

| UPGRADING OF ACCESS ROAD FROM GRAVEL TO TAR: KLIPHUIWEL (WARD 01) PHASE 2: BID NUMBER. TBA | | | | | | |
|--|-----|--|----------------|------------|------------|------------|
| ITEM | LIC | DESCRIPTION | UNIT | QUANTITIES | RATE | AMOUNT (R) |
| 1200 | | GENERAL REQUIREMENTS AND PROVISIONS | | | | |
| B12.01 | | Excavation Excavating material within the following depth ranges below ground level for the exposing of/or searching for services: | | | | |
| (a) | | 0m to 2m | | | | |
| (i) | LI | soft material | m ³ | 10,00 | | |
| (ii) | LI | hard material | m ³ | 2,00 | | |
| (b) | | Extra over item B12.01(a) for excavation by means of hand tools such as picks, crowbars and pneumatic tools or mechanical breakers in close vicinity of services where no machine excavation is permitted: | | | | |
| (i) | LI | soft material | m ³ | 2,00 | | |
| (ii) | | hard material | m ³ | 1,00 | | |
| B12.02 | | Backfilling | | | | |
| (a) | LI | Using the excavated material | m ³ | 5,00 | | |
| (b) | LI | Using imported selected material | m ³ | 6,00 | | |
| B12.03(a) | | Allow a provisional sum for existing services a to be relocated and/or protected as ordered by the engineer | Prov sum | 1,00 | 700 000,00 | 700 000,00 |
| (b) | | Handling costs and profit in respect of sub-item B12.03(a) above | % | 700 000,00 | | |
| B12.04 | | Provision for a Community Liaison Officer | | | | |
| (a) | | Provisional sum for the payment of the Community Liaison Officer and PSC Members | Prov sum | 1,00 | 35 000,00 | 35 000,00 |
| (b) | | Provisional sum for the payment PSC Members (5 off) | Prov sum | 1,00 | 10 500,00 | 10 500,00 |
| (c) | | Handling costs and profit in respect of sub-item B12.04 (a-b) | % | 45 500,00 | | |
| SECTION 1200 TOTAL CARRIED TO SUMMARY | | | | | | |

| UPGRADING OF ACCESS ROAD FROM GRAVEL TO TAR: KLIPHUIWEL (WARD 01) PHASE 2: BID NUMBER. TBA | | | | | | |
|--|-----|--|----------|------------|-----------|------------|
| ITEM | LIC | DESCRIPTION | UNIT | QUANTITIES | RATE | AMOUNT (R) |
| 1300 | | CONTRACTORS ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS | | | | |
| B13.01 | | The contractors general obligations | | | | |
| (a) | | Fixed obligations | L.Sum | 1,00 | | |
| (b) | | Value related obligations | L.Sum | 1,00 | | |
| (c) | | Time related obligations | Month | 5,00 | | |
| B.13.02 | | Occupational Health & Safety | | | | |
| (a) | | Preparation of Health & Safety Plan | L.Sum | 1,00 | | |
| (b) | | Compilation of a Risk Assessment prior to commencement of Construction. | L.Sum | 1,00 | | |
| (c) | | Health & safety induction training of employees | L.Sum | 1,00 | | |
| (d) | | Compilation and keeping up with date the Health & Safety file which shall include all documentation required in terms of the Act. Implementation of the health and Safety plan over the entire construction period | Month | 5,00 | | |
| B.13.03 | | Supply and erect one contract nameboard | L. Sum | 1,00 | | |
| | | PROVISSIONAL SUM STATED BY THE ENGINEERS | | | | |
| | | a) Survey equipments ,Traffic Lights and safety Jackets | Prov sum | 1,00 | | 0,00 |
| | | b) Handling costs and profit in respect of sub-item (a),(b), (c) and (d) above | % | 0,00 | | |
| | | Provision for accredited training | | | | |
| | | Generic skills | P Sum | 1,00 | 50 000,00 | 50 000,00 |
| | | Entrepreneurial skills | P Sum | 1,00 | 50 000,00 | 50 000,00 |
| | | Handling costs and profit in respect of sub-item E12.05(a) and (b) above | % | 100 000,00 | | |
| | | Training venue (only if required) | L. Sum | 1,00 | | |
| | | NOTE: The combined total tendered for items B13.01(a), (b) and (c) shall not exceed 15% of the Tender sum excluding VAT. | | | | |
| SECTION 1300 TOTAL CARRIED TO SUMMARY | | | | | | |

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|--|-----|--|----------------|------------|-----------|------------|
| ITEM | LIC | DESCRIPTION | UNIT | QUANTITIES | RATE | AMOUNT (R) |
| 1400 | | HOUSING, OFFICES AND LABORATORIES FOR ENGINEER'S SITE PERSONNEL | | | | |
| 14.01 | | Office and accommodation: | | | | |
| (a) | | Offices (interior floor space only and as per drawing) | m ² | 30,00 | | |
| (b) | | Ablution units | m ² | 10,00 | | |
| 14.02 | | Office furniture: | | | | |
| (a) | | Chairs | No. | 10,00 | | |
| (c) | | Desks, complete with drawers and locks | No. | 1,00 | | |
| (e) | | Conference tables (place for 10 chairs) | No. | 1,00 | | |
| B14.02 (g) | | Survey Equipment | L. Sum | 1,00 | | Rate only |
| B14.02 (h) | | Pinboard (size 1.0 x 1.5 m) | No. | 1,00 | | Rate only |
| 14.03 | | Office and laboratory fittings, installations and equipment: | | | | |
| (a) | | Items measured by number: | | | | |
| (i) | | 220/250 volt power points | No. | 1,00 | | |
| (iii) | | Double 80 watt fluorescent light fittings complete with ballast and tubes | No. | 1,00 | | |
| (iii) | | Wash-hand basins complete with taps and drains | No. | 1,00 | | Rate only |
| (vi) | | Fire extinguishers, 9,0 kg, all purpose dry powder type, complete, mounted on wall with brackets | No. | 1,00 | | |
| (vii) | | General purpose steel cupboards with shelves | No. | 1,00 | | Rate only |
| (viii) | | Steel filing cabinets with drawers | No. | 1,00 | | Rate only |
| (x) | | Refrigerators (200 l min) | No. | 1,00 | | Rate only |
| (xii) | | Bookcases | No. | 1,00 | | Rate only |
| (xiii) | | Voltage stabilizers | No. | 1,00 | | |
| (xviii) | | Air Conditioning units with 2,2 kW minimum capacity, mounted and with own power connection | No. | 1,00 | | Rate only |
| (b) | | Prime cost items and items paid for in a lump sum | | | | |
| (i) | | The provision of a direct independent telephone line for the engineer, including the cost of calls in connection with contract administration and telephone rental | Prov sum | 1,00 | 20 000,00 | 20 000,00 |
| (ii) | | Handling costs and profit in respect of subsubitem 14.03(b)(iii)(1)above | % | 20 000,00 | | |
| (iii) | | The provision of a fax apparatus as specified | Prov sum | 1,00 | 50 000,00 | 50 000,00 |
| (vi) | | Handling costs and profit in respect of subsubitem 14.03(b)(iii)above | % | 50 000,00 | | |
| (vii) | | 1) Provision of cellular telephones, Computers, Printing | Prov sum | 1,00 | 15 000,00 | 15 000,00 |
| | | 2) Provisional sum for the costs of cellular calls and other charges | Prov sum | 1,00 | 5 000,00 | 5 000,00 |
| | | 3) Handling cost and profit in respect of sub-item B14.03(ix) 1 & 2 | % | 20 000,00 | | |
| TOTAL CARRIED TO NEXT PAGE | | | | | | |

