

**CONTRACT NO:LDPWRI-ROADS/17020
HOUSEHOLD ROUTINE ROAD MAINTENANCE PROJECT
MARULENG MUNICIPALITY**

| ITEM NO | DESCRIPTION | UNIT | QUANTITY | RATE | AMOUNT |
|--------------|---|----------|------------|------------|------------|
| M0200 | GENERAL REQUIREMENTS AND PROVISIONS | | | | |
| M020.01 | Information signboards (b)Type 2 (small) | No | 30 | | |
| M020.05 | Project Liaison Committee (a) Cost of Project Liaison Committee | Prov Sum | 1.00 | 54,000.00 | 54,000.00 |
| | (b)The Contractor's overhead charges and profit in respect of sub-item DM020.05 (a) | % | 54,000.00 | | |
| M020.06 | Training (a) Engineering skills | Prov Sum | 1 | 250,000.00 | 250,000.00 |
| | (b) Generic skills | Prov Sum | 1 | 180,000.00 | 180,000.00 |
| | (c) Enterpreneurial skills | Prov Sum | 1 | 180,000.00 | 180,000.00 |
| | (d) Training Venue | LS | 1 | | |
| | (e) Renumeration of worker undergoing training | Prov Sum | 1 | 45,000.00 | 45,000.00 |
| | (f) Contractors handling cost and other charges in respect of (a,b,c) to e | % | 655,000.00 | | |
| M0200 | TOTAL CARRIED FORWARD TO SUMMARY | | | | |

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|--------------|--|----------|------------|------------|------------|
| M0300 | CONTRACTOR'S ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS | | | | |
| M030.01 | Fixed obligations | LS | 1 | | |
| M030.03 | Time-related obligations (a) General obligations | month | 36 | | |
| | (b) Occupational health and safety obligations (two safety officers) | month | 36 | | |
| DM030.12 | Employment of personnel by Contractor (a) Graduates Participants | | | | |
| | (i) Remuneration of graduates Participants | Prov Sum | 1 | 100,000.00 | 100,000.00 |
| | (ii) Handling cost & profit in respect sub-item DM030.12(a)(i) | % | 100,000.00 | | |
| M0300 | TOTAL CARRIED FORWARD TO SUMMARY | | | | |

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|---------------|--|----------------|----------|------|--------|
| B1400 | HOUSING, OFFICES AND LABORATORIES FOR THE CONTRACTOR'S SITE PERSONNEL | | | | |
| B14.01 | Office accommodation: | | | | |
| | (a) Offices (minimum 63m ² floor area all inclusive) | m ² | 63.00 | | |
| | (e) Ablution units | m ² | 5.00 | | |
| B14.02 | Office furniture: | | | | |
| | (a) Portable Chairs | No | 26.00 | | |
| | (d) Office Table | No | 6.00 | | |
| | (f) Conference Tables | No | 2.00 | | |
| B14.03 | Offices fittings, installations and equipment | LS | 1.00 | | |
| | Refer to Specifications | | | | |
| B14.08 | Provision of Services and Running cost of the office | | | | |
| | (a) Fixed costs | LS | 1.00 | | |
| | (b) Running costs | month | 36.00 | | |
| B14.10 | Provision of Photostat Facilities | month | 36.00 | | |
| B1400 | TOTAL CARRIED TO SUMMARY | | | | |

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|--------------|---|-------|----------|------|--------|
| M0500 | ACCOMMODATION OF TRAFFIC | | | | |
| M050.01 LI | Accommodation of traffic and mainteining temporary deviations (including provision of flagman and all relevent temporary signs) | month | 36.00 | | |
| M0500 | TOTAL CARRIED TO SUMMARY | | | | |

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|-------------------|--|----------------|----------|------|-----------|
| M1100 | PAVEMENT LAYERS REPAIR | | | | |
| M110.01 LI | Removal and excavating material from existing pavements (except milled material) | | | | |
| | (a)Areas up to 50m ² | m ³ | 452 | | |
| | (c)Areas greater than 50m ² | m ³ | | | Rate only |
| M110.03 LI | Backfilling of base layer for surface failures with (98% of modified AASHTO density): | | | | |
| | (a) Chemically stabilised gravel excavated from the existing pavement | | | | |
| | (i)Areas up to 50m ² | m ³ | 452 | | |
| | (ii)Areas greater than 50 m ² | m ³ | | | Rate only |
| | (d) Asphalt surfacing (continuously graded medium) | | | | |
| | (i)Areas up to 50m ² | t | 320 | | |
| | (ii)Areas greater than 50m ² (paver) | t | | | Rate only |
| M110.04 LI | Backfilling of pavement layers to compaction as specified | | | | |
| | (a) Subbase layer (95% of modified AASHTO density) | | | | |
| | (i)Areas up to 50m ² | m ³ | 1357 | | |
| | (ii)Areas greater than 50m ² | m ³ | | | Rate only |
| | (b) Selected layer (93% of modified AASHTO density) | | | | |
| | (i)Areas up to 50m ² | m ³ | 452 | | |
| | (ii)Areas greater than 50m ² | m ³ | | | Rate only |
| M1100 | TOTAL CARRIED FORWARD | | | | |

