | 4 | 180.000 | 720.000 |
| | Reinforcwed concrete gullies comprising excavation, backfilling, disposal, 150 mm bed and walls of reinforces sulphate resisting concrete class (24/20) | | | | |
| | all complete and as detailed on drawings | | | | |
| 804.2 | Gullies 300 x 300 mm | lin.m | 949 | 25.000 | 23725,000 |
| | | | | | |
| | | | | | |
| | | 8-2 | Car | Carried to summary | 24445,000 |

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| | CONSTRUCTION OF FLYOVER AT | YOVER A | Ţ | | |
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| | BILL OF QUANTITIES BILL 8 - DRAINAGE AND SERVICE DUCTE | TIES RVICE D | UCTE | | |
| Item No | Description | Unit | Estimated | Unit Rate | Amount |
| | | | Quantity | R.O. Bz | R.O. Bz |
| | 805 Water proofing for structure | | | | |
| 805.1 | Waterproofing membrane | sq.m. | Z/A | 1.800 | titilik mitanja kindaringa ang |
| 805.2 | Mastic asphalt waterproofing | .m.ps | N/A | 8.000 | |
| 805.3 | Bituminous paint | sg.m. | 3000 | 0.350 | 1050.000 |
| | | | | | |
| | 807 Service Ducts | | | | |
| 807.1 | Service duct (A.C. 150 mm dia1 way with concrete surround), including duct markers | lin.m. | N/A | 2.200 | |
| 807.1.1 | Service duct (A.C. 150 mm dia2 way with concrete surround), including duct markers | lin.m. | 324 | 4.000 | 1296.000 |
| 807.2 | Extra over for excavation in rock for service ducte | ca.m. | | <u> </u> | British A. S. Fill Charles ann gr |
| | | စာ တ | Ca | Carried to summary | 2346.000 |

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| | BILL OF QUANTITIES BILL 8 - DRAINAGE AND SERVICE DUCTE | TES RVICE DI | лств | | |
| Item No | Description | Unit | Estimated | Unit Rate | Amount |
| A.M.C. | | | Quantity | R.O. Bz | R.O. Bz |
| | SUMMARY | | | | |
| | Page 8-1 | | | - | 8640.000 |
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| 55 N -3 | Page 8-3 | | | | 2346.000 |
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| | | 8-4 | Ca | Carried to summary | 25431.000 |
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| | AL FALAJ QABAIL | IL | | | |
| | BILL 9 - SLOPE PROTECTION AND STABILISATION | TES D STABI | LISATION | | |
| Item No | Description | Unit | Estimated | Unit Rate | Amount |
| | | | Quantity | R.O. Bz | R.O. Bz |
| | 900 SLOPE PLOTECTION AND STABILISATION | | | | |
| - | 901 Riprap | | | | |
| 901.2 | Mortared stone riprap (Class A), in Irish Crossing | ca.m. | *************************************** | 13.000 | |
| 901.2.1 | Mortared stone riprap (Class A), other than Irish Crossing | ca.m. | 304 | 16.000 | 4864.000 |
| | | | | | |
| | | 9-1 | Car | Carried to summary | 4864,000 |

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| | CONSTRUCTION OF FLYOVER AT | OVER A | 4 | | |
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| | AL FALAJ QABAIL BILL OF GIJANTITIES | IL TES | ı. | | |
| | BILL 9 - SLOPE PROTECTION AND STABILISATION | D STABI | LISATION | | - |
| Item No | | Unit | Estimated | Unit Rate | Amount |
| | | | Quantity | R.O. Bz | R.O. Bz |
| | SUMMARY | | | | |
| | Page 9-1 | | | | 4864,000 |
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3.3 Design Conditions of Pedestrian Underpasses

3.3.1 Structural Types

The proposed pedestrian underpass is structurally comprised of basically a box tunnel under the Batinah Highway and two approach staircases with canopies to be provided at both ends of the tunnel.

The general layout of the pedestrian underpass is shown in Figure 3.30. Location of the proposed pedestrian underpasses has already been discussed in section 2.3.

(1) Box Tunnel

Structural Type : Cast-in-place reinforced concrete 1 span box culvert

with a light well at around the center of culvert.

A light well in the highway median will be provided to avoid

the need for daytime artificial illumination.

Dimension : Box tunnel length will be determined along with the alignment

criteria prescribed in section (2) below.

