

**KOUGA LOCAL MUNICIPALITY - BID No.: 88/2021**  
**GRAVEL ROADS UPGRADE IN VARIOUS TOWNS IN THE KOUGA MUNICIPALITY**

**SECTION 1: PRELIMINARY & GENERAL**

| ITEM NO                                     | PAYMENT REFERS     | DESCRIPTION                                                                                                                                                            | UNIT  | QTY | RATE         | AMOUNT       |
|---------------------------------------------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----|--------------|--------------|
| <b>SECTION 1: PRELIMINARY &amp; GENERAL</b> |                    |                                                                                                                                                                        |       |     |              |              |
| <b>1.1</b>                                  | <b>SANS 1200 A</b> | <b>SCHEDULED FIXED-CHARGE AND VALUE RELATED ITEMS</b>                                                                                                                  |       |     |              |              |
| 1.1.1                                       | PSA 8.3.1          | Contractual Requirements                                                                                                                                               | Sum   | 1   |              |              |
|                                             | 8.3.2              | Establishment of Facilities on the Site:                                                                                                                               |       |     |              |              |
|                                             | <b>SANS 1200AB</b> | <b>Facilities for the Engineer:</b>                                                                                                                                    |       |     |              |              |
| 1.1.2                                       | PSAB 3.1           | Contract Name boards (Refer to Figure 1)                                                                                                                               | No    | 3   |              |              |
| 1.1.3                                       | PSAB 3.2           | Furnished office and Accommodation as specified, per town.                                                                                                             | P.Sum | 3   | R 16 000.00  | R 48 000.00  |
| 1.1.4                                       | PSAB 3.3           | Car port                                                                                                                                                               | No    | 1   |              |              |
| 1.1.5                                       | PSAB 4.3           | Computer                                                                                                                                                               | No    | 1   |              |              |
| 1.1.6                                       | PSA 8.3.7          | a) Provision for Way Leaves, only on approval                                                                                                                          | P.Sum | 1   | R 60 000.00  | R 60 000.00  |
| 1.1.6                                       | PSA 8.3.7          | b) Provision for Survey Work, only on approval                                                                                                                         | P.Sum | 1   | R 120 000.00 | R 120 000.00 |
|                                             | <b>SANS 1200 A</b> | <b>Facilities for the Contractor in Humansdorp :</b>                                                                                                                   |       |     |              |              |
| 1.1.8                                       | 8.3.2.2 (a)        | Site Offices                                                                                                                                                           | Sum   | 1   |              |              |
| 1.1.9                                       | 8.3.2.2 (b)        | Workshops & Storage Sheds                                                                                                                                              | Sum   | 1   |              |              |
| 1.1.10                                      | 8.3.2.2 (d)        | Living accommodation                                                                                                                                                   | Sum   | 1   |              |              |
| 1.1.11                                      | 8.3.2.2 (e)        | Ablution and latrine facilities with wash hand basins and taps                                                                                                         | Sum   | 1   |              |              |
| 1.1.12                                      | 8.3.2.2 (f)        | Tools and equipment                                                                                                                                                    | Sum   | 1   |              |              |
| 1.1.13                                      | 8.3.2.2 (g)        | Water supplies, electrical power and communications                                                                                                                    | Sum   | 1   |              |              |
| 1.1.14                                      | 8.3.2.2 (i)        | Access                                                                                                                                                                 | Sum   | 1   |              |              |
| 1.1.15                                      | 8.3.2.2 (j)        | Plant                                                                                                                                                                  | Sum   | 1   |              |              |
| 1.1.16                                      | PSA8.3.2.2 (k)     | Rain gauge                                                                                                                                                             | Sum   | 1   |              |              |
| 1.1.17                                      | PSA 8.3.9          | Removal, clean and rehabilitate of Contractor's camp and site establishment, including offices, container facilities, fencing, materials, ablutions, fuel supply, etc. | Sum   | 1   |              |              |
|                                             | <b>SANS 1200 A</b> | <b>Facilities for the Contractor in Jeffreys Bay :</b>                                                                                                                 |       |     |              |              |
| 1.1.18                                      | 8.3.2.2 (a)        | Site Offices                                                                                                                                                           | Sum   | 1   |              |              |
| 1.1.19                                      | 8.3.2.2 (b)        | Workshops & Storage Sheds                                                                                                                                              | Sum   | 1   |              |              |
| 1.1.20                                      | 8.3.2.2 (d)        | Living accommodation                                                                                                                                                   | Sum   | 1   |              |              |
| 1.1.21                                      | 8.3.2.2 (e)        | Ablution and latrine facilities with wash hand basins and taps                                                                                                         | Sum   | 1   |              |              |
| 1.1.22                                      | 8.3.2.2 (f)        | Tools and equipment                                                                                                                                                    | Sum   | 1   |              |              |
| 1.1.23                                      | 8.3.2.2 (g)        | Water supplies, electrical power and communications                                                                                                                    | Sum   | 1   |              |              |
| 1.1.24                                      | 8.3.2.2 (i)        | Access                                                                                                                                                                 | Sum   | 1   |              |              |
| 1.1.25                                      | 8.3.2.2 (j)        | Plant                                                                                                                                                                  | Sum   | 1   |              |              |
| 1.1.26                                      | PSA8.3.2.2 (k)     | Rain gauge                                                                                                                                                             | Sum   | 1   |              |              |
| 1.1.27                                      | PSA 8.3.9          | Removal, clean and rehabilitate of Contractor's camp and site establishment, including offices, container facilities, fencing, materials, ablutions, fuel supply, etc. | Sum   | 1   |              |              |
|                                             | <b>SANS 1200 A</b> | <b>Facilities for the Contractor in Thornhill :</b>                                                                                                                    |       |     |              |              |
| 1.1.28                                      | 8.3.2.2 (a)        | Site Offices                                                                                                                                                           | Sum   | 1   |              |              |
| 1.1.29                                      | 8.3.2.2 (b)        | Workshops & Storage Sheds                                                                                                                                              | Sum   | 1   |              |              |
| 1.1.30                                      | 8.3.2.2 (d)        | Living accommodation                                                                                                                                                   | Sum   | 1   |              |              |
| 1.1.31                                      | 8.3.2.2 (e)        | Ablution and latrine facilities with wash hand basins and taps                                                                                                         | Sum   | 1   |              |              |
| 1.1.32                                      | 8.3.2.2 (f)        | Tools and equipment                                                                                                                                                    | Sum   | 1   |              |              |
| 1.1.33                                      | 8.3.2.2 (g)        | Water supplies, electrical power and communications                                                                                                                    | Sum   | 1   |              |              |
| 1.1.34                                      | 8.3.2.2 (i)        | Access                                                                                                                                                                 | Sum   | 1   |              |              |
| 1.1.35                                      | 8.3.2.2 (j)        | Plant                                                                                                                                                                  | Sum   | 1   |              |              |
| 1.1.36                                      | PSA8.3.2.2 (k)     | Rain gauge                                                                                                                                                             | Sum   | 1   |              |              |
| 1.1.37                                      | PSA 8.3.9          | Removal, clean and rehabilitate of Contractor's camp and site establishment, including offices, container facilities, fencing, materials, ablutions, fuel supply, etc. | Sum   | 1   |              |              |
| <b>TOTAL CARRIED FORWARD</b>                |                    |                                                                                                                                                                        |       |     |              |              |

**KOUGA LOCAL MUNICIPALITY - BID No.: 88/2021**  
**GRAVEL ROADS UPGRADE IN VARIOUS TOWNS IN THE KOUGA MUNICIPALITY**

**SECTION 1: PRELIMINARY & GENERAL**

| ITEM NO                      | PAYMENT REFERS         | DESCRIPTION                                                                                                                                                                                                                               | UNIT            | QTY | RATE         | AMOUNT       |
|------------------------------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----|--------------|--------------|
| <b>BROUGHT FORWARD</b>       |                        |                                                                                                                                                                                                                                           |                 |     |              |              |
| <b>1.2</b>                   | <b>SANS 1200 A, AB</b> | <b>SCHEDULED TIME-RELATED ITEMS</b>                                                                                                                                                                                                       |                 |     |              |              |
| 1.2.1                        | PSA 8.4.1              | Contractual Requirements                                                                                                                                                                                                                  | Month           | 24  |              |              |
|                              | <b>PSA 8.4.2</b>       | <b>Operation and Maintenance of Facilities on Site for:</b>                                                                                                                                                                               |                 |     |              |              |
|                              | <b>8.4.2.1</b>         | <b>Facilities for Engineer:</b>                                                                                                                                                                                                           |                 |     |              |              |
| 1.2.3                        | PSAB 3.1               | Contract Name boards                                                                                                                                                                                                                      | Month           | 24  |              |              |
| 1.2.4                        | PSAB 3.2               | Furnished office and Accommodation as specified                                                                                                                                                                                           | P.Sum/m<br>onth | 24  | R 7 500.00   | R 180 000.00 |
| 1.2.5                        | PSAB 3.3               | Car Port                                                                                                                                                                                                                                  | Month           | 24  |              |              |
| 1.2.6                        | PSAB 4.3               | Computer                                                                                                                                                                                                                                  | Month           | 24  |              |              |
|                              | <b>8.4.2.2</b>         | <b>Facilities for Contractor:</b>                                                                                                                                                                                                         |                 |     |              |              |
| 1.2.7                        | 8.4.2.2 (a)            | Site Offices, all towns.                                                                                                                                                                                                                  | Month           | 24  |              |              |
| 1.2.8                        | 8.4.2.2 (b)            | Workshops and Storage Sheds, all towns.                                                                                                                                                                                                   | Month           | 24  |              |              |
| 1.2.9                        | 8.4.2.2 (d)            | Living Accommodation, all towns.                                                                                                                                                                                                          | Month           | 24  |              |              |
| 1.2.10                       | 8.4.2.2 (e)            | Ablution and Latrine Facilities, all towns.                                                                                                                                                                                               | Month           | 24  |              |              |
| 1.2.11                       | 8.4.2.2 (f)            | Tools and Equipment, all towns.                                                                                                                                                                                                           | Month           | 24  |              |              |
| 1.2.12                       | 8.4.2.2 (g)            | Water, Electricity, Communications, all towns.                                                                                                                                                                                            | Month           | 24  |              |              |
| 1.2.13                       | 8.4.2.2 (i)            | Access, all towns.                                                                                                                                                                                                                        | Month           | 24  |              |              |
| 1.2.14                       | 8.4.2.2 (j)            | Plant, all towns.                                                                                                                                                                                                                         | Month           | 24  |              |              |
| 1.2.15                       | PSA8.3.2.2 (k)         | Rain gauge, all towns.                                                                                                                                                                                                                    | Month           | 24  |              |              |
| 1.2.16                       | PSA 5.9                | Traffic Accommodation at all roads where work will takes place.                                                                                                                                                                           | Month           | 24  |              |              |
|                              | PSA 8.4.3              | Supervision for Duration of Construction (Refer to Min Requirements in Clause F2.1.4.3) :                                                                                                                                                 |                 |     |              |              |
| 1.2.17                       | F2.1.4.3               | a) Full Time Construction Manager, all towns.                                                                                                                                                                                             | Month           | 24  |              |              |
| 1.2.18                       | F2.1.4.3               | b) Full Time Site Agent, all towns.                                                                                                                                                                                                       | Month           | 24  |              |              |
| 1.2.19                       | F2.1.4.7               | c) Full Time SMME Manager, all towns.                                                                                                                                                                                                     | Month           | 24  |              |              |
| 1.2.20                       | 8.4.4                  | Company and Head Office overhead costs for the Duration of the Contract.                                                                                                                                                                  | Month           | 24  |              |              |
| 1.2.21                       | PSA 8.4.5.1            | Provision of Security Personnel.                                                                                                                                                                                                          | Month           | 24  |              |              |
|                              |                        | Other Time-related obligations not included<br>(To be specified, if any):                                                                                                                                                                 |                 |     |              |              |
| 1.2.22                       | PSA 8.4.5.2            | .....<br>.....<br>.....                                                                                                                                                                                                                   | Month           | 24  |              |              |
|                              |                        | <b>Note: No payment shall be made if Item 1.2.19 is priced, but not specified.</b>                                                                                                                                                        |                 |     |              |              |
|                              |                        | <b>Note: The combined amounts for Fixed and Time-Related charges tendered, in accordance with Clauses PSA 8.3.1 and PSA 8.4.1 may not exceed twenty percent (20%) of the total tendered contract sum excluding contingencies and VAT.</b> |                 |     |              |              |
| <b>1.3</b>                   | <b>PSA 8.5</b>         | <b>SUMS STATED PROVISIONALLY BY THE EMPLOYER</b>                                                                                                                                                                                          |                 |     |              |              |
| 1.3.1                        | PSA 8.5.1              | Community Liaison Officer (CLO) remuneration.                                                                                                                                                                                             | Months          | 24  | R 6 200.00   | R 148 800.00 |
| 1.3.2                        | PSA 8.5.2              | Attendance and profit on Item 1.4.1                                                                                                                                                                                                       | %               |     | R 148 800.00 |              |
| 1.3.3                        |                        | Repair and / or relocate damaged unknown sewer, water, stormwater, etc. services (Provisional).                                                                                                                                           | Prov<br>Sum     | 1   | ---          | R 120 000.00 |
| <b>TOTAL CARRIED FORWARD</b> |                        |                                                                                                                                                                                                                                           |                 |     |              |              |

