## UPGRADING OF TSEIKURU TOWN ROADS TO BITUMEN STANDARDS

**Summary of Bills of Quantities**

| Item No. | Description | Amount (KShs) |
|---|---|---|
| 1 | General Office Administration and Overheads/Preliminaries | 2,462,950.00 |
| 4 | Site Clearance | |
| 5 | Earthworks | |
| 8 | Culverts and Drainage Works | |
| 9 | Passage of Traffic | |
| 12 | Base and Sub-Base Repair | |
| 14 | Cement and Lime Treated Base and Subbase Material | |
| 15 | Bituminous Surface Treatment and Surface Dressing | |
| 16 | Bituminous Mixes | |
| 20 | Road Furniture | |
| 25 | Cross Cutting Issues | |
| | | |
| | *Sub Total 1* | |
| | Add V.A.T. @ 16% | |
| | *Sub Total 2* | |
| | Add 0.03% for Public Procurement Capacity Building Levy order 2023 (The levy order 2023) | |
| | | |
| | **Total Carried to page on the Form of Tender** | |

Amount in words

Tender's Name.....

Signature.....

Date.....

Witness: Name and Signature:.....

Description.....

Adress .....

Date:.....

Tender Name: **UPGRADING OF TSEIKURU TOWN ROADS TO BITUMEN STANDARDS**

**BILLS OF QUANTITIES** Region Tseikuru *Length = 1.48 Km*

Activity Group Title Road Code Urban Road

| Bill No. | ITEM CODE | DESCRIPTION | Quantity | UNIT | Unit Bid RATE (KShs) | Bill Item Cost without VAT (KSHs) | Technology |
|---|---|---|---|---|---|---|---|
| | | BILL 1: GENERAL PRELIMINARIES | | | | | |
| 1 | 01-80-003 | Transport Operation Expenses | 1.00 | SUM | 250,000.00 | 250,000.00 | *LB-MB* |
| 1 | 01-80-010 | Allow a prime cost of sum for material testing as directed by the Engineer | 1.00 | PC Sum | 80,000.00 | 80,000.00 | *LB-MB* |
| 1 | 01-80-011A | Extra over 01 80 010A for profits and overheads | 100,000.00 | % | 10% | 10,000.00 | |
| 1 | 01 80 012 | Allow a prime cost sum for removal and reinstatement of services | 1.00 | PC Sum | 100,000.00 | 100,000.00 | *LB-MB* |
| 1 | 01-80-013 | Extra over item 01-80-012 for profits and overheads | 100,000.00 | % | 10% | 10,000.00 | |
| 1 | 01-80-016 | Provide and erect publicity signs as directed by the Engineer | 1.00 | SUM | 50,000.00 | 50,000.00 | *LB-MB* |
| 1 | 01-80-026 | Allow a prime cost sum for Engineer's miscellaneous account to be used for field allowances by Project management team, stationery, airtime, internet, welding tools (tape measures, safety gears etc), and other similar project-related expenses as detailed in appendix A | 1.00 | PC Sum | 584,300.00 | 584,300.00 | *LB-MB* |
| 1 | 01-80-027 | Extra over 01-80-026 for profits and overheads | 584,300.00 | % | 10% | 58,430.00 | |
| 1 | 01-80-030 | Allow a prime cost for attendance to the RE's supervisory staff including overtime as detailed in appendix B | 1.00 | PC Sum | 900,200.00 | 900,200.00 | *LB-MB* |
| 1 | 01-80-031 | Include percentage of PC sum in item 01-80-030 for contractors overhead and profit | 900,200.00 | % | 10% | 90,020.00 | |