| UPGRADING OF ACCESS ROAD FROM GRAVEL TO TAR: KLIPHUIWEL (WARD 01) PHASE 2: BID NUMBER. TBA | | | | | | |
|--|------|---|----------------|------------|-----------|------------|
| ITEM | LIC | DESCRIPTION | UNIT | QUANTITIES | RATE | AMOUNT (R) |
| Brought Forward | | | | | | |
| (c) | | Items measured by area | | | | |
| | (i) | Vertical blinds | m ² | 0,00 | | Rate Only |
| 14,04 | (ii) | Notice boards as specified | m ² | 0,00 | | Rate Only |
| (a) | | Car ports | No. | 1,00 | | Rate Only |
| 14,07 | | Car port as specified at offices and laboratory buildings | | | | |
| | | Rented Hotel and other Accomodation | | | | |
| (a) | | Provisional sum for providing rented housing,hotel or other accomodation as described in sub clause 1403(c)(ii) | PC Sum | 1,00 | 25 000,00 | 25 000,00 |
| (b) | | Handling cost and profit in respect of sub-item B14.07(a) | % | 25 000,00 | | |
| 14.10 | | Provision of photostat facilities | Month | 5,00 | | |
| B14.11 | | Provision and erection of security fencing (including gate) | m | 100,00 | | |
| 14/B15.03(n) | | Provision of high visibility safety jackets, safety hats and rotating lights for mobile use | No. | 4,00 | | |
| SECTION 1400 TOTAL CARRIED TO SUMMARY | | | | | | |

| UPGRADING OF ACCESS ROAD FROM GRAVEL TO TAR: KLIPHUIWEL (WARD 01) PHASE 2: BID NUMBER. TBA | | | | | | |
|--|-----|---|----------------|------------|------------|------------|
| ITEM | LIC | DESCRIPTION | UNIT | QUANTITIES | RATE | AMOUNT (R) |
| 1500 | | ACCOMMODATION OF TRAFFIC | | | | |
| B15.01 | LI | Accommodating traffic and maintaining temporary deviations | km | 0,26 | | |
| B15.03 | | Temporary traffic-control facilities | | | | |
| (a) | LI | Flagmen | man-day | 210,00 | | |
| (b) | | Portable STOP and GO-RY signs | No. | 2,00 | | |
| (e) | | Road signs, R- and TR-series, 1 200mm in diameter | No. | 6,00 | | |
| (f) | | Road signs, TW-series, 1 500mm sides | No. | 6,00 | | |
| (g) | | Road signs, STW-, DTG-, TGS- and TG-series (excluding delineators and barricades) | m ² | 6,00 | | |
| (h) | | Delineators (800mm x 200mm): | | | | |
| | LI | (i) Single | No. | 10,00 | | |
| | | (ii) Mounted back to back | No. | 6,00 | | |
| (i) | LI | Movable barricades/road sign combination | No. | 6,00 | | |
| (j) | LI | Traffic cones (750mm high) | No. | 20,00 | | |
| B15.15 | | Prime cost sum for: | | | | |
| (a) | | Compensation to landowners for land taken up by Road | P Sum | 1,00 | 100 000,00 | Rate Only |
| (b) | | Handling cost and profit in respect of sub-item B15.15(a) above | % | Rate Only | | |
| SECTION 1500 TOTAL CARRIED TO SUMMARY | | | | | | |

| UPGRADING OF ACCESS ROAD FROM GRAVEL TO TAR: KLIPHUIWEL (WARD 01) PHASE 2: BID NUMBER. TBA | | | | | | |
|--|------|--|------|------------|------|------------|
| ITEM | LIC | DESCRIPTION | UNIT | QUANTITIES | RATE | AMOUNT (R) |
| 1700 | | CLEARING AND GRUBBING | | | | |
| B17.01 | | Clearing and grubbing of: | | | | |
| (a) | | Normal areas: | | | | |
| | (i) | Within the road reserve | ha | 2,00 | | |
| | (ii) | In borrow pits | ha | 2,00 | | |
| 17,02 | | Removal and grubbing of large trees and tree stumps: | | | | |
| (a) | | Girth exceeding 1m up to and including 3m | No. | 6,00 | | Rate only |
| (b) | | Girth exceeding 3m | No. | 4,00 | | Rate only |
| SECTION 1700 TOTAL CARRIED TO SUMMARY | | | | | | |

