

CITY OF MBOMBELA  
CONSTRUCTION OF SHIKISHA ROAD WITH VEHICULAR BRIDGE WARD 33  
CONTRACT NUMBER: COM 92/2026

C1.2 GENERAL REQUIREMENTS AND PROVISIONS

| ITEM                         | DESCRIPTION   | UNIT     | QUANTITY | RATE         | AMOUNT       |
|------------------------------|---|----------|----------|--------------|--------------|
| C1.2                         | <b>GENERAL REQUIREMENTS AND PROVISIONS</b>  |          |          |              |              |
| C1.2.1                       | <b>Environmental Management:</b>  |          |          |              |              |
| C1.2.1.1                     | Monitoring of compliance with and reporting on the EMP  | month    | 12       |              | R -          |
| C1.2.1.2                     | Dedicated Environmental Officer   | month    | 12       |              | R -          |
| C1.2.3                       | <b>Routine road maintenance of existing public roads within the Site of the Works or other public roads outside the Site of the Works which are used as detours</b> |          |          |              |              |
| C1.2.3.9                     | Grading of temporary gravel deviations and existing roads used as detours   | km       | 1,5      |              | R -          |
| C1.2.3.10                    | Watering of temporary gravel deviations and existing roads used as detours  | Kℓ       | 1500     |              | R -          |
| C1.2.3.11                    | Other road maintenance work ordered by the Engineer   | prov sum | 1        | R 150 000,00 | R 150 000,00 |
| C1.2.4                       | <b>Stakeholder Liaison</b>  |          |          |              |              |
| a)                           | Community Liaison Officer   | month    | 12       |              | R -          |
| b)                           | Project Steering Committee (Travel and Subsistence Costs)   | prov sum | 1        | R 60 000,00  | R 60 000,00  |
| c)                           | Contractor's handling costs, profit and all other charges in respect of item C1.2.4 (b) above   | %        | R 60 000 |              | R -          |
| C1.2.5                       | <b>Safety</b>   |          |          |              |              |
| C1.2.5.1                     | Health and safety plan  | lump sum | 1        |              | R -          |
| C1.2.5.2                     | Implementation of health and safety plan  | month    | 12       |              | R -          |
| C1.2.8                       | <b>Dayworks:</b>  |          |          |              |              |
| C1.2.8.1                     | Personnel:  |          |          |              |              |
| (a)                          | Unskilled labourer  | hour     | 210      |              | R -          |
| (b)                          | Semi-skilled labourer   | hour     | 80       |              | R -          |
| (c)                          | Skilled labourer  | hour     | 30       |              | R -          |
| (d)                          | Gang leader   | hour     | 20       |              | R -          |
| (e)                          | Foreman   | hour     | 30       |              | R -          |
| C1.2.8.2                     | Construction equipment (specify size and / or model number):  |          |          |              |              |
| (e)                          | Tractor loader backhoe  | hour     | 20       |              | R -          |
| (h)                          | Loader (0,5m <sup>3</sup> bucket)   | hour     | 20       |              | R -          |
| (i)                          | Walk behind roller (BOMAG BW90)   | hour     | 20       |              | R -          |
| (j)                          | Water truck (9000l)   | hour     | 20       |              | R -          |
| (k)                          | 6m <sup>3</sup> Tipper truck  | hour     | 20       |              | R -          |
| (l)                          | 10m <sup>3</sup> Tipper truck   | hour     | 20       |              | R -          |
| <b>TOTAL CARRIED FORWARD</b> |   |          |          |              | <b>R -</b>   |

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| ITEM                                    | DESCRIPTION   | UNIT       | QUANTITY  | RATE         | AMOUNT       |
|---|---|------------|-----------|--------------|--------------|
| <b>TOTAL BROUGHT FORWARD</b>            |   |            |           |              | R -          |
| C1.2.8.3                                | Vehicles):  |            |           |              |              |
| (a)                                     | Light delivery vehicle (1 tonne)  | km         | 100       |              | R -          |
| (b)                                     | Flatbed truck   | km         | 100       |              | R -          |
| (c)                                     | Lowbed truck max (30 tonne)   | km         | 100       |              | R -          |
| C1.2.8.4                                | Materials:  |            |           |              |              |
| (a)                                     | Procurement of materials  | Prov. Sum  | 1         | R 100 000,00 | R 100 000,00 |
| (b)                                     | Contractor's handling costs, profit and all other charges in respect of item C1.2.8.4(a)                      | %          | R 100 000 |              | R -          |
| <b>BC1.2.10</b>                         | <b>Training:</b>  |            |           |              |              |
| (a)                                     | CETA accredited training (Generic/Life Skills, Entrepreneural/Business Skills, Technical/Construction Skills) | Prov Sum   | 1         | R 350 000,00 | R 350 000,00 |
| (b)                                     | Contractor's handling cost, profit and all other charges in terms of item BC1.2.10 above                      | %          | R 350 000 |              | R -          |
| BC1.2.10.1                              | Wages for targeted labour while attending accredited training course  | Person-day | 150       |              | R -          |
| BC1.2.10.2                              | Provision of training venue facility ( Including transport of learners to and from the training venue)        | L Sum      | 1         |              | R -          |
| <b>TOTAL CARRIED FORWARD TO SUMMARY</b> |   |            |           |              | R -          |

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C1.3 CONTRACTOR'S SITE ESTABLISHMENT AND GENERAL OBLIGATIONS

| ITEM                                    | DESCRIPTION  | UNIT           | QUANTITY | RATE | AMOUNT |
|---|--|----------------|----------|------|--------|
| C1.3                                    | <b>CONTRACTOR'S SITE ESTABLISHMENT AND GENERAL OBLIGATIONS</b> |                |          |      |        |
| C1.3.1                                  | <b>The Contractor's general obligations:</b>                   |                |          |      |        |
| C1.3.1.1                                | Fixed obligations  | lump sum       | 1        |      | R -    |
| C1.3.1.2                                | Value-related obligations                                      | lump sum       | 1        |      | R -    |
| C1.3.1.3                                | Time-related obligations                                       |                |          |      |        |
|   | (b) Execution of the works                                     | month          | 12       |      | R -    |
| C1.3.2                                  | <b>Contract sign boards</b>                                    | m <sup>2</sup> | 24       |      | R -    |
| <b>TOTAL CARRIED FORWARD TO SUMMARY</b> |  |                |          |      | R -    |

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C1.4 FACILITIES FOR THE ENGINEER

| ITEM                         | DESCRIPTION  | UNIT           | QUANTITY     | RATE         | AMOUNT       |
|------------------------------|--|----------------|--------------|--------------|--------------|
| C1.4                         | <b>FACILITIES FOR THE ENGINEER</b>   |                |              |              |              |
| C1.4.1                       | <b>Site accommodation:</b>   |                |              |              |              |
| C1.4.1.1                     | Offices and conference room  | m <sup>2</sup> | 30           |              | R -          |
| C1.4.1.6                     | Car ports  | No.            | 4            |              | R -          |
| C1.4.1.7                     | Ablution unit (equipped as specified)  | No.            | 2            |              | R -          |
| C1.4.1.13                    | Rented housing paid for by the Contractor  | prov sum       | 1            | R 150 000,00 | R 150 000,00 |
| C1.4.1.14                    | Contractor's handling costs, profit and all other charges in respect of item C1.4.1.13 | %              | R 150 000,00 |              | R -          |
| C1.4.2                       | <b>Items measured by area:</b>   |                |              |              |              |
| C1.4.2.6                     | Roller blinds, opaque type   | m <sup>2</sup> | 10           |              | R -          |
| C1.4.3                       | <b>Items measured by number:</b>   |                |              |              |              |
| C1.4.3.1                     | Office swivel chair  | No.            | 4            |              | R -          |
| C1.4.3.2                     | Office chair   | No.            | 16           |              | R -          |
| C1.4.3.5                     | Office desk with 3 drawers (at least one lockable drawer)                              | No.            | 2            |              | R -          |
| C1.4.3.8                     | Conference table   | No.            | 1            |              | R -          |
| C1.4.3.10                    | Filing cabinet   | No.            | 1            |              | R -          |
| C1.4.3.13                    | 220 / 250 volt power outlet plug point   | No.            |              |              | Rate Only    |
| C1.4.3.16                    | Single 1 500 mm, 22 watt LED tube ceiling light  | No.            |              |              | Rate Only    |
| C1.4.3.17                    | 11 watt compact fluorescent bulb ceiling light   | No.            |              |              | Rate Only    |
| C1.4.3.19                    | Wash-hand basin  | No.            | 1            |              | R -          |
| C1.4.3.23                    | Fire extinguisher 9,0 kg, dry powder type  | No.            | 4            |              | R -          |
| C1.4.3.24                    | Air-conditioning unit  | No.            | 2            |              | R -          |
| C1.4.3.29                    | A3 / A4 colour printer, copier, scanner  | No.            | 2            |              | R -          |
| C1.4.3.31                    | Rain gauge   | No.            | 1            |              | R -          |
| <b>Total Carried Forward</b> |  |                |              |              | R -          |