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|--------------|--|----------------------------------|----------|------|------------------------|
| | BROUGHT FORWARD | | | | |
| M110.04 LI | Backfilling of pavement layers to compaction as specified (c) Fill layer (90% of modified AASHTO density) (i)Areas up to 50m ² (ii)Areas areater than 50m ² | m ³ m ³ | 59 | | Rate Only |
| M110.05 | Binder variations (a) Penetration-grade bitumen | t | | | Rate Only |
| M110.06 | Variation in active filler content (a)Cement (b)Lime | t t | | | Rate Only Rate Only |
| M110.07 | Overhaul on material hauled in excess of 1,0 km (a) Spoil material | m3-km | 1,973.91 | | |
| M110.09 | Establishment of Paver on Site | No | 3 | | |
| M1100 | TOTAL CARRIED FORWARD TO SUMMARY | | | | |

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|--------------|---|------|----------|------|-----------|
| M1200 | REPAIR OF POTHOLES | | | | |
| M120.01 LI | Pothole repair (<0.5m2) using hot mix continuously graded asphalt | No. | 10515 | | |
| M1210 | REPAIR OF EDGE BREAKS | | | | |
| M121.01 LI | Repair of edge breaks using hot mix continuously graded asphalt | m | 11640 | | |
| M1220 | REPAIR OF SURFACE FAILURES | | | | |
| M122.01 LI | Repair of surface failures hot mix continuously graded asphalt | No. | 10515 | | |
| M1230 | TEMPORARY REPAIR | | | | |
| M123.01 LI | Temporary repair of potholes, edge breaks and surface failures using cold mix asphalt surfacing from the following sources: | | | | |
| | (a) Commercial sources | No | 5820 | | |
| | (b) Mix on site as specified | No | 0 | | Rate only |
| M1200 | TOTAL CARRIED TO SUMMARY | | | | |

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| ITEM NO | DESCRIPTION | UNIT | QUANTITY | RATE | AMOUNT |
|--------------|--|----------------|----------|------|-------------------------------------|
| M1300 | SEALING OF ACTIVE CRACKS | | | | |
| M130.01 LI | Cleaning of active cracks with hot compressed air and sealing cracks as specified (a) Stabilisation cracks (i) Without bandage (ii) With bandage ("Sealmac 150" or similar) 200mm id (d) Longitudinal cracks | m m m | | | Rate only Rate only Rate only |
| M1320 | CRACKSEALING PER INDIVIDUAL ITEM | | | | |
| M132.01 LI | Cracksealing per individual item (b) Priming of cracks (MSP1 or similar) (c) Sealant (hot applied sealant) | litre litre | | | Rate only Rate only |
| M1300 | TOTAL CARRIED TO SUMMARY | | | | |

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|--------------|--|----------------|----------|------|-----------|
| M1600 | SURFACE TREATMENT - TEXTURE CORRECTION | | | | |
| M160.01 LI | Application of slurry mixed on site (a)Tack coat using 30% bitumen emulsion | l | | | Rate only |
| | (b)Slurry applied for texture treatment (Coarse grading and 80/100 pen. bitumen) | m ³ | | | Rate only |
| | (i)Applied by hand | m ³ | | | Rate only |
| | (ii)Applied by spreader box | m ³ | | | Rate only |
| M160.02 LI | Application of slurry from commercial sources | | | | |
| | (a) Tack coat using 30% bitumen emulsion | l | | | Rate only |
| | (b) Slurry applied for texture treatment (Coarse grading and 80/100 pen. bitumen) | m ³ | | | Rate only |
| | (i)Applied by hand | m ³ | | | Rate only |
| | (ii)Applied by spreader box | m ³ | | | Rate only |
| M1610 | SURFACE TREATMENT - RUT FILLING | | | | |
| M161.01 | Application of slurry for rut filling mixed on site | | | | |
| | (a) Slurry applied by spreader box with rigid squeegees in one application for rut filling (Coarse grading and 80/100 pen.bitumen) | m ³ | | | Rate only |
| M161.02 | Application of slurry for rut filling from commercial sources | | | | |
| | (a) Slurry applied by spreader box with rigid squeegees in one application for rut filling (Coarse grading and 80/100 pen.bitumen) | m ³ | | | Rate only |
| | (c) Tack coat using 30% bitumen emulsion | l | | | Rate only |
| M1600 | TOTAL CARRIED FORWARD TO SUMMARY | | | | |