| UPGRADING OF ACCESS ROAD FROM GRAVEL TO TAR: KLIPHUIWEL (WARD 01) PHASE 2: BID NUMBER. TBA | | | | | | |
|--|-------|--------------------------------|------|------------|------|------------|
| ITEM | LIC | DESCRIPTION | UNIT | QUANTITIES | RATE | AMOUNT (R) |
| B1800 | | DAY WORK SCHEDULE | | | | |
| B18.01 | | Labourers: | | | | |
| | (i) | Unskilled | hr | 20,00 | | Rate Only |
| | (ii) | Semi-skilled | hr | 20,00 | | Rate Only |
| | (iii) | Skilled | hr | 20,00 | | Rate Only |
| B18.02 | | Foreman | hr | 20,00 | | Rate Only |
| B18.03 | | Tipper Trucks: | | | | |
| | (i) | 3 - 5 ton | hr | 10,00 | | Rate Only |
| | (ii) | 5,1 - 10 ton | hr | 10,00 | | Rate Only |
| B18.04 | | Loader (0.5m³) | hr | 10,00 | | Rate Only |
| B18.05 | | Loader (1-2.5m³) | hr | 10,00 | | Rate Only |
| B18.05 | | Grader (CAT 140G or similar) | hr | 10,00 | | Rate Only |
| B18.06 | | LDV | hr | 10,00 | | Rate Only |
| B18.07 | | Compaction Rollers: | | | | |
| | (i) | Vibrator roller | hr | 10,00 | | Rate Only |
| | (ii) | Tamping roller | hr | 10,00 | | Rate Only |
| | (iii) | Grid roller | hr | 10,00 | | Rate Only |
| B18.08 | | Hand Controlled Compactors | | | | |
| | (i) | Pedestrian roller (Bomag BW90) | hr | 10,00 | | Rate Only |
| | (ii) | Vibratory plate | hr | 10,00 | | Rate Only |
| | (iii) | Rammers | hr | 10,00 | | Rate Only |
| B18.09 | | Water truck (min 10000 l) | hr | 10,00 | | Rate Only |
| B18.10 | | Dozer (D7 or similar) | hr | 10,00 | | Rate Only |
| SECTION B1800 TOTAL CARRIED TO SUMMARY | | | | | | |

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|--|-----|-------|--|----------------|------------|------|------------|--|
| ITEM | LIC | | DESCRIPTION | UNIT | QUANTITIES | RATE | AMOUNT (R) | |
| 2100 | | | DRAINS | | | | | |
| 21,01 | | | Excavation for open drains: | | | | | |
| (a) | | | Excavating soft material situated within the following depth ranges below the surface level: | | | | | |
| | LI | (i) | 0 m up to 1,5 m | m ³ | 0,00 | | | |
| | | (ii) | Exceeding 1,5 m and up to 3,0 m | m ³ | 0,00 | | | |
| | | (iii) | Exceeding 3,0 m | m ³ | | | Rate Only | |
| (b) | LI | | Extra over subitem 21.01(a) for excavation in hard material, irrespective of depth | m ³ | 0,00 | | | |
| SECTION 2100 TOTAL CARRIED TO SUMMARY | | | | | | | | |

| UPGRADING OF ACCESS ROAD FROM GRAVEL TO TAR: KLIPHUIWEL (WARD 01) PHASE 2: BID NUMBER. TBA | | | | | | |
|--|-------|---|----------------|------------|------|------------|
| ITEM | LIC | DESCRIPTION | UNIT | QUANTITIES | RATE | AMOUNT (R) |
| 2200 | | PREFABRICATED CULVERTS | | | | |
| 22.01 | | Excavation | | | | |
| (a) | | Storm water culverts : Excavating soft material situated within the following depth ranges below the surface level | | | | |
| | (i) | 0 m up to 1,5 m | m ³ | 89,00 | | |
| | (ii) | 1,5 m up to 3,0 m | m ³ | 8,90 | | |
| (b) | | Extra over subitem 22.01 (a) for excavation in hard material, irrespective of depth | m ³ | 19,58 | | |
| B22.02 | | Backfilling of culverts | | | | |
| (a) | | Using the excavated material | m ³ | 35,00 | | |
| (b) | | Using imported G6 material obtained from commercial source | m ³ | 52,50 | | |
| (c) | | Extra over subitems 22.02 (a) and (b) for soil-cement backfilling (100 kg cement per m ³) | m ³ | 10,00 | | |
| 22.03 | | Concrete pipe culverts | | | | |
| (c) | | On Class C bedding | | | | |
| | (i) | 450 diameter class 100D | m | 0,00 | | Rate Only |
| | (ii) | 600 diameter class 100D | m | 10,98 | | |
| | (iii) | 900 diameter class 100D | m | 0,00 | | Rate Only |
| 22,05 | | Portal and rectangular culverts | | | | |
| | (b) | Without prefabricated floor slabs | | | | |
| | (i) | 1200mm x 600mm Type RP | m | 6,1 | | Rate only |
| | (ii) | 1800mm x 600mm Type RP | m | 1,22 | | |
| 22,06 | | Extra over items 22.03 and 22.05 for constructing inclined culverts | | | | |
| (a) | | Concrete pipe culverts | m | 1,10 | | |
| 22,07 | | Cast in-situ concrete and formworks | | | | |
| (a) | | In class A bedding, screeds and the encasing for pipes, including formwork (Class 20/38) | m ³ | 20,15 | | |
| (c) | | In inlet and outlet structures, catch pits, manholes thrust and anchor blocks, excluding formwork but including class U2 surface finish (Class 25/19) | m ³ | 7,35 | | |
| (d) | | Formwork of concrete under subitem 22.07(c) above | | | | |
| | (i) | Vertical formwork for Class F1 surface finish | m ² | 40,00 | | |
| | (ii) | Vertical formwork for Class F2 surface finish | m ² | 53,00 | | |
| | (iii) | Horizontal formwork for F2 surface finish | m ² | 2,00 | | Rate only |
| 22.10 | | Steel reinforcement | | | | |
| (a) | | Mild steel bars | ton | 0,05 | | |
| (b) | | High- tensile steel bars | ton | 0,47 | | |
| (c) | | Welded steel fabric ref. 395 mesh | kg | 291,67 | | |
| 22.12 | | Removing existing concrete | | | | |
| | (a) | Plain concrete | m ³ | 2,00 | | |
| | (b) | Reinforced concrete | m ³ | 5,00 | | |
| 22.13 | | Remove and re-laying existing pipes | | | | |
| | (b) | Class B bedding | | | | |
| | (1) | 600mm dia. | m | 0,00 | | Rate Only |
| | (2) | 750mm dia. | m | 0,00 | | Rate Only |
| TOTAL CARRIED TO NEXT PAGE | | | | | | |