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C1.4 FACILITIES FOR THE ENGINEER

| Item                                    | Description   | Unit  | Quantity | Rate        | Amount (Rand)           |
|---|---|---|----------|-------------|-------------------------|
| <b>Brought Forward</b>                  |   |   |          |             | R -                     |
|   | C1.4.3.35   | 3,0 m aluminium straight edge complete with two measuring wedges  | No.      |             | Rate Only               |
|   | C1.4.3.36   | Measuring wheel   | No.      | 2           | R -                     |
|   | C1.4.3.37   | First aid kit   | No.      | 1           | R -                     |
| <b>C1.4.4</b>                           | <b>Prime cost items:</b>  |   |          |             |                         |
|   | C1.4.4.9  | The provision of a complete 220 / 250 volt single phase electrical power installation, including all poles, insulators, wiring, switchboards, mains connections, meters, etc. | PC Sum   | 1           | R 50 000,00 R 50 000,00 |
|   | C1.4.4.10   | Handling costs and profit in respect of item C1.4.4.9   | %        | R 50 000,00 | R -                     |
| <b>C1.4.5</b>                           | <b>Services at site offices, laboratories and site accommodation:</b> |   |          |             |                         |
|   | C1.4.5.1  | Fixed costs   | lump sum | 1           | R -                     |
|   | C1.4.5.2  | Running costs   | month    | 12          | R -                     |
| <b>Total Carried Forward To Summary</b> |   |   |          |             | R -                     |

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C1.5 ACCOMMODATION OF TRAFFIC

| ITEM                                    | DESCRIPTION  | UNIT      | QUANTITY    | RATE        | AMOUNT      |
|---|--|-----------|-------------|-------------|-------------|
| C1.5                                    | <b>ACCOMMODATION OF TRAFFIC</b>  |           |             |             |             |
| C1.5.1                                  | <b>Accommodation of pedestrian and non-motorised traffic:</b>  |           |             |             |             |
| C1.5.2                                  | <b>Accommodation of vehicular traffic</b>  | month     | 12          | R           | -           |
| C1.5.3                                  | <b>Liaison with traffic authorities</b>  | month     | 12          | R           | -           |
| C1.5.5                                  | <b>Maintenance of temporary deviations:</b>  |           |             |             |             |
| C1.5.5.9                                | Grading of temporary deviations and existing roads used as detours                                     | km        | 1,40        | R           | -           |
| C1.5/C5.1.1.1                           | Compaction of in-situ material to 90 % of MDD  | m         | 1500        | R           | -           |
| C1.5.5.10                               | Watering of temporary deviations and existing roads used as detours                                    | kt        | 500         | R           | -           |
| C1.5.6                                  | Removal of temporary deviations  | km        | 1,40        | R           | -           |
| C1.5.7                                  | <b>Temporary traffic control facilities:</b>   |           |             |             |             |
| C1.5.7.1                                | Delineators including mounting bases and ballast:  |           |             |             |             |
|   | (a) Single sided, reversible left or right (1000 mm x 250 mm)  | No.       | 150         | R           | -           |
|   | (b) Double sided, reversible left or right (1000 mm x 250 mm)  | No.       | 150         | R           | -           |
| C1.5.7.2                                | Traffic cones, minimum height 750 mm   | No.       | 25          | R           | -           |
| C1.5.7.3                                | Flagmen  | man-shift | 600         | R           | -           |
| C1.5.7.7                                | <b>Traffic calming devices:</b>  |           |             |             |             |
|   | (a) 25mm high x 100mm wide asphalt rumble strips   | m         |             |             | Rate Only   |
|   | (b) 50mm high x 500m wide asphalt rumble strips  | m         |             |             | Rate Only   |
|   | (c) 120mm high x 3m wide asphalt speed control bed/humps including road signs and markings as per DRG: | No        |             |             | Rate Only   |
| C1.5.11                                 | <b>Provision of safety equipment for visitors</b>  |           |             |             |             |
| C1.5.11.1                               | Provision of reflective safety vests for visitors  | No.       | 15          | R           | -           |
| C1.5.12                                 | <b>Additional traffic accommodation facilities ordered by the Engineer:</b>                            |           |             |             |             |
| C1.5.12.1                               | Provision of additional traffic accommodation facilities   | Prov. Sum | 1,0         | R 50 000,00 | R 50 000,00 |
| C1.5.12.2                               | Handling cost, profit and all other charges in respect of item C1.5.12.1                               | %         | R 50 000,00 |             | R -         |
| <b>Total Carried Forward To Summary</b> |  |           |             |             | <b>R -</b>  |

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**C1.6 CLEARING AND GRUBBING**

| ITEM                                    | DESCRIPTION   | UNIT         | QUANTITY | RATE | AMOUNT    |
|---|---|--------------|----------|------|-----------|
| <b>C1.6</b>                             | <b>CLEARING AND GRUBBING</b>                                |              |          |      |           |
| <b>C1.6.1</b>                           | <b>Clearing:</b>  |              |          |      |           |
| C1.6.1.1                                | Clearing with machines and some hand labour where necessary | ha           | 1,7      | R    | -         |
| <b>C1.6.2</b>                           | <b>Grubbing:</b>  |              |          |      |           |
| C1.6.2.1                                | Grubbing with machines and some hand labour where necessary | ha           | 1,0      | R    | -         |
| <b>C1.6.3</b>                           | <b>Removal and grubbing of large trees and tree stumps:</b> |              |          |      |           |
| C1.6.3.1                                | Girth equal to or exceeding 1,0 m up to and including 2,0 m | No.          | 3        | R    | -         |
| C1.6.3.2                                | Girth exceeding 2,0 m up to and including 3,0 m             | No.          |          |      | Rate Only |
| C1.6.3.3                                | Girth exceeding 3,0 m                                       | No.          |          |      | Rate Only |
| <b>C1.6.7</b>                           | <b>Re-clearing of previously cleared areas</b>              | hectare (ha) | 1        | R    | -         |
| <b>Total Carried Forward To Summary</b> |   |              |          |      | R -       |

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**C1.7 LOADING AND HAULING**

| ITEM                                    | DESCRIPTION  | UNIT               | QUANTITY | RATE | AMOUNT     |
|---|--|--------------------|----------|------|------------|
| <b>C1.7</b>                             | <b>LOADING AND HAULING</b>   |                    |          |      |            |
| <b>C1.7.1</b>                           | <b>Loading</b>   |                    |          |      |            |
| C1.7.1.1                                | Loading from stockpile using machines and some hand labour where necessary               | m <sup>3</sup>     | 1 500    | R    | -          |
| <b>C1.7.2</b>                           | <b>Hauling</b>   |                    |          |      |            |
| C1.7.2.2                                | Hauling material to spoil and off-loading it at a designated spoil or stockpile area:    |                    |          |      |            |
| (a)                                     | Cleared and grubbed material (organic matter and all other unsuitable or waste material) | m <sup>3</sup> -km | 14 000   | R    | -          |
| (b)                                     | Soil and gravel material obtained from stockpiles including borrow pit.                  | m <sup>3</sup> -km | 50 000   | R    | -          |
| (c)                                     | Boulders, hard material and concrete   | m <sup>3</sup> -km |          |      | Rate Only  |
| <b>Total Carried Forward To Summary</b> |  |                    |          |      | <b>R -</b> |

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C2.1 GENERAL REQUIREMENTS AND TRENCHING FOR SERVICES

| ITEM                         | DESCRIPTION   | UNIT           | QUANTITY | RATE         | AMOUNT       |
|------------------------------|---|----------------|----------|--------------|--------------|
| <b>C2.1</b>                  | <b>GENERAL REQUIREMENTS AND TRENCHING FOR SERVICES</b>  |                |          |              |              |
| <b>C2.1.1</b>                | <b>Location, identification, protection and relocation of existing services:</b>                    |                |          |              |              |
| C2.1.1.1                     | Contractor's obligations  | lump sum       | 1,0      |              | R -          |
| C2.1.1.4                     | Permanent services relocation or protection work by the Contractor                                  | Prov. Sum      | 1        | R 500 000,00 | R 500 000,00 |
| <b>C2.1.2</b>                | <b>Existing services location, detection and verification:</b>                                      |                |          |              |              |
| C2.1.2.5                     | Using hand excavation to locate, expose and verify services   | m <sup>3</sup> | 50       |              | R -          |
| <b>C2.1.6</b>                | <b>Trench excavation (in soft material)</b>   |                |          |              |              |
| C2.1.6.1                     | Trenches up to 1,0m wide  |                |          |              |              |
|                              | (a) Up to 1,0m deep   | m <sup>3</sup> | 22       |              | R -          |
|                              | (b) Over 1,0m and up to 2,0m deep   | m <sup>3</sup> | 15       |              | R -          |
| <b>C2.1.7</b>                | <b>Extra over items C2.1.6 for excavating in:</b>   |                |          |              |              |
| C2.1.7.1                     | Hard material irrespective of depth   | m <sup>3</sup> | 8        |              | R -          |
| <b>C2.1.19</b>               | <b>Dealing with water during services work:</b>   |                |          |              |              |
| C2.1.19.1                    | Dealing with surface water  | lump sum       | 1        |              | R -          |
| C2.1.19.2                    | Dealing with subsurface water   | lump sum       | 1        |              | R -          |
| <b>C2.1.27</b>               | <b>Demolition of existing manholes, access chambers and other service structures consisting of:</b> |                |          |              |              |
| C2.1.27.1                    | Unreinforced concrete   | m <sup>3</sup> | 5        |              | R -          |
| C2.1.27.2                    | Reinforced concrete   | m <sup>3</sup> | 12       |              | R -          |
| <b>Total Carried Forward</b> |   |                |          |              | <b>R -</b>   |