**KOUGA LOCAL MUNICIPALITY - BID No.: 88/2021**  
**GRAVEL ROADS UPGRADE IN VARIOUS TOWNS IN THE KOUGA MUNICIPALITY**

**SECTION 1: PRELIMINARY & GENERAL**

| ITEM NO                                 | PAYMENT REFERS   | DESCRIPTION                                                                                                                                                                                                                                                                                                                     | UNIT     | QTY  | RATE        | AMOUNT      |
|-----------------------------------------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-------------|-------------|
| <b>BROUGHT FORWARD</b>                  |                  |                                                                                                                                                                                                                                                                                                                                 |          |      |             |             |
| 1.3.4                                   | PSA 8.5.3        | Provide <u>formal</u> training to targeted local labour                                                                                                                                                                                                                                                                         | Prov %   | 1    | ---         | R 50 000.00 |
| 1.3.5                                   | PSA 8.5.4        | Overhead charges, profit etc. on above item 1.4.4                                                                                                                                                                                                                                                                               |          |      | R 50 000.00 |             |
| 1.3.6                                   | PSA 8.5.5        | Transportation and accommodation of targeted labour for training.                                                                                                                                                                                                                                                               | Prov Sum | 1    | ---         | R 10 000.00 |
| 1.3.7                                   | PSA 8.5.6        | Overhead charges, Profit etc. on above item 1.4.6                                                                                                                                                                                                                                                                               | %        |      | R 10 000.00 |             |
| <b>1.4</b>                              | <b>PSA 8.7</b>   | <b>DAYWORKS</b><br><b>No Dayworks shall be paid unless pre-approved by Engineer in writing :</b><br><br>Rates to include all employment costs and profit for:<br><b>a) Labour:</b>                                                                                                                                              |          |      |             |             |
| 1.4.1                                   | (LI)             | Unskilled General Worker (Task Grade 1)                                                                                                                                                                                                                                                                                         | hr       | 500  |             |             |
| 1.4.2                                   | (LI)             | Semi-skilled (Task Grade 3)                                                                                                                                                                                                                                                                                                     | hr       | 400  |             |             |
| 1.4.3                                   | (LI)             | Operators (Task Grade 4)                                                                                                                                                                                                                                                                                                        | hr       | 400  |             |             |
| 1.4.4                                   | (LI)             | Artisan (Task Grade 5)                                                                                                                                                                                                                                                                                                          | hr       | 400  |             |             |
| 1.4.5                                   | (LI)             | Construction Foreman (Task Grade 7)                                                                                                                                                                                                                                                                                             | hr       | 200  |             |             |
|                                         |                  | <b>b) Plant:</b>                                                                                                                                                                                                                                                                                                                |          |      |             |             |
| 1.4.6                                   |                  | Large Tipper trucks > 10m³                                                                                                                                                                                                                                                                                                      | hr       | 50   |             |             |
| 1.4.7                                   |                  | Small Tipper Trucks < 10m³                                                                                                                                                                                                                                                                                                      | hr       | 120  |             |             |
| 1.4.8                                   |                  | Tractor Loader Backhoe (TLB)                                                                                                                                                                                                                                                                                                    | hr       | 120  |             |             |
| 1.4.9                                   |                  | Min 7000 litre water cart                                                                                                                                                                                                                                                                                                       | hr       | 400  |             |             |
| 1.4.10                                  |                  | Min 1 ton pedestrian Bomag roller                                                                                                                                                                                                                                                                                               | hr       | 200  |             |             |
| 1.4.11                                  |                  | 2.5 ton flat wheeled roller                                                                                                                                                                                                                                                                                                     | hr       | 200  |             |             |
| 1.4.12                                  |                  | 6-10 ton flat wheeled roller                                                                                                                                                                                                                                                                                                    | hr       | 500  |             |             |
| 1.4.13                                  |                  | Standard LDV                                                                                                                                                                                                                                                                                                                    | hr       | 800  |             |             |
| 1.4.14                                  |                  | Generator set, incl diesel supply                                                                                                                                                                                                                                                                                               | hr       | 50   |             |             |
| 1.4.15                                  |                  | Jack hammer / pneumatic driller                                                                                                                                                                                                                                                                                                 | hr       | 200  |             |             |
| 1.4.16                                  |                  | Grader                                                                                                                                                                                                                                                                                                                          | hr       | 100  |             |             |
|                                         |                  | <b>c) Travelling :</b>                                                                                                                                                                                                                                                                                                          |          |      |             |             |
| 1.4.17                                  |                  | Low bed                                                                                                                                                                                                                                                                                                                         | km       | 120  |             |             |
| 1.4.18                                  |                  | Large trucks > 22 ton                                                                                                                                                                                                                                                                                                           | km       | 300  |             |             |
| 1.4.19                                  |                  | Small trucks > 22 ton                                                                                                                                                                                                                                                                                                           | km       | 800  |             |             |
| 1.4.20                                  |                  | 3t Delivery vehicle                                                                                                                                                                                                                                                                                                             | km       | 800  |             |             |
| 1.4.21                                  |                  | Standard LDV                                                                                                                                                                                                                                                                                                                    | km       | 2000 |             |             |
| 1.4.22                                  |                  | Grader travel                                                                                                                                                                                                                                                                                                                   | km       | 150  |             |             |
| <b>1.5</b>                              | <b>PSA 8.3.5</b> | <b>OCCUPATIONAL HEALTH AND SAFETY ACT, 1993 AND THE CONSTRUCTION REGULATIONS, 2014 (REFER SECTION C3.5 FOR MORE INFORMATION)</b><br><br>Compliance with the OHS Act 1993 and Construction Regulations, 2014. The Contractor's rate shall include full compensation for complying, amongst other, with the following provisions: |          |      |             |             |
| 1.5.2                                   | PSA 8.9          | Contractor's initial obligations in respect of the Occupational Health and Safety Act and Construction Regulations 2014                                                                                                                                                                                                         | Sum      | 1    |             |             |
| 1.5.3                                   | PSA 8.10         | Contractor's time related obligations in respect of the Occupational Health & Safety Act and Construction Regulations                                                                                                                                                                                                           | Month    | 24   |             |             |
| 1.5.4                                   | PSA 8.11         | Provision of <u>full time</u> Construction Safety Officer<br><i>The list of OH&amp;S Obligations scheduled above are not necessarily complete and shall not limit the Contractor's obligation in terms of the Construction Regulations, 2014 and Section C3.5: H&amp;S Requirements and Procedures.</i>                         | Month    | 24   |             |             |
| <b>1.6</b>                              |                  | <b>QUALITY ASSURANCE PLAN</b>                                                                                                                                                                                                                                                                                                   |          |      |             |             |
| 1.6.1                                   | PSA 8.13         | Provision for the development of a Quality Assurance Plan                                                                                                                                                                                                                                                                       | Sum      | 1    |             |             |
| 1.6.2                                   | PSA 8.14         | Provision for the implementation and management of the Quality Assurance Plan for the duration of the Contract.                                                                                                                                                                                                                 | Month    | 24   |             |             |
| <b>1.7</b>                              | <b>PSA 8.3.6</b> | <b>ENVIRONMENTAL AWARENESS</b>                                                                                                                                                                                                                                                                                                  |          |      |             |             |
| 1.7.1                                   | PSA 8.15         | Attend Environmental awareness training and Inductions                                                                                                                                                                                                                                                                          | Sum      | 1    | ---         |             |
| 1.7.2                                   | PSA 8.16         | Compliance with environmental management specification, for the duration of the Contract.                                                                                                                                                                                                                                       | Month    | 24   |             |             |
| <b>TOTAL CARRIED FORWARD TO SUMMARY</b> |                  |                                                                                                                                                                                                                                                                                                                                 |          |      |             |             |

**KOUGA LOCAL MUNICIPALITY - BID No.: 88/2021**  
**GRAVEL ROADS UPGRADE IN VARIOUS TOWNS IN THE KOUGA MUNICIPALITY**

**HUMANSDORP PRIORITY ROADS**

**SECTION 2: ROADWORKS**

| Item No                      | Payment        | Description                                                                                                                                       | Unit           | Quantity | Rate | Amount R  |
|------------------------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|------|-----------|
| <b>2</b>                     |                | <b>SECTION 2: ROADWORKS</b>                                                                                                                       |                |          |      |           |
| <b>2.1</b>                   |                | <b>CLEAR SITE</b>                                                                                                                                 |                |          |      |           |
|                              | 8.2.1          | Clear and grub                                                                                                                                    |                |          |      |           |
| 2.1.1                        |                | (a) General clear and grub to site                                                                                                                | m <sup>2</sup> | 80 640   |      |           |
| <b>2.2</b>                   |                | <b>SITE CLEARANCE</b>                                                                                                                             |                |          |      |           |
| <b>2.3</b>                   | SANS 1200 DM   | <b>EARTHWORKS (ROADS, SUBGRADE)</b>                                                                                                               |                |          |      |           |
|                              | PSDM 8.3.3.(a) | Road-bed preparation and compaction of material to                                                                                                |                |          |      |           |
|                              |                | (a) a minimum of 90% of mod. AASHTO maximum density (100% for sand)                                                                               |                |          |      |           |
| 2.3.1                        |                | (i) 100mm to roadways                                                                                                                             | m <sup>2</sup> | 58 464   |      |           |
| 2.3.2                        |                | (ii) 100mm to parking area                                                                                                                        | m <sup>2</sup> | 3 080    |      |           |
| 2.3.3                        |                | (iii) 100mm to sidewalks and shoulders                                                                                                            | m <sup>2</sup> | 15 120   |      |           |
|                              | PSDM 8.3.3.(b) | In-place treatment of roadbed in hard rock material by:                                                                                           |                |          |      |           |
| 2.3.4                        |                | (a) Ripping                                                                                                                                       | m <sup>3</sup> | 302      |      |           |
| <b>2.4</b>                   | 8.3.4          | <b>CUT TO FILL</b>                                                                                                                                |                |          |      |           |
|                              |                | Compacted to minimum 95% of mod. AASHTO maximum density (100% for sand)                                                                           |                |          |      |           |
| 2.4.1                        |                | (a) on roadways including sidewalks                                                                                                               | m <sup>3</sup> | 625      |      |           |
| 2.4.2                        |                | (b) parking areas                                                                                                                                 | m <sup>3</sup> | 560      |      |           |
| <b>2.5</b>                   | 8.3.4          | <b>BORROW TO FILL</b>                                                                                                                             |                |          |      |           |
|                              |                | G7 quality subgrade compacted to minimum 93% of mod. AASHTO maximum density (100% for sand) from commercial source:                               |                |          |      |           |
| 2.5.1                        |                | (a) on roadways including sidewalks                                                                                                               | m <sup>3</sup> | 438      |      |           |
| 2.5.2                        |                | (b) parking areas                                                                                                                                 | m <sup>3</sup> | 392      |      |           |
|                              |                | G7 quality subgrade compacted to minimum 93% of mod. AASHTO maximum density (100% for sand) from designated borrow pit within free haul distance: |                |          |      |           |
| 2.5.3                        |                | (a) on roadways including sidewalks                                                                                                               | m <sup>3</sup> | 602      |      | Rate Only |
| 2.5.4                        |                | (b) parking areas                                                                                                                                 | m <sup>3</sup> | 49       |      | Rate Only |
| <b>2.6</b>                   | 8.3.5          | <b>SELECTED LAYER</b>                                                                                                                             |                |          |      |           |
| 2.6.1                        |                | Construct imported G7 quality upper selected subgrade layer from (a) 150mm upper selected layer in                                                | m <sup>3</sup> |          |      | Rate Only |
| 2.6.2                        |                | (b) 150mm upper selected layer in                                                                                                                 | m <sup>3</sup> |          |      | Rate Only |
|                              |                | Construct imported G7 quality selected subgrade layer from                                                                                        |                |          |      |           |
| 2.6.3                        |                | (a) 150mm selected layer in sidewalks                                                                                                             | m <sup>3</sup> |          |      | Rate Only |
| <b>Total Carried Forward</b> |                |                                                                                                                                                   |                |          |      |           |

**KOUGA LOCAL MUNICIPALITY - BID No.: 88/2021**  
**GRAVEL ROADS UPGRADE IN VARIOUS TOWNS IN THE KOUGA MUNICIPALITY**

KOUGA LOCAL MUNICIPALITY - BID No.: 88/2021  
 GRAVEL ROADS UPGRADE IN VARIOUS TOWNS IN THE KOUGA MUNICIPALITY

**HUMANSDORP PRIORITY ROADS**

**SECTION 2: ROADWORKS**

| Item No                      | Payment           | Description                                                                                                          | Unit | Quantity | Rate | Amount R  |
|------------------------------|-------------------|----------------------------------------------------------------------------------------------------------------------|------|----------|------|-----------|
| <b>Brought Forward</b>       |                   |                                                                                                                      |      |          |      |           |
| <b>2.7</b>                   | PSDM 8.3.7        | <b>CUT TO SPOIL</b>                                                                                                  |      |          |      |           |
|                              |                   | Soft excavation. Material from:                                                                                      |      |          |      |           |
| 2.7.1                        |                   | (a) roadways including parking areas                                                                                 | m³   | 24 998   |      |           |
|                              |                   | Hard rock excavation. Material from:                                                                                 |      |          |      |           |
| 2.7.2                        |                   | (a) roadways including parking areas                                                                                 | m³   | 314      |      |           |
| 2.7.3                        |                   | (b) boulder excavation.                                                                                              | m³   | 280      |      |           |
| <b>2.8</b>                   | PSDM 8.3.7        | <b>CUT TO STOCKPILE</b>                                                                                              |      |          |      |           |
|                              |                   | On site from soft excavation. Material from:                                                                         |      |          |      |           |
| 2.8.1                        |                   | (a) roadways including parking areas                                                                                 | m³   | 875      |      |           |
| <b>2.9</b>                   | 8.3.13            | <b>SURFACE FINISHES</b>                                                                                              |      |          |      |           |
| 2.9.1                        |                   | (a) Top soiling from stockpile                                                                                       | m²   | 15 120   |      |           |
| 2.9.2                        |                   | (b) Kukuyu Grass planting                                                                                            | m²   | 15 120   |      |           |
| <b>2.10</b>                  | SANS1200 ME 8.3.3 | <b>SUBBASE</b>                                                                                                       |      |          |      |           |
|                              |                   | Construct G6 quality subbase with material from commercial sources, compacted to 95% of mod. AASHTO maximum density: |      |          |      |           |
| 2.10.1                       |                   | (a) 150mm thick layer                                                                                                | m³   | 9 374    |      |           |
|                              | 8.3.3             | Construct G7 quality subbase with material from commercial sources, compacted to 93% of mod. AASHTO maximum density: |      |          |      |           |
| 2.10.2                       |                   | (b) 200mm in sidewalks                                                                                               | m³   | 3 024    |      |           |
| 2.10.3                       |                   | (c) 150mm at parking bays                                                                                            | m³   | 840      |      |           |
| 2.10.4                       | 8.3.5(d)          | Extra over item 8.3.3(a) and 8.3.3(c) to process subbase material by stabilisation (C4).                             | m³   |          |      | Rate Only |
| 2.10.5                       | 8.3.8             | (i) Stabilising agent: cement grade CEM II 32.5N for layers on roadway.                                              | t    |          |      | Rate Only |
| <b>2.11</b>                  | SANS 1200 MF      | <b>BASE</b>                                                                                                          |      |          |      |           |
|                              | 8.3.3             | Construct G4 quality base with material from commercial sources, compacted to 97% of mod. AASHTO density             |      |          |      |           |
| 2.11.1                       |                   | (a) 100mm to roadways                                                                                                | m³   | 5 846    |      |           |
| 2.11.2                       |                   | (b) 150mm to parking areas                                                                                           | m³   | 168      |      |           |
| <b>2.12</b>                  | SANS 1200 MH      | <b>ASPHALT BASE AND SURFACING</b>                                                                                    |      |          |      |           |
| <b>2.13</b>                  | 8.5.1             | <b>PRIME COAT</b>                                                                                                    |      |          |      |           |
|                              |                   | Prime coat using MC-30 cut-back bitumen at 0,7 l/m²                                                                  |      |          |      |           |
| 2.13.1                       |                   | (a) on roadways including parking areas and sidewalks                                                                | m²   | 58 464   |      |           |
| <b>Total Carried Forward</b> |                   |                                                                                                                      |      |          |      |           |