Box internal size: Internal height = 3.0m

Internal width will be determined in accordance with the following table.

| Box Length | | Minimum in ternal size (including finishes) | | Minimum structual size (excluding finishes) | |
|----------------|--------|---|--------|---|--|
| | Height | Width | Height | Width | |
| <23m | 2.3m | 3.0m | 2.4m | 3.3m | |
| 23m and longer | 2.6m | 3.3m | 2.7m | 3.6m | |

Pavement : Material - Granolithic screed

Gradient -i = 1.00% (cross section)

Thickness - max.=100mm

| | CONSTRUCTION OF FLYOVER AT AL FALAJ QABAIL BILL OF QUANTITIES | YOVER A' IL IES | <u>-</u> | | |
|--|--|-----------------------|-----------------------|----------------------|-------------------|
| | BILL 11 - BRIDG | NT, JOIN | ITS SEAL AN | ID FILLERS | * |
| Item No | Description | Unit | Estimated Quantity | Unit Kate R.O. Bz | Amount R.O. Bz |
| | 1100 BRIDGE BEARINGS, EXPANSION JOINT, JOINTS SEALS AND FILLERS | | | | |
| duka sana masa sa | 1101 Bridge Bearings | | | | |
| 1101.1 | Synthetic Rubber Shoe 460 x 360 x 80 mm including anchor bar, cap, filler reinforcing bar, spiral bar and shrinkage mortar | វៈជ | 78 78 | 40.000 | 19360.000 |
| · | 1102 Bridge Expansion Joints | | | | |
| 1102.1 | Bridge expansion joint Movement Range W=50 mm | E | 77 | 150.000 | 6600.000 |
| 1102.1.1 | Bridge expansion joint Movement Range W=100 mm | E | 222 | 280.000 | 62160.000 |
| | | | | | |
| | | 11-1 | To | To Grand Summary | 88120.000 |

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| Item No | BILL II - BRIDGE BEARIBGS, EXPANSION JOINT, JOINTS SEAL AND FILLERS Description Description | Unit | Estimated | Unit Rate | Amount |
| · | | | Quantity | R.O. Bz | R.O. Bz |
| | SUMMARY | | | | |
| | Page 11-1 | | | | 88120.000 |
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| | CONSTRUCTION OF FLYOVER AT | COVER A | T | | |
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| o de constitue de la cons titue de la constitue de la constit | BILL OF QUANTITIES BILL 12 - SIDEWALKS, PAVED AREAS AND CURBS | TES REAS AN | ID CURBS | | |
| Item No | Description | Unit | Estimated | Unit Rate | Amount |
| | | | Quantity | R.O. Bz | R.O. Bz |
| · . | 1200 SIDE WALKS, PAVED AREAS AND CURBS | | | | |
| - | 1201 Sidewalks | | | | |
| 1201.1 | Interlocking Block Pavement including granular Basecourse 150 mm thick | SQ. E | 6076 | 4,000 | 24304.000 |
| | 1202 Curbs | | | | |
| 1202.1.1 1202.1.2 1202.1.3 | Curb 100 x 200 (Mountable) Curb 150 x 350 (Mountable) Curb 150 x 350 (None mountable) | lin.m. lin.m | 2509 80 5501 | 3,500 5,000 4,000 | 8781.500 400.000 22004.000 |
| | All curbs are hydraulically pressed sulphate resisting concrete class A (45/20) geded jointed and pointed in 10 mm thick sand cement grout. including all necessary excavation, backfill, dispose, formwork and all necessary works for complete. | مند معرد | | | |
| | | 12-1 | Car | Carried to summary | 55489,500 |

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| | CONSTRUCTION OF FLYOVER AT | YOVER A' | , | | |
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| | AL FALAJ GABAIL BILL OF QUANTITIES BILL 12 - SIDEWALKS, PAVED AREAS AND CURBS | ll TES REAS AN | D CURBS | | |
| Item No | | Unit | Estimated | Unit Rate | Amount |
| | | | Quantity | R.O. Bz | R.O. Bz |
| | SUMMARY | | | | |
| | Page 12-1 | | | | 55489,500 |
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| | BILL OF QUANTITIES BILL 13 - SAFETY BARRIERS, DELINEATORS AND FENCES | les Eators | AND FENCE | Si | |
| Item No | Description | Unit | Estimated | Unit Rate | Amount |
| | 1300 SAFETY BARRIERS, DELINEATORS AND FENCE | | Quantity | | 1 |
| | | | | | |
| | 1301 Corrugated Steel Boam Saicty Barrier | | | | |
| 1301.1.1 | Safety barrier beam (Type-A) including posts and end anchor | lin.m. | 3140 | 12.000 | 37680.000 |
| 1301.1.2 | Safety barrier beam (Type-C) including posts and end anchor | lin.m | 1340 | 13.000 | 17420.000 |
| | | | | | |
| | 1302 Reflectorised Markers for Safety Barriers | | | | |
| 1303.1 | Reflectorised markers attached to guardrail | n.r. | 294 | 8.000 | 2352.000 |
| 1303.2 | Reflectorised markers attached to concrete | n.r. | R/Z | | |
| | | | | | |
| | | 13-1 | Ö | Carried to summary | 57452.000 |