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|--------------|---|--------------------|----------|-----------|-----------|
| M2100 | REPAIR AND MAINTENANCE OF INLET AND OUTLET STRUCTURES | | | | |
| M210.01 LI | Excavation | m ³ | | | Rate only |
| M210.02 LI | Backfilling | | | | |
| | (a)Using the excavated material | m ³ | | | Rate only |
| | (b)Using stabilised excavated material | m ³ | | | Rate only |
| M210.03 LI | Reconstruction of inlet and outlet structures | | | | |
| | (a)Concrete (class 20/19) | m ³ | | | Rate only |
| | (b)Brickwork (230mm width) | m ² | | | Rate only |
| | (c) Plastering | m ² | | | Rate only |
| | (d) Pre-cast Concrete inlets | No | | | Rate only |
| M210.04 | Accessories | | | | |
| | (a)Provisional sum for the cost of accessories | Prov Sum | 1.00 | 45,000.00 | 45,000.00 |
| | (b)The Contractor's overhead charges and profit in respect of sub-item BM210.04 (a) | % | 45,000 | | |
| M210.05 LI | Demolition of existing structures | | | | |
| | (a) Plain concrete | m ³ | 9 | | Rate only |
| | (c) Brickwork | m ² | 9 | | Rate only |
| M210.07 | Steel reinforcement | | | | |
| | (a)Mild steel bars | t | 3 | | Rate only |
| | (b)High tensile steel bars | t | 3 | | Rate only |
| | (c) Welded steel mesh (Ref 311) | kg | 150 | | Rate only |
| M210.08 | Overhaul on material hauled in excess of 40 km | | | | |
| | (a)Excavated material to spoil | m ³ -km | 1500 | | Rate only |
| | (b)Existing structures demolished | m ³ -km | 300 | | Rate only |
| M2100 | TOTAL CARRIED FORWARD TO SUMMARY | | | | |

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|--------------|--|-------|----------|------|--------|
| M2400 | CLEANING OF PREFABRICATED CULVERTS | | | | |
| M240.01 LI | Cleaning of prefabricated culverts, inlet and outlet areas Various road sections as descibed under C3.1.2.1 : Description of site | month | 36 | | |
| M2400 | TOTAL CARRIED FORWARD TO SUMMARY | | | | |

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|--------------|---|-------|----------|------|--------|
| M2500 | CLEANING OF CONCRETE DRAINS AND CHANNELS | | | | |
| M250.01 LI | Cleaning of concrete drainage channels: Various road sections as descibed under C3.1.2.1: Description of site | | | | |
| | (a)(i) Hand cleaning | month | 36 | | |
| M250.02 LI | (b) Extra over for sweeping of concrete drainage channels | month | 36 | | |
| M2500 | TOTAL CARRIED FORWARD TO SUMMARY | | | | |

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|--------------|--|--------------------|----------|------|--------|
| M2600 | CLEANING AND MAINTENANCE OF EXISTING EARTH CHANNELS | | | | |
| M260.01 LI | Cleaning earth drains and channels | m ³ | 7500 | | |
| M260.02 LI | Repairing of earth drains and channels | m ³ | 7500 | | |
| M260.04 | Overhaul on material hauled in excess of 1,0 km | m ³ -km | 18900 | | |
| M2600 | TOTAL CARRIED FORWARD TO SUMMARY | | | | |

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|--------------|---|-------|----------|------|--------|
| M2700 | EDGE BUILD-UP REMOVAL | | | | |
| M270.01 LI | Removal of edge build-ups: Various road sections as descibed under C3.1.2.1 : Description of site | month | 36 | | |
| M2700 | TOTAL CARRIED FORWARD TO SUMMARY | | | | |

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|--------------|--|-------|----------|------|--------|
| M3200 | COLLECTION AND REMOVAL OF DEBRIS AND LITTER | | | | |
| M320.01 LI | Clearing of the road reserve (a) Urban roads: Various road sections as descibed under C3.1.2.1 : Description of site | month | 36 | | |
| M3200 | TOTAL CARRIED FORWARD TO SUMMARY | | | | |

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|--------------|---|--------------------|----------|------|-----------|
| M3300 | SHOULDER REPAIRS | | | | |
| M330.01 LI | Reinstating gravel shoulders | | | | |
| | (a)Ripping, watering, mixing, placing and compacting existing shoulders to 93% of modified AASHTO density | m ³ | | | Rate only |
| | (b)Extra over sub-item M330.01 (a) for adding extra material from borrowpits outside the road reserve | m ³ | | | Rate only |
| | (c) Extra over sub-item M330.01 (a) for stabilising material | m ³ | | | Rate only |
| | (d) Blading | km | | | Rate only |
| | (e) Cutting of mitre drains | m | | | Rate only |
| | Overhaul on material hauled in excess of 1,0 km | m ³ -km | | | Rate only |
| M3300 | TOTAL CARRIED FORWARD TO SUMMARY | | | | |