**KOUGA LOCAL MUNICIPALITY - BID No.: 88/2021**  
**GRAVEL ROADS UPGRADE IN VARIOUS TOWNS IN THE KOUGA MUNICIPALITY**

KOUGA LOCAL MUNICIPALITY - BID No.: 88/2021  
 GRAVEL ROADS UPGRADE IN VARIOUS TOWNS IN THE KOUGA MUNICIPALITY

**HUMANSDORP PRIORITY ROADS**

**SECTION 2: ROADWORKS**

| Item No                      | Payment      | Description                                                                                                          | Unit | Quantity | Rate | Amount R  |
|------------------------------|--------------|----------------------------------------------------------------------------------------------------------------------|------|----------|------|-----------|
| <b>Brought Forward</b>       |              |                                                                                                                      |      |          |      |           |
| <b>2.14</b>                  | 8.5.3        | <b>TACK COAT</b>                                                                                                     |      |          |      |           |
| 2.14.1                       |              | Tack coat using 30% stable mix emulsion (to saw cuts)                                                                | m²   | 58 464   |      |           |
| <b>2.15</b>                  |              | <b>ASPHALT BASE</b>                                                                                                  |      |          |      |           |
|                              | 8.5.4        | Continuously graded asphalt base compacted to 92% of Rice density                                                    |      |          |      |           |
| 2.15.1                       |              | (a) 25mm thick layer, on roadways                                                                                    | t    |          |      | Rate Only |
| <b>2.16</b>                  |              | <b>ASPHALT SURFACING</b>                                                                                             |      |          |      |           |
|                              | 8.5.4        | Continuously graded medium grade asphalt compacted to 92% of Rice density                                            |      |          |      |           |
| 2.16.1                       |              | (a) 25mm thick to roadways                                                                                           | t    | 2 631    |      |           |
| 2.16.2                       |              | (b) 25mm thick to parking areas                                                                                      | t    | 30       |      |           |
|                              | 8.5.4        | Continuously graded medium grade asphalt compacted to at least 95% of Marshall density                               |      |          |      |           |
| 2.16.3                       |              | (a) 20mm to sidewalks                                                                                                | t    |          |      | Rate Only |
| <b>2.17</b>                  | 8.5.5        | <b>VARIATION IN QUANTITIES OF PRIME AND BITUMINOUS BINDERS</b>                                                       |      |          |      |           |
| 2.17.1                       |              | (a) MC 30 cutback bitumen                                                                                            | t    |          |      | Rate Only |
| 2.17.2                       |              | (b) 65% spray grade emulsion                                                                                         | t    |          |      | Rate Only |
| <b>2.18</b>                  | 8.5.5        | <b>VARIATION IN QUANTITIES OF AGGREGATE</b>                                                                          |      |          |      |           |
| <b>2.19</b>                  | PSMH 8.5.9   | <b>SAWCUTS</b>                                                                                                       |      |          |      |           |
| 2.19.1                       |              | (a) Cutting asphalt, 25mm thick                                                                                      | m    | 120      |      |           |
| 2.19.2                       |              | (b) Cutting pavement layers, 100 mm thick                                                                            | m    | 1 650    |      |           |
| 2.19.3                       | PSMH 8.5.10  | Cleaning the joints with compressed air                                                                              | m    | 1 650    |      |           |
| 2.19.4                       | PSMH 8.5.12  | Extra-over Item for the transportation of bitumen from outside the Kouga Municipal area                              | Sum  | 1        |      |           |
| <b>2.20</b>                  | SANS 1200 MJ | <b>SEGMENTED PAVING</b>                                                                                              |      |          |      |           |
|                              | PSMJ 8.2.2   | Construction of paving complete:                                                                                     |      |          |      |           |
| 2.20.1                       |              | (a) 60 mm interlocking paver, (25 MPa, 200 x 100mm grey) on a 20mm thick sand (rate to include the 20mm thick sand). | m²   | 15 120   |      |           |
| 2.20.2                       |              | (b) Cutting units to fit edge restraints                                                                             | m    | 10 080   |      |           |
| <b>2.21</b>                  | SANS 1200 MK | <b>KERBING AND CHANNELING</b>                                                                                        |      |          |      |           |
| <b>2.22</b>                  |              | <b>CONCRETE KERBS AND CHANNELS</b>                                                                                   |      |          |      |           |
| <b>2.23</b>                  | 8.2.1        | <b>PRECAST CONCRETE KERBING</b>                                                                                      |      |          |      |           |
|                              |              | (a) Barrier Kerb, SANS - Fig 7.                                                                                      |      |          |      |           |
| 2.23.1                       |              | (i) Straights                                                                                                        | m    | 168      |      |           |
| 2.23.3                       |              | (ii) Curves, 1m to 5m radius                                                                                         | m    | 25       |      |           |
| 2.23.4                       |              | (iii) Curves, 5m radius and larger.                                                                                  | m    | 504      |      |           |
| <b>Total Carried Forward</b> |              |                                                                                                                      |      |          |      |           |

**KOUGA LOCAL MUNICIPALITY - BID No.: 88/2021**  
**GRAVEL ROADS UPGRADE IN VARIOUS TOWNS IN THE KOUGA MUNICIPALITY**  
 KOUGA LOCAL MUNICIPALITY - BID No.: 88/2021  
 GRAVEL ROADS UPGRADE IN VARIOUS TOWNS IN THE KOUGA MUNICIPALITY

**HUMANSDORP PRIORITY ROADS**

**SECTION 2: ROADWORKS**

| Item No                      | Payment      | Description                                                                                                                                                                                                  | Unit   | Quantity | Rate         | Amount R     |
|------------------------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----------|--------------|--------------|
| <b>Brought Forward</b>       |              |                                                                                                                                                                                                              |        |          |              |              |
| <b>2.24</b>                  | 8.2.2        | <b>PRECAST CONCRETE KERBING CHANNELLING COMBINATION</b><br>(a) Mountable kerb (Channel Type)                                                                                                                 |        |          |              |              |
| 2.24.1                       |              | (i) Straights                                                                                                                                                                                                | m      | 20 160   |              | Rate Only    |
| 2.24.2                       |              | (ii) Curves, 1m to 5m radius                                                                                                                                                                                 | m      |          |              |              |
| 2.24.3                       |              | (iii) Curves, 5m radius and larger.                                                                                                                                                                          | m      | 50       |              |              |
| <b>2.25</b>                  | 8.2.4        | <b>DEPRESSED KERBS</b>                                                                                                                                                                                       |        |          |              |              |
| 2.25.1                       |              | (a) Depressed kerbs at pedestrian crossings                                                                                                                                                                  | m      | 10       |              |              |
| <b>2.26</b>                  | PSMK 8.2.16  | <b>IN-SITU TRANSITIONS</b><br>Concrete Class 25 transitions, 2m long between:                                                                                                                                |        |          |              |              |
| 2.26.1                       |              | (a) Barrier Kerb (Fig 7) and Mountable (Channel-type) kerb                                                                                                                                                   | No     | 32       |              |              |
| 2.26.2                       | PSMK 8.2.17  | Cast in-situ concrete (15 MPa) for parking embayment bullnoses and curves                                                                                                                                    | m³     | 15       |              |              |
| <b>2.27</b>                  | SANS 1200 MM | <b>ANCILLARY ROADWORKS</b>                                                                                                                                                                                   |        |          |              |              |
| <b>2.28</b>                  | 8.3          | <b>PERMANENT ROAD SIGNS</b>                                                                                                                                                                                  |        |          |              |              |
|                              | 8.3.6        | Supply and install all statutory high-reflective Road Signs, and the like, supplied and erected complete with soil-cement. All road signs to fully comply with the SADC-RTSM guidelines :                    |        |          |              |              |
| 2.28.1                       |              | (a) Regulatory Stop sign (R1), 600mm diameter                                                                                                                                                                | No     | 54       |              |              |
| 2.28.2                       |              | (b) Warning sign (W-series), 900mm sides                                                                                                                                                                     | No     | 18       |              |              |
| 2.28.3                       |              | (c) Danger plate sign (W401), 600mm x 150mm                                                                                                                                                                  | No     | 92       |              |              |
| 2.28.4                       |              | (d) Danger plate sign (W402), 600mm x 150mm                                                                                                                                                                  | No     | 92       |              |              |
| 2.28.5                       |              | (e) Additional Road Signage on approval                                                                                                                                                                      | P.Sum  | 1        | R 100 000.00 | R 100 000.00 |
|                              | 8.3.7        | Dismantling and re-erection of road signs having a surface area of:                                                                                                                                          |        |          |              |              |
| 2.28.6                       |              | (a) Up to 2m²                                                                                                                                                                                                | No     | 6        |              |              |
|                              | 8.3.7        | Dismantling and storing of road signs having a surface area of:                                                                                                                                              |        |          |              |              |
| 2.28.7                       |              | (a) Up to 2m²                                                                                                                                                                                                | No     | 6        |              |              |
| <b>2.29</b>                  | 8.4          | <b>ROAD MARKINGS</b>                                                                                                                                                                                         |        |          |              |              |
|                              | PSMM 8.4.1   | Supply and apply SANS approved high quality / high reflective Road Paint with glass-beads, including setting out and pre-marking. All Markings shall fully comply with the applicable SADC -RTSM guidelines. |        |          |              |              |
| 2.29.1                       |              | (a) White lines (broken or unbroken) :                                                                                                                                                                       |        |          |              |              |
| 2.29.2                       |              | (i) 100mm wide                                                                                                                                                                                               | m      | 1 240    |              |              |
| 2.29.3                       |              | (ii) 300mm wide                                                                                                                                                                                              | m      | 290      |              |              |
|                              |              | (b) White characters and symbols                                                                                                                                                                             | m²     | 420      |              |              |
| 2.29.4                       |              | (a) Yellow lines (broken or unbroken) :                                                                                                                                                                      |        |          |              |              |
| 2.29.5                       |              | (i) 100mm wide                                                                                                                                                                                               | m      | 200      |              |              |
| 2.29.6                       |              | (ii) 300mm wide                                                                                                                                                                                              | m      | 150      |              |              |
|                              |              | (b) White characters and symbols                                                                                                                                                                             | m²     | 80       |              |              |
| 2.29.7                       | PSMM 8.4.6   | Reinstate road markings at the end of the maintenance period.                                                                                                                                                | Sum    | 1        |              |              |
| <b>2.30</b>                  |              | <b>SPEEDHUMPS</b>                                                                                                                                                                                            |        |          |              |              |
| 2.30.1                       |              | Construction of Speedhumps complete, as detailed on Drw 5503-0-C906. Signage and Road markings measured elsewhere.                                                                                           | No.off | 12       |              |              |
| <b>2.31</b>                  |              | Supply and fix Solar-powered reflective flickering Cat-eyes where indicated.                                                                                                                                 | No.off | 80       |              |              |
| <b>Total Carried Forward</b> |              |                                                                                                                                                                                                              |        |          |              |              |

**KOUGA LOCAL MUNICIPALITY - BID No.: 88/2021**  
**GRAVEL ROADS UPGRADE IN VARIOUS TOWNS IN THE KOUGA MUNICIPALITY**

KOUGA LOCAL MUNICIPALITY - BID No.: 88/2021  
 GRAVEL ROADS UPGRADE IN VARIOUS TOWNS IN THE KOUGA MUNICIPALITY

**HUMANSDORP PRIORITY ROADS**

**SECTION 3 : STORMWATER**

| Item No                      | Payment      | Description                                                                                                                                            | Unit | Quantity | Rate | Amount R  |
|------------------------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|------|-----------|
| <b>Brought Forward</b>       |              |                                                                                                                                                        |      |          |      |           |
| <b>3</b>                     |              | <b>SECTION 3 : STORMWATER</b>                                                                                                                          |      |          |      |           |
| <b>3.1</b>                   | SANS 1200 C  | <b>SITE CLEARANCE</b>                                                                                                                                  |      |          |      |           |
| 3.1.1                        | 8.2.1        | Clear vegetation and trees of girth up to 0.5m along route of stormwater pipe                                                                          | m    | 6 100    |      |           |
| 3.1.2                        | 8.2.10       | Remove topsoil to a nominal depth of 150mm, stockpile and maintain                                                                                     | m³   | 144      |      |           |
| 3.1.3                        |              | Replace topsoil from stockpile                                                                                                                         | m³   | 144      |      |           |
| <b>3.2</b>                   | SANS 1200 DB | <b>EXCAVATION (TRENCHES)</b>                                                                                                                           |      |          |      |           |
|                              | PSDB 8.3.2   | Excavate in all materials for trenches, select, backfill, compact and dispose of all surplus materials for pipes, including shoring as per PSDB 5.1.5: |      |          |      |           |
|                              |              | 300mm dia. to 600mm dia. for trench depths:                                                                                                            |      |          |      |           |
|                              |              | Over and Up to :                                                                                                                                       |      |          |      |           |
| 3.2.1                        |              | 0,0m 1,0m                                                                                                                                              | m    | 140      |      |           |
| 3.2.2                        |              | 1,01m 2,0m                                                                                                                                             | m    |          |      | Rate Only |
|                              |              | Over 650mm dia. up to 1050mm dia. for trench depth:                                                                                                    |      |          |      |           |
|                              |              | Over and Up to                                                                                                                                         |      |          |      |           |
| 3.2.3                        |              | 0,0m 1,0m                                                                                                                                              | m    | 60       |      |           |
| 3.2.4                        |              | 1,01m 2,0m                                                                                                                                             | m    |          |      | Rate Only |
|                              |              | Extra-over items 3.2.1 to 3.2.11 for:                                                                                                                  |      |          |      |           |
| 3.2.5                        | PSDB 8.3.2   | a) Hard rock excavation                                                                                                                                | m³   | 80       |      |           |
| 3.2.6                        |              | b) Boulder Excavation                                                                                                                                  | m³   | 60       |      |           |
| 3.2.7                        | 8.3.2(c)     | Excavate and dispose of unsuitable material from trench bottom (Provisional)                                                                           | m³   | 30       |      |           |
| <b>3.3</b>                   | 8.3.3        | <b>EXCAVATION ANCILLARIES</b>                                                                                                                          |      |          |      |           |
|                              | 8.3.3.1      | Make up deficiency in backfill material                                                                                                                |      |          |      |           |
| 3.3.1                        | 8.3.3.1(a)   | From excavations on site                                                                                                                               | m³   | 400      |      |           |
| 3.3.2                        | 8.3.3.1(c)   | From commercial sources                                                                                                                                | m³   | 120      |      |           |
| 3.3.3                        | PSDB 8.3.3.3 | Compaction in road reserves                                                                                                                            | m³   | 600      |      |           |
|                              |              | Overhaul (Free haul = 3km)                                                                                                                             |      |          |      |           |
| 3.3.4                        | 8.3.3.4(b)   | Long overhaul                                                                                                                                          | m³km | 3 600    |      |           |
| <b>Total Carried Forward</b> |              |                                                                                                                                                        |      |          |      |           |