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| | Amount R.O. Bz | ું ભું | 57452.000 |
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| SS | Unit Rate | | Carried to summary |
| T AND FENCE | Estimated Quantity | | Ç |
| YOVER A ML TIES VEATORS | Unit | | 13.2 |
| CONSTRUCTION OF FLYOVER AT AL FALAJ QABAIL BILL OF QUANTITIES BILL 13 - SAFETY BARRIERS, DELINEATORS AND FENCES | Description | SUMMARY Page 13-1 | |
| | Item No | · H | |

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| | CONSTRUCTION OF FLYOVER AT | YOVER A | £ | | |
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| zowenie zakowa zakowa zako | AL FALAJ QABAIL BILL OF QUANTITIES BITT 14 - HICHWAY SIGNS AND ROAD MARKING | VIL TIES O ROAD A | TARKING | · | |
| Item No | Description | Unit | Estimated | Unit Rate | Amount |
| | | | Quantity | R.O. Bz | R.O. Bz |
| e party e party and a second | 1400 HIGHWAY SIGNS AND ROAD MARKING | | | | |
| | 1401 Highway Signs | | | | |
| 1401.1 | Highway sign, triangular, size (900 mm) | n.r. | . 14 | 40.000 | 560.000 |
| 1401.2 | Highway sign, circular, diameter (900 mm) | n.r. | 24 | 20.000 | 1200.000 |
| 1401.3 | Highway sign, rectangular, (600 x 2400, 750 x 1400 mm) | ri u | 12 | 200.000 | 2400.000 |
| 1401.4 | Highway sign, square, | מ'ג' | 10 | 20.000 | 500.000 |
| 1401.6.1 | Overhed signepost and support assembring cantilever | r. | 4 | 2,000.000 | 8000.000 |
| 1401.6.2 | Overhed signepost and support assembring gantry | n.r | 63 | 10,000.000 | 2000.000 |
| a la | | | | | |
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| O TOTAL STATE OF THE STATE OF T | | 14-1 | Ca | Carried to summary | 32660,000 |

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| | AL FALAS GABALL BILL OF QUANTITIES BILL 14 - HIGHWAY SIGNS AND ROAD MARKING | IL IES ROAD M | ARKING | | |
| Item No | Description | Unit | Estimated | Unit Rate | Amount |
| | | | Quantity | R.O. Bz | R.O. Bz |
| | 1402 Road Markings | | | | |
| 1402.1 | Traffic lines (Mechanically sprayed) | sq. m | 2300 | 1.500 | 3450.000 |
| 1402.2 | Special markings (Hand sprayed) | sq. m | 089 | 5.000 | 2900.000 |
| 1402.3 | Curb painting (Black and yellow) | sq. m | 1925 | 1.600 | 3080.000 |
| 1402.4 | Reflecting road studs type red | n,r. | 1024 | 4.410 | 4515.840 |
| | | | | | |
| | | 14-2 | Can | Carried to summary | 13945.840 |
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| | AL FALAJ QABAIL BILL OF QUANTITIES BILL 14 - HIGHWAY SIGNS AND ROAD MARKING | IL TES ROAD M | IARKING | | |
| Item No | | Unit | Estimated | Unit Rate | Amount |
| e para est | | | Quantity | R.O. Bz | R.O. Bz |
| | SUMMARY | | | | |
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| s pagenciares successive | Page 14-2 | | | | 13945,840 |
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| | AL FALAJ QABAIL BILL OF QUANTITIES | AIL TIES | | | |
| , | BILL 15 - ELECTRICAL INSTALLATION | STALLAT | NOI | : | |
| Item No | Description | Unit | Estimated | Unit Rate | Amount |
| | | | Quantity | R.O. Bz | R.O. Bz |
| Opin skop skoro | 1500 ELECTRICAL INSTALLATION | | | | |
| Si filah Side Side Side Side Side Side Side Side | 1502 Medium Voltage Switching Stations | prov sum | | | 50000.000 |
| 1502.1 | Medium Voltage Switching Stations | n.r. | | | |
| - | 1503 Package Sub-stations | - | | • | |
| 1503.1 | Package sub-station | n.r. | | | |
| | 1504 Package Medium Voltage Switching Stations | | | | andriangs des Calvilla en |
| 1504 | Packing medium voltage switching station | r.n | | | artikin dinadrat branena a sama |
| | | 15-1 | Car | Carried to summary | 5000.000 |