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|--------------|--|----------------|----------|------|-----------|
| M4100 | ERECTION AND REPAIR OF PERMANENT ROAD TRAFFIC SIGNS | | | | |
| M410.01 LI | Erection or re-erection of road signs with a surface area of: | | | | |
| | (a)Up to 2m ² | m ² | 450 | | |
| | (b)Exceeding 2m ² but not 10m ² | m ² | 150 | | |
| | (c) Exceeding 10m ² | m ² | | | Rate only |
| M410.02 LI | Road sign supports (overhead road sign strutures excluded) | | | | |
| | (b) Timber: | | | | |
| | (i)100mm diameter | m | | | Rate only |
| | (ii)125mm diameter | m | | | Rate only |
| | (iii)150mm diameter | m | | | Rate only |
| | (iv)175mm diameter | m | 1050 | | |
| M410.04 LI | Excavation and backfilling for road sign supports (not applicable to reference marker board posts) | m ³ | 75 | | |
| M410.05 LI | Extra over item M410.04 for cement-treated soil backfill | m ³ | 75 | | |
| M410.10 LI | Hazard plates | | | | |
| | (a) W401 sign (150 x 600mm) | | | | |
| | (i)Sign only | No | 437 | | |
| | (ii)Post only | No | 437 | | |
| M4100 | TOTAL CARRIED FORWARD | | | | |

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|--------------|--|-------------|----------|------------|------------|
| M4100 | BROUGHT FORWARD | | | | |
| | (b) W401 sign (200 x 800mm) | | | | |
| | (i)Sign only | No | 300 | | |
| | (ii)Post only | No | 300 | | |
| | (c) W401 sign (300 x 1200mm) | | | | |
| | (i)Sign only | No | 300 | | |
| | (ii)Post only | No | 300 | | |
| M410.12 LI | Concrete in road sign footings (class 20/19) | m3 | 36 | | |
| M410.14 LI | Removal of road sign supports | No | 600 | | |
| M410.15 | Procurement of road signs | | | | |
| | (a)Purchase of manufactured road signs | Prov Sum | 1 | 180,000.00 | 180,000.00 |
| | (b)The Contractor's overhead charges and profit in respect of sub-item M410.15 (a) | % | 180000 | | |
| M4100 | TOTAL CARRIED FORWARD TO SUMMARY | | | | |

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|-------------------|--|------|----------|------|-----------|
| M4400 | GUARDRAIL ERECTION AND MAINTENANCE | | | | |
| M440.01 LI | Supply and erection of new galvanised guardrails | | | | |
| | (i) Conventional guardrail (3.8m eff. length) | m | | | Rate only |
| | (ii) EU standard guardrail (4.0m eff Length) | m | | | Rate only |
| M440.02 | Supply and erection of new galvanised curved factory bent to a radius of less than 45 m | m | | | Rate only |
| M440.03 LI | Extra over for erection of guardrail posts | | | | |
| | (a) Additional timber posts for items M440.01 and M440.02 | No | | | Rate only |
| | (b) Backfilling guardrail post with soilcrete | No | | | Rate only |
| | (c) Backfilling guardrail post with concrete | No | | | Rate only |
| M440.04 LI | End units | | | | |
| | (a) End wings | No | | | Rate only |
| | (b) Terminal sections in accordance with the drawings where single guardrail sections are used | No | | | Rate only |
| | (c) Terminal sections in accordance with the drawings where double guardrail sections are used | No | | | Rate only |
| M440.05 LI | Guardrail reflectors | No | | | Rate only |
| M440.06 LI | Removal of damaged guardrails and re-erection of guardrails with new, recovered or renovated material | | | | |
| | (a) Guardrails | | | | |
| | (i) Conventional guardrail (3.8m eff. length) | m | | | Rate only |
| | (ii) EU standard guardrail (4.0m eff Length) | m | | | Rate only |
| M4400 | TOTAL CARRIED FORWARD | | | | |

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| M4400 | BROUGHT FORWARD | | | | |
| | (b) End wings (i) Conventional guardrail (3.8m eff. length) (ii) EU standard guardrail (4.0m eff Length) (c) Terminal sections with single guardrails (i) Conventional guardrail (3.8m eff. length) (ii) EU standard guardrail (4.0m eff Length) (d) Terminal sections with double guardrails (i)Conventional guardrail (3.8m eff. length) (ii)EU standard guardrail (4.0m eff (e) Guardrail posts (i)Conventional guardrail (3.8m eff. length) (ii)EU standard guardrail (4.0m eff Length) | No No No No No No No | | | Rate only Rate only Rate only Rate only Rate only Rate only Rate only |
| M4400 | TOTAL CARRIED FORWARD TO SUMMARY | | | | |

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| M4600 | ROAD MARKING | | | | |
| M460.02 | Retro-reflective road-marking paint: | | | | |
| | (a) White lines (broken or unbroken) | | | | |
| | (i) 100mm wide | km | 200 | | |
| | (ii) 200mm wide | km | 6 | | |
| | (iii) 500mm wide | km | 3 | | |
| | (b) Yellow lines (broken or unbroken) | | | | |
| | (i) 100mm wide | km | 400 | | |
| | (ii) 150mm wide | km | 1.2 | | |
| | (d) White lettering and symbols | m ² | 1050 | | |
| M460.04 | Setting out and pre-marking the lines (excluding traffic-island markings, lettering and symbols) | km | 600 | | |
| M4600 | TOTAL CARRIED FORWARD TO SUMMARY | | | | |