**KOUGA LOCAL MUNICIPALITY - BID No.: 88/2021**  
**GRAVEL ROADS UPGRADE IN VARIOUS TOWNS IN THE KOUGA MUNICIPALITY**  
 KOUGA LOCAL MUNICIPALITY - BID No.: 88/2021  
 GRAVEL ROADS UPGRADE IN VARIOUS TOWNS IN THE KOUGA MUNICIPALITY

**HUMANSDORP PRIORITY ROADS**

**SECTION 3 : STORMWATER**

| Item No                      | Payment      | Description                                                                                                                 | Unit | Quantity | Rate | Amount R  |
|------------------------------|--------------|-----------------------------------------------------------------------------------------------------------------------------|------|----------|------|-----------|
| <b>Brought Forward</b>       |              |                                                                                                                             |      |          |      |           |
| <b>3.4</b>                   | PSDB 8.3.5   | <b>EXISTING SERVICES</b>                                                                                                    |      |          |      |           |
|                              |              | Dealing with services that:                                                                                                 |      |          |      |           |
|                              |              | a) intersect a trench:                                                                                                      |      |          |      |           |
| 3.4.1                        |              | Water pipes                                                                                                                 | No   | 120      |      |           |
| 3.4.2                        |              | Water erf connections                                                                                                       | No   | 400      |      |           |
| 3.4.3                        |              | Sewer pipes                                                                                                                 | No   | 60       |      |           |
| 3.4.4                        |              | Stormwater pipes                                                                                                            | No   |          |      | Rate Only |
| 3.4.5                        |              | Underground electrical cables                                                                                               | No   | 180      |      |           |
| 3.4.6                        |              | Overhead electrical cables                                                                                                  | No   | 150      |      |           |
| 3.4.7                        |              | Underground Telkom lines                                                                                                    | No   | 60       |      |           |
| 3.4.8                        |              | Overhead Telkom lines                                                                                                       | No   |          |      | Rate Only |
| 3.4.9                        |              | Kerbs                                                                                                                       | No   |          |      | Rate Only |
|                              |              | b) adjoin a trench                                                                                                          |      |          |      |           |
| 3.4.10                       |              | Water pipes                                                                                                                 | m    | 2 800    |      |           |
| 3.4.11                       |              | Sewer pipes                                                                                                                 | m    | 1 480    |      |           |
| 3.4.12                       |              | Underground electrical cables                                                                                               | m    | 3 600    |      |           |
| 3.4.13                       |              | Overhead electrical cables                                                                                                  | m    | 5 200    |      |           |
| 3.4.15                       |              | Underground Telkom lines                                                                                                    | m    |          |      | Rate Only |
| 3.4.16                       |              | Overhead Telkom lines                                                                                                       | m    |          |      | Rate Only |
| 3.4.17                       |              | Dismantle existing concrete stormwater channel, remove rubbish and re-instate                                               | m    | 220      |      |           |
| <b>3.5</b>                   | SANS 1200 LB | <b>BEDDING</b>                                                                                                              |      |          |      |           |
|                              | 8.2.2.3      | Provision of bedding material compacted to 93% of MOD AASHTO density (100% for sand) with material from commercial sources: |      |          |      |           |
| 3.5.1                        |              | Selected granular material                                                                                                  | m³   | 185      |      |           |
| 3.5.2                        |              | Selected fill material                                                                                                      | m³   |          |      | Rate Only |
|                              | 8.2.2.3      | Provision of bedding material to 93% of MOD AASHTO density (100% for sand) with material from trench excavation:            |      |          |      |           |
| 3.5.3                        |              | Selected granular material                                                                                                  | m³   |          |      | Rate Only |
| 3.5.4                        |              | Selected fill material                                                                                                      | m³   | 1 680    |      |           |
|                              | PS LB 8.2.6  | Bedding in waterlogged conditions                                                                                           |      |          |      |           |
| 3.5.5                        |              | a) 19mm crushed stone to SANS 1083                                                                                          | m³   | 120      |      |           |
| 3.5.6                        |              | b) Geotextile - Bidim A4                                                                                                    | m²   | 450      |      |           |
| <b>Total Carried Forward</b> |              |                                                                                                                             |      |          |      |           |

**KOUGA LOCAL MUNICIPALITY - BID No.: 88/2021**  
**GRAVEL ROADS UPGRADE IN VARIOUS TOWNS IN THE KOUGA MUNICIPALITY**  
 KOUGA LOCAL MUNICIPALITY - BID No.: 88/2021  
 GRAVEL ROADS UPGRADE IN VARIOUS TOWNS IN THE KOUGA MUNICIPALITY

**HUMANSDORP PRIORITY ROADS**

**SECTION 3 : STORMWATER**

| Item No                      | Payment      | Description                                                                                                                                                | Unit | Quantity | Rate | Amount R |
|------------------------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|------|----------|
| <b>Brought Forward</b>       |              |                                                                                                                                                            |      |          |      |          |
| <b>3.6</b>                   | SANS 1200 LE | <b>PIPEWORK: STORMWATER</b>                                                                                                                                |      |          |      |          |
|                              |              | Supply, transport, handle and lay concrete SW pipes, spigot and socket type, on class C bedding :                                                          |      |          |      |          |
| 3.6.1                        |              | (a) 375 mm diameter Class 100 D                                                                                                                            | m    | 16       |      |          |
| 3.6.2                        |              | (b) 450 mm diameter Class 100 D                                                                                                                            | m    | 192      |      |          |
| 3.6.3                        |              | (d) 600 mm diameter Class 100 D                                                                                                                            | m    | 62       |      |          |
| 3.6.4                        |              | (e) 750 mm diameter Class 100 D                                                                                                                            | m    | 114      |      |          |
| 3.6.5                        |              | (d) 900 mm diameter Class 100 D                                                                                                                            | m    | 42       |      |          |
|                              |              | Supply, transport, handle and lay pre-cast concrete SW culverts, either on precast concrete floor slabs or insitu cast floors (both measured else where) : |      |          |      |          |
| 3.6.6                        |              | (a) 300 (H) x 450 (W) mm Class 150 S                                                                                                                       | m    | 64       |      |          |
| 3.6.7                        |              | (a) 450 (H) x 450 (W) mm Class 150 S                                                                                                                       | m    | 240      |      |          |
| 3.6.8                        |              | (a) 450 (H) x 600 (W) mm Class 150 S                                                                                                                       | m    | 80       |      |          |
| 3.6.9                        |              | (a) 600 (H) x 600 (W) mm Class 150 S                                                                                                                       | m    | 166      |      |          |
| 3.6.10                       |              | (a) 600 (H) x 900 (W) mm Class 150 S                                                                                                                       | m    | 28       |      |          |
|                              |              | Supply, transport, handle and lay pre-cast concrete SW culverts floor panels, on 93% compacted insitu material :                                           |      |          |      |          |
| 3.6.11                       |              | (a) 450 (W) mm - 120mm thick                                                                                                                               | m    | 304      |      |          |
| 3.6.12                       |              | (a) 600 (W) mm - 120mm thick                                                                                                                               | m    | 246      |      |          |
| 3.6.13                       |              | (a) 900 (W) mm - 150mm thick                                                                                                                               | m    | 28       |      |          |
| <b>3.7</b>                   |              | <b>MANHOLES, CATCHPITS AND HEAD WALLS</b>                                                                                                                  |      |          |      |          |
|                              |              | a) Brick-built manholes as per drawings and specifications, for depths :                                                                                   |      |          |      |          |
| 3.7.1                        |              | i) Exceeding 0.0m up to 1.5m                                                                                                                               | No   | 16       |      |          |
| 3.7.2                        |              | ii) Exceeding 1.51m up to 2.0m                                                                                                                             | No   | 2        |      |          |
|                              |              | b) Brick-built Catchpits :                                                                                                                                 |      |          |      |          |
|                              |              | Kerb Inlet Type A2 as per drawings and specifications, for depths :                                                                                        |      |          |      |          |
| 3.7.3                        |              | i) Exceeding 0.0m up to 1.0m                                                                                                                               | No   | 6        |      |          |
| 3.7.4                        |              | ii) Exceeding 1.0m up to 1.5m                                                                                                                              | No   | 14       |      |          |
| 3.7.5                        |              | iii) Exceeding 1.51m up to 2.0m                                                                                                                            | No   | 2        |      |          |
| <b>3.8</b>                   |              | <b>ANCILLARIES</b>                                                                                                                                         |      |          |      |          |
|                              | 8.2.9        | Construction of stormwater drainage structure elements:                                                                                                    |      |          |      |          |
| 3.8.1                        |              | Construct debris screen complete as per per drawing 3610-1-C030 & C031-T including stainless steel screen.                                                 | No   | 1        |      |          |
| 3.8.2                        |              | Brick headwalls as shown in per drawing 3610-1-C030 & C031-T                                                                                               | No   | 1        |      |          |
| 3.8.3                        |              | Concrete encasing of pipelines                                                                                                                             | m³   | 20       |      |          |
| <b>Total Carried Forward</b> |              |                                                                                                                                                            |      |          |      |          |

**KOUGA LOCAL MUNICIPALITY - BID No.: 88/2021**

**GRAVEL ROADS UPGRADE IN VARIOUS TOWNS IN THE KOUGA MUNICIPALITY**

KOUGA LOCAL MUNICIPALITY - BID No.: 88/2021

**GRAVEL ROADS UPGRADE IN VARIOUS TOWNS IN THE KOUGA MUNICIPALITY**

**HUMANSDORP PRIORITY ROADS**

**SECTION 3 : STORMWATER**

| Item No                                 | Payment            | Description                                                                                                                                | Unit           | Quantity | Rate | Amount R |
|-----------------------------------------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|------|----------|
| <b>Brought Forward</b>                  |                    |                                                                                                                                            |                |          |      |          |
| <b>3.9</b>                              |                    | <b>CONNECTIONS TO EXISTING</b>                                                                                                             |                |          |      |          |
| 3.9.1                                   | PSLE 8.2.15        | Connection to existing manhole, for pipes up to and including 600mm dia.                                                                   | No             | 4        |      |          |
|                                         | PSLE 8.2.16        | Extra-over Item PSLE 8.2.8 for the construction of manholes on existing pipelines                                                          |                | 2        |      |          |
| 3.9.2                                   |                    | Connection to existing pipeline, for pipes up to and including 900 mm diameter                                                             |                | 2        |      |          |
| <b>3.10</b>                             | <b>SABS1200 DK</b> | <b>GABIONS &amp; PITCHING</b>                                                                                                              |                |          |      |          |
|                                         |                    | Construct Galvinised Gabions 80 x 100 - 2.7mm complete, PVC coated, including unfolding, placing, filling and lacing:                      |                |          |      |          |
| 3.10.1                                  | 8.2.1              | (a) Surface preparation for gabion baskets                                                                                                 | m <sup>2</sup> | 300      |      |          |
| 3.10.2                                  | 8.2.2              | (b) Gabion baskets 1.0m x 1.0m x 1.0m                                                                                                      | m <sup>3</sup> | 53       |      |          |
| 3.10.3                                  | 8.2.2              | (b) Gabion baskets 1.0m x 0.5m x 1.0m                                                                                                      | m <sup>3</sup> | 53       |      |          |
| 3.10.4                                  | 8.2.2              | (c) Gabion mattress 6.0m x 1.0m x 0.3m                                                                                                     | m <sup>3</sup> | 10       |      |          |
| 3.10.5                                  | 8.2.4              | (d) Geotextile to gabions                                                                                                                  | m <sup>2</sup> | 690      |      |          |
| 3.10.6                                  |                    | (f) 800 x 500mm A4 Bidim bags or similar approved by the Engineer filled with insitu material, compacted and sealed                        | No.            | 32       |      |          |
| 3.10.7                                  | 8.2.4              | Supply and hand pack gabion cages from imported crushed rock / stones size >100mm and < 200mm ND.                                          | m <sup>2</sup> | 690      |      |          |
| 3.10.8                                  | 8.2.4              | Source stones from insitu box cut, sieve to retrieve rocks <60mm, temporary stockpile and use for stone-pitch channel construction.        | m <sup>2</sup> | 3 024    |      |          |
| 3.10.9                                  | 8.2.4              | Source stones from commercial sources (only on instruction) rocks <60mm, temporary stockpile and use for stone-pitch channel construction. | m <sup>2</sup> | 1 512    |      |          |
| <b>Total Carried Forward To Summary</b> |                    |                                                                                                                                            |                |          |      |          |