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| | CONSTRUCTION OF FLYOVER AT AL FALAJ QABAIL | YOVER A IL | Er | | |
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| والمراقب والمعارف | BILL 15 - ELECTRICAL INSTALLATION | STALLAT | ION | | |
| Item No | Description | Unit | Estimated | Unit Rate | 뉡 |
| مدارية والمراجع | | | Quantity | R.O. Bz | R.O. Bz |
| | 1505 33kV and 11kV Pole Mounted Transformer Stations | | | | |
| 1505.1 | 33kV pole mounted transformer station | n.r. | | | |
| 1505.2 | 11kV pole mounted transformer station | n.r. | | | |
| | 1506 Feeder Pillars | | | | |
| 1506.1 | Feeder pillar | 'i'.r' | | | |
| | 1507 Cables | | | | |
| 1507.1 | Cable (type) (size) | lin.m. | | | |
| Name - ann de Sall Markey | | | | | : |
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| | CONSTRUCTION OF FLYOVER AT | OVER A | | | |
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| | AL FALAJ QABAIL | 11. | | | - Luk ar 2000 |
| | BILL OF QUANTITIES | YES | Ž | | |
| Item No | Description | Unit | Estimated | Unit Rate | Amount |
| | | | Quantity | R.O. Bz | R.O. Bz |
| | 1508 Road Lighting Masts and Column | | | | |
| 1508.1 | High mast assembly (type) (height) | n.r. | | • | |
| 1508.2 | Lighting columns (type) (number of arms) (Height) | n.r. | | | |
| | 1509 Traffic Sign Illumination | | | | |
| 1509.1 | Overhead sign lighting (gantry or cantilever ref no) | n.r. | | | |
| 1509.2 | Roadside sign lighting (sign ref no) | מיג' | | | |
| | 1510 Recessed Lighting | | | | |
| 1510.1 | Recessed lighting (type) | n.r. | | | |
| | | 15.3 | Car | Carried to summary | |
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| | CONSTRUCTION OF FLYOVER AT AL FALAJ QABAIL BILL OF QUANTITIES | OVER A' (L IES | H | | |
|---------|---|----------------------|-----------|--------------------|---------|
| | BILL 15 - ELECTRICAL INSTALLATION | TALLAT | ION | | |
| Item No | Description | Unit | Estimated | Unit Rate | Amount |
| - | | - | Quantity | R.O. Bz | R.O. Bz |
| | 1511 Traffic Signals | | | <u>-</u> | |
| 1511.1 | Traffic signal installation (location) | mns dmnl | | | |
| | 1512 Barthing | | | | |
| 1512.1 | Twin rod earthing installation (location) | יי. מ | | | |
| 1512.2 | Single rod earthing installation (location) | יגי. | | | |
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| | CONSTRUCTION OF FLYOVER AT | YOVER A | T | | |
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| | AL FALAJ QABAIL BILL OF QUANTITIES BILL 15 - ELECTRICAL INSTALLATION | IL FIES STALLAT | NOI | | |
| Item No | Description | Unit | Estimated | 1 121 | 벍 |
| | | | Quantity | R.O. Bz | R.O. Bz |
| | SUMMARY | | | | |
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| | CONSTRUCTION OF FLYOVER AT AL FALAJ QABAIL BILL OF QUANTITIES | OVER A L ES | E | | |
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| | | ES | | | |
| Item No | Description | Unit | Estimated | Unit Rate | Amount BO B |
| | 1700 UTILITIES | | (amount) | | |
| | 1701 Utilities | | | | |
| 1701.1 | Remove carefully and relocate low voltage electric poles, telephone poles, | r,r | | | |
| | including removal of lines, excavation, backfilling amd other related works as directed by the Engineer | | | | |
| 1701.1.1 | Protect of existing utilities crossing the roadway as shown in Drawing, or as directed by the Engineer | lin.m. | | | |
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| | | 17-1 | Cax | Carried to summary | |

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|--|--|------------------|-----------|------------------|---|
| - Barton Barton and a superior | AL FALAJ QABAIL BILL OF QUANTITIES BILL 17 - UTULITIES | IL MES IES | | | |
| Item No | Description | Unit | Estimated | Unit Rate | Amount |
| | | | Quantity | R.O. Bz | R.O. Bz |
| | SUMMARY | | | | |
| | Page 17-1 | Prov Sum | | | 3000.000 |
| | | | | | |
| . : ~ | | | | | |
| | | | 1 | | |
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| | | 17-2 | To (| To Grand Summary | 30000.000 |
| | | | | | |