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| M4700 | MAINTENANCE OF LAY-BYES AND REST AREAS | | | | |
| M470.01 LI | Maintenance of lay-byes and rest areas (a) Maintenance of lay-byes and rest areas (b) The Contractor's overhead charges and profit in respect of sub-item M470.01 (a) | Prov Sum | 1 | 45,000.00 | 45,000.00 |
| M470.02 LI | Provision of refuse bins, gazebos, tables and chairs (a) Provision of refuse bins (b) The Contractor's overhead charges and profit in respect of sub-item BM470.02 (a) | Prov Sum | 1 | 54,000.00 | 54,000.00 |
| M4700 | TOTAL CARRIED FORWARD TO SUMMARY | | | | |

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| M5100 | GENERAL EROSION PROTECTION | | | | |
| M510.01 LI | Stone pitching | | | | |
| | (a) Plain pitching | | | | |
| | (i) Method 1 | m ² | 3000 | | Rate only |
| | (ii) Method 2 | m ² | 24 | | Rate only |
| | (b) Grouted pitching | m ² | 0 | | Rate only |
| | (c) Wired-and-grouted pitching | m ² | 0 | | Rate only |
| | (d) Grouted pitching on a concrete bed (75mm thick, 20/19 MPa concrete) | m ² | 0 | | Rate only |
| M510.02 LI | Riprap | | | | |
| | (a) Packed riprap | m ³ | 0 | | Rate only |
| | (b) Dumped riprap | m ³ | 0 | | Rate only |
| | (c) Filter backing | | 0 | | Rate only |
| | (i) Crushed stone | m ³ | 0 | | Rate only |
| | (ii) Filter sand | m ³ | 0 | | Rate only |
| | (d) Synthetic-fibre filter fabric (Grade 2) | m ³ | 0 | | Rate only |
| M510.03 LI | Stone masonry walls | | | | |
| | (a) Plain packed stone | m ³ | 0 | | Rate only |
| | (b) Cement-mortared stone walls | m ³ | 0 | | Rate only |
| M510.05 LI | Concrete edge beams (30 Mpa concrete) | | | | |
| | (a) Cast in situ concrete Concrete edge beams, 300 x 300mm in 2m sections class 30/19 Mpa concrete | m ³ | 270 | | |
| M510.06 LI | Foundation trenches | m ³ | 60 | | |
| M5100 | TOTAL CARRIED FORWARD TO SUMMARY | | | | |

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HOUSEHOLD ROUTINE ROAD MAINTENANCE PROJECT
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| ITEM NO | DESCRIPTION | UNIT | QUANTITY | RATE | AMOUNT |
|-------------------|--|----------------|----------|------|--------|
| M5200 | GABION PROTECTION | | | | |
| M520.01 LI | Foundation trench excavation and backfilling (a)In solid rock (material which requires blasting) | m ³ | 30 | | |
| | (b)In all other classes of material | m ³ | 240 | | |
| M520.02 LI | Surface preparation for bedding the gabions | m ² | 960 | | |
| M520.03 LI | Gabions (a) Gabion baskets (1mx1mx1m, mesh. 80mmx100mm and 2,5mm diameter wire)) | m ³ | 480 | | |
| | (b) Galvanised gabion mattresses (2mx1mx0,3m deep, mesh 80mmx100mm, 2,2mm diameter wire, 600mm diaphragm) | m ³ | 480 | | |
| M520.04 | Extra over item M520.03 for supplying gabions with PVC-coated wire | m ³ | 960 | | |
| M520.05 LI | Filter fabric (Grade 2) | m ² | 2400 | | |
| M5200 | TOTAL CARRIED FORWARD TO SUMMARY | | | | |

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MARULENG MUNICIPALITY

| ITEM NO | DESCRIPTION | UNIT | QUANTITY | RATE | AMOUNT |
|-------------------|--|----------------------|--------------|------|--------|
| M6100 | GRASS CUTTING: SHOULDER AND GENERAL MOWING | | | | |
| M610.01 LI | Shoulder mowing and removal of grass cuttings (b)Reserve with single carriageway Various road sections as descibed under C3.1.2.1 : Description of site | ha | 60 | | |
| M610.02 LI | General mowing and removal of grass cuttings (b)Reserve with single carriageway Various road sections as descibed under C3.1.2.1 : Description of site | ha | 750 | | |
| M611.01 LI | Cutting of designated areas (a) Sight triangle at intersections, road signs and marker boards at the following section and interchanges Various road sections as descibed under C3.1.2.1 : Description of site | No | 150 | | |
| M611.02 LI | Additional cutting (a)Any area on instruction of the Engineer (c) 1m cut either side of concrete drains | m ² km | 43,650 15 | | |
| M6100 | TOTAL CARRIED FORWARD TO SUMMARY | | | | |