**KOUGA LOCAL MUNICIPALITY - BID No.: 88/2021**  
**GRAVEL ROADS UPGRADE IN VARIOUS TOWNS IN THE KOUGA MUNICIPALITY**

**HUMANSDORP PRIORITY ROADS**

**SECTION 4: ROADWORKS**

| Item No                      | Payment         | Description                                                                                                                                       | Unit           | Quantity | Rate | Amount R  |
|------------------------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|------|-----------|
| <b>4</b>                     |                 | <b>SECTION 4: ROADWORKS</b>                                                                                                                       |                |          |      |           |
| <b>4.1</b>                   |                 | <b>CLEAR SITE</b>                                                                                                                                 |                |          |      |           |
|                              | 8.2.1           | Clear and grub                                                                                                                                    |                |          |      |           |
| 4.1.1                        |                 | (a) General clear and grub to site                                                                                                                | m <sup>2</sup> | 29 680   |      |           |
| <b>4.2</b>                   |                 | <b>SITE CLEARANCE</b>                                                                                                                             |                |          |      |           |
| <b>4.3</b>                   | SANS 1200 DM    | <b>EARTHWORKS (ROADS, SUBGRADE)</b>                                                                                                               |                |          |      |           |
|                              | PSDM 8.3.3.(a)  | Road-bed preparation and compaction of material to                                                                                                |                |          |      |           |
|                              |                 | (a) a minimum of 90% of mod. AASHTO maximum density (100% for sand)                                                                               |                |          |      |           |
| 4.3.1                        |                 | (i) 100mm to roadways                                                                                                                             | m <sup>2</sup> | 21 518   |      |           |
| 4.3.2                        |                 | (ii) 100mm to parking area                                                                                                                        | m <sup>2</sup> | 1 680    |      |           |
| 4.3.3                        |                 | (iii) 100mm to sidewalks and shoulders                                                                                                            | m <sup>2</sup> | 5 565    |      |           |
|                              | PSDM 8.3.3. (b) | In-place treatment of roadbed in hard rock material by:                                                                                           |                |          |      |           |
| 4.3.4                        |                 | (a) Ripping                                                                                                                                       | m <sup>3</sup> | 111      |      |           |
| <b>4.4</b>                   | 8.3.4           | <b>CUT TO FILL</b>                                                                                                                                |                |          |      |           |
|                              |                 | Compacted to minimum 95% of mod. AASHTO maximum density (100% for sand)                                                                           |                |          |      |           |
| 4.4.1                        |                 | (a) on roadways including sidewalks                                                                                                               | m <sup>3</sup> | 230      |      |           |
| 4.4.2                        |                 | (b) parking areas                                                                                                                                 | m <sup>3</sup> | 560      |      |           |
| <b>4.5</b>                   | 8.3.4           | <b>BORROW TO FILL</b>                                                                                                                             |                |          |      |           |
|                              |                 | G7 quality subgrade compacted to minimum 93% of mod. AASHTO maximum density (100% for sand) from commercial source:                               |                |          |      |           |
| 4.5.1                        |                 | (a) on roadways including sidewalks                                                                                                               | m <sup>3</sup> | 161      |      |           |
| 4.5.2                        |                 | (b) parking areas                                                                                                                                 | m <sup>3</sup> | 392      |      |           |
|                              |                 | G7 quality subgrade compacted to minimum 93% of mod. AASHTO maximum density (100% for sand) from designated borrow pit within free haul distance: |                |          |      |           |
| 4.5.3                        |                 | (a) on roadways including sidewalks                                                                                                               | m <sup>3</sup> | 322      |      | Rate Only |
| 4.5.4                        |                 | (b) parking areas                                                                                                                                 | m <sup>3</sup> | 42       |      | Rate Only |
| <b>4.6</b>                   | 8.3.5           | <b>SELECTED LAYER</b>                                                                                                                             |                |          |      |           |
| 4.6.1                        |                 | Construct imported G7 quality upper selected subgrade layer from (a) 150mm upper selected layer in                                                | m <sup>3</sup> |          |      | Rate Only |
| 4.6.2                        |                 | (b) 150mm upper selected layer in                                                                                                                 | m <sup>3</sup> |          |      | Rate Only |
|                              |                 | Construct imported G7 quality selected subgrade layer from                                                                                        |                |          |      |           |
| 4.6.3                        |                 | (a) 150mm selected layer in sidewalks                                                                                                             | m <sup>3</sup> |          |      | Rate Only |
| <b>Total Carried Forward</b> |                 |                                                                                                                                                   |                |          |      |           |

**KOUGA LOCAL MUNICIPALITY - BID No.: 88/2021**  
**GRAVEL ROADS UPGRADE IN VARIOUS TOWNS IN THE KOUGA MUNICIPALITY**

KOUGA LOCAL MUNICIPALITY - BID No.: 88/2021  
 GRAVEL ROADS UPGRADE IN VARIOUS TOWNS IN THE KOUGA MUNICIPALITY

**HUMANSDORP PRIORITY ROADS**

**SECTION 4: ROADWORKS**

| Item No                      | Payment            | Description                                                                                                          | Unit | Quantity | Rate | Amount R  |
|------------------------------|--------------------|----------------------------------------------------------------------------------------------------------------------|------|----------|------|-----------|
| <b>Brought Forward</b>       |                    |                                                                                                                      |      |          |      |           |
| <b>4.7</b>                   | PSDM 8.3.7         | <b>CUT TO SPOIL</b>                                                                                                  |      |          |      |           |
|                              |                    | Soft excavation. Material from:                                                                                      |      |          |      |           |
| 4.7.1                        |                    | (a) roadways including parking areas                                                                                 | m³   | 12 673   |      |           |
|                              |                    | Hard rock excavation. Material from:                                                                                 |      |          |      |           |
| 4.7.2                        |                    | (a) roadways including parking areas                                                                                 | m³   | 314      |      |           |
| 4.7.3                        |                    | (b) boulder excavation.                                                                                              | m³   | 280      |      |           |
| <b>4.8</b>                   | PSDM 8.3.7         | <b>CUT TO STOCKPILE</b>                                                                                              |      |          |      |           |
|                              |                    | On site from soft excavation. Material from:                                                                         |      |          |      |           |
| 4.8.1                        |                    | (a) roadways including parking areas                                                                                 | m³   | 322      |      |           |
| <b>4.9</b>                   | 8.3.13             | <b>SURFACE FINISHES</b>                                                                                              |      |          |      |           |
| 4.9.1                        |                    | (a) Top soiling from stockpile                                                                                       | m²   | 5 565    |      |           |
| 4.9.2                        |                    | (b) Kukuyu Grass planting                                                                                            | m²   | 5 565    |      |           |
| <b>4.10</b>                  | SANS1200 ME 8.3.3  | <b>SUBBASE</b>                                                                                                       |      |          |      |           |
|                              |                    | Construct G6 quality subbase with material from commercial sources, compacted to 95% of mod. AASHTO maximum density: |      |          |      |           |
| 4.10.1                       |                    | (a) 150mm thick layer                                                                                                | m³   | 3 450    |      |           |
|                              | 8.3.3              | Construct G7 quality subbase with material from commercial sources, compacted to 93% of mod. AASHTO maximum density: |      |          |      |           |
| 4.10.2                       |                    | (b) 200mm in sidewalks                                                                                               | m³   | 1 113    |      |           |
| 4.10.3                       |                    | (c) 150mm at parking bays                                                                                            | m³   | 840      |      |           |
| 4.10.4                       | 8.3.5(d)           | Extra over item 8.3.3(a) and 8.3.3(c) to process subbase material by stabilisation (C4).                             | m³   |          |      | Rate Only |
| 4.10.5                       | 8.3.8              | (i) Stabilising agent: cement grade CEM II 32.5N for layers on roadway.                                              | t    |          |      | Rate Only |
| <b>4.11</b>                  | SANS 1200 MF 8.3.3 | <b>BASE</b>                                                                                                          |      |          |      |           |
|                              |                    | Construct G4 quality base with material from commercial sources, compacted to 97% of mod. AASHTO density             |      |          |      |           |
| 4.11.1                       |                    | (a) 100mm to roadways                                                                                                | m³   | 2 152    |      |           |
| 4.11.2                       |                    | (b) 150mm to parking areas                                                                                           | m³   | 168      |      |           |
| <b>4.12</b>                  | SANS 1200 MH       | <b>ASPHALT BASE AND SURFACING</b>                                                                                    |      |          |      |           |
| <b>4.13</b>                  | 8.5.1              | <b>PRIME COAT</b>                                                                                                    |      |          |      |           |
|                              |                    | Prime coat using MC-30 cut-back bitumen at 0,7 l/m²                                                                  |      |          |      |           |
| 4.13.1                       |                    | (a) on roadways including parking areas and sidewalks                                                                | m²   | 21 518   |      |           |
| <b>Total Carried Forward</b> |                    |                                                                                                                      |      |          |      |           |

**KOUGA LOCAL MUNICIPALITY - BID No.: 88/2021**  
**GRAVEL ROADS UPGRADE IN VARIOUS TOWNS IN THE KOUGA MUNICIPALITY**

KOUGA LOCAL MUNICIPALITY - BID No.: 88/2021  
 GRAVEL ROADS UPGRADE IN VARIOUS TOWNS IN THE KOUGA MUNICIPALITY

**HUMANSDORP PRIORITY ROADS**

**SECTION 4: ROADWORKS**

| Item No                      | Payment      | Description                                                                                                          | Unit | Quantity | Rate | Amount R  |
|------------------------------|--------------|----------------------------------------------------------------------------------------------------------------------|------|----------|------|-----------|
| <b>Brought Forward</b>       |              |                                                                                                                      |      |          |      |           |
| <b>4.14</b>                  | 8.5.3        | <b>TACK COAT</b>                                                                                                     |      |          |      |           |
| 4.14.1                       |              | Tack coat using 30% stable mix emulsion (to saw cuts)                                                                | m²   | 21 518   |      |           |
| <b>4.15</b>                  |              | <b>ASPHALT BASE</b>                                                                                                  |      |          |      |           |
|                              | 8.5.4        | Continuously graded asphalt base compacted to 92% of Rice density                                                    |      |          |      |           |
| 4.15.1                       |              | (a) 25mm thick layer, on roadways                                                                                    | t    |          |      | Rate Only |
| <b>4.16</b>                  |              | <b>ASPHALT SURFACING</b>                                                                                             |      |          |      |           |
|                              | 8.5.4        | Continuously graded medium grade asphalt compacted to 92% of Rice density                                            |      |          |      |           |
| 4.16.1                       |              | (a) 25mm thick to roadways                                                                                           | t    | 968      |      |           |
| 4.16.2                       |              | (b) 25mm thick to parking areas                                                                                      | t    | 12       |      |           |
|                              | 8.5.4        | Continuously graded medium grade asphalt compacted to at least 95% of Marshall density                               |      |          |      |           |
| 4.16.3                       |              | (a) 20mm to sidewalks                                                                                                | t    |          |      | Rate Only |
| <b>4.17</b>                  | 8.5.5        | <b>VARIATION IN QUANTITIES OF PRIME AND BITUMINOUS BINDERS</b>                                                       |      |          |      |           |
| 4.17.1                       |              | (a) MC 30 cutback bitumen                                                                                            | t    |          |      | Rate Only |
| 4.17.2                       |              | (b) 65% spray grade emulsion                                                                                         | t    |          |      | Rate Only |
| <b>4.18</b>                  | 8.5.5        | <b>VARIATION IN QUANTITIES OF AGGREGATE</b>                                                                          |      |          |      |           |
| <b>4.19</b>                  | PSMH 8.5.9   | <b>SAWCUTS</b>                                                                                                       |      |          |      |           |
| 4.19.1                       |              | (a) Cutting asphalt, 25mm thick                                                                                      | m    | 80       |      |           |
| 4.19.2                       |              | (b) Cutting pavement layers, 100 mm thick                                                                            | m    | 1 240    |      |           |
| 4.19.3                       | PSMH 8.5.10  | Cleaning the joints with compressed air                                                                              | m    | 1 240    |      |           |
| 4.19.4                       | PSMH 8.5.12  | Extra-over Item for the transportation of bitumen from outside the Kouga Municipal area                              | Sum  | 1        |      |           |
| <b>4.20</b>                  | SANS 1200 MJ | <b>SEGMENTED PAVING</b>                                                                                              |      |          |      |           |
|                              | PSMJ 8.2.2   | Construction of paving complete:                                                                                     |      |          |      |           |
| 4.20.1                       |              | (a) 60 mm interlocking paver, (25 MPa, 200 x 100mm grey) on a 20mm thick sand (rate to include the 20mm thick sand). | m²   | 5 565    |      |           |
| 4.20.2                       |              | (b) Cutting units to fit edge restraints                                                                             | m    | 3 710    |      |           |
| <b>4.21</b>                  | SANS 1200 MK | <b>KERBING AND CHANNELING</b>                                                                                        |      |          |      |           |
| <b>4.22</b>                  |              | <b>CONCRETE KERBS AND CHANNELS</b>                                                                                   |      |          |      |           |
| <b>4.23</b>                  | 8.2.1        | <b>PRECAST CONCRETE KERBING</b>                                                                                      |      |          |      |           |
|                              |              | (a) Barrier Kerb, SANS - Fig 7.                                                                                      |      |          |      |           |
| 4.23.1                       |              | (i) Straights                                                                                                        | m    | 70       |      |           |
| 4.23.3                       |              | (ii) Curves, 1m to 5m radius                                                                                         | m    | 25       |      |           |
| 4.23.4                       |              | (iii) Curves, 5m radius and larger.                                                                                  | m    | 224      |      |           |
| <b>Total Carried Forward</b> |              |                                                                                                                      |      |          |      |           |

**KOUGA LOCAL MUNICIPALITY - BID No.: 88/2021**  
**GRAVEL ROADS UPGRADE IN VARIOUS TOWNS IN THE KOUGA MUNICIPALITY**  
**KOUGA LOCAL MUNICIPALITY - BID No.: 88/2021**  
**GRAVEL ROADS UPGRADE IN VARIOUS TOWNS IN THE KOUGA MUNICIPALITY**