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| | CONSTRUCTION OF FLYOVER AT | YOVER A | £, | | 11100 |
|---------|--|-------------------|-----------------------|--------------------|-------------------|
| | AL FALAJ QABAIL BILL OF QUANTITIES BILL 19 - DAYWORKS | JL FIES RKS | | | |
| Item No | Description | Unit | Estimated Quantity | Unit Rate | Amount R.O. Bz |
| W. | A. WAGES | | | | • |
| H 6 | These include proper wages, all used allowance, medical expense and all other charges provided for by local laws | | | | |
| A.1 S | Supervisor | hour | 100 | 4.000 | 400.000 |
| A.2 S | Site Surveyor | hour | 1000 | 3,500 | 3500.000 |
| A 3 84 | Foreman | hour | 480 | 3.200 | 1536.000 |
| A.4 | 1st Class Operator | hour | 480 | 1.100 | 528.000 |
| A.5 | 2nd Class Operator | hour | 100 | 0.950 | 95.000 |
| A6 | Mechanic | hour | 190 | 1.000 | 190.000 |
| A | Driver | hour | 480 | 1.000 | 480.000 |
| A.S. | Skilled Labour | hour | 1000 | 0.650 | 650.000 |
| A.9 S | Semi Skilled Labour | hour | 1000 | 0.600 | 600.000 |
| : | | 19-1 | Ca | Carried to Summary | 7979.000 |

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| | CONSTRUCTION OF FLYOVER AT AL FALAJ QABAIL BILL OF QUANTITIES | YOVER A IL FIES | E | | |
|---------|---|-----------------------|-----------|--------------------|---------|
| Ttom No | BILL 19 - DAYWORKS | RKS | Retimated | Init Rate | Amount |
| | | À | Quantity | R.O. Bz | R.O. Bz |
| A.10 | Ordinary Labour | hour | 1000 | 0.550 | 550.000 |
| A.11 | Mason | hour | 200 | 0.650 | 130.000 |
| A.12 | Painter | hour | 100 | 0.730 | 75.000 |
| A.13 | Carpenter | hour | 200 | 0.650 | 130.000 |
| A.14 | Steel Fitter | hour | 100 | 0.650 | 65.000 |
| A.15 | Electrician | hour | 20 | 0.850 | 17.000 |
| | | | | | |
| | | | | | |
| | | | | | |
| · | | 19-2 | Car | Carried to Summary | 967,000 |

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| | rion ALA | YOVER A | £ | | |
|----------|---|---------|-----------|--------------------|---------|
| Item No | Description Description Ur | KKS | Estimated | Unit Rate | Amount |
| | | | Quantity | R.O. Bz | 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. | .st, | | | |
| .B.1 | Motorgrader from 100 hp up to 120 hp | hour | က | 9.500 | 47.500 |
| B.2 | Motorgrader from 120 hp up to 150 hp | hour | 11 | 11.500 | 126.500 |
| щ 83 | Tractor from 60 to 100 hp | hour | တ | 4.000 | 20.000 |
| Ж. 4. | Bulldozer with ripper from 100 hp to 150 hp | hour | ស | ٦.000 | 35.000 |
| М го | Bulldozer with ripper from 150 hp to 200 hp | hour | ۲ | 8.000 | 26.000 |
| B.6 | Bulldozer with ripper from 200 hp to250 hp | hour | 9 | 18.000 | 108.000 |
| B.7 | Bulldozer with ripper from 250 hp to 300 hp | hour | 4 | 19,500 | 78.000 |
| B.8 | Wheel tractor up to 50 hp | hour | 10 | 4.000 | 40.000 |
| | | 19-3 | Car | Carried to Summary | 511.000 |

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| | CONSTRUCTION OF FLYOVER AT | YOVER A | Ę | : | |
|---------|---|------------|-----------|--------------------|---------|
| | BILL OF QUANTITIES BILL 19 - DAYWORKS | NES RKS | | | |
| Item No | Description | Unit | Estimated | Unit Rate | Amount |
| | | | Quantity | R.O. Bz | R.O. Bz |
| B.9 | Wheel tractor over 50 hp | hour | 10 | 7.000 | 70.000 |
| B.10 | Motor scraper capacity up to 18 cu.m. | hour | 10 | 19.000 | 190,000 |
| B.11 | Motor scraper capacity from 18 to 24 cu.m. | hour | 10 | 19.000 | 190.000 |
| B.12 | Sheeps foot roller, from 5 tonnes to 10 tonnnes | hour | 10 | 5.000 | 20.000 |
| B.13 | Grid roller | hour | ν. | 7.000 | 28.000 |
| B.14 | Vibratory compactor with prime mover up to 5 tonnes | hour | 4 | 3.000 | 20.000 |
| B.15 | Vibratory compactor with prime mover from 5 to 10 tonnes | hour | * | 7.000 | 28.000 |
| B.16 | Pneumatic compactor with prime mover from 30 to 50 tonnes | hour | 4 | 7.000 | 28.000 |
| B.17 | Pneumatic self-propelled rollers from 15 to 20 tonnes | hour | တ | 4.500 | 36.000 |
| B.18 | Tandem roller up to 8 tonnes | hour | 24 | 4.500 | 108.000 |
| B.19 | Tandem roller from 8 to 12 tonnes | hour | ∞ | 2.000 | 40,000 |
| | | 19-4 | Car | Carried to Summary | 788.000 |