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C3.1 DRAINS

| ITEM                         | DESCRIPTION  | UNIT           | QUANTITY | RATE | AMOUNT    |
|------------------------------|--|----------------|----------|------|-----------|
| <b>C3.1</b>                  | <b>DRAINS</b>  |                |          |      |           |
| <b>C3.1.1</b>                | <b>Excavation for open drains:</b>   |                |          |      |           |
| C3.1.1.1                     | Excavating all material situated within the following depth ranges below the surface level using conventional methods: |                |          |      |           |
| (a)                          | 0 m to 1,5 m   | m <sup>3</sup> | 300      | R    | -         |
| C3.1.1.2                     | Extra over sub-item C3.1.1.1 for excavation in hard and boulder material irrespective of depth                         | m <sup>3</sup> | 30       | R    | -         |
| <b>C3.1.2</b>                | <b>Clearing, shaping and disposal of accumulated sediment in existing unlined open drains:</b>                         |                |          |      |           |
| C3.1.2.1                     | Using conventional methods   | m <sup>3</sup> |          |      | Rate Only |
| C3.1.2.2                     | Using labour enhanced construction methods   | m <sup>3</sup> |          |      | Rate Only |
| <b>C3.1.4</b>                | <b>Excavation and disposal of material for subsoil drainage systems:</b>   |                |          |      |           |
| C3.1.4.1                     | Excavating in all material situated within the following depth ranges below the surface:                               |                |          |      |           |
| (a)                          | 0 m to 1,5 m   | m <sup>3</sup> | 375      | R    | -         |
| C3.1.4.4                     | Extra over sub-item C3.1.4.1 for excavation in hard and boulder material, irrespective of depth                        | m <sup>3</sup> | 113      | R    | -         |
| C3.1.4.5                     | Extra over sub-item C3.1.4.1 for excavation through stabilised existing road layers                                    | m <sup>3</sup> |          |      | Rate Only |
| <b>C3.1.5</b>                | <b>Impermeable backfilling to subsoil drainage systems:</b>  |                |          |      |           |
| C3.1.5.1                     | Un-stabilised natural gravel obtained from approved sources on the site  | m <sup>3</sup> | 165      | R    | -         |
| C3.1.5.2                     | G5 material obtained from commercial sources   | m <sup>3</sup> |          |      | Rate Only |
| <b>C3.1.7</b>                | <b>Natural permeable material in subsoil drainage systems (approved crushed stone):</b>                                |                |          |      |           |
| C3.1.7.2                     | Crushed stone obtained from commercial sources (Coarse grade - 20mm stone)   | m <sup>3</sup> | 135      | R    | -         |
| <b>C3.1.8</b>                | <b>Natural permeable material in subsoil drainage systems (approved natural sand):</b>                                 |                |          |      |           |
| C3.1.8.2                     | Natural sand from commercial sources (Coarse grade 4.75mm)   | m <sup>3</sup> | 60       | R    | -         |
| <b>Total Carried Forward</b> |  |                |          |      | R -       |

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C3.1 DRAINS

| Item                                    | Description   | Unit               | Quantity | Rate | Amount (Rand) |
|---|---|--------------------|----------|------|---------------|
| <b>Brought Forward</b>                  |   |                    |          |      | R -           |
| <b>C3.1.9</b>                           | <b>Pipes in subsoil drainage systems:</b>   |                    |          |      |               |
| C3.1.9.1                                | U-PVC pipes and fittings, normal duty, complete with couplings (160mm diameter, perforated)   | m                  | 1250     |      | R -           |
| <b>C3.1.11</b>                          | <b>Geotextiles (Kaymat Grade U24 or similar approved)</b>   | m <sup>2</sup>     | 2125     |      | R -           |
| <b>C3.1.10</b>                          | <b>Polymer film sheeting or similar approved material, for lining subsoil drainage systems:</b>   |                    |          |      |               |
| C3.1.10.2                               | 0,25 mm thick   | m <sup>2</sup>     |          |      | Rate Only     |
| <b>C3.1.13</b>                          | <b>Concrete outlet structures, manhole boxes, junction boxes and cleaning eyes for subsoil drainage systems:</b>                                  |                    |          |      |               |
| C3.1.13.1                               | Outlet structures   | No.                | 5        |      | R -           |
| C3.1.13.2                               | Inspection boxes  | No.                | 5        |      | R -           |
| C3.1.13.3                               | Junction boxes  | No.                | 5        |      | R -           |
| C3.1.13.4                               | Cleaning eyes   | No.                | 6        |      | R -           |
| <b>C3.1.14</b>                          | <b>Caps for subsoil drain pipes:</b>  |                    |          |      |               |
| C3.1.14.1                               | Concrete caps   | No.                | 5        |      | R -           |
| <b>C3.1.16</b>                          | <b>Loading and hauling of material in excess of 1.0km</b>   | m <sup>3</sup> -km | 2100     |      | R -           |
| <b>C3.1.17</b>                          | <b>Backfilling existing eroded side drains</b>  | m <sup>3</sup>     | 300      |      | R -           |
| <b>C3.1.18</b>                          | <b>Backfilling of drains with selected material compacted to 93 % of MDD prior to construction of concrete lining and/or stone pitched lining</b> | m <sup>3</sup>     | 200      |      | R -           |
| <b>C3.1.22</b>                          | <b>Test flushing of subsoil drain pipe systems</b>  | No.                | 5        |      | R -           |
| <b>C3.1.23</b>                          | <b>Subsoil drain outlet marke</b>   | No.                | 20       |      | R -           |
| <b>Total Carried Forward To Summary</b> |   |                    |          |      | R -           |

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**C3.2 CULVERTS**

| ITEM                         | DESCRIPTION   | UNIT           | QUANTITY | RATE | AMOUNT    |
|------------------------------|---|----------------|----------|------|-----------|
| <b>C3.2</b>                  | <b>CULVERTS</b>   |                |          |      |           |
| <b>C3.2.1</b>                | <b>Excavation for culvert structures:</b>   |                |          |      |           |
| C3.2.1.1                     | Excavating in all material situated within the following depth ranges below the surface level:  |                |          |      |           |
| (a)                          | 0 m to 1,5 m  | m <sup>3</sup> | 2630     | R    | -         |
| (b)                          | Exceeding 1,5 m and up to 3,0 m   | m <sup>3</sup> | 350      | R    | -         |
| C3.2.1.4                     | Extra over sub-item C3.2.1.1 for excavation in hard or boulder material, irrespective of depth  | m <sup>3</sup> | 387      | R    | -         |
| <b>C3.2.2</b>                | <b>Backfilling:</b>   |                |          |      |           |
| C3.2.2.1                     | Using the excavated material  | m <sup>3</sup> | 2189     | R    | -         |
| C3.2.2.2                     | Using imported selected material:   |                |          |      |           |
| (a)                          | From commercial sources (G6 gravel material)  | m <sup>3</sup> | 842      | R    | -         |
| C3.2.2.3                     | Extra over sub-items C3.2.2.1 and C3.2.2.2 for soil cement backfilling:   |                |          |      |           |
| (b)                          | With dry mixture ( CEM II (32,5N ) of 3 % cement  | m <sup>3</sup> | 91       | R    | -         |
| <b>C3.2.3</b>                | <b>Concrete pipe culverts:</b>  |                |          |      |           |
| C3.2.3.2                     | On Class B bedding (100D, Interlocking Joints)  |                |          |      |           |
| (a)                          | 600mm Diameter  | m              | 100      | R    | -         |
| (b)                          | 750mm Diameter  | m              | 900      | R    | -         |
| (c)                          | 900mm Diameter  | m              |          |      | Rate Only |
| <b>C3.2.5</b>                | <b>Rectangular culverts with prefabricated elements:</b>  |                |          |      |           |
| C3.2.5.1                     | Prefabricated portal culverts; wall and roof combination (1200mm x 1200mm Class 150S)   | m              | 50       | R    | -         |
| <b>C3.2.7</b>                | <b>Cast-in-situ concrete and formwork:</b>  |                |          |      |           |
| C3.2.7.1                     | In Class A bedding, screeds, concrete backfill and the encasing for pipes, including formwork (Class 15/19 concrete)  | m <sup>3</sup> | 70       | R    | -         |
| C3.2.7.2                     | In complete in situ floor slabs for rectangular culverts, manholes and catchpits including formwork, joints and Class U2 surface finish (Class 30/20) (installed at a standard depth of 1,0m) | m <sup>3</sup> | 70       | R    | -         |
| <b>Total Carried Forward</b> |   |                |          |      | R -       |