| Bill No. | ITEM CODE | DESCRIPTION | Quantity | UNIT | Unit Bid RATE (KShs) | Bill Item Cost without VAT (KSHs) | Technology |
|---|---|---|---|---|---|---|---|
| **BILL 4: SITE CLEARANCE** | | | | | | | |
| 4 | 04-60-001 | Clear site on road reserve including removal of trees, hedges, bushes and other vegetation or deterrous organic material, grub up roots and back fill to 100% MDD (AASHTO T99) with approved material in accordance with the | 10.00 | Ha | | | MB |
| 4 | 04-50-015 | Remove and store for re-use Street Lighting fittings including electricity poles, cables and control pillars | 1,000.00 | M | | | LB-MB |
| 4 | 04-60-006 | Demolish buildings, structures & fences & dispose off materials | 100,000.00 | LS | | | LB-MB |
| **Total Carried Forward to Summary** | | | | | | | |
| **BILL 5: EARTHWORKS** | | | | | | | |
| 5 | 05-50-006 | Fill in soft material and compact | 1,100.00 | $M^3$ | | | MB |
| 5 | 05-50-007 | Fill in hard | 100.00 | $M^3$ | | | MB |
| 5 | 05-50-008 | Cut to spoil in soft | 800.00 | $M^3$ | | | MB |
| 5 | 05-50-009 | Cut to spoil in hard | 80.00 | $M^3$ | | | MB |
| 5 | 05-50-016 | Scarify waste and compact existing ground to at least 95%MDD(AASHTO T99) | 1,500.00 | $M^3$ | | | MB |
| **Total Carried Forward to Summary** | | | | | | | |

| Bill No. | ITEM CODE | DESCRIPTION | Quantity | UNIT | Unit Bid RATE (KShs) | Bill Item Cost without VAT (KSHs) | Technology |
|---|---|---|---|---|---|---|---|
| | | **BILL 8: CULVERTS AND DRAINAGE WORKS** | | | | | |
| 8 | 08-60-033 | Provide , lay and join 600mm inner dia concrete pipes | 28.00 | MT | | | LB-MB |
| 8 | 08-70-001 | Stone pitching | 630.00 | $M^2$ | | | LB |
| 8 | 08-70-043 | Excavate for,provide,lay and joint 300mm IBD with 2 courses of side slabs on either side. | 350.00 | MT | | | LB |
| 8 | 08 90 003 | Excavation in soft material for pipe culverts, headwalls, wingwalls, apron, toe walls and drop inlets and compact as specified or as directed by the Engineer | 12.00 | $M^3$ | | | LB |
| 8 | 08-90-008 | Provide and place class 15/20 concrete to beds | 9.20 | $M^3$ | | | LB |
| 8 | 08 90 009 | Provide and place class 25/20 concrete to headwalls, wing walls, aprons, surrounds to walls, inlets and outlets to ipe culverts including formwork | 16.5 | $M^3$ | | | LB-MB |
| | | **Total Carried Forward to Summary** | | | | | |
| | | **BILL 9: PASSAGE OF TRAFFIC** | | | | | |
| 9 | 09-60-001 | Allow for the passage of traffic through the works | 100000 | SUM | | | LB |
| 9 | 09-60-004 | Provide signs and barriers in accordance with clause 907 of the standard specifications | 50000 | SUM | | | LB |
| | | **Total Carried Forward to Summary** | | | | | |

| Bill No. | ITEM CODE | DESCRIPTION | Quantity | UNIT | Unit Bid RATE (KShs) | Bill Item Cost without VAT (KSHs) | Technology |
|---|---|---|---|---|---|---|---|
| | | **BILL 12: NATURAL MATERIAL BASE AND SUBBASE** | | | | | |
| 12 | 12-50-002 | Provide, place, spread and compact natural gravel for Subbase | 1,813.00 | M³ | | | *MB* |
| 12 | 12-50-003 | Provide, place, spread and compact natural gravel for Base | 1,443.00 | M³ | | | *MB* |
| | | **Total Carried Forward to Summary** | | | | | |
| | | **BILL 14:CEMENT AND LIME TREATED BASE AND SUB-BASE MATERIAL** | | | | | |
| 14 | 14-50-001 | Provide, transport, spread, cement Stabilizer on natural material(Base) | 57.00 | Tonne | | | *MB* |
| 14 | 14-50-003 | Mixing in cement/lime stabilizer into natural gravel | 1,443.00 | M³ | | | *MB* |
| 14 | 14-50-004 | Curing and protection of treated layer(Subbase and Base) | 8,880.00 | M² | | | *LB-MB* |
| | | **Total Carry Forward to Summary** | | | | | |