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| | CONSTRUCTION OF FLYOVER AT | YOVER A | £ | | |
|---------|--|-------------|-----------------------|----------------------|-------------------|
| | BILL OF QUANTITIES BILL 19 - DAYWORKS | TIES RKS | | | |
| 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 | 24 | 5.000 | 120.000 |
| B.21 | Light frog- rammer 0.1 tonne | hour | 50 | 0.500 | 10.000 |
| B.22 | Heavy frog-rammer 0.5 tonne | hour | 50 | 0.700 | 14.000 |
| B.23 | Wheel loder 1.2 to 1.6 cu.m. | hour | 50 | 9.500 | 190,000 |
| B.24 | Wheel loder 1.6 to 2.0 cu.m. | hour | 02 | 10.000 | 200.000 |
| B.25 | Wheel loder 2.0 to 2.5 cu.m. | hour | 20 | 11.000 | 220.000 |
| 3.26 | 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 | 15 | 7.500 | 112,500 |
| B.28 | Bituminous mixing plant with batching apparatus up to 80 t/h. | hour | ເລ | 18.000 | 90.000 |
| B.29 | Bituminous mixing plant with batching apparatus from 80 to 150 th. | hour | ဟ | 23.000 | 115.000 |
| B.30 | Finisher up to 80 t/h. | hour | 10 | 9.000 | 90.000 |
| | | 19-5 | Ca | Carried to Summary | 1244.000 |

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| | CONSTRUCTION OF FLYOVER AT AL FALAJ QABAIL BILL OF QUANTITIES BILL 19 - DAYWORKS | YOVER A JL CIES RKS | Æ | | |
|---------|--|------------------------------|-----------|--------------------|-----------------|
| Item No | Description | Unit | Estimated | Unit Rate | Amount RO Bz |
| B.31 | Finisher from 80 t/h to 120 t/h. | hour | 10 | Ö | Ö |
| B.32 | Bitumen sprayer up to 6 tonnes | hour | 10 | 2.000 | 30.000 |
| B.33 | Tanker truck up to 6 cu.m. | hour | 15 | 3.000 | 75.000 |
| B.34 | Dump truck up to 10 tonnes | hour | 11 | 5.500 | 98.500 |
| B.35 | Dump truck from 10 to 15 tonnes | hour | 20 | 6.000 | 120.000 |
| B.36 | Screening plant from 80 to 100 t/h. | hour | ıs | 16.000 | 80.000 |
| B.37 | Crushing plant from 40 to 60 t/h. | hour | ശ | 20.000 | 100.000 |
| B.38 | Crushing plant with primary and secondary from 60 to 100 t/h. | hour | ιο | 30.000 | 150.000 |
| 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 |
| B.41 | Mechanical broom | hour | L | 4.000 | 28.000 |
| | | 19-6 | Car | Carried to Summary | 849.000 |

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| | CONSTRUCTION OF FLYOVER AT AL FALAJ QABAIL | YOVER A | T | | |
|----------|--|-------------|-----------------------|----------------------|--------------------------------|
| | 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 | 118 | 0.700 | 82.600 |
| B.43 | Steel cutting machine | hour | ည | 0.800 | 4,000 |
| ж 44. | Steel bending machine | hour | က | 1.200 | 000'9 |
| B.45 | Belt conveyor | hour | ဟ | 7.000 | 85 000 000 000 000 |
| B.46 | Concreto mixer up to 0.5 cu.m. | hour | 10 | 2.000 | 20.000 |
| B.47 | Concrete mixer over 0.5 cu.m. | hour | 12 | 4,000 | 48.000 |
| B.48 | Automatic concrete batch plant without mixing drum | hour | ശ | 7,500 | 37.500 |
| B.49 | Transmixer up to 5 cu.m. | hour | 10 | 6.500 | 65.000 |
| B.50 | Concrete vibrators | hour | 59 | 0.150 | 8.850 |
| B.51 | Crane up to 5 tonnes. | hour | თ | 4.500 | 40.500 |
| B.52 | Crane with broom and jib 5 to 10 tonnes | hour | Į~ | 8.000 | 56.000 |
| | | 19-7 | Cay | Carried to Summary | 403.450 |
| | | | | | |