**HUMANSDORP PRIORITY ROADS**

**SECTION 4: ROADWORKS**

| Item No                      | Payment      | Description                                                                                                                                                                                                  | Unit   | Quantity | Rate        | Amount R    |
|------------------------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----------|-------------|-------------|
| <b>Brought Forward</b>       |              |                                                                                                                                                                                                              |        |          |             |             |
| <b>4.24</b>                  | 8.2.2        | <b>PRECAST CONCRETE KERBING CHANNELLING COMBINATION</b><br>(a) Mountable kerb (Channel Type)                                                                                                                 |        |          |             |             |
| 4.24.1                       |              | (i) Straights                                                                                                                                                                                                | m      | 7 420    |             |             |
| 4.24.2                       |              | (ii) Curves, 1m to 5m radius                                                                                                                                                                                 | m      |          |             | Rate Only   |
| 4.24.3                       |              | (iii) Curves, 5m radius and larger.                                                                                                                                                                          | m      | 50       |             |             |
| <b>4.25</b>                  | 8.2.4        | <b>DEPRESSED KERBS</b>                                                                                                                                                                                       |        |          |             |             |
| 4.25.1                       |              | (a) Depressed kerbs at pedestrian crossings                                                                                                                                                                  | m      | 10       |             |             |
| <b>4.26</b>                  | PSMK 8.2.16  | <b>IN-SITU TRANSITIONS</b><br>Concrete Class 25 transitions, 2m long between:                                                                                                                                |        |          |             |             |
| 4.26.1                       |              | (a) Barrier Kerb (Fig 7) and Mountable (Channel-type) kerb                                                                                                                                                   | No     | 14       |             |             |
| 4.26.2                       | PSMK 8.2.17  | Cast in-situ concrete (15 MPa) for parking embayment bullnoses and curves                                                                                                                                    | m³     | 8        |             |             |
| <b>4.27</b>                  | SANS 1200 MM | <b>ANCILLARY ROADWORKS</b>                                                                                                                                                                                   |        |          |             |             |
| <b>4.28</b>                  | 8.3          | <b>PERMANENT ROAD SIGNS</b>                                                                                                                                                                                  |        |          |             |             |
|                              | 8.3.6        | Supply and install all statutory high-reflective Road Signs, and the like, supplied and erected complete with soil-cement. All road signs to fully comply with the SADC-RTSM guidelines :                    |        |          |             |             |
| 4.28.1                       |              | (a) Regulatory Stop sign (R1), 600mm diameter                                                                                                                                                                | No     | 22       |             |             |
| 4.28.2                       |              | (b) Warning sign (W-series), 900mm sides                                                                                                                                                                     | No     | 8        |             |             |
| 4.28.3                       |              | (c) Danger plate sign (W401), 600mm x 150mm                                                                                                                                                                  | No     | 38       |             |             |
| 4.28.4                       |              | (d) Danger plate sign (W402), 600mm x 150mm                                                                                                                                                                  | No     | 38       |             |             |
| 4.28.5                       |              | (e) Additional Road Signage on approval                                                                                                                                                                      | P.Sum  | 1        | R 70 000.00 | R 70 000.00 |
|                              | 8.3.7        | Dismantling and re-erection of road signs having a surface area of:                                                                                                                                          |        |          |             |             |
| 4.28.6                       |              | (a) Up to 2m²                                                                                                                                                                                                | No     | 6        |             |             |
|                              | 8.3.7        | Dismantling and storing of road signs having a surface area of:                                                                                                                                              |        |          |             |             |
| 4.28.7                       |              | (a) Up to 2m²                                                                                                                                                                                                | No     | 6        |             |             |
| <b>4.29</b>                  | 8.4          | <b>ROAD MARKINGS</b>                                                                                                                                                                                         |        |          |             |             |
|                              | PSMM 8.4.1   | Supply and apply SANS approved high quality / high reflective Road Paint with glass-beads, including setting out and pre-marking. All Markings shall fully comply with the applicable SADC -RTSM guidelines. |        |          |             |             |
|                              |              | (a) White lines (broken or unbroken) :                                                                                                                                                                       |        |          |             |             |
| 4.29.1                       |              | (i) 100mm wide                                                                                                                                                                                               | m      | 520      |             |             |
| 4.29.2                       |              | (ii) 300mm wide                                                                                                                                                                                              | m      | 110      |             |             |
| 4.29.3                       |              | (b) White characters and symbols                                                                                                                                                                             | m²     | 230      |             |             |
|                              |              | (a) Yellow lines (broken or unbroken) :                                                                                                                                                                      |        |          |             |             |
| 4.29.4                       |              | (i) 100mm wide                                                                                                                                                                                               | m      | 200      |             |             |
| 4.29.5                       |              | (ii) 300mm wide                                                                                                                                                                                              | m      | 150      |             |             |
| 4.29.6                       |              | (b) White characters and symbols                                                                                                                                                                             | m²     | 80       |             |             |
| 4.29.7                       | PSMM 8.4.6   | Reinstate road markings at the end of the maintenance period.                                                                                                                                                | Sum    | 1        |             |             |
| <b>4.30</b>                  |              | <b>SPEEDHUMPS</b>                                                                                                                                                                                            |        |          |             |             |
| 4.30.1                       |              | Construction of Speedhumps complete, as detailed on Drw 5503-0-C906. Signage and Road markings measured elsewhere.                                                                                           | No.off | 8        |             |             |
| <b>4.31</b>                  |              | Supply and fix Solar-powered reflective flickering Cat-eyes where indicated.                                                                                                                                 | No.off | 50       |             |             |
| <b>Total Carried Forward</b> |              |                                                                                                                                                                                                              |        |          |             |             |

**KOUGA LOCAL MUNICIPALITY - BID No.: 88/2021**  
**GRAVEL ROADS UPGRADE IN VARIOUS TOWNS IN THE KOUGA MUNICIPALITY**

KOUGA LOCAL MUNICIPALITY - BID No.: 88/2021  
 GRAVEL ROADS UPGRADE IN VARIOUS TOWNS IN THE KOUGA MUNICIPALITY

**HUMANSDORP PRIORITY ROADS**

**SECTION 5 : STORMWATER**

| Item No                      | Payment      | Description                                                                                                                                            | Unit | Quantity | Rate | Amount R  |
|------------------------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|------|-----------|
| <b>Brought Forward</b>       |              |                                                                                                                                                        |      |          |      |           |
| <b>5</b>                     |              | <b>SECTION 5 : STORMWATER</b>                                                                                                                          |      |          |      |           |
| <b>5.1</b>                   | SANS 1200 C  | <b>SITE CLEARANCE</b>                                                                                                                                  |      |          |      |           |
| 5.1.1                        | 8.2.1        | Clear vegetation and trees of girth up to 0.5m along route of stormwater pipe                                                                          | m    | 2 650    |      |           |
| 5.1.2                        | 8.2.10       | Remove topsoil to a nominal depth of 150mm, stockpile and maintain                                                                                     | m³   | 53       |      |           |
| 5.1.3                        |              | Replace topsoil from stockpile                                                                                                                         | m³   | 53       |      |           |
| <b>5.2</b>                   | SANS 1200 DB | <b>EXCAVATION (TRENCHES)</b>                                                                                                                           |      |          |      |           |
|                              | PSDB 8.3.2   | Excavate in all materials for trenches, select, backfill, compact and dispose of all surplus materials for pipes, including shoring as per PSDB 5.1.5: |      |          |      |           |
|                              |              | 300mm dia. to 600mm dia. for trench depths:                                                                                                            |      |          |      |           |
|                              |              | Over and Up to :                                                                                                                                       |      |          |      |           |
| 5.2.1                        |              | 0,0m 1,0m                                                                                                                                              | m    | 62       |      |           |
| 5.2.2                        |              | 1,01m 2,0m                                                                                                                                             | m    |          |      | Rate Only |
|                              |              | Over 650mm dia. up to 1050mm dia. for trench depth:                                                                                                    |      |          |      |           |
|                              |              | Over and Up to                                                                                                                                         |      |          |      |           |
| 5.2.3                        |              | 0,0m 1,0m                                                                                                                                              | m    | 24       |      |           |
| 5.2.4                        |              | 1,01m 2,0m                                                                                                                                             | m    |          |      | Rate Only |
|                              |              | Extra-over items 3.2.1 to 3.2.11 for:                                                                                                                  |      |          |      |           |
| 5.2.5                        | PSDB 8.3.2   | a) Hard rock excavation                                                                                                                                | m³   | 40       |      |           |
| 5.2.6                        |              | b) Boulder Excavation                                                                                                                                  | m³   | 25       |      |           |
| 5.2.7                        | 8.3.2(c)     | Excavate and dispose of unsuitable material from trench bottom (Provisional)                                                                           | m³   | 30       |      |           |
| <b>5.3</b>                   | 8.3.3        | <b>EXCAVATION ANCILLARIES</b>                                                                                                                          |      |          |      |           |
|                              | 8.3.3.1      | Make up deficiency in backfill material                                                                                                                |      |          |      |           |
| 5.3.1                        | 8.3.3.1(a)   | From excavations on site                                                                                                                               | m³   | 220      |      |           |
| 5.3.2                        | 8.3.3.1(c)   | From commercial sources                                                                                                                                | m³   | 80       |      |           |
| 5.3.3                        | PSDB 8.3.3.3 | Compaction in road reserves                                                                                                                            | m³   | 400      |      |           |
|                              |              | Overhaul (Free haul = 3km)                                                                                                                             |      |          |      |           |
| 5.3.4                        | 8.3.3.4(b)   | Long overhaul                                                                                                                                          | m³km | 2 400    |      |           |
| <b>Total Carried Forward</b> |              |                                                                                                                                                        |      |          |      |           |

**KOUGA LOCAL MUNICIPALITY - BID No.: 88/2021**  
**GRAVEL ROADS UPGRADE IN VARIOUS TOWNS IN THE KOUGA MUNICIPALITY**

KOUGA LOCAL MUNICIPALITY - BID No.: 88/2021  
 GRAVEL ROADS UPGRADE IN VARIOUS TOWNS IN THE KOUGA MUNICIPALITY

**HUMANSDORP PRIORITY ROADS**

**SECTION 5 : STORMWATER**

| Item No                      | Payment             | Description                                                                                                                 | Unit | Quantity | Rate | Amount R  |
|------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------|------|----------|------|-----------|
| <b>Brought Forward</b>       |                     |                                                                                                                             |      |          |      |           |
| <b>5.4</b>                   | <b>PSDB 8.3.5</b>   | <b>EXISTING SERVICES</b>                                                                                                    |      |          |      |           |
|                              |                     | Dealing with services that:                                                                                                 |      |          |      |           |
|                              |                     | a) intersect a trench:                                                                                                      |      |          |      |           |
| 5.4.1                        |                     | Water pipes                                                                                                                 | No   | 60       |      |           |
| 5.1.2                        |                     | Water erf connections                                                                                                       | No   | 200      |      |           |
| 5.4.3                        |                     | Sewer pipes                                                                                                                 | No   | 30       |      |           |
| 5.4.4                        |                     | Stormwater pipes                                                                                                            | No   |          |      | Rate Only |
| 5.4.5                        |                     | Underground electrical cables                                                                                               | No   | 90       |      |           |
| 5.4.6                        |                     | Overhead electrical cables                                                                                                  | No   | 75       |      |           |
| 5.4.7                        |                     | Underground Telkom lines                                                                                                    | No   | 30       |      |           |
| 5.4.8                        |                     | Overhead Telkom lines                                                                                                       | No   |          |      | Rate Only |
| 5.4.9                        |                     | Kerbs                                                                                                                       | No   |          |      | Rate Only |
|                              |                     | b) adjoin a trench                                                                                                          |      |          |      |           |
| 5.4.10                       |                     | Water pipes                                                                                                                 | m    | 2 400    |      |           |
| 5.4.11                       |                     | Sewer pipes                                                                                                                 | m    | 720      |      |           |
| 5.4.12                       |                     | Underground electrical cables                                                                                               | m    | 1 800    |      |           |
| 5.4.13                       |                     | Overhead electrical cables                                                                                                  | m    | 2 700    |      |           |
| 5.4.14                       |                     | Underground Telkom lines                                                                                                    | m    |          |      | Rate Only |
| 5.4.15                       |                     | Overhead Telkom lines                                                                                                       | m    |          |      | Rate Only |
| 5.4.16                       |                     | Dismantle existing concrete stormwater channel, remove rubbish and re-instate                                               | m    | 110      |      |           |
| <b>5.5</b>                   | <b>SANS 1200 LB</b> | <b>BEDDING</b>                                                                                                              |      |          |      |           |
|                              | 8.2.2.3             | Provision of bedding material compacted to 93% of MOD AASHTO density (100% for sand) with material from commercial sources: |      |          |      |           |
| 5.5.1                        |                     | Selected granular material                                                                                                  | m³   | 90       |      |           |
| 5.5.2                        |                     | Selected fill material                                                                                                      | m³   |          |      | Rate Only |
|                              | 8.2.2.3             | Provision of bedding material to 93% of MOD AASHTO density (100% for sand) with material from trench excavation:            |      |          |      |           |
| 5.5.3                        |                     | Selected granular material                                                                                                  | m³   |          |      | Rate Only |
| 5.5.4                        |                     | Selected fill material                                                                                                      | m³   | 820      |      |           |
|                              | PS LB 8.2.6         | Bedding in waterlogged conditions                                                                                           |      |          |      |           |
| 5.5.5                        |                     | a) 19mm crushed stone to SANS 1083                                                                                          | m³   | 60       |      |           |
| 5.5.6                        |                     | b) Geotextile - Bidim A4                                                                                                    | m²   | 225      |      |           |
|                              |                     |                                                                                                                             |      |          |      |           |
|                              |                     |                                                                                                                             |      |          |      |           |
| <b>Total Carried Forward</b> |                     |                                                                                                                             |      |          |      |           |