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C3.2 CULVERTS

| Item                                    | Description  | Unit  | Quantity | Rate | Amount (Rand) |
|---|--|-------|----------|------|---------------|
| <b>Brought Forward</b>                  |  |       |          |      | R -           |
| C3.2.7.5                                | In inlet and outlet structures including kerbs, chutes and downpipes, skewed ends, catchpits, manholes, thrust and anchor blocks, excluding formwork but including Class U2 surfacing finish (Class 30/20) | m³    | 160      |      | R -           |
| C3.2.7.6                                | Formwork of concrete under items C3.2.7.3 to 5 above (Class F1 surface finish)   | m²    | 1600     |      | R -           |
| <b>C3.2.8</b>                           | <b>Concrete backfill or encasement for culverts</b>  |       |          |      |               |
| C3.2.8.1                                | Class 15/20 concrete   | m³    | 50       |      | R -           |
| <b>C3.2.10</b>                          | <b>Reinforcement:</b>  |       |          |      |               |
| C3.2.10.1                               | Mild steel bars  | t     | 0,50     |      | R -           |
| C3.2.10.2                               | High-tensile steel bars  | t     | 50,00    |      | R -           |
| C3.2.10.3                               | Welded steel fabric  |       |          |      |               |
| (a)                                     | Mesh Ref 617   | kg    | 100      |      | R -           |
| <b>C3.2.12</b>                          | <b>Demolition of concrete members or elements:</b>   |       |          |      |               |
| C3.2.12.1                               | Full member or element   | m³    | 60       |      | R -           |
| <b>C3.2.13</b>                          | <b>Removing and re-laying existing culverts:</b>   |       |          |      |               |
| C3.2.13.1                               | Removing and stacking existing culverts for re-use   | m     | 22       |      | R -           |
| (a)                                     | 750mm diameter concrete  | m     | 80       |      | R -           |
| (b)                                     | 900mm diameter concrete  | m     | 80       |      | R -           |
| <b>C3.2.15</b>                          | <b>Manholes and catch pits, with prefabricated elements</b>  |       |          |      |               |
| C3.2.15.1                               | Prefabricated floors (installed at a standard depth of 1,5 m):   |       |          |      |               |
| (a)                                     | 1 050mm dia. Manhole complete  | No.   | 15       |      | R -           |
| (b)                                     | Catchpits  |       |          |      |               |
| i)                                      | Double grid (Kerb Inlet)   | No.   | 25       |      | R -           |
| ii)                                     | 6.0m Side inlet  | No.   | 10       |      | R -           |
| <b>C3.2.16</b>                          | <b>Brickwork (Engineering bricks):</b>   |       |          |      |               |
| C3.2.16.2                               | 230mm thick  | m²    |          |      | Rate Only     |
| C3.2.16.3                               | 345mm thick  | m²    |          |      | Rate Only     |
| <b>C3.2.18</b>                          | <b>Benching</b>  |       |          |      |               |
|   |  | m³    | 15       |      | R -           |
| <b>BC3.2.28</b>                         | <b>Overhaul on excavated material carted to spoil.</b>   | m³-km | 19 775   |      | R -           |
| <b>BC3.2.29</b>                         | <b>Pre-cast concrete in Inlet and Outlet Structures</b>  |       |          |      |               |
| (a)                                     | 1x750mm dia. Pipes in Outlet Structure Complete  | No.   | 6        |      | R -           |
| (b)                                     | 1x600mm dia. Pipes in Outlet Structure Complete  | No.   | 4        |      | R -           |
| <b>Total Carried Forward To Summary</b> |  |       |          |      | <b>R -</b>    |

| ITEM                                    | DESCRIPTION  | UNIT           | QUANTITY | RATE | AMOUNT    |   |
|---|--|----------------|----------|------|-----------|---|
| C3.3                                    | CONCRETE KERBING AND CHANNELLING, ASPHALT BERMS, CHUTES, DOWNPIPES, CONCRETE, STONE PITCHED AND GABION LININGS FOR OPEN DRAINS |                |          |      |           |   |
| C3.3.1                                  | <b>Concrete kerbing:</b>   |                |          |      |           |   |
| C3.3.1.1                                | Prefabricated kerbing (as per drawing No. 041/SHI/R1213)   |                |          |      |           |   |
|   | (a) Figure 12 pre cast kerb, edge restraint for paving blocks  | m              | 550      | R    | -         |   |
|   | (b) 150 mm x 100 mm cast in-situ class 30/20 concrete edge beam as shown on the detailed drawings.                             | m              | 550      | R    | -         |   |
|   | (c) Prefabricated mountable kerb, SABS 927 Fig 8C  | m              |          |      | Rate Only |   |
| C3.3.2                                  | <b>Concrete kerbing-channeling combination:</b>  |                |          |      |           |   |
| C3.3.2.1                                | Prefabricated kerbing-channeling (Class 30/20)   |                |          |      |           |   |
|   | (a) Prefabricated battered kerb, SABS 927 Fig 8C, with 300 mm wide cast in-situ class 30/20 concrete channel                   | m              | 2300     | R    | -         |   |
|   | (b) Prefabricated battered kerb, SABS 927 Fig 7, with 300 mm wide cast in-situ class 30/20 concrete channel                    | m              | 450      | R    | -         |   |
| C3.3.3                                  | <b>Extra over items C3.3.1 and C3.3.2 for concrete kerbing or concrete kerbing and channeling on curves:</b>                   |                |          |      |           |   |
| C3.3.3.1                                | On curves of radii more than or equal to 5,0m but less than 20m  | m              | 500      | R    | -         |   |
| C3.3.3.2                                | On curves with radii more than or equal to 1,0 m but less than 5,0 m   | m              |          |      | Rate Only |   |
| C3.3.3.3                                | On curves with radii less than 1,0 m   | m              |          |      | Rate Only |   |
| C3.3.4                                  | <b>Extra over item C3.3.2 for drop kerbs at pedestrian crossings and driveways</b>   | m              | 50       | R    | -         |   |
| C3.3.7                                  | <b>Cast in-situ concrete chutes (measured by components)</b>   |                |          |      |           |   |
| C3.3.7.1                                | Concrete (C30/20 class concrete)   | m <sup>3</sup> | 25       | R    | -         |   |
| C3.3.7.2                                | Formwork (U2 surface finish)   | m <sup>2</sup> | 20       | R    | -         |   |
| BC3.3.7.3                               | Transition mountable kerb SABS 927 Fig 8C class C30/20 concrete complete with joints (2m long)                                 | No.            | 30       | R    | -         |   |
| C3.3.8                                  | <b>Linings for open drains:</b>  |                |          |      |           |   |
| C3.3.8.1                                | Cast in situ concrete lining (Class 30/20 concrete)  |                |          |      |           |   |
|   | (a) Type F V-drain (1.2m wide)   | m <sup>3</sup> | 50       | R    | -         |   |
|   | (b) Property access slabs Type C   | m <sup>3</sup> | 20       | R    | -         |   |
| C3.3.8.2                                | Class U2 surface finish to cast in situ concrete   |                |          |      |           |   |
|   | (a) Type F V-drain (1.2m wide)   | m <sup>2</sup> | 300      | R    | -         |   |
|   | (b) Property access slabs Type C   | m <sup>2</sup> | 150      | R    | -         |   |
| C3.3.9                                  | <b>Formwork to cast-in-situ concrete lining for open drains (Class F2 surface finish):</b>                                     |                |          |      |           |   |
| C3.3.9.2                                | To sides with formwork on both internal and external faces (each face measured)  | m <sup>2</sup> | 60       | R    | -         |   |
| C3.3.9.3                                | To ends of slabs   | m <sup>2</sup> | 25       | R    | -         |   |
| C3.3.10                                 | <b>Sealed joints in concrete and stone pitched linings of open drains (description of each type with reference to drawing)</b> | m              | 750      | R    | -         |   |
| C3.3.12                                 | <b>Reinforcement:</b>  |                |          |      |           |   |
| C3.3.12.3                               | Welded steel fabric (Ref. no 245)  | kg             | 5 000    | R    | -         |   |
| C3.3.13                                 | <b>Polymer film sheeting ( 0,15 mm thick ) for concrete-lined open drains</b>  | m <sup>2</sup> | 500      | R    | -         |   |
| C3.3.14                                 | <b>Cutting bituminous surfacing and pavement layers for concrete kerbing, channeling or concrete-lined drains</b>              | m              | 50       | R    | -         |   |
| C3.3.15                                 | <b>Energy dissipaters in outlet structures</b>   |                |          |      |           |   |
| C3.3.15.1                               | Precast concrete blocks in outlet structures   | No.            | 20       | R    | -         |   |
| <b>Total Carried Forward To Summary</b> |  |                |          |      | R         | - |