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| ITEM NO | DESCRIPTION | UNIT | QUANTITY | RATE | AMOUNT |
|--------------|---|----------------------------|----------|------|---|
| M6300 | REMOVAL OF UNDESIRABLE VEGETATION: PHYSICAL ERADICATION | | | | |
| M630.01 LI | Eradication of undesirable vegetation (b) Annual eradication Various road sections as descibed under C3.1.2.1 : Description of site | ha | | | Rate only |
| M630.02 LI | Tree felling on instruction of the Engineer (a) Girth 151 mm to 500 mm (b) Girth 501 mm to 1000 mm (c) Girth 1 001 mm to 2000 mm (d) Girth 2 001 mm to 4000 mm (e) Girth larger than 4000 mm | No No No No No | | | Rate only Rate only Rate only Rate only Rate only |
| M630.04 LI | Additional eradication of undesirable vegetation on instruction of the Engineer | ha | | | Rate only |
| M6300 | TOTAL CARRIED FORWARD TO SUMMARY | | | | |

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| ITEM NO | DESCRIPTION | UNIT | QUANTITY | RATE | AMOUNT |
|--------------|---|------------------|----------------|-----------|-----------|
| M8100 | MINOR REPAIRS TO STRUCTURES | | | | |
| M810.01 LI | Minor repairs to structures (a)Minor repairs to structures (b)The Contractor's overhead charges and profit in respect of sub-item M810.01 (a) | Prov Sum % | 1.00 60,000 | 60,000.00 | 60,000.00 |
| M8100 | TOTAL CARRIED FORWARD TO SUMMARY | | | | |

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MARULENG MUNICIPALITY**

| ITEM NO | DESCRIPTION | UNIT | QUANTITY | RATE | AMOUNT |
|----------------|--|------|----------|------|--------|
| M9100 | DAYWORKS SCHEDULE | | | | |
| M910.01 | Labour during normal working hours | | | | |
| | (a) Unskilled | h | 27 | | |
| | (b) Semi-skilled | h | 27 | | |
| | (c) Skilled | h | 27 | | |
| | (d) Ganger | h | 27 | | |
| | (e) Flagmen | h | 27 | | |
| M910.02 | Labour outside normal working hours | | | | |
| | (a) Outside normal working hours and Saturdays | | | | |
| | (i) Unskilled | h | 27 | | |
| | (ii) Semi-skilled | h | 27 | | |
| | (iii) Skilled | h | 27 | | |
| | (iv) Ganger | h | 27 | | |
| | (v) Flagmen | h | 27 | | |
| | (b) Sundays and public holidays | | | | |
| | (i) Unskilled | h | 27 | | |
| | (ii) Semi-skilled | h | 27 | | |
| | (iii) Skilled | h | 27 | | |
| | (iv) Ganger | h | 27 | | |
| | (v) Flagmen | h | 27 | | |
| M9100 | TOTAL CARRIED FORWARD | | | | |

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MARULENG MUNICIPALITY

| ITEM NO | DESCRIPTION | UNIT | QUANTITY | RATE | AMOUNT |
|----------------|---|------|----------|------|--------|
| | BROUGHT FORWARD | | | | |
| M910.03 | Transport and equipment | | | | |
| | (a) Tipper Trucks | | | | |
| | (i) 3 to 5 ton capacity | h | 27 | | |
| | (ii) More than 5 ton capacity | h | 27 | | |
| | (b) TLB - Tractor, loader, backhoe (0.5m3 bucket) | h | 27 | | |
| | (c) Grader (CAT 140 G or similar) | h | 27 | | |
| | (d) Compactor (Bomag BW 90) | h | 27 | | |
| | (e) Water truck (5 000 litre) | h | 27 | | |
| | (f) Mechanical broom | h | 27 | | |
| | (g) Suitable truck/bus for transporting labourers (40 seater) | h | 27 | | |
| | (h) Safety vehicle for pre-marking purposes | h | 27 | | |
| | (i) Compressor (air) including hoses and tools(up to10m3/min) | h | 27 | | |
| | (j) Dewatering pump including generators and accessories (500l/min) | h | 27 | | |
| | (k) Mobile concrete mixers (150l) | h | 27 | | |
| | (l) Flat bed truck (6 ton) | h | 27 | | |
| | (m) Light delivery vehicle (LDV) | h | 27 | | |
| | (n) Centremount cranes (20ton) | h | 27 | | |
| M9100 | TOTAL CARRIED FORWARD | | | | |