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|--|-------|--|--------------------|------------|------|------------|
| ITEM | LIC | DESCRIPTION | UNIT | QUANTITIES | RATE | AMOUNT (R) |
| TOTAL BROUGHT FORWARD | | | | | | |
| 22.25 | | Overhaul on excavated material carted to spoil, backfill material (but excluding Portland Cement in the case of soil cement), existing structures removed to spoil, and removing and relaying, and removing and stacking existing pipes, for haul in excess of 1 | m ³ -km | 89,00 | | |
| 22.29 | | Tie bars for joining in situ concrete invert slabs to inlet and outlet structures, as indicated on the drawings (Type, diameter and length indicated) | no | 10,00 | | |
| B22.30 | (a) | Preparation and compaction of in-situ bedding material to 90% of Mod. AASHTO density | m ³ | 25,00 | | |
| | (b) | Extra over sub-item B22.30(a) for compaction to 93% of Mod. AASHTO density | m ³ | 25,00 | | |
| B22.31 | | Dewatering and keeping dry of culvert excavations | no | 5,00 | | |
| B22.32 | | Cutting of concrete pipes | | | | |
| | (i) | 450 diameter class 75D | no | 0,00 | | Rate Only |
| | (ii) | 600 diameter class 75D | no | 0,00 | | Rate Only |
| | (iii) | 600 diameter class 100D | no | 2,00 | | |
| | (iv) | 1200 diameter class 100D | no | 2,00 | | Rate Only |
| | (iv) | 1800 diameter class 100D | no | 6,00 | | |
| SECTION 2100 TOTAL CARRIED TO SUMMARY | | | | | | |

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|--|-----|-----|---|--------------------|------------|------------|
| ITEM | LIC | | DESCRIPTION | UNIT | QUANTITIES | AMOUNT (R) |
| 2300 | | | CONCRETE KERBING, CONCRETE CHANNELLING, CHUTES AND DOWN PIPES, AND CONCRETE LININGS FOR OPEN DRAINS | | | |
| 23,01 (a) | LI | (i) | Concrete kerbing Precast kerbing to SABS 927 Figure 8c kerb | m | 74,00 | |
| 23,07 (a) | LI | | Trimming of excavations for concrete-lined open drains: In soft material | m ² | 11,10 | |
| (b) | LI | | In hard material | m ² | 1,67 | Rate Only |
| 23,08 (a) | | | Concrete lining for open drains: Cast in situ concrete lining Class 25/19: Standard side drain | | | |
| | LI | (i) | Cast in situ concrete lining class 25/19 for all types of open drains including drifts | m ³ | 20,00 | |
| 23,09 (a) | LI | | Formwork to cast in situ concrete lining for open drains (class F2 surface finish): To sides with formwork on the external face only | m ² | 14,00 | |
| (b) | LI | | To sides with formwork on both internal and external faces (each face measured) | m ² | | Rate Only |
| (c) | LI | | To ends of slabs | m ² | 2,80 | |
| 23,10 (a) | LI | | Sealed joints in concrete linings of open drains Polysulphide sealants | m | | Rate Only |
| (b) | LI | | Polyurethane-based sealant | m | | Rate Only |
| (c) | LI | | Silicone-based sealant | m | | Rate Only |
| (d) | LI | | Soft Board expansion | m | 22,00 | |
| (e) | LI | | Polystyrene expansion | m | 33,00 | |
| 23,12 (c) | LI | | Steel reinforcement: Welded steel fabric (High-tensile steel ref. 311) | kg | 8,00 | |
| 23,14 | LI | | Cutting bituminous surfacing and pavement layers for concrete kerbing, channelling and concrete lined drains | m | 74,00 | |
| 23/22.12 (a) | LI | | Removing existing concrete: Plain concrete | m ³ | 50,00 | |
| 23/16.02 | | | Overhaul on material hauled in excess of 1,0km (ordinary overhaul on spoil material) | m ³ -km | 150,00 | |
| SECTION 2300 TOTAL CARRIED TO SUMMARY | | | | | | |

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| ITEM | LIC | | DESCRIPTION | UNIT | QUANTITIES | RATE | AMOUNT (R) |
| 3100 | | | BORROW MATERIALS | | | | |
| B31.01 | | | Excess overburden | | | | |
| (a) | | | Depths up to and including 0,5m | m ³ | 1 250,00 | | |
| (b) | | | Depths exceeding 0,5m and up to 1,0m | m ³ | 250,00 | | |
| 31,03 | | | Finishing-off borrow areas in: | | | | |
| (a) | | | Hard material | ha | 0,50 | | |
| (b) | | | Intermediate material | ha | 0,10 | | |
| (c) | | | Soft material | ha | 0,13 | | |
| B31.04 | | | Compensation to landowners: | | | | |
| (a) | | | Prime cost sum for compensation to landowners | P.C. | 1,00 | 10 000,00 | Rate Only |
| (b) | | | Handling costs and profit in respect of sub-item B31.04(a) above | % | 10 000,00 | | Rate Only |
| 31/55.06 | | | Providing temporary fences and gates: | | | | |
| (a) | LI | (i) | Stock-proof fence (1200mm high with 4 strain) | km | 0,40 | | |
| (d) | LI | (i) | Temporary gates: Single leaf, 1 200mm high Government pattern farm gate, 4,2m wide | No. | 1,00 | | |
| C33,03 | | | Penalty for failing to rehabilitate the borrow pit that the Contractor is responsible for: | no | | -70 000,00 | Rate only |
| 31/32.06 | | | Stockpiling of material | m ³ | 1 750,10 | | |
| SECTION 3100 TOTAL CARRIED TO SUMMARY | | | | | | | |