**KOUGA LOCAL MUNICIPALITY - BID No.: 88/2021**  
**GRAVEL ROADS UPGRADE IN VARIOUS TOWNS IN THE KOUGA MUNICIPALITY**

KOUGA LOCAL MUNICIPALITY - BID No.: 88/2021  
 GRAVEL ROADS UPGRADE IN VARIOUS TOWNS IN THE KOUGA MUNICIPALITY

**HUMANSDORP PRIORITY ROADS**

**SECTION 5 : STORMWATER**

| Item No                      | Payment             | Description                                                                                                                                                | Unit | Quantity | Rate | Amount R |
|------------------------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|------|----------|
| <b>Brought Forward</b>       |                     |                                                                                                                                                            |      |          |      |          |
| <b>5.6</b>                   | <b>SANS 1200 LE</b> | <b>PIPEWORK: STORMWATER</b>                                                                                                                                |      |          |      |          |
|                              |                     | Supply, transport, handle and lay concrete SW pipes, spigot and socket type, on class C bedding :                                                          |      |          |      |          |
| 5.6.1                        |                     | (a) 375 mm diameter Class 100 D                                                                                                                            | m    | 8        |      |          |
| 5.6.2                        |                     | (b) 450 mm diameter Class 100 D                                                                                                                            | m    | 82       |      |          |
| 5.6.3                        |                     | (d) 600 mm diameter Class 100 D                                                                                                                            | m    | 30       |      |          |
| 5.6.4                        |                     | (e) 750 mm diameter Class 100 D                                                                                                                            | m    | 72       |      |          |
| 5.6.5                        |                     | (d) 900 mm diameter Class 100 D                                                                                                                            | m    | 30       |      |          |
|                              |                     | Supply, transport, handle and lay pre-cast concrete SW culverts, either on precast concrete floor slabs or insitu cast floors (both measured else where) : |      |          |      |          |
| 5.6.6                        |                     | (a) 300 (H) x 450 (W) mm Class 150 S                                                                                                                       | m    | 12       |      |          |
| 5.6.7                        |                     | (a) 450 (H) x 450 (W) mm Class 150 S                                                                                                                       | m    | 42       |      |          |
| 5.6.8                        |                     | (a) 450 (H) x 600 (W) mm Class 150 S                                                                                                                       | m    | 60       |      |          |
| 5.6.9                        |                     | (a) 600 (H) x 600 (W) mm Class 150 S                                                                                                                       | m    | 82       |      |          |
| 5.6.10                       |                     | (a) 600 (H) x 900 (W) mm Class 150 S                                                                                                                       | m    | 14       |      |          |
|                              |                     | Supply, transport, handle and lay pre-cast concrete SW culverts floor panels, on 93% compacted insitu material :                                           |      |          |      |          |
| 5.6.11                       |                     | (a) 450 (W) mm - 120mm thick                                                                                                                               | m    | 54       |      |          |
| 5.6.12                       |                     | (a) 600 (W) mm - 120mm thick                                                                                                                               | m    | 142      |      |          |
| 5.6.13                       |                     | (a) 900 (W) mm - 150mm thick                                                                                                                               | m    | 14       |      |          |
| <b>5.7</b>                   |                     | <b>MANHOLES, CATCHPITS AND HEAD WALLS</b>                                                                                                                  |      |          |      |          |
|                              |                     | a) Brick-built manholes as per drawings and specifications, for depths :                                                                                   |      |          |      |          |
| 5.7.1                        |                     | i) Exceeding 0.0m up to 1.5m                                                                                                                               | No   | 6        |      |          |
| 5.7.2                        |                     | ii) Exceeding 1.51m up to 2.0m                                                                                                                             | No   | 2        |      |          |
|                              |                     | b) Brick-built Catchpits :                                                                                                                                 |      |          |      |          |
|                              |                     | Kerb Inlet Type A2 as per drawings and specifications, for depths :                                                                                        |      |          |      |          |
| 5.7.3                        |                     | i) Exceeding 0.0m up to 1.0m                                                                                                                               | No   | 2        |      |          |
| 5.7.4                        |                     | ii) Exceeding 1.0m up to 1.5m                                                                                                                              | No   | 8        |      |          |
| 5.7.5                        |                     | iii) Exceeding 1.51m up to 2.0m                                                                                                                            | No   | 1        |      |          |
| <b>5.8</b>                   |                     | <b>ANCILLARIES</b>                                                                                                                                         |      |          |      |          |
|                              | 8.2.9               | Construction of stormwater drainage structure elements:                                                                                                    |      |          |      |          |
| 5.8.1                        |                     | Construct debris screen complete as per per drawing 3610-1-C030 & C031-T including stainless steel screen.                                                 | No   | 1        |      |          |
| 5.8.2                        |                     | Brick headwalls as shown in per drawing 3610-1-C030 & C031-T                                                                                               | No   | 1        |      |          |
| 5.8.3                        |                     | Concrete encasing of pipelines                                                                                                                             | m³   | 10       |      |          |
| <b>Total Carried Forward</b> |                     |                                                                                                                                                            |      |          |      |          |

**KOUGA LOCAL MUNICIPALITY - BID No.: 88/2021**  
**GRAVEL ROADS UPGRADE IN VARIOUS TOWNS IN THE KOUGA MUNICIPALITY**

KOUGA LOCAL MUNICIPALITY - BID No.: 88/2021  
 GRAVEL ROADS UPGRADE IN VARIOUS TOWNS IN THE KOUGA MUNICIPALITY

**HUMANSDORP PRIORITY ROADS**

**SECTION 5 : STORMWATER**

| Item No                                 | Payment            | Description                                                                                                                                | Unit           | Quantity | Rate | Amount R |
|-----------------------------------------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|------|----------|
| <b>Brought Forward</b>                  |                    |                                                                                                                                            |                |          |      |          |
| <b>5.9</b>                              |                    | <b>CONNECTIONS TO EXISTING</b>                                                                                                             |                |          |      |          |
| 5.9.1                                   | PSLE 8.2.15        | Connection to existing manhole, for pipes up to and including 600mm dia.                                                                   | No             | 4        |      |          |
|                                         | PSLE 8.2.16        | Extra-over Item PSLE 8.2.8 for the construction of manholes on existing pipelines                                                          |                | 2        |      |          |
| 5.9.2                                   |                    | Connection to existing pipeline, for pipes up to and including 900 mm diameter                                                             |                | 2        |      |          |
| <b>5.10</b>                             | <b>SABS1200 DK</b> | <b>GABIONS &amp; PITCHING</b>                                                                                                              |                |          |      |          |
|                                         |                    | Construct Galvanised Gabions 80 x 100 - 2.7mm complete, PVC coated, including unfolding, placing, filling and lacing:                      |                |          |      |          |
| 5.10.1                                  | 8.2.1              | (a) Surface preparation for gabion baskets                                                                                                 | m <sup>2</sup> | 220      |      |          |
| 5.10.2                                  | 8.2.2              | (b) Gabion baskets 1.0m x 1.0m x 1.0m                                                                                                      | m <sup>3</sup> | 26       |      |          |
| 5.10.3                                  | 8.2.2              | (b) Gabion baskets 1.0m x 0.5m x 1.0m                                                                                                      | m <sup>3</sup> | 26       |      |          |
| 5.10.4                                  | 8.2.2              | (c) Gabion mattress 6.0m x 1.0m x 0.3m                                                                                                     | m <sup>3</sup> | 10       |      |          |
| 5.10.5                                  | 8.2.4              | (d) Geotextile to gabions                                                                                                                  | m <sup>2</sup> | 340      |      |          |
| 5.10.6                                  |                    | (f) 800 x 500mm A4 Bidim bags or similar approved by the Engineer filled with insitu material, compacted and sealed                        | No.            | 12       |      |          |
| 5.10.7                                  | 8.2.4              | Supply and hand pack gabion cages from imported crushed rock / stones size >100mm and < 200mm ND.                                          | m <sup>2</sup> | 420      |      |          |
| 5.10.8                                  | 8.2.4              | Source stones from insitu box cut, sieve to retrieve rocks <60mm, temporary stockpile and use for stone-pitch channel construction.        | m <sup>2</sup> | 1 113    |      |          |
| 5.10.9                                  | 8.2.4              | Source stones from commercial sources (only on instruction) rocks <60mm, temporary stockpile and use for stone-pitch channel construction. | m <sup>2</sup> | 557      |      |          |
| <b>Total Carried Forward To Summary</b> |                    |                                                                                                                                            |                |          |      |          |

**KOUGA LOCAL MUNICIPALITY - BID No.: 88/2021**  
**GRAVEL ROADS UPGRADE IN VARIOUS TOWNS IN THE KOUGA MUNICIPALITY**

**THORNHILL PRIORITY ROADS**

**SECTION 6: ROADWORKS**

| Item No                      | Payment        | Description                                                                                                                                       | Unit           | Quantity | Rate | Amount R  |
|------------------------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|------|-----------|
| <b>6</b>                     |                | <b>SECTION 6: ROADWORKS</b>                                                                                                                       |                |          |      |           |
| <b>6.1</b>                   |                | <b>CLEAR SITE</b>                                                                                                                                 |                |          |      |           |
|                              | 8.2.1          | Clear and grub                                                                                                                                    |                |          |      |           |
| 6.1.1                        |                | (a) General clear and grub to site                                                                                                                | m <sup>2</sup> | 19 040   |      |           |
| <b>6.2</b>                   |                | <b>SITE CLEARANCE</b>                                                                                                                             |                |          |      |           |
| <b>6.3</b>                   | SANS 1200 DM   | <b>EARTHWORKS (ROADS, SUBGRADE)</b>                                                                                                               |                |          |      |           |
|                              | PSDM 8.3.3.(a) | Road-bed preparation and compaction of material to                                                                                                |                |          |      |           |
|                              |                | (a) a minimum of 90% of mod. AASHTO maximum density (100% for sand)                                                                               |                |          |      |           |
| 6.3.1                        |                | (i) 100mm to roadways                                                                                                                             | m <sup>2</sup> | 13 804   |      |           |
| 6.3.2                        |                | (ii) 100mm to parking area                                                                                                                        | m <sup>2</sup> | 1 120    |      |           |
| 6.3.3                        |                | (iii) 100mm to sidewalks and shoulders                                                                                                            | m <sup>2</sup> | 3 570    |      |           |
|                              | PSDM 8.3.3.(b) | In-place treatment of roadbed in hard rock material by:                                                                                           |                |          |      |           |
| 6.3.4                        |                | (a) Ripping                                                                                                                                       | m <sup>3</sup> | 71       |      |           |
| <b>6.4</b>                   | 8.3.4          | <b>CUT TO FILL</b>                                                                                                                                |                |          |      |           |
|                              |                | Compacted to minimum 95% of mod. AASHTO maximum density (100% for sand)                                                                           |                |          |      |           |
| 6.4.1                        |                | (a) on roadways including sidewalks                                                                                                               | m <sup>3</sup> | 148      |      |           |
| 6.4.2                        |                | (b) parking areas                                                                                                                                 | m <sup>3</sup> | 210      |      |           |
| <b>6.5</b>                   | 8.3.4          | <b>BORROW TO FILL</b>                                                                                                                             |                |          |      |           |
|                              |                | G7 quality subgrade compacted to minimum 93% of mod. AASHTO maximum density (100% for sand) from commercial source:                               |                |          |      |           |
| 6.5.1                        |                | (a) on roadways including sidewalks                                                                                                               | m <sup>3</sup> | 104      |      |           |
| 6.5.2                        |                | (b) parking areas                                                                                                                                 | m <sup>3</sup> | 147      |      |           |
|                              |                | G7 quality subgrade compacted to minimum 93% of mod. AASHTO maximum density (100% for sand) from designated borrow pit within free haul distance: |                |          |      |           |
| 6.5.3                        |                | (a) on roadways including sidewalks                                                                                                               | m <sup>3</sup> | 224      |      | Rate Only |
| 6.5.4                        |                | (b) parking areas                                                                                                                                 | m <sup>3</sup> | 17       |      | Rate Only |
| <b>6.6</b>                   | 8.3.5          | <b>SELECTED LAYER</b>                                                                                                                             |                |          |      |           |
| 6.6.1                        |                | Construct imported G7 quality upper selected subgrade layer from (a) 150mm upper selected layer in                                                | m <sup>3</sup> |          |      | Rate Only |
| 6.6.2                        |                | (b) 150mm upper selected layer in                                                                                                                 | m <sup>3</sup> |          |      | Rate Only |
|                              |                | Construct imported G7 quality selected subgrade layer from                                                                                        |                |          |      |           |
| 6.6.3                        |                | (a) 150mm selected layer in sidewalks                                                                                                             | m <sup>3</sup> |          |      | Rate Only |
| <b>Total Carried Forward</b> |                |                                                                                                                                                   |                |          |      |           |