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| | CONSTRUCTION OF FLYOVER AT AL FALAJ QABAIL BILL OF QUANTITIES BILL 19 - DAYWORKS | YOVER A AIL TIES | £ | | Parties, Agreement, In Section 1882, 1882, 1882 |
|--|--|------------------------|-----------|--------------------|--|
| Item No | Description | Unit | Estimated | Unit Rate | Amount |
| B.53 | Crane with boom and jib over 10 tonnes | hour | 7 | i i | 1. |
| B.54 | Generator 60 kw | hour | IJ | 1.500 | 7.500 |
| B.55 | Generator 75 kw | hour | ເລ | 1.800 | 9.000 |
| B.56 | Drilling equipment | hour | ıs | 0.200 | 1.000 |
| B.57 | Generator 100 kw | hour | ည | 3.000 | 15.000 |
| B.58 | Generator 150 kw | hour | က | 4,000 | 20.000 |
| B.59 | Generator 200 kw | hour | ເຈ | 2.000 | 25.000 |
| B.60 | Gravel strewer | hour | ស | 10.000 | 50.000 |
| · p. direct representations of the distribution of the distributio | | | | | o de la constante de la consta |
| | | | | | |
| | | 19.8 | Car | Carried to Summary | 204.500 |

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| | CONSTRUCTION OF FLYOVER AT | OVER A | £1 | | |
|---|--|-------------------|-----------|--------------------|-----------------------------|
| | AL FALAJ YABALL BILL OF QUANTITIES BILL 19 - DAYWORKS | LES IES IKS | | | |
| Item No | Description | Unit | Estimated | Unit Rate | 뉡 |
| | | | Quantity | R.O. Bz | R.O. Bz |
| | C. MATERIALS | | | | |
| and a supple of the supple of | 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. | | | | gerrhedik (1994), memerikat |
| Ö | Aggregate for granular sub-base course in accordance with the General and Special Specifications, in place as specified. | cu.m. | 50 | 1.000 | 20.000 |
| Ö, | Aggregate for granular aggregate base course in accordance with the Gener Special Specifications, in place as specified. | cu.m. | សួ | 2.000 | 00000 |
| က ပ | Aggregate for bituminous base course in accordance with the General and Special Special Specifications, near the asphalt plant, in bulk | ca.m. | 0 10 | 2.000 | 100.000 |
| O. 4. | Fine aggregate for concrete, in accordance with the General and Special Specifications, in place, in bulk | cu.m. | 25 | 2.000 | 50.000 |
| <u>ဂ</u> | Coarse aggregates for concrete, in accordance with the General and Special specifications, in place, in bulk | cu.m. | ಬ | 1.200 | 60.000 |
| | | 19-9 | Ca | Carried to Summary | 310.000 |

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| | CONSTRUCTION OF FLYOVER AT AL FALAJ QABAIL BILL OF QUANTITIES RILL 19 - DAVWORKS | YOVER A AIL TIES | æ | | |
|-----------|--|------------------------|-----------|--------------------|---------|
| Item No | Description | Unit | Estimated | اقا | H |
| | | | Quantity | R.O. Bz | R.O. Bz |
| φ C | Stone for dramage, masonry and slope protection, in accordance with the General and Special Specifications in place | cu.m. | 255 | 2.500 | 62,500 |
| Ö | Asphalt cement, grade 60-70 on site | ton | ī | 44.000 | 44.000 |
| S. S. | Asphalt cement, grade 50-60 on site | ton | 7 | 48.000 | 48.000 |
| 6.0 () | Emulsified asphalt, grade RS-1 on site | ton | п | 70.000 | 70.000 |
| C.10 | Cutback asphalt, MC and RC type on site | ton | r. | 75,000 | 75,000 |
| S E | Portland cement on site | ton | н | 25,000 | 25.000 |
| O | Deformed billet steel bars, AASHTO M 31 grade 60 (High Yield) of any diameter | ton | •-4 | 135.000 | 135.000 |
| C.13 | Deformed billet steel bars AASHTO M 31 grade 40 (Mild) of any diameter | ton | Ħ | 135.000 | 135.000 |
| C.14 | Highway signs | sg.m. | œ | 32.000 | 000'96 |
| C.15 | Highway sign supports - 1 post | nr. | 4 | 15.000 | 60.000 |
| : | | 19-10 | Car | Carried to Summary | 750.500 |

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| | CONSTRUCTION OF FLYOVER AT AL FALAJ QABAIL BILL OF QUANTITIES BILL 19 - DAYWORKS | YOVER A JL FIES RKS | ٤- | | |
|--|--|------------------------------|-----------------------|----------------------|-------------------|
| Item No | Description | Unit | Estimated Quantity | Unit Rate R.O. Bz | Amount R.O. Bz |
| C.16 | Highway sign supports - 2 post | חלי | લ્ય | loi | 0 |
| C.17 | Timber plank, on site | cu.m. | 61 | 105.000 | 210.000 |
| C.18 | Timber props, on site | cu.m. | ca. | 105.000 | 210.000 |
| C.19 | Wire mesh gabgions, on site | ton | ٥.5 | 320.000 | 160.000 |
| C.20 | Explosive, on site | ás ž | မာ | 20.000 | 100.000 |
| Q Q | Gas oil, on site | litre | 100 | 0.080 | 8.000 |
| C.22 | Gasoline, on site | litre | 200 | 0.120 | 60.000 |
| C.23 | Lubricant | ** ?? | ເລ | 0.300 | 1,500 |
| | | | | | |
| - Company - Language - | | | | | |
| | | 19.11 | Ca | Carried to Summary | 789.500 |