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| ITEM | LIC | DESCRIPTION | UNIT | QUANTITIES | RATE | AMOUNT (R) |
| 3300 | | MASS EARTHWORKS | | | | |
| 33.01 | | Cut and borrow to fill, including free-haul up to 0.5 km | | | | |
| (a) | | Material in compacted layer thicknesses of 200 mm and less: | | | | |
| | (i) | Compacted to 90% of modified AASHTO density | m ³ | 735,00 | | Rate only |
| | (ii) | Compacted to 93% of modified AASHTO density | m ³ | 735,00 | | Rate only |
| | (iii) | Eight-roller-pass compaction | m ³ | | | Rate only |
| 33.03 | | Extra over item 33.01 for excavating and breaking down material in - | | | | |
| (a) | | Intermediate excavation | m ³ | 147,00 | | |
| (b) | | Hard excavation | m ³ | 29,40 | | |
| (c) | | Boulder excavation class A | m ³ | 20,00 | | |
| (d) | | Boulder excavation class B | m ³ | 20,00 | | |
| 33.04 | | Cut to spoil, including free-haul up to 0,5 km Material obtained from - | | | | |
| (a) | | Soft excavation | m ³ | 0,00 | | |
| (b) | | Intermediate excavation | m ³ | 0,00 | | |
| (c) | | Hard excavation | m ³ | 0,00 | | |
| (d) | | Boulder excavation class A | m ³ | 0,00 | | |
| (e) | | Boulder excavation class B | m ³ | 0,00 | | Rate only |
| 33.05 | | Overbreak in hard and boulder class A excavation | m ² | 65,00 | | |
| 33.06 | | Variations in the number of roller passes (applicable to items 33.01(a)(ii), 33.01(b)(iii) and 33.11 | | | | |
| (a) | | Vibratory rollers | m ² -pass | 55,00 | | |
| (c) | | Heavy grid rollers | m ² -pass | 55,00 | | |
| (d) | | Tamping rollers | m ² -pass | 55,00 | | |
| (e) | | Impact rollers | m ² -pass | 55,00 | | |
| 33.07 | | Removal of unsuitable material (including free-haul of 0,5 km) In layer thicknesses of 200 mm and less: | | | | |
| (a) | (i) | Stable material | m ³ | 0,00 | | |
| | (ii) | Unstable material | m ³ | 0,00 | | |
| 33.09 | | Material bladed down to windrow | m ³ | 74,00 | | |
| 33,10 | | Roadbed preparation and the compaction of material | | | | |
| (a) | | Compaction to 90% of modified AASHTO density | m ³ | 491,40 | | |
| (b) | | Compaction to 93% of modified AASHTO density | m ³ | 491,40 | | Rate only |
| TOTAL CARRIED TO NEXT PAGE | | | | | | |

| UPGRADING OF ACCESS ROAD FROM GRAVEL TO TAR: KLIPHUIWEL (WARD 01) PHASE 2: BID NUMBER. TBA | | | | | | |
|--|-----|--|--------------------|------------|------|------------|
| ITEM | LIC | DESCRIPTION | UNIT | QUANTITIES | RATE | AMOUNT (R) |
| Brought Forward | | | | | | |
| 33.11 | | Three-pass-roller compaction | | | | |
| (a) | | Vibratory rollers | m ² | | | Rate only |
| (c) | | Heavy grid rollers | m ² | 2 080,00 | | |
| (f) | | Pneumatic-tyre roller | m ² | | | Rate only |
| 33.12 | | In situ treatment of roadbed | | | | |
| (a) | | In-situ treatment by ripping | m ³ | 491,40 | | |
| (b) | | In-situ treatment by blasting | m ³ | 491,40 | | Rate only |
| 33.13 | | Finishing-off cut and fill slopes, medians and interchange areas | | | | |
| | | (a) Cut slopes | m ² | 0,00 | | |
| | | (b) Fill slopes | m ² | | | |
| 33/1600 | | OVERHAUL | | | | |
| 33/16.01 | | Overhaul on material hauled in excess of a free-haul distance of 0,5 km, for haul up to or through 1,0 km (restricted overhaul) | m ³ | 0,00 | | |
| 33/16.02 | | Overhaul on material hauled in excess of 1,0 km (ordinary overhaul) | m ³ -km | 0,00 | | |
| 33/32.06 | | Stockpiling of material | m ³ | 0,00 | | |
| SECTION 3300 TOTAL CARRIED TO SUMMARY | | | | | | |

| UPGRADING OF ACCESS ROAD FROM GRAVEL TO TAR: KLIPHUIWEL (WARD 01) PHASE 2: BID NUMBER. TBA | | | | | | |
|--|------|--|--------------------|------------|------|------------|
| ITEM | LIC | DESCRIPTION | UNIT | QUANTITIES | RATE | AMOUNT (R) |
| 3400 | | PAVEMENT LAYERS OF GRAVEL MATERIAL | | | | |
| 34,01 | | Pavement layers constructed from gravel taken from cut or borrow, including free-haul up to 1,0km: | | | | |
| (a) | | Gravel selected layer (un-stabilized gravel) compacted to: | | | | |
| | (i) | 93% of modified AASHTO density (150mm thick) | m ³ | 1 351,35 | | |
| (c) | | Gravel Subbase (un-stabilized material) compacted to: | | | | |
| | (i) | 95% of modified AASHTO density (150mm thick) | m ³ | 536,00 | | Rate only |
| | (ii) | 97% of modified AASHTO density (150mm thick) | m ³ | | | Rate only |
| (d) | | Gravel Subbase (chemically stabilized material) compacted to: | | | | |
| | (i) | 96% of modified AASHTO density (150mm thick) | m ³ | 536,00 | | |
| (f) | | Gravel base (chemically stabilized material) compacted to: | | | | |
| | (i) | 98% of modified AASHTO density (150mm thick) | m ³ | 526,00 | | |
| (g) | | Gravel shoulders compacted to: | | | | |
| | (i) | 93% of modified AASHTO density (150mm thick) | m ³ | 204,75 | | |
| (h) | | Gravel wearing course compacted to: | | | | |
| | (i) | 95% of modified AASHTO density (150mm thick) | m ³ | | | Rate only |
| 34,02 | | Extra over item 34.01 for excavation of material in: | | | | |
| (a) | | Intermediate excavation | m ³ | 315,00 | | |
| (b) | | Hard excavation | m ³ | 221,00 | | |
| 34,07 | | Extra over item 34.01 for temporarily blading the material to windrow | m ³ | 300,00 | | |
| 34/16.01 | | Overhaul on material hauled in excess of a free-haul distance of 0,5 km, for haul up to or through 1,0 km (restricted overhaul) | m ³ | 2 082,10 | | |
| 34/16.02 | | Overhaul on material hauled in excess of 1,0km (ordinary overhaul) | m ³ -km | 4 164,20 | | |
| 34/32.04 | | Removal of oversize pavement material | m ³ | 15,00 | | |
| 34/32.05 | | Additional normal grid rolling | m ³ | 70,00 | | |
| 34/32.06 | | Stockpiling of material | m ³ | 1 249,26 | | |
| SECTION 3400 TOTAL CARRIED TO SUMMARY | | | | | | |