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C4.1 BORROW MATERIALS

| ITEM                                    | DESCRIPTION   | UNIT     | QUANTITY     | RATE         | AMOUNT       |
|---|---|----------|--------------|--------------|--------------|
| C4.1                                    | <b>BORROW MATERIALS</b>   |          |              |              |              |
| C4.1.4                                  | <b>Removing of the overburden:</b>  |          |              |              |              |
| C4.1.4.1                                | In borrow pits  | m³       | 2500         |              | R -          |
| C4.1.5                                  | <b>Excavating of materials in the borrow pits and quarries, material obtained from</b>                              |          |              |              |              |
| C4.1.5.1                                | Soft excavation   | m³       |              |              | Rate Only    |
| C4.1.5.2                                | Boulder excavation class A  | m³       |              |              | Rate Only    |
| C4.1.5.3                                | Boulder excavation class B  | m³       |              |              | Rate Only    |
| C4.1.12                                 | <b>Stockpiling the material</b>   |          |              |              |              |
| C4.1.12.2                               | Material directly from the excavation   | m³       |              |              | Rate Only    |
| C4.1.15                                 | <b>Shaping and finishing the borrow pit and quarry areas, and the stockpile sites:</b>                              |          |              |              |              |
| C4.1.15.1                               | Shaping and finishing the borrow pit and quarry areas, and the stockpile sites:                                     |          |              |              |              |
|   | (a) Borrow pits (Borrowpit 3.35Km from site: 25° 18' 52.98" S, 31° 08' 17.17" E)                                    | hectare  | 1            |              | R -          |
| C4.1.18                                 | <b>Compensation to landowners or legal occupants in respect of land acquisition, royalties and/or loss of crops</b> |          |              |              |              |
| C4.1.18.1                               | Amount allowed, expenditure to be approved or instructed by the Employer  | Prov Sum | 1            | R 100 000,00 | R 100 000,00 |
| C4.1.18.2                               | Handling costs and profit in respect of item C4.1.18.1  | %        | R 100 000,00 |              | R -          |
| <b>Total Carried Forward To Summary</b> |   |          |              |              | R -          |

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**C4.2 CUT MATERIALS**

| ITEM                                    |          | DESCRIPTION  | UNIT           | QUANTITY | RATE | AMOUNT |
|---|----------|--|----------------|----------|------|--------|
| <b>C4.2</b>                             |          | <b>CUT MATERIALS</b>   |                |          |      |        |
| <b>C4.2.4</b>                           |          | <b>Excavating of materials in box cuts, material obtained from</b> |                |          |      |        |
|   | C4.2.4.1 | Soft excavation  | m <sup>3</sup> | 3700     | R    | -      |
|   | C4.2.4.2 | Boulder Excavation class A   | m <sup>3</sup> | 50       | R    | -      |
|   | C4.2.4.3 | Boulder Excavation class B   | m <sup>3</sup> | 50       | R    | -      |
|   | C4.2.4.4 | Hard excavation (other than by blasting)                           | m <sup>3</sup> | 300      | R    | -      |
|   | C4.2.4.5 | Hard excavation (by blasting)                                      | m <sup>3</sup> | 250      | R    | -      |
| <b>C4.2.11</b>                          |          | <b>Breaking down oversize material</b>                             | m <sup>3</sup> | 500      | R    | -      |
| <b>Total Carried Forward To Summary</b> |          |  |                |          |      | R -    |

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C4.3 EXISTING ROAD MATERIALS

| ITEM                                    |           | DESCRIPTION  | UNIT           | QUANTITY | RATE | AMOUNT |
|---|-----------|--|----------------|----------|------|--------|
| C4.3                                    |           | <b>EXISTING ROAD MATERIALS</b>                               |                |          |      |        |
| C4.3.15                                 |           | <b>Stockpiling of road layer materials</b>                   |                |          |      |        |
|   | C4.3.15.1 | Natural gravel material and with or without asphalt material | m <sup>3</sup> | 2700     |      | R -    |
| <b>Total Carried Forward To Summary</b> |           |  |                |          |      | R -    |

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**C4.4 COMMERCIAL MATERIALS**

| ITEM                                    | DESCRIPTION   | UNIT           | QUANTITY | RATE | AMOUNT     |
|---|---|----------------|----------|------|------------|
| C4.4                                    | <b>COMMERCIAL MATERIALS</b>   |                |          |      |            |
| C4.4.2                                  | <b>Commercial materials identified by the Contractor from commercial, private or other non-commercial suppliers</b> |                |          |      |            |
| C4.4.2.1                                | Pavement layer material:  |                |          |      |            |
|   | (a) Type G1 material  | m <sup>3</sup> |          |      | Rate Only  |
|   | (b) Type G2 material  | m <sup>3</sup> |          |      | Rate Only  |
|   | (c) Type G5/G6 material   | m <sup>3</sup> | 3800     | R    | -          |
|   | (d) Type G7 material  | m <sup>3</sup> | 1950     | R    | -          |
| <b>Total Carried Forward To Summary</b> |   |                |          |      | <b>R -</b> |

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**C5.1 ROADBED**

| ITEM                                    |          | DESCRIPTION   | UNIT           | QUANTITY | RATE | AMOUNT     |
|---|----------|---|----------------|----------|------|------------|
| C5.1                                    |          | <b>ROADBED</b>  |                |          |      |            |
| C5.1.1                                  |          | <b>Roadbed construction and compaction:</b>                                   |                |          |      |            |
|   | C5.1.1.2 | Compaction of in-situ material to 93 % of MDD                                 | m <sup>3</sup> | 4750     |      | R -        |
| C5.1.3                                  |          | <b>Excavate material to spoil sites designated by the Contractor:</b>         |                |          |      |            |
|   | C5.1.3.1 | Excavate material to spoil from roadbed construction, material obtained from: |                |          |      |            |
|   | (a)      | Soft excavation   | m <sup>3</sup> | 2700     |      | R -        |
| C5.1.13                                 |          | <b>Construction of roadbed comprising a pioneer layer</b>                     | m <sup>3</sup> | 250      |      | R -        |
| <b>Total Carried Forward To Summary</b> |          |   |                |          |      | <b>R -</b> |

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C5.2 FILL

| ITEM                                    | DESCRIPTION   | UNIT           | QUANTITY | RATE | AMOUNT |
|---|---|----------------|----------|------|--------|
| <b>C5.2</b>                             | <b>FILL</b>   |                |          |      |        |
| <b>C5.2.2</b>                           | <b>Fill construction:</b>   |                |          |      |        |
| C5.2.2.1                                | Normal fill material in compacted layer thicknesses of 200mm and less |                |          |      |        |
| (b)                                     | Compacted to 93% of MDD   | m <sup>3</sup> | 1500     | R    | -      |
| C5.2.2.4                                | Rock fill material all as per Clause A5.2.7.6                         | m <sup>3</sup> | 250      | R    | -      |
| <b>C5.2.8</b>                           | <b>Breaking down oversize fill material on the road</b>               |                |          |      |        |
| C5.2.8.1                                | By normal grid rolling as per clause A5.3.7.3b) (i) to (vii)          | m <sup>3</sup> | 250      | R    | -      |
| <b>Total Carried Forward To Summary</b> |   |                |          |      | R -    |

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C5.3 ROAD PAVEMENT LAYERS

| ITEM                                    | DESCRIPTION  | UNIT           | QUANTITY | RATE | AMOUNT |
|---|--|----------------|----------|------|--------|
| C5.3                                    | <b>ROAD PAVEMENT LAYERS</b>  |                |          |      |        |
| C5.3.2                                  | <b>Construction of pavement layers:</b>  |                |          |      |        |
| C5.3.2.1                                | Construction of layers using conventional construction methods:                      |                |          |      |        |
| (b)                                     | Lower selected subgrade layer (150mm thick G6 layer) compacted to 95 % of MDD        | m <sup>3</sup> | 1 900    | R    | -      |
| (h)                                     | Gravel shoulder layer (150mm thick G7 layer) compacted to 95 % of MDD                | m <sup>3</sup> | 3 700    | R    | -      |
| (k)                                     | Upper subbase gravel layer, (150mm thick G6 layer) compacted to 97 % of MDD          | m <sup>3</sup> | 1 900    | R    | -      |
| (n)                                     | Gravel base layer (chemically stabilised), (C3 150mm thick) compacted to 97 % of MDD | m <sup>3</sup> | 1 900    | R    | -      |
| <b>Total Carried Forward To Summary</b> |  |                |          |      | R -    |