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| | CONSTRUCTION OF FLYOVER AT | YOVER A | L | | |
|---------|---------------------------------------|-------------|-----------|------------------|--|
| | AL FALAJ QABAIL | AIL | | | |
| | BILL OF QUANTITIES BILL 19 - DAYWORKS | TIES RKS | | | |
| Item No | Description | Unit | Estimated | Unit Rate | Amount |
| | SUMMARY | | Samme | 1 | 1 |
| | Page 19-1 Day 19-2 | | | | 7979,000 |
| | rage 19-3 | | | | 511.000 |
| | Page 19-4 | | | | 788.000 |
| | Page 19-5 | | | | 1244,000 |
| | Page 19-6 | | | | 849.000 |
| | Page 19-7 Dom 10 9 | | | | 403,450 |
| | rate lyo | | | | 204.500 |
| | Page 19-9 Dam 10-10 | | | | 310.000 |
| | Page 19-11 | | | | 789.500 |
| | | | | | |
| | | | | | она в причения причен |
| - | | 19-12 | To | To Grand Summary | 14795.950 |

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BILL OF QUANTITIES

GRAND SUMMARY

| | | Amount |
|---------|---|-------------|
| Bill No | Description | R.O. |
| 1 | Pretiminaries | 369790,000 |
| 2 | Earthworks | 63830,900 |
| 3 | Granular and stabilized subbase, basecourse and stabilized subgrade | 49582,400 |
| 4 | Bituminous Pavement | 259035.150 |
| 5 | Concrete and concrete structure | 1262779.000 |
| 6 | Structural steel and other metal work | 102825.000 |
| 7 | Paint | N/A |
| 8 | Drainage and service ducts | 35431.000 |
| 9 | Slope protection and stabilization | 4864.000 |
| 10 | Piling | N/A |
| 11 | Bridge bearing, expansion joints, joint seals and fillers | 88120.000 |
| 12 | Sidewalks, paved areas and kerbs | 55489.500 |
| 13 | Safety barriers, delineators and fences | 57452.000 |
| 14 | Highway signs and road marking | 42605.840 |
| 15 | Electrical installations | 50000.000 |
| 16 | Landscape and irrigation | N/A |
| 17 | Utilities | 30000.000 |
| 18 | Plant and Equipment | N/A |
| 19 | Dayworks | 14795.950 |
| | Sub-total | 2486600.740 |
| | Contingencies (10%) | 248660.074 |
| | TOTAL CONTRACT VALUE (R.O) | 2735260.814 |

| NAME OF TENDERER | DATE |
|----------------------|------|
| | |
| IGNATURE OF TENDERER | |

BILL OF QUANTITIES

GRAND SUMMARY

| | | Amount |
|---------|---|-------------|
| Bill No | Description | R.O. |
| 1 | Preliminaries | 369790,000 |
| 2 | Earthworks | 63830.900 |
| 3 | Granular and stabilized subbase, basecourse and stabilized subgrade | 49582.400 |
| 4 | Bituminous Pavement | 259035,150 |
| 5 | Concrete and concrete structure | 1262779.000 |
| 6 | Structural steel and other metal work | 102825.000 |
| 7 | Paint | N/A |
| 8 | Drainage and service ducts | 35431.000 |
| 9 | Slope protection and stabilization | 4864.000 |
| 10 | Piling | N/A |
| 11 | Bridge bearing, expansion joints, joint seals and fillers | 88120.000 |
| 12 | Sidewalks, paved areas and kerbs | 55489.500 |
| 13 | Safety barriers, delineators and fences | 57452.000 |
| 14 | Highway signs and road marking | 46605.840 |
| 15 | Electrical installations | 50000.000 |
| 16 | Landscape and irrigation | N/A |
| 17 | Utilities | 30000.000 |
| 18 | Plant and Equipment | N/A |
| 19 | Dayworks | 14795.950 |
| | Sub-total | 2490600.740 |
| | Contingencies (10%) | 249060.074 |
| | TOTAL CONTRACT VALUE (R.O) | 2739660.814 |

| TOT | TAL CONTRACT VALUE | (R.O) | 273 |
|-------|----------------------|-------------------------|-----|
| (IN ' | WORDS, THE TOTAL TEN | DER VALUE IS RIAL OMANI |) |
| NAN | ME OF TENDERER | DATE | |
| SIG | NATURE OF TENDERER | | |
| •••• | | | |