| UPGRADING OF ACCESS ROAD FROM GRAVEL TO TAR: KLIPHUIWEL (WARD 01) PHASE 2: BID NUMBER. TBA | | | | | | |
|--|-----|---|----------------|------------|------|------------|
| ITEM | LIC | DESCRIPTION | UNIT | QUANTITIES | RATE | AMOUNT (R) |
| 3500 | | STABILIZATION | | | | |
| 35,01 | | Chemical stabilization extra over un-stabilized compacted layers: | | | | |
| | | (i) Base layer, 150mm thick | m ³ | 526,00 | | |
| | | (ii) Subbase layer, 150mm thick | m ³ | 536,00 | | |
| 35,02 | | Chemical stabilizing agent: | | | | |
| (a) | | Ordinary Portland cement | t | 82,00 | | |
| (b) | | Portland blast-furnace cement | t | | | Rate only |
| (c) | | Slaked road lime | t | | | Rate only |
| SECTION 3500 TOTAL CARRIED TO SUMMARY | | | | | | |

| UPGRADING OF ACCESS ROAD FROM GRAVEL TO TAR: KLIPHUIWEL (WARD 01) PHASE 2: BID NUMBER. TBA | | | | | | |
|--|-----|---|----------------|------------|------|------------|
| ITEM | LIC | DESCRIPTION | UNIT | QUANTITIES | RATE | AMOUNT (R) |
| 4100 | | PRIME COAT | | | | |
| 41,01 | | Prime coat: | | | | |
| (a) | | RTL 3/12P tar prime | l | 0,00 | | Rate only |
| (b) | | Quick drying RTH 1/4P tar prime | l | 2 775,36 | | |
| (c) | | MC-30 cut-back bitumen | l | 2 775,36 | | Rate only |
| (d) | | MC-70 cut-back bitumen | l | | | Rate only |
| (e) | | Invert bitumen emulsion | l | | | Rate only |
| 41,02 | | Aggregate for blinding: | | | | |
| (i) | | Natural sand | m ² | 50,00 | | |
| (ii) | | Crushed sand | m ² | 5,00 | | Rate only |
| 41,03 | | Extra over item 41.01 for applying the prime coat in areas accessible only to hand held equipment | l | 250,00 | | |
| SECTION 4100 TOTAL CARRIED TO SUMMARY | | | | | | |

| UPGRADING OF ACCESS ROAD FROM GRAVEL TO TAR: KLIPHUIWEL (WARD 01) PHASE 2: BID NUMBER. TBA | | | | | | |
|--|-----|---|----------------|------------|------|------------|
| ITEM | LIC | DESCRIPTION | UNIT | QUANTITIES | RATE | AMOUNT (R) |
| 4200 | | ASPHALT BASE AND SURFACING | | | | |
| 42,02 | | Asphalt surfacing | | | | |
| (a) | | Asphalt Surfacing-Continuously Graded (Medium) 30mm | m ² | 3 469,20 | | |
| 42,04 | LI | Tack Coat 30% Stable-Grade Emulsion | l | 2 081,52 | | |
| 42,05 | | Binder Variation - 60/70 Pen Bit | l | 242,84 | | |
| 42,06 | | Variation active filler content | | | | |
| (a) | | Cement | t | 1,00 | | |
| 42,21 | LI | Complete Speed hump according to drawing (Signs, asphalt and road markings, As per Drawing) | No | 0,00 | | |
| SECTION 4200 TOTAL CARRIED TO SUMMARY | | | | | | |

| UPGRADING OF ACCESS ROAD FROM GRAVEL TO TAR: KLIPHUIWEL (WARD 01) PHASE 2: BID NUMBER. TBA | | | | | | |
|--|-----|---|----------------|------------|------|------------|
| ITEM | LIC | DESCRIPTION | UNIT | QUANTITIES | RATE | AMOUNT (R) |
| 5100 | | PITCHING, STONEMWORK AND PROTECTION AGAINST EROSION | | | | |
| 51,01 | | Stone pitching | | | | |
| (b) | | Grouted stone pitching | m ² | 52,38 | | |
| 51,04 | | Concrete pitching and block paving | | | | |
| (a) | (i) | Cast in situ concrete pitching, Class 30/19: 150mm thick (Mesh Ref 311 included) | m ² | 45,00 | | Rate Only |
| 51,05 | | Concrete edge beams (0.2mm x 0.25mm) (class 25/19MPa) | m ³ | 0,00 | | |
| SECTION 5100 TOTAL CARRIED TO SUMMARY | | | | | | |