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**C5.4 STABILISATION**

| ITEM                                    | DESCRIPTION  | UNIT | QUANTITY | RATE | AMOUNT |
|---|--|------|----------|------|--------|
| C5.4                                    | <b>STABILISATION</b>   |      |          |      |        |
| C5.4.2                                  | <b>Chemical stabilisation:</b>   |      |          |      |        |
| C5.4.2.1                                | Chemical stabilisation (C3-150mm thick) of pavement layers (Gravel Base) | m³   | 1900     | R    | -      |
| C5.4.5                                  | <b>Cementitious stabilisation agents for pavement layers:</b>            |      |          |      |        |
| C5.4.5.1                                | Addition of cementitious stabilisation agents for pavement layers:       |      |          |      |        |
| (a)                                     | Cement ( CEM II (32,5N) or approved                                      | t    | 260      | R    | -      |
| C5.4.10                                 | <b>Provision and application of water for curing</b>                     | kℓ   | 140      | R    | -      |
| <b>Total Carried Forward To Summary</b> |  |      |          |      | R -    |

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C6.2 SEGMENTAL BLOCK PAVING LAYERS

| ITEM                                    | DESCRIPTION  | UNIT   | QUANTITY    | RATE        | AMOUNT      |
|---|--|--------|-------------|-------------|-------------|
| C6.2                                    | <b>CONCRETE AND SEGMENTAL BLOCK PAVING LAYERS</b>  |        |             |             |             |
| C6.2.1                                  | <b>Segmental block paving:</b>   |        |             |             |             |
| C6.2.1.1                                | Concrete block paving (Segmented paving using class 35, Type S-A, 80 mm thick paving blocks laid in a 90° herringbone pattern on a 25 mm thick compacted clean sharp river sand bedding layer, including joint filling with fine approved jointing sand, vibratory compaction, cutting/fitting at edges and obstructions, and finishing to required levels and falls for heavy vehicular road pavement , Grey) | m²     | 10 500      | R           | -           |
| C6.2.1.2                                | Concrete block paving (Segmented paving using class 35, Type S-A, 60 mm thick paving blocks laid in a 90° herringbone pattern on a 25 mm thick compacted clean sharp river sand bedding layer, including joint filling with fine approved jointing sand, vibratory compaction, cutting/fitting at edges and obstructions, and finishing to required levels and falls for heavy vehicular road pavement , Grey) | m²     | 1 200       | R           | -           |
| C6.2.2                                  | <b>Casti-in-situ concrete edge and intermediate beams (250mm x 200mm cast in situ class C30/20 concrete)</b>   | m³     | 65          | R           | -           |
| C6.2.3                                  | <b>Provision and application of approved herbicide and ant poison:</b>   |        |             |             |             |
| C6.2.3.1                                | Provision of materials   | PC Sum | 1           | R 60 000,00 | R 60 000,00 |
| C6.2.3.2                                | Contractor's charges and profit added to the prime cost sum  | %      | R 60 000,00 |             | R -         |
| C6.2.4                                  | <b>Re-sanding of joints in segmental block paving</b>  |        |             |             |             |
| C6.2.4.1                                | Re-sanding of joints in segmental block paving: Concrete block paving (type S-A, and grey 80mm)  | m²     | 8 500       | R           | -           |
| C6.2.4.2                                | PS Construction of speed humps as per drawing  | No.    | 12          | R           | -           |
| <b>Total Carried Forward To Summary</b> |  |        |             |             | R -         |

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C8.1 PRIME COAT

| ITEM                                    |          | DESCRIPTION             | UNIT | QUANTITY | RATE | AMOUNT |
|---|----------|-------------------------|------|----------|------|--------|
| C8.1                                    |          | PRIME COAT              |      |          |      |        |
| C8.1.1                                  |          | Prime coat:             |      |          |      |        |
|   | C8.1.1.2 | MC -30 cut-back bitumen | ℓ    | 9240     |      | R -    |
| <b>Total Carried Forward To Summary</b> |          |                         |      |          |      | R -    |

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C11.1 PITCHING, STONEMWORK, CAST IN SITU CONCRETE FOR PROTECTION AGAINST EROSION

| ITEM                                    | DESCRIPTION   | UNIT       | QUANTITY    | RATE        | AMOUNT      |
|---|---|------------|-------------|-------------|-------------|
| C11.1                                   | <b>PITCHING, STONEMWORK, CAST IN SITU CONCRETE FOR PROTECTION AGAINST EROSION</b>                                     |            |             |             |             |
| C11.1.1                                 | <b>Foundation trenches for stone masonry walls:</b>   |            |             |             |             |
| C11.1.1.1                               | Excavating foundation trenches in soft material using labour enhanced construction methods                            | m³         | 250         |             | R -         |
| C11.1.1.2                               | Excavating foundation trenches in intermediate material using labour enhanced construction methods 0 m to 1,0 m depth | m³         | 25          |             | R -         |
| C11.1.2                                 | <b>Stone pitching:</b>  |            |             |             |             |
| C11.1.2.1                               | Plain stone pitching:   |            |             |             |             |
| (a)                                     | Method 1  | m²         | 250         |             | R -         |
| (b)                                     | Method 2  | m²         |             |             | Rate Only   |
| C11.1.2.2                               | Grouted stone pitching with mortar  | m²         | 250         |             | R -         |
| C11.1.2.3                               | Grouted stone pitching on a concrete bed  | m²         |             |             | Rate Only   |
| C11.1.7                                 | <b>Provision of approved herbicide and ant poison:</b>  |            |             |             |             |
| C11.1.7.1                               | Provision of materials  | Prime Cost | 1           | R 30 000,00 | R 30 000,00 |
| C11.1.7.2                               | Contractor's charges and profit added to the prime cost sum   | %          | R 30 000,00 |             | R -         |
| <b>Total Carried Forward To Summary</b> |   |            |             |             | <b>R -</b>  |

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C11.2 NON-STRUCTURAL GABIONS

| ITEM                                    | DESCRIPTION   | UNIT           | QUANTITY | RATE | AMOUNT |
|---|---|----------------|----------|------|--------|
| C11.2                                   | <b>NON-STRUCTURAL GABIONS</b>   |                |          |      |        |
| C11.2.1                                 | <b>Foundation trench excavation:</b>  |                |          |      |        |
| C11.2.1.1                               | Excavating all material situated within the following depth ranges below the surface level:   |                |          |      |        |
| (a)                                     | 0 m to 1,5 m  | m <sup>3</sup> | 250,0    | R    | -      |
| C11.2.1.2                               | Extra over sub-item C11.2.1.1 for excavation in hard material, irrespective of depth  | m <sup>3</sup> | 25,0     | R    | -      |
| C11.2.2                                 | <b>Surface preparation for bedding the gabion boxes and mattresses</b>  | m <sup>2</sup> | 2 000,0  | R    | -      |
| C11.2.3                                 | <b>Gabion boxes and mattresses:</b>   |                |          |      |        |
| C11.2.3.1                               | Galvanized gabion boxes (2.0 m x 1,0 m x 1,0 m size and 80 mm x 80 mm x 2,7 mm diameter galvanised wire mesh)                                       | m <sup>3</sup> | 1 500,0  | R    | -      |
| C11.2.3.3                               | Galvanized gabion mattresses ( 0.3m deep x 1.0m x 2.0m size and 80 mm x 80 mm x 2.7mm diameter galvanised wire mesh and diaphragms at 1.0m centres) | m <sup>3</sup> | 500,0    | R    | -      |
| C11.2.4                                 | <b>Geotextile (Filter fabric, Grade A4 , Needle punch non-woven geofabric, Kaymat U24 or similar approved)</b>                                      | m <sup>2</sup> | 3 000,0  | R    | -      |
| <b>Total Carried Forward To Summary</b> |   |                |          |      | R -    |

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C11.4 ROAD RESTRAINT SYSTEMS

| ITEM                                    | DESCRIPTION   | UNIT | QUANTITY | RATE | AMOUNT    |
|---|---|------|----------|------|-----------|
| <b>C11.4</b>                            | <b>ROAD RESTRAINT SYSTEMS</b>   |      |          |      |           |
| <b>C11.4.1</b>                          | <b>Erecting of guardrails at 3,81 m spacing:</b>  |      |          |      |           |
| C11.4.1.1                               | Complete galvanized system compliant to SANS 1350:  |      |          |      |           |
| (a)                                     | On timber posts (Drawing No: )  | m    | 300      |      | R -       |
| C11.4.1.2                               | Terminal sections for 3,81 guardrails comprising of:  |      |          |      |           |
| (d)                                     | End treatments where single guardrail sections are specified (Drawing No: )   | No.  | 4        |      | R -       |
| (g)                                     | Extra over C11.4.1.2(d) and C11.4.1.2(e) for excavating holes for posts using labour enhanced methods (soft and intermediate) | No.  | 20       |      | R -       |
| <b>C11.4.5</b>                          | <b>Additional guardrail posts for 3,81 m systems:</b>   |      |          |      |           |
| C11.4.5.1                               | Timber  | No.  | 20       |      | R -       |
| C11.4.5.3                               | Extra over C11.4.5.1 and C11.4.5.2 for excavating holes of posts using labour enhanced methods                                | No.  | 5        |      | R -       |
| <b>C11.4.6</b>                          | <b>Reflective plates:</b>   |      |          |      |           |
| C11.4.6.1                               | Steel plates  | No.  | 100      |      | R -       |
| <b>C11.4.7</b>                          | <b>Removing existing guardrails</b>   | m    |          |      | Rate Only |
| <b>Total Carried Forward To Summary</b> |   |      |          |      | R -       |