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MARULENG MUNICIPALITY

| ITEM NO | DESCRIPTION | UNIT | QUANTITY | RATE | AMOUNT |
|-------------------|--|----------|----------|-----------|-----------|
| M9100 | BROUGHT FORWARD | | | | |
| | (o) Portable generator set | h | 27 | | |
| | (p) Establishment of a TLB - Tractor, loader, backhoe (0.5m3 bucket) | No | 27 | | |
| | (q) Establishment of grader (CAT 140 G or similar) | No | 27 | | |
| M910.04 LI | Procurement of materials | | | | |
| | (a) Procurement of materials | Prov Sum | 1.00 | 90,000.00 | 90,000.00 |
| | (b) The Contractor's overhead charges and profit in respect of sub-item BM910.04 (a) | % | 90,000 | | |
| M910.05 | Extra over item M910.03 for establishment within 24 hours | | | | |
| | (a) Tipper trucks | | | | |
| | (i) 3 to 5 ton capacity | No | 3.00 | | |
| | (ii) More than 5 ton capacity | No | 3.00 | | |
| | (b) TLB - Tractor, loader, backhoe (0.5m3 bucket) | No | 3.00 | | |
| | (c) Dewatering pump including generators and accessories (500l/min) | No | 3.00 | | |
| | (d) Water truck (5000 litre) | No | 3.00 | | |
| M9100 | TOTAL CARRIED FORWARD | | | | |

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HOUSEHOLD ROUTINE ROAD MAINTENANCE PROJECT
MARULENG MUNICIPALITY**

| SECTION | DESCRIPTION | AMOUNT |
|---------|---|--------|
| M0200 | GENERAL REQUIREMENTS AND PROVISIONS | |
| M0300 | CONTRACTOR'S ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS | |
| B1400 | HOUSING, OFFICES AND LABORATORIES FOR THE CONTRACTOR'S SITE PERSONNEL | |
| M0500 | ACCOMMODATION OF TRAFFIC | |
| M1100 | PAVEMENT LAYERS REPAIR | |
| M1200 | REPAIR OF POTHOLES, EDGE BREAKS AND SURFACE FAILURES | |
| M1300 | CRACK SEALING | |
| M1600 | SURFACE TREATMENT OF SURFACED ROADS | |
| M2100 | REPAIR AND MAINTENANCE OF INLET AND OUTLET STRUCTURES | |
| M2400 | CLEANING OF PREFABRICATED CULVERTS | |
| M2500 | CLEANING OF CONCRETE DRAINS AND CHANNELS | |
| M2600 | CLEANING AND MAINTENANCE OF EXISTING EARTH CHANNELS | |
| M2700 | EDGE BUILD-UP REMOVAL | |
| M3200 | COLLECTION AND REMOVAL OF DEBRIS AND LITTER | |
| M3300 | SHOULDER REPAIRS | |
| M4100 | ERECTION AND REPAIR OF PERMANENT ROAD TRAFFIC SIGNS | |
| M4400 | GUARDRAIL ERECTION AND MAINTENANCE | |
| M4600 | ROAD MARKINGS | |
| M4700 | MAINTENANCE OF LAY-BYES AND REST AREAS | |
| M5100 | GENERAL EROSION PROTECTION | |
| M5200 | GABION PROTECTION | |
| M6100 | CONTROLLING VEGETATION GROWTH: MOWING AND CUTTING | |
| M6300 | REMOVAL OF UNDESIRABLE VEGETATION: PHYSICAL ERADICATION | |
| M8100 | MINOR REPAIRS TO STRUCTURES | |
| M9100 | DAYWORKS SCHEDULE | |
| | TOTAL SCHEDULE A: ROUTINE ROAD MAINTENANCE | |

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HOUSEHOLD ROUTINE ROAD MAINTENANCE PROJECT
MARULENG MUNICIPALITY

| ITEM NO | DESCRIPTION | UNIT | QUANTITY | RATE | AMOUNT |
|----------------|---|---|--------------------------------------|---|---|
| B100 | SOCIAL FACILITATION | | | | |
| B100.01 | Provision for Social Consultant and establishment (a) Initial facilitation processes (including establishment of PSC & Liasing with Local Authorities) (b) Monitoring activities on a Monthly basis (c) Contractor's handling costs, profit and all other charges in respect of subitem B100.01 above | Prov Sum Prov Sum % | 1 1 920,000.00 | 20,000.00 900,000.00 | 20,000.00 900,000.00 |
| B | TOTAL CARRIED FORWARD TO SUMMARY | | | | |