| UPGRADING OF ACCESS ROAD FROM GRAVEL TO TAR: KLIPHUIWEL (WARD 01) PHASE 2: BID NUMBER. TBA | | | | | | |
|--|-----------------|---|----------------|------------|------|------------|
| ITEM | LIC | DESCRIPTION | UNIT | QUANTITIES | RATE | AMOUNT (R) |
| 5200 | | GABIONS | | | | |
| 52,01 (b) | LI LI | Foundation trench excavation and backfilling: In all other classes of material | m ³ | 100,00 | | Rate Only |
| 52,02 | LI | Surface preparation for bedding the gabions | m ² | 350,00 | | Rate Only |
| 52,03 (a) | LI LI (i) | Gabions Galvanized gabion boxes, wire diameter 2,7mm, Mesh size 80mm x 100mm, diaphragm spacing: 1,0m | | | | |
| (i) | LI | 4m x 1m x 1m | m ³ | 400,00 | | Rate Only |
| (c) | LI | Galvanized gabion mattresses (wire diameter 2,5 mm, mesh size 80mm x 100mm, diaphragm spacing 1,0m | | | | |
| (i) | LI | 2m x 1m x 0,23m deep | m ³ | 50,00 | | Rate Only |
| (ii) | LI | 2m x 1m x 0,30m deep | m ³ | 75,00 | | Rate Only |
| 52,04 (a) | LI LI | Filter fabric Grade U24 or approved equivalent | m ² | 320,00 | | Rate Only |
| SECTION 5100 TOTAL CARRIED TO SUMMARY | | | | | | |

| UPGRADING OF ACCESS ROAD FROM GRAVEL TO TAR: KLIPHUIWEL (WARD 01) PHASE 2: BID NUMBER. TBA | | | | | | |
|--|-----|--|------|------------|------|------------|
| ITEM | LIC | DESCRIPTION | UNIT | QUANTITIES | RATE | AMOUNT (R) |
| 5400 | | GUARDRAILS | | | | |
| 54,01 (a) | LI | Guardrails on timber posts: Galvanized | m | | | Rate only |
| 54,02 (a) | LI | Guardrails on steel posts: Galvanized | m | | | Rate only |
| 54,03 | | Extra over items 54.01 for horizontally curved guardrails factory bent to a radius of less than 45 m | m | 15,00 | | Rate only |
| 54,04 (a) | | End treatments: End wings (Terminal Section) | No. | | | Rate only |
| (b) | | Bull noses | No. | 6,00 | | Rate only |
| (c) | LI | Bridge adaptors | No. | | | Rate only |
| 54,06 | | Reflective plates | No. | 20,00 | | Rate only |
| 54,07 | LI | Removing existing guardrails | m | | | Rate only |
| 54,12 | | Extra over item 54.01 for drilling and blasting holes for guardrail posts | No. | 24,00 | | Rate only |
| 54,13 | | Steel base plates for timber guardrail posts on structures | No. | 24,00 | | Rate only |
| 54,15 | | Extra over item 54.02 to fasten guardrails to bridge | No | 24,00 | | Rate only |
| SECTION 5400 TOTAL CARRIED TO SUMMARY | | | | | | |

| UPGRADING OF ACCESS ROAD FROM GRAVEL TO TAR: KLIPHUIWEL (WARD 01) PHASE 2: BID NUMBER. TBA | | | | | | | |
|--|-----|------|-----------------------------------|------|------------|------|------------|
| ITEM | LIC | | DESCRIPTION | UNIT | QUANTITIES | RATE | AMOUNT (R) |
| 5500 | | | FENCING | | | | |
| 55,04 | | | Moving existing fences and gates: | | | | |
| (a) | LI | (i) | Fences: | | | | |
| | LI | (ii) | Stock-proof fences | km | 0,50 | | Rate only |
| | | | Security fences | km | 0,50 | | Rate only |
| (b) | | | Gates | No. | 6,00 | | Rate only |
| SECTION 5500 TOTAL CARRIED TO SUMMARY | | | | | | | |

| UPGRADING OF ACCESS ROAD FROM GRAVEL TO TAR: KLIPHUIWEL (WARD 01) PHASE 2: BID NUMBER. TBA | | | | | | | |
|--|-----|-------|--|----------------|------------|------|------------|
| ITEM | LIC | | DESCRIPTION | UNIT | QUANTITIES | RATE | AMOUNT (R) |
| 5600 | | | ROAD SIGNS | | | | |
| B56.01 | | | Road sign boards with painted or coloured semi-matt background. Symbols, lettering and borders in diamond grade retro-reflective material, where the sign board is constructed from: | | | | |
| (a) | LI | (i) | Aluminium sheet (2,0 mm thick): Area not exceeding 2 m ² | m ² | 50,00 | | |
| | LI | (ii) | Area exceeding 2 m ² but not 10 m ² | m ² | | | |
| | LI | (iii) | Area not exceeding 10 m ² | m ² | | | |
| 56,02 | | | Extra over item 56.01 for using: | | | | |
| (a) | | (i) | Background of retro-reflected material: Class I | m ² | | | Rate only |
| | | (ii) | Class II | m ² | | | Rate only |
| | | (iii) | Class III | m ² | 60,00 | | |
| 56,03 | | | Road sign supports (overhead road sign structures excluded): | | | | |
| (a) | | | Structural steel | t | 1,00 | | Rate only |
| (b) | | | Steel tubing | t | 1,00 | | Rate only |
| (c) | | | Timber | | | | |
| | LI | (i) | 100 mm dia. | m | 50,00 | | |
| | LI | (ii) | 150 mm dia. | m | 30,00 | | |
| 56,04 | | | Kilometre posts | | | | |
| (a) | | | Concrete | No | 2,00 | | Rate only |
| 56,05 | LI | | Excavation and backfilling for road sign supports (not applicable to kilometre posts) | m ³ | 11,00 | | |
| 56,06 | LI | | Extra over item 56.05 for cement-treated soil backfill | m ³ | 15,00 | | |
| 56,07 | | | Extra over item 56.05 for rock excavation | m ³ | 12,00 | | |
| SECTION 5600 TOTAL CARRIED TO SUMMARY | | | | | | | |