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C11.5 FENCING

| ITEM                                    | DESCRIPTION  | UNIT           | QUANTITY | RATE | AMOUNT     |
|---|--|----------------|----------|------|------------|
| C11.5                                   | <b>FENCING</b>   |                |          |      |            |
| C11.5.1                                 | <b>Supply and erect new fencing material for new fences and for supplementing material in existing fences which are being repaired or removed:</b> |                |          |      |            |
| C11.5.1.3                               | Diamond mesh   |                |          |      |            |
| (a)                                     | 50mmx3.15mm dia. Fully galvanised (to SANS 935,675 and CKS 229 Tensility 350/575 Mpa)  | m <sup>2</sup> | 300      |      | R -        |
| C11.5.2                                 | <b>New gates</b>   |                |          |      |            |
| C11.5.2.1                               | Vehicular Gates  | No.            | 8        |      | R -        |
| C11.5.3                                 | <b>Moving existing fences and gates</b>  |                |          |      |            |
| C11.5.3.1                               | Fences   | km             | 0,20     |      | R -        |
| C11.5.3.2                               | Gates  | No.            | 6        |      | R -        |
| C11.5.4                                 | <b>Dismantling existing fences and gates</b>   |                |          |      |            |
| C11.5.4.1                               | Fences   | km             | 0,20     |      | R -        |
| C11.5.4.2                               | Gates  | No.            | 6        |      | R -        |
| <b>Total Carried Forward To Summary</b> |  |                |          |      | <b>R -</b> |

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C11.6 ROAD SIGNS

| ITEM                         | DESCRIPTION   | UNIT           | QUANTITY | RATE | AMOUNT    |          |
|------------------------------|---|----------------|----------|------|-----------|----------|
| C11.6                        | <b>ROAD SIGNS</b>   |                |          |      |           |          |
| C11.6.1                      | <b>Road signboards with painted or coloured semi-matt background. Symbols, lettering and borders in semi- matt black or in Class I retro-reflective material, where the sign board is constructed from:</b> |                |          |      |           |          |
| C11.6.1.3                    | Prepainted galvanized steel plate:  |                |          |      |           |          |
| (a)                          | Area 0 to 0,5 m <sup>2</sup>  | m <sup>2</sup> | 10       | R    | -         |          |
| (b)                          | Area exceeding 0,5 m <sup>2</sup> but not 2,0 m <sup>2</sup>  | m <sup>2</sup> | 50       | R    | -         |          |
| (c)                          | Area exceeding 2,0 m <sup>2</sup> but not 10 m <sup>2</sup>   | m <sup>2</sup> | 20       |      | Rate Only |          |
| (d)                          | Area exceeding 10 m <sup>2</sup>  | m <sup>2</sup> |          |      | Rate Only |          |
| C11.6.1.7                    | Regulatory signs, permanent:  |                |          |      |           |          |
| (a)                          | 600 mm diameter Chromadek, steel plated Class I background and symbol retro-reflective  | No.            | 20       | R    | -         |          |
| (b)                          | 600 mm wide Chromadek, steel plated Class I background and symbol retro-reflective  | No.            | 20       | R    | -         |          |
| C11.6.1.9                    | Warning signs, permanent:   |                |          |      |           |          |
| (a)                          | 600 mm diameter Chromadek, steel plated Class I background and symbol retro-reflective  | No.            | 20       | R    | -         |          |
| (b)                          | 900 mm diameter Chromadek, steel plated Class I background and symbol retro-reflective  | No.            |          |      | Rate Only |          |
| C11.6.2                      | <b>Extra over on item C11.6.1 for using:</b>  |                |          |      |           |          |
| C11.6.2.1                    | Background of retro-reflective material:  |                |          |      |           |          |
| (a)                          | Class I   | m <sup>2</sup> |          |      | Rate Only |          |
| (b)                          | Class III   | m <sup>2</sup> |          |      | Rate Only |          |
| (c)                          | Class IV specify a) or b)   | m <sup>2</sup> |          |      | Rate Only |          |
| C11.6.2.2                    | Lettering, symbols, numbers, arrows, emblems and borders of retro-reflective material:  |                |          |      |           |          |
| (a)                          | Class III   | m <sup>2</sup> |          |      | Rate Only |          |
| (b)                          | Class IV specify a) or b)   | m <sup>2</sup> |          |      | Rate Only |          |
| <b>Total Carried Forward</b> |   |                |          |      | <b>R</b>  | <b>-</b> |

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C11.6 ROAD SIGNS

| Item                                    | Description   | Unit           | Quantity | Rate | Amount (Rand) |
|---|---|----------------|----------|------|---------------|
| <b>Brought Forward</b>                  |   |                |          |      | R -           |
| <b>C11.6.3</b>                          | <b>Road sign supports (overhead road sign structures excluded):</b>                                 |                |          |      |               |
| C11.6.3.1                               | Steel tubing (75 diameter and 3mm wall thickness )  | t              | 5,0      |      | R -           |
| <b>C11.6.5</b>                          | <b>Excavation and backfilling for road sign supports (not applicable to kilometre posts):</b>       |                |          |      |               |
| C11.6.5.1                               | Excavating soft material and backfilling  | m <sup>3</sup> | 20       |      | R -           |
| C11.6.5.2                               | Excavating soft or intermediate material and backfilling using labour enhanced construction methods | m <sup>3</sup> | 5        |      | R -           |
| C11.6.5.3                               | Extra over item C11.6.5.1 and 2 for cement-treated soil backfill                                    | m <sup>3</sup> | 20       |      | R -           |
| C11.6.5.4                               | Extra over item C11.6.5.1 for hard material excavation  | m <sup>3</sup> |          |      | Rate Only     |
| C11.6.5.5                               | Imported backfill material from commercial sources  | m <sup>3</sup> |          |      | Rate Only     |
| <b>C11.6.8</b>                          | <b>Danger plates at culverts / structures:</b>  |                |          |      |               |
| C11.6.8.1                               | Size 150 x 600 mm (Steel post Chromadek W401 & W402)  | No.            | 50       |      | R -           |
| C11.6.8.2                               | Size 200 x 800 mm (Steel post Chromadek W401 & W402)  | No.            |          |      | Rate Only     |
| C11.6.8.3                               | Size 300 x 1200 mm (Steel post Chromadek W401 & W402)   | No.            |          |      | Rate Only     |
| <b>C11.6.10</b>                         | <b>Disposing of road signs with a surface area of:</b>  |                |          |      |               |
| C11.6.10.2                              | Area exceeding 0,5 m <sup>2</sup> but not 2,0 m <sup>2</sup>  | m <sup>2</sup> | 10       |      | R -           |
| <b>Total Carried Forward To Summary</b> |   |                |          |      | R -           |

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**C11.7 ROAD MARKINGS AND ROAD STUDS**

| ITEM                                    |           | DESCRIPTION   | UNIT           | QUANTITY | RATE | AMOUNT     |
|---|-----------|---|----------------|----------|------|------------|
| <b>C11.7</b>                            |           | <b>ROAD MARKINGS AND ROAD STUDS</b>   |                |          |      |            |
| <b>C11.7.1</b>                          |           | <b>Road marking:</b>  |                |          |      |            |
| <b>C11.7.2</b>                          |           | <b>Retro-reflective road marking:</b>   |                |          |      |            |
|   | C11.7.2.1 | White lines broken or unbroken (100mm wide)   | km             | 1,0      | R    | -          |
|   |           | White lines broken or unbroken (150mm wide)   | km             | 1,8      | R    | -          |
|   |           | White lines broken or unbroken (300mm wide)   | km             | 0,3      | R    | -          |
|   | C11.7.2.2 | Yellow lines broken or unbroken (100 mm wide)   | km             | 2,0      | R    | -          |
|   |           | Yellow lines broken or unbroken (150 mm wide)   | km             | 3,5      | R    | -          |
|   |           | Yellow lines broken or unbroken (200 mm wide)   | km             | 0,4      | R    | -          |
|   | C11.7.2.4 | White lettering and symbols   | m <sup>2</sup> | 20       | R    | -          |
|   | C11.7.2.5 | Yellow lettering and symbols (Solvent based )   | m <sup>2</sup> |          |      | Rate Only  |
|   | C11.7.2.7 | Transverse lines, painted island and arrestor bed markings (any colour) (Solvent Based)   | m <sup>2</sup> | 50       | R    | -          |
| <b>C11.7.7</b>                          |           | <b>Road studs</b>   |                |          |      |            |
|   | C11.7.7.1 | Permanent road studs compliant to SANS 1442 ((Bi-direction (1) Ferro Lynx steel body with shank (43 element glass reflective lens)) | No.            | 96       | R    | -          |
| <b>C11.7.8</b>                          |           | <b>Setting out and premarking the lines (excluding traffic island markings, lettering and symbols)</b>                              | km             | 8,85     | R    | -          |
| <b>Total Carried Forward To Summary</b> |           |   |                |          |      | <b>R -</b> |