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HOUSEHOLD ROUTINE ROAD MAINTENANCE PROJECT
MARULENG MUNICIPALITY

| ITEM NO | DESCRIPTION | UNIT | QUANTITY | RATE | AMOUNT |
|----------------|---|----------|----------|------------|------------|
| D100 | OCCUPATIONAL HEALTH AND SAFETY ACT | | | | |
| C100.01 | Contractor's initial obligations in respect of the Occupational Health and Safety Act and Construction regulations | Lump Sum | 1 | | |
| C100.03 | Submission of the Health and Safety File | Lump Sum | 1 | | |
| C100.04 | Provision for OHS consultant | Prov Sum | 1 | 900,000.00 | 900,000.00 |
| C100.05 | Medical Surveillance Program for all employees, Entry, Exit and Annual Medicals | Prov Sum | 1 | 702,000.00 | 702,000.00 |
| | (a) Contractor's handling costs, profit and all other charges in respect of subitem D100.04 and D100.05 above | Prov Sum | 1 | 120,150.00 | 120,150.00 |
| C100.06 | Communication Per Month per Safety Officer Cell Phones for Safety Personnel Land line for Safety Personnel Offices Radio Communication for Safety Personnel E-mail for Safety Personnel Fax Line for Safety Personnel | Month | 36 | | |
| C100.07 | PPE for all beneficiaries at 4 pairs per year | | | | |
| | (a) Reflective overalls (all sizes) : Acid resistant | No | 2,340 | | |
| | (b) Sun Hats | No | 2,340 | | |
| | (c) Safety Glasses | No | 2,340 | | |
| | (d) Steel Toe Tip Boots | No | 2,340 | | |
| | (e) Dust Masks | No | 2,340 | | |
| | (f) Reflective Jacktes | No | 100 | | |
| C100.08 | Safety Signs | | | | |
| | (a) Site Notice Boards | No | 5 | | |
| | (b) Site office direction sign | No | 5 | | |
| | (c) No smoking signs | No | 5 | | |
| C100.09 | Safety Equipment | | | | |
| | (a) Fire Extinguishers (9kg) | No | 5 | | |
| C | TOTAL CARRIED FORWARD TO SUMMARY | | | | |

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| ITEM NO | DESCRIPTION | UNIT | QUANTITY | RATE | AMOUNT |
|----------------|--|------|----------|-----------|-----------|
| D100 | ENVIRONMENTAL MANAGEMENT PLAN | | | | |
| D100.01 | Pernalty for unnecessary removal or damage to trees for the following diameter sizes: | | | | |
| | (a) 2 600mm girth or less | No. | | -5000.00 | Rate Only |
| | (b) Greater than 2 600mm, but less than 6 180mm girth | No. | | -10000.00 | Rate Only |
| | (c) Greater than 6 180mm girth | No. | | -30000.00 | Rate Only |
| D100.02 | Penalty for serious violations | | | | |
| | (a) Hazardous chemical/oil spill and/or dumping in non-approved sites | No. | | -10000.00 | Rate Only |
| | (b) General damage to sensitive environments | No. | | -5000.00 | Rate Only |
| | (c) Damage to cultural and historical sites | No. | | -5000.00 | Rate Only |
| | (d) Pollution of water sources | No. | | -10000.00 | Rate Only |
| | (e) Unauthorised blasting activities | No. | | -5000.00 | Rate Only |
| | (f) Uncontrolled/unmanaged erosion per incident, depending on environment impacts, plus rehabilitation at contractor's cost) | No. | | -5000.00 | Rate Only |
| D100.03 | Penalty for less serious violations | | | | |
| | (a) Littering on site | No. | | -1000.00 | Rate Only |
| | (b) Lighting of illegal fires on site | No. | | -1000.00 | Rate Only |
| | (c) Persistent or un-repaired fuel and oil leak | No. | | -1000.00 | Rate Only |
| | (d) Excess dust or excess noise emanating from site | No. | | -1000.00 | Rate Only |
| D | TOTAL CARRIED FORWARD | | | | - |

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MARULENG MUNICIPALITY

| ITEM NO | DESCRIPTION | UNIT | QUANTITY | RATE | AMOUNT |
|------------------------|--|------|----------|----------|-----------|
| Brought forward | | | | | - |
| | (e) Dumping of milled material in side drains or on grassed areas | No. | | -1000.00 | Rate Only |
| | (f) Possession or use of intoxicating substances on site | No. | | -500.00 | Rate Only |
| | (g) Any vehicles being driven in excess of designated speed limits | No. | | -500.00 | Rate Only |
| | (h) Removal and/or damage to flora or cultural or heritage objects on site, and/or killing of wildlife | No. | | -2000.00 | Rate Only |
| | (i) Illegal hunting | No. | | -2000.00 | Rate Only |
| | (j) Urination and defecation anywhere except in designated areas | No. | | -500.00 | Rate Only |
| D100 | TOTAL CARRIED TO SUMMARY | | | | - |

**CONTRACT NO:LDPWRI-ROADS/17020
HOUSEHOLD ROUTINE ROAD MAINTENANCE PROJECT
MARULENG MUNICIPALITY**

CALCULATION OF TENDER SUM

| DESCRIPTION | AMOUNT |
|--|--------|
| <p>CONTRACT NO:LDPWRI-ROADS/17020 HOUSEHOLD ROUTINE ROAD MAINTENANCE PROJECT MARULENG MUNICIPALITY</p> | |
| <p>TOTAL SCHEDULE A: ROUTINE ROAD MAINTENANCE</p> | |
| <p>TOTAL PART B : SOCIAL FACILITATION</p> | |
| <p>TOTAL PART C : OCCUPATIONAL HEALTH AND SAFETY ACT</p> | |
| <p>TOTAL PART D : ENVIRONMENTAL MANAGEMENT PLAN</p> | |
| <p>SUB-TOTAL A,B,C & D</p> | |
| <p>SUB-TOTAL</p> | |
| <p style="text-align: center;">VAT AT 14%</p> | |
| <p>TENDER SUM CARRIED FORWARD TO FORM C1.1</p> | |
| | |