| UPGRADING OF ACCESS ROAD FROM GRAVEL TO TAR: KLIPHUIWEL (WARD 01) PHASE 2: BID NUMBER. TBA | | | | | | |
|--|-------|--|----------------|------------|------|------------|
| ITEM | LIC | DESCRIPTION | UNIT | QUANTITIES | RATE | AMOUNT (R) |
| 5700 | | ROAD MARKINGS | | | | |
| 57,02 | | Retro-reflective road-marking paint: | | | | |
| (a) | | White lines (broken or unbroken): | | | | |
| | (i) | 100mm wide | km | 0,56 | | |
| | (ii) | 200mm wide | km | | | Rate only |
| | (iii) | 500mm wide | km | 0,50 | | |
| (b) | | Yellow lines (broken or unbroken): | | | | |
| | (i) | 100mm wide | km | 0,50 | | Rate only |
| | (ii) | 150mm wide | km | | | Rate only |
| (d) | | White lettering and symbols | m ² | 50,00 | | |
| (e) | | Yellow lettering and symbols | m ² | 35,00 | | Rate only |
| (f) | | Transverse lines, painted island and arrestor bed markings (any colour) | m ² | 125,00 | | Rate only |
| 57,04 | | Variations in rate of application: | | | | |
| (a) | | White paint | l | 20,00 | | |
| (b) | | Yellow paint | l | 20,00 | | |
| (c) | | Retro-reflective beads | kg | 15,00 | | |
| 57,05 | | Roadstuds | | | | |
| (a) | | Uni-directional | | | | |
| | (i) | Stimsonite or similar | No | 2,00 | | Rate only |
| | (ii) | Armourlite or similar | No | 2,00 | | Rate only |
| (b) | | Bi-directional | | | | |
| | (i) | Stimsonite or similar | No | 2,00 | | Rate only |
| 57,06 | | Setting out and pre-marking the lines (excluding traffic island markings, lettering and symbols) | km | 0,56 | | |
| 57,07 | | Re-establishing the painting unit: | | | | |
| (a) | | At intervals during the contract period | No. | 1,00 | | Rate only |
| (b) | | At the end of the maintenance period | L.SUM. | 1,00 | | Rate only |
| 57,08 | | Removal of existing, temporary or permanent road markings by: | | | | |
| (a) | | Sandblasting | m ² | 5,00 | | Rate only |
| (b) | | Over painting as temporary measure | m ² | 5,00 | | Rate only |
| SECTION 5700 TOTAL CARRIED TO SUMMARY | | | | | | |

| UPGRADING OF ACCESS ROAD FROM GRAVEL TO TAR: KLIPHUIWEL (WARD 01) PHASE 2: BID NUMBER. TBA | | | | | | |
|--|-----|---|------|------------|------|------------|
| ITEM | LIC | DESCRIPTION | UNIT | QUANTITIES | RATE | AMOUNT (R) |
| 5900 | | FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS | | | | |
| 59,01 (b) | | Finishing the road and road reserve: Single carriageway road | km | 0,26 | | |
| SECTION 5900 TOTAL CARRIED TO SUMMARY | | | | | | |

| UPGRADING OF ACCESS ROAD FROM GRAVEL TO TAR: KLIPHUIWEL (WARD 01) PHASE 2: BID NUMBER. TBA | | | | | | |
|--|-----|--|----------|------------|------|------------|
| ITEM | LIC | DESCRIPTION | UNIT | QUANTITIES | RATE | AMOUNT (R) |
| 8100 | | TESTING MATERIALS AND WORKMANSHIP | | | | |
| 81,02 | | Other special tests requested by the engineer | Prov Sum | 1,00 | 0,00 | - |
| (b) | | Handling costs and profit in respect of sub-item 81.02 above | % | 0,00 | | |
| SECTION 8100 TOTAL CARRIED TO SUMMARY | | | | | | |

| LEPELLE NKUMPI LOCAL MUNICIPALITY CONTRACT NUMBER :LNM002/2018/19 FOR UPGRADING OF ACCESS ROAD FROM GRAVEL TO TAR: KLIPHUIWEL (WARD 01) PHASE 2: BID NUMBER. TBA SUMMARY OF SCHEDULE OF QUANTITIES | | |
|--|--|--------|
| SCHEDULE A: ROADWORK'S | | AMOUNT |
| 1200 | General requirements and provisions | |
| 1300 | Contractor's establishment on site and general obligations | |
| 1400 | Housing, offices and laboratories for the engineer's site personnel | |
| 1500 | Accommodation of traffic | |
| 1700 | Clearing and grubbing | |
| 1800 | Day works | |
| 2100 | Drains | |
| 2200 | Prefabricated Culverts | - |
| 2300 | Concrete kerbing, concrete channelling, chutes and downpipes, and concrete linings for open drains | |
| 3100 | Borrow materials | |
| 3300 | Mass earthworks | |
| 3400 | Pavement layers of gravel material | |
| 3500 | Stabilization | |
| 4100 | Prime Coat | |
| 4200 | Asphalt Base and Surfacing | |
| 5100 | Pitching, stonework and protection against erosion | |
| 5200 | Gabions | |
| 5400 | Guardrails | |
| 5500 | Fencing | |
| 5600 | Road Signs | |
| 5700 | Road markings | |
| 5900 | Finishing the road and road reserve and treating old roads | |
| 8100 | Testing materials and workmanship | |
| TOTAL SCHEDULE A: ROADWORK'S | | |

| LEPELLE NKUMPI LOCAL MUNICIPALITY CONTRACT NUMBER :LNM002/2018/19 FOR UPGRADING OF ACCESS ROAD FROM GRAVEL TO TAR: KLIPHUIWEL (WARD 01) PHASE 2: BID NUMBER. TBA CALCULATION OF CONTRACT SUM | | |
|---|--------------------|--|
| TOTAL SCHEDULE A: ROADWORK'S | A | |
| TENDER SUM (CARRIED FORWARD TO LETTER OF TENDER) | C = A+ B | |
| 0,05 | D=C*5% | |
| The sum provided here is under the sole control of the Employer and may be deducted in whole or in part. The tenderer shall add 10% of the total of schedule of quantities for contingencies. | | |
| SUBTOTAL | F =C+ D + E | |
| VALUE ADDED TAX (VAT) 15% | F=E*15% | |
| The tenderer shall add 15% of the subtotal for VAT | | |
| TOTAL | H =F+ G | |