| Bill No. | ITEM CODE | DESCRIPTION | Quantity | UNIT | Unit Bid RATE (KShs) | Bill Item Cost without VAT (KSHs) | Technology |
|---|---|---|---|---|---|---|---|
| **BILL 15: BITUMINOUS SURFACE TREATMENT AND SURFACE DRESSING** | | | | | | | |
| 15 | 15-92-001 | Provide and Spray MC 30 cut-back bitumen as prime coat to carriageway, shoulders, bosbays and junctions at rate 0.8-1.2 lts/m2 as prime coat | 10,556.00 | L | | | LB-MB |
| **Total Carried Forward to Summary** | | | | | | | |
| **BILL 16: BITUMINOUS MIXES** | | | | | | | |
| 16 | 16-50-014 | Provide,lay and compact of 35mm Asphalt Concrete type 1 wearing course to carriageway | 310.00 | $M^2$ | | | MB |
| 16 | 16-80-003 | Provide and spray K-160 as tack coat at a rate of 0.8-1.0 L/sq metre as directed by the Engineer | 8,880.00 | L | | | LB-MB |
| **Total Carried Forward to Summary** | | | | | | | |
| **BILL 20: ROAD FURNITURE** | | | | | | | |
| 20 | 20-50-015 | Provide Speed hump construction with Asphalt concrete | 7.50 | $M^3$ | | | LB-MB |
| 20 | 20-50-066 | Provide lay and join precast concrete channels | 1,050.00 | MT | | | LB-MB |
| 20 | 20-70-002 | Provide and erect warning type signs 750mm size | 2.00 | No. | | | LB |
| 20 | 20-70-004 | Provide and erect standard informatory signs 400*300 mm | 2.00 | No. | | | LB |
| 20 | 20-70-010 | Paint 0.1m wide thermoplastic yellow centreline on the road as specified | 130.00 | $M^2$ | | | LB-MB |
| 20 | 20-70-011 | Paint 0.1m wide thermoplastic white lines on road | 290.00 | $M^2$ | | | LB-MB |
| **Total Carried Forward to Summary** | | | | | | | |
| **BILL 25: CROSS CUTTING ISSUES** | | | | | | | |

| Bill No. | ITEM CODE | DESCRIPTION | Quantity | UNIT | Unit Bid RATE (KShs) | Bill Item Cost without VAT (KSHs) | Technology |
|---|---|---|---|---|---|---|---|
| 25 | 25-50-001b | HIV/AIDS Prevention Campaigns | 1.00 | SUM | 250,000.00 | 250,000.00 | LB |
| 25 | 25-50-001c | Include % of Prime cost sum in item 25-50-001(b) for contractor_s overhead and profit | 250,000.00 | % | 10% | 25,000.00 | LB |
| Total Carried Forward to Summary | | | | | | 275,000.00 | |

| Bill No. | ITEM CODE | DESCRIPTION | Quantity | UNIT | Unit Bid RATE (KShs) | Bill Item Cost without VAT (KSHs) | Technology |
|---|---|---|---|---|---|---|---|
| 1 | 01-80-032 | Allow a prime cost sum for training of Engineers staff on site | 1.00 | PC Sum | 150,000.00 | 150,000.00 | *LB MB* |
| 1 | 01-80-033 | Include percentage of PC sum in item 01 80 032 for contractors overhead and profit | 150,000.00 | % | 10% | 15,000.00 | |
| 1 | 01-80-042d | Allow for prime cost sum for survey works | 1.00 | PC Sum | 150,000.00 | 150,000.00 | *LB MB* |
| 1 | 01-80-042e | Include Percentage cost Sum in Item01-80-042d | 150,000.00 | % | 10% | 15,000.00 | |
| | | Total Carried Forward to Summary | | | | 2,462,950.00 | |