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C11.8 LANDSCAPING AND PLANTING PLANTS

| ITEM                                    | DESCRIPTION   | UNIT           | QUANTITY | RATE | AMOUNT    |
|---|---|----------------|----------|------|-----------|
| C11.8                                   | <b>LANDSCAPING AND PLANTING PLANTS</b>  |                |          |      |           |
| C11.8.1                                 | <b>Trimming</b>   |                |          |      |           |
| C11.8.1.1                               | Machine trimming  | m <sup>2</sup> | 120      | R    | -         |
| C11.8.1.2                               | Hand trimming   | m <sup>2</sup> | 5 600    | R    | -         |
| C11.8.3                                 | <b>Preparing the areas for grassing</b>   |                |          |      |           |
| C11.8.3.1                               | Ripping   | ha             | 0,60     | R    | -         |
|   | Scarifying for loosening topsoil  | ha             | 0,60     | R    | -         |
| C11.8.3.3                               | Topsailing within the road reserve where the following materials are used:      |                |          |      |           |
| (a)                                     | Topsoil obtained from within the road reserve or borrow areas (free haul 1,0km) | m <sup>3</sup> | 1 000    | R    | -         |
| (b)                                     | Topsoil obtained from commercial sources by the Contractor (including all haul) | m <sup>3</sup> |          |      | Rate Only |
| C11.8.4                                 | <b>Grassing</b>   |                |          |      |           |
| C11.8.4.2                               | Sodding by using the following types of sods:                                   |                |          |      |           |
| (a)                                     | Nursery sods  | m <sup>2</sup> | 2 800    | R    | -         |
| C11.8.4.3                               | Hydroseeding  |                |          |      |           |
| (a)                                     | Providing an approved seed mixture for hydroseeding                             | kg             | 40       | R    | -         |
| C11.8.5                                 | <b>Watering the grass when established by topsoiling only</b>                   | kℓ             | 5        | R    | -         |
| <b>Total Carried Forward To Summary</b> |   |                |          |      | R -       |

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C11.9 FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS

| ITEM                                    | DESCRIPTION   | UNIT | QUANTITY | RATE | AMOUNT |
|---|---|------|----------|------|--------|
| C11.9                                   | <b>FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS</b> |      |          |      |        |
| C11.9.1                                 | <b>Finishing the road and road reserve:</b>                       |      |          |      |        |
| C11.9.1.2                               | Single carriageway road   | km   | 1,75     |      | R -    |
| C11.9.2                                 | <b>Treatment of old roads and temporary deviations:</b>           |      |          |      |        |
| C11.9.2.1                               | Conventional construction methods                                 | km   | 1,0      |      | R -    |
| <b>Total Carried Forward To Summary</b> |   |      |          |      | R -    |

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C20.1 TESTING MATERIALS AND JUDGEMENT OF WORKMANSHIP

| ITEM                                    | DESCRIPTION   | UNIT       | QUANTITY     | RATE         | AMOUNT       |
|---|---|------------|--------------|--------------|--------------|
| C20.1                                   | <p><b>TESTING MATERIALS AND JUDGEMENT OF WORKMANSHIP</b></p> <p>C20.1.2.2 Employer's contribution to other special tests:</p> <p>(a) Additional Tests as requested/specified by the Engineer</p> <p>(i) Handling costs and profit in respect of item C20.1.2.2(a)</p> |            |              |              |              |
|   |   | prime cost | 1            | R 100 000,00 | R 100 000,00 |
|   |   | %          | R 100 000,00 |              | R -          |
| <b>Total Carried Forward To Summary</b> |   |            |              |              | R -          |

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**SUMMARY**

| SECTION  | DESCRIPTION  | AMOUNT |   |   |
|--|--|--------|---|---|
| <b>GENERAL</b>   |  |        |   |   |
| C1.2   | GENERAL REQUIREMENTS AND PROVISIONS  | R -    |   |   |
| C1.3   | CONTRACTOR'S SITE ESTABLISHMENT AND GENERAL OBLIGATIONS  | R -    |   |   |
| C1.4   | FACILITIES FOR THE ENGINEER  | R -    |   |   |
| C1.5   | ACCOMMODATION OF TRAFFIC   | R -    |   |   |
| C1.6   | CLEARING AND GRUBBING  | R -    |   |   |
| C1.7   | LOADING AND HAULING  | R -    | R | - |
| <b>SERVICES</b>  |  |        |   |   |
| C2.1   | GENERAL REQUIREMENTS AND TRENCHING FOR SERVICES  | R -    | R | - |
| <b>DRAINAGE</b>  |  |        |   |   |
| C3.1   | DRAINS   | R -    |   |   |
| C3.2   | CULVERTS   | R -    |   |   |
| C3.3   | CONCRETE KERBING AND CHANNELING, ASPHALT BERMS, CHUTES, DOWNPIPES, AS WELL AS CONCRETE, STONE PITCHED AND GABION LININGS FOR OPEN DRAINS | R -    | R | - |
| <b>EARTHWORKS AND PAVEMENT LAYERS MATERIALS</b>          |  |        |   |   |
| C4.1   | BORROW MATERIALS   | R -    |   |   |
| C4.2   | CUT MATERIALS  | R -    |   |   |
| C4.3   | EXISTING ROAD MATERIALS  | R -    |   |   |
| C4.4   | COMMERCIAL MATERIALS   | R -    | R | - |
| <b>EARTHWORKS AND PAVEMENT LAYERS CONSTRUCTION</b>       |  |        |   |   |
| C5.1   | ROADBED  | R -    |   |   |
| C5.2   | FILL   | R -    |   |   |
| C5.3   | ROAD PAVEMENT LAYERS   | R -    |   |   |
| C5.4   | STABILISATION  | R -    | R | - |
| <b>CONCRETE LAYERS</b>                                   |  |        |   |   |
| C6.2   | SEGMENTAL BLOCK PAVING LAYERS  | R -    | R | - |
| <b>PRETREATMENT AND REPAIR EXISTING LAYERS</b>           |  |        |   |   |
| C8.1   | PRIME COAT   | R -    | R | - |
| <b>ANCILLIARY ROAD WORKS</b>                             |  |        |   |   |
| C11.1  | PITCHING, STONWORK, CAST IN SITU CONCRETE FOR PROTECTION AGAINST EROSION   | R -    |   |   |
| C11.2  | NON-STRUCTURAL GABIONS   | R -    |   |   |
| C11.4  | ROAD RESTRAINT SYSTEMS   | R -    |   |   |
| C11.5  | FENCING  | R -    |   |   |
| C11.6  | ROAD SIGNS   | R -    |   |   |
| C11.7  | ROAD MARKINGS AND ROAD STUDS   | R -    |   |   |
| C11.8  | LANDSCAPING AND PLANTING PLANTS  | R -    |   |   |
| C11.9  | FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS   | R -    | R | - |
| <b>QUALITY ASSURANCE</b>                                 |  |        |   |   |
| C20.1  | TESTING MATERIALS AND JUDGEMENT OF WORKMANSHIP   | R -    | R | - |
| <b>SUBTOTAL A</b>  |  |        | R | - |
| <b>CIDB COMPLIANCE-CONTRACT SKILLD DEVELOPMENT GOALS</b> |  |        |   |   |
| Minimum Contract Skills Development Goal (CSDG) Sum      |  |        |   |   |
| CE (0.25%) x Subtotal A                                  |  |        | R |   |
| <b>CONTRACT CONTINGENCIES:</b>                           |  |        |   |   |
| 10% of Subtotal A  |  |        | R | - |
| <b>SUBTOTAL B</b>  |  |        | R | - |
| <b>CONTRACT PRICE ADJUSTMENT AND RISE &amp; FALL:</b>    |  |        |   |   |
| 5% of Subtotal B   |  |        | R | - |
| <b>SUBTOTAL C</b>  |  |        | R | - |
| <b>VALUE ADDED TAX:</b>                                  |  |        |   |   |
| 15% of Subtotal C  |  |        | R | - |
| <b>TOTAL CARRIED TO C1.1.1 FORM OF OFFER</b>             |  |        | R | - |

SIGNED BY TENDERER: \_\_\_\_\_ DATE: \_\_\_\_\_