**KOUGA LOCAL MUNICIPALITY - BID No.: 88/2021**  
**GRAVEL ROADS UPGRADE IN VARIOUS TOWNS IN THE KOUGA MUNICIPALITY**

KOUGA LOCAL MUNICIPALITY - BID No.: 88/2021  
 GRAVEL ROADS UPGRADE IN VARIOUS TOWNS IN THE KOUGA MUNICIPALITY

| THORNHILL PRIORITY ROADS     |                    |                                                                                                                      |      | SECTION 6: ROADWORKS |      |           |
|------------------------------|--------------------|----------------------------------------------------------------------------------------------------------------------|------|----------------------|------|-----------|
| Item No                      | Payment            | Description                                                                                                          | Unit | Quantity             | Rate | Amount R  |
| <b>Brought Forward</b>       |                    |                                                                                                                      |      |                      |      |           |
| <b>6.7</b>                   | PSDM 8.3.7         | <b>CUT TO SPOIL</b>                                                                                                  |      |                      |      |           |
|                              |                    | Soft excavation. Material from:                                                                                      |      |                      |      |           |
| 6.7.1                        |                    | (a) roadways including parking areas                                                                                 | m³   | 5 902                |      |           |
|                              |                    | Hard rock excavation. Material from:                                                                                 |      |                      |      |           |
| 6.7.2                        |                    | (a) roadways including parking areas                                                                                 | m³   | 118                  |      |           |
| 6.7.3                        |                    | (b) boulder excavation.                                                                                              | m³   | 112                  |      |           |
| <b>6.8</b>                   | PSDM 8.3.7         | <b>CUT TO STOCKPILE</b>                                                                                              |      |                      |      |           |
|                              |                    | On site from soft excavation. Material from:                                                                         |      |                      |      |           |
| 6.8.1                        |                    | (a) roadways including parking areas                                                                                 | m³   | 207                  |      |           |
| <b>6.9</b>                   | 8.3.13             | <b>SURFACE FINISHES</b>                                                                                              |      |                      |      |           |
| 6.9.1                        |                    | (a) Top soiling from stockpile                                                                                       | m²   | 3 570                |      |           |
| 6.9.2                        |                    | (b) Kukuyu Grass planting                                                                                            | m²   | 3 570                |      |           |
| <b>6.10</b>                  | SANS1200 ME 8.3.3  | <b>SUBBASE</b>                                                                                                       |      |                      |      |           |
|                              |                    | Construct G6 quality subbase with material from commercial sources, compacted to 95% of mod. AASHTO maximum density: |      |                      |      |           |
| 6.10.1                       |                    | (a) 150mm thick layer                                                                                                | m³   | 2 213                |      |           |
|                              | 8.3.3              | Construct G7 quality subbase with material from commercial sources, compacted to 93% of mod. AASHTO maximum density: |      |                      |      |           |
| 6.10.2                       |                    | (b) 200mm in sidewalks                                                                                               | m³   | 714                  |      |           |
| 6.10.3                       |                    | (c) 150mm at parking bays                                                                                            | m³   | 308                  |      |           |
| 6.10.3                       | 8.3.5(d)           | Extra over item 8.3.3(a) and 8.3.3(c) to process subbase material by stabilisation (C4).                             | m³   |                      |      | Rate Only |
| 6.10.4                       | 8.3.8              | (i) Stabilising agent: cement grade CEM II 32.5N for layers on roadway.                                              | t    |                      |      | Rate Only |
| <b>6.11</b>                  | SANS 1200 MF 8.3.3 | <b>BASE</b>                                                                                                          |      |                      |      |           |
|                              |                    | Construct G4 quality base with material from commercial sources, compacted to 97% of mod. AASHTO density             |      |                      |      |           |
| 6.11.1                       |                    | (a) 100mm to roadways                                                                                                | m³   | 1 380                |      |           |
| 6.11.2                       |                    | (b) 150mm to parking areas                                                                                           | m³   | 59                   |      |           |
| <b>6.12</b>                  | SANS 1200 MH       | <b>ASPHALT BASE AND SURFACING</b>                                                                                    |      |                      |      |           |
| <b>6.13</b>                  | 8.5.1              | <b>PRIME COAT</b>                                                                                                    |      |                      |      |           |
|                              |                    | Prime coat using MC-30 cut-back bitumen at 0,7 l/m²                                                                  |      |                      |      |           |
| 6.13.1                       |                    | (a) on roadways including parking areas and sidewalks                                                                | m²   | 13 804               |      |           |
| <b>Total Carried Forward</b> |                    |                                                                                                                      |      |                      |      |           |

**KOUGA LOCAL MUNICIPALITY - BID No.: 88/2021**  
**GRAVEL ROADS UPGRADE IN VARIOUS TOWNS IN THE KOUGA MUNICIPALITY**

KOUGA LOCAL MUNICIPALITY - BID No.: 88/2021  
 GRAVEL ROADS UPGRADE IN VARIOUS TOWNS IN THE KOUGA MUNICIPALITY

**THORNHILL PRIORITY ROADS**

**SECTION 6: ROADWORKS**

| Item No                      | Payment      | Description                                                                                                          | Unit | Quantity | Rate | Amount R  |
|------------------------------|--------------|----------------------------------------------------------------------------------------------------------------------|------|----------|------|-----------|
| <b>Brought Forward</b>       |              |                                                                                                                      |      |          |      |           |
| <b>6.14</b>                  | 8.5.3        | <b>TACK COAT</b>                                                                                                     |      |          |      |           |
| 6.14.1                       |              | Tack coat using 30% stable mix emulsion (to saw cuts)                                                                | m²   | 13 804   |      |           |
| <b>6.15</b>                  |              | <b>ASPHALT BASE</b>                                                                                                  |      |          |      |           |
|                              | 8.5.4        | Continuously graded asphalt base compacted to 92% of Rice density                                                    |      |          |      |           |
| 6.15.1                       |              | (a) 25mm thick layer, on roadways                                                                                    | t    |          |      | Rate Only |
| <b>6.16</b>                  |              | <b>ASPHALT SURFACING</b>                                                                                             |      |          |      |           |
|                              | 8.5.4        | Continuously graded medium grade asphalt compacted to 92% of Rice density                                            |      |          |      |           |
| 6.16.1                       |              | (a) 25mm thick to roadways                                                                                           | t    | 621      |      |           |
| 6.16.2                       |              | (b) 25mm thick to parking areas                                                                                      | t    | 12       |      |           |
|                              | 8.5.4        | Continuously graded medium grade asphalt compacted to at least 95% of Marshall density                               |      |          |      |           |
| 6.16.3                       |              | (a) 20mm to sidewalks                                                                                                | t    |          |      | Rate Only |
| <b>6.17</b>                  | 8.5.5        | <b>VARIATION IN QUANTITIES OF PRIME AND BITUMINOUS BINDERS</b>                                                       |      |          |      |           |
| 6.17.1                       |              | (a) MC 30 cutback bitumen                                                                                            | t    |          |      | Rate Only |
| 6.17.2                       |              | (b) 65% spray grade emulsion                                                                                         | t    |          |      | Rate Only |
| <b>6.18</b>                  | 8.5.5        | <b>VARIATION IN QUANTITIES OF AGGREGATE</b>                                                                          |      |          |      |           |
| <b>6.19</b>                  | PSMH 8.5.9   | <b>SAWCUTS</b>                                                                                                       |      |          |      |           |
| 6.19.1                       |              | (a) Cutting asphalt, 25mm thick                                                                                      | m    | 42       |      |           |
| 6.19.2                       |              | (b) Cutting pavement layers, 100 mm thick                                                                            | m    | 550      |      |           |
| 6.19.3                       | PSMH 8.5.10  | Cleaning the joints with compressed air                                                                              | m    | 550      |      |           |
| 6.19.4                       | PSMH 8.5.12  | Extra-over Item for the transportation of bitumen from outside the Kouga Municipal area                              | Sum  | 1        |      |           |
| <b>6.20</b>                  | SANS 1200 MJ | <b>SEGMENTED PAVING</b>                                                                                              |      |          |      |           |
|                              | PSMJ 8.2.2   | Construction of paving complete:                                                                                     |      |          |      |           |
| 6.20.1                       |              | (a) 60 mm interlocking paver, (25 MPa, 200 x 100mm grey) on a 20mm thick sand (rate to include the 20mm thick sand). | m²   | 3 570    |      |           |
| 6.20.2                       |              | (b) Cutting units to fit edge restraints                                                                             | m    | 2 380    |      |           |
| <b>6.21</b>                  | SANS 1200 MK | <b>KERBING AND CHANNELING</b>                                                                                        |      |          |      |           |
| <b>6.22</b>                  |              | <b>CONCRETE KERBS AND CHANNELS</b>                                                                                   |      |          |      |           |
| <b>6.23</b>                  | 8.2.1        | <b>PRECAST CONCRETE KERBING</b>                                                                                      |      |          |      |           |
|                              |              | (a) Barrier Kerb, SANS - Fig 7.                                                                                      |      |          |      |           |
| 6.23.1                       |              | (i) Straights                                                                                                        | m    | 77       |      |           |
| 6.23.2                       |              | (ii) Curves, 1m to 5m radius                                                                                         | m    | 25       |      |           |
| 6.23.3                       |              | (iii) Curves, 5m radius and larger.                                                                                  | m    | 196      |      |           |
| <b>Total Carried Forward</b> |              |                                                                                                                      |      |          |      |           |

**KOUGA LOCAL MUNICIPALITY - BID No.: 88/2021**  
**GRAVEL ROADS UPGRADE IN VARIOUS TOWNS IN THE KOUGA MUNICIPALITY**  
 KOUGA LOCAL MUNICIPALITY - BID No.: 88/2021  
 GRAVEL ROADS UPGRADE IN VARIOUS TOWNS IN THE KOUGA MUNICIPALITY

**THORNHILL PRIORITY ROADS**

**SECTION 6: ROADWORKS**

| Item No                      | Payment      | Description                                                                                                                                                                                                  | Unit   | Quantity | Rate        | Amount R    |
|------------------------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----------|-------------|-------------|
| <b>Brought Forward</b>       |              |                                                                                                                                                                                                              |        |          |             |             |
| <b>6.24</b>                  | 8.2.2        | <b>PRECAST CONCRETE KERBING CHANNELLING COMBINATION</b><br>(a) Mountable kerb (Channel Type)                                                                                                                 |        |          |             |             |
| 6.24.1                       |              | (i) Straights                                                                                                                                                                                                | m      | 4 760    |             | Rate Only   |
| 6.24.2                       |              | (ii) Curves, 1m to 5m radius                                                                                                                                                                                 | m      |          |             |             |
| 6.24.3                       |              | (iii) Curves, 5m radius and larger.                                                                                                                                                                          | m      | 18       |             |             |
| <b>6.25</b>                  | 8.2.4        | <b>DEPRESSED KERBS</b>                                                                                                                                                                                       |        |          |             |             |
| 6.25.1                       |              | (a) Depressed kerbs at pedestrian crossings                                                                                                                                                                  | m      | 10       |             |             |
| <b>6.26</b>                  | PSMK 8.2.16  | <b>IN-SITU TRANSITIONS</b><br>Concrete Class 25 transitions, 2m long between:                                                                                                                                |        |          |             |             |
| 6.26.1                       |              | (a) Barrier Kerb (Fig 7) and Mountable (Channel-type) kerb                                                                                                                                                   | No     | 14       |             |             |
| 6.26.5                       | PSMK 8.2.17  | Cast in-situ concrete (15 MPa) for parking embayment bullnoses and curves                                                                                                                                    | m³     | 32       |             |             |
| <b>6.27</b>                  | SANS 1200 MM | <b>ANCILLARY ROADWORKS</b>                                                                                                                                                                                   |        |          |             |             |
| <b>6.28</b>                  | 8.3          | <b>PERMANENT ROAD SIGNS</b>                                                                                                                                                                                  |        |          |             |             |
|                              | 8.3.6        | Supply and install all statutory high-reflective Road Signs, and the like, supplied and erected complete with soil-cement. All road signs to fully comply with the SADC-RTSM guidelines :                    |        |          |             |             |
| 6.28.1                       |              | (a) Regulatory Stop sign (R1), 600mm diameter                                                                                                                                                                | No     | 16       |             |             |
| 6.28.2                       |              | (b) Warning sign (W-series), 900mm sides                                                                                                                                                                     | No     | 8        |             |             |
| 6.28.3                       |              | (c) Danger plate sign (W401), 600mm x 150mm                                                                                                                                                                  | No     | 34       |             |             |
| 6.28.4                       |              | (d) Danger plate sign (W402), 600mm x 150mm                                                                                                                                                                  | No     | 34       |             |             |
| 6.28.5                       |              | (e) Additional Road Signage on approval                                                                                                                                                                      | P.Sum  | 1        | R 40 000.00 | R 40 000.00 |
|                              | 8.3.7        | Dismantling and re-erection of road signs having a surface area of:                                                                                                                                          |        |          |             |             |
| 6.28.6                       |              | (a) Up to 2m²                                                                                                                                                                                                | No     | 6        |             |             |
|                              | 8.3.7        | Dismantling and storing of road signs having a surface area of:                                                                                                                                              |        |          |             |             |
| 6.28.7                       |              | (a) Up to 2m²                                                                                                                                                                                                | No     | 6        |             |             |
| <b>6.29</b>                  | 8.4          | <b>ROAD MARKINGS</b>                                                                                                                                                                                         |        |          |             |             |
|                              | PSMM 8.4.1   | Supply and apply SANS approved high quality / high reflective Road Paint with glass-beads, including setting out and pre-marking. All Markings shall fully comply with the applicable SADC -RTSM guidelines. |        |          |             |             |
| 6.29.1                       |              | (a) White lines (broken or unbroken) :                                                                                                                                                                       |        |          |             |             |
| 6.29.2                       |              | (i) 100mm wide                                                                                                                                                                                               | m      | 340      |             |             |
| 6.29.3                       |              | (ii) 300mm wide                                                                                                                                                                                              | m      | 145      |             |             |
|                              |              | (b) White characters and symbols                                                                                                                                                                             | m²     | 120      |             |             |
| 6.29.4                       |              | (a) Yellow lines (broken or unbroken) :                                                                                                                                                                      |        |          |             |             |
| 6.29.5                       |              | (i) 100mm wide                                                                                                                                                                                               | m      | 200      |             |             |
| 2.29.6                       |              | (ii) 300mm wide                                                                                                                                                                                              | m      | 150      |             |             |
|                              |              | (b) White characters and symbols                                                                                                                                                                             | m²     | 80       |             |             |
| 6.29.7                       | PSMM 8.4.6   | Reinstate road markings at the end of the maintenance period.                                                                                                                                                | Sum    | 1        |             |             |
| <b>6.30</b>                  |              | <b>SPEEDHUMPS</b>                                                                                                                                                                                            |        |          |             |             |
| 6.30.1                       |              | Construction of Speedhumps complete, as detailed on Drw 5503-0-C906. Signage and Road markings measured elsewhere.                                                                                           | No.off | 6        |             |             |
| <b>6.31</b>                  |              | Supply and fix Solar-powered reflective flickering Cat-eyes where indicated.                                                                                                                                 | No.off | 40       |             |             |
| <b>Total Carried Forward</b> |              |                                                                                                                                                                                                              |        |          |             |             |

**KOUGA LOCAL MUNICIPALITY - BID No.: 88/2021**  
**GRAVEL ROADS UPGRADE IN VARIOUS TOWNS IN THE KOUGA MUNICIPALITY**

KOUGA LOCAL MUNICIPALITY - BID No.: 88/2021  
 GRAVEL ROADS UPGRADE IN VARIOUS TOWNS IN THE KOUGA MUNICIPALITY

**THORNHILL PRIORITY ROADS**

**SECTION 7 : STORMWATER**

| Item No                      | Payment      | Description                                                                                                                                            | Unit | Quantity | Rate | Amount R  |
|------------------------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|------|-----------|
| <b>Brought Forward</b>       |              |                                                                                                                                                        |      |          |      |           |
| <b>7</b>                     |              | <b>SECTION 7 : STORMWATER</b>                                                                                                                          |      |          |      |           |
| <b>7.1</b>                   | SANS 1200 C  | <b>SITE CLEARANCE</b>                                                                                                                                  |      |          |      |           |
| 7.1.1                        | 8.2.1        | Clear vegetation and trees of girth up to 0.5m along route of stormwater pipe                                                                          | m    | 1 700    |      |           |
| 7.1.2                        | 8.2.10       | Remove topsoil to a nominal depth of 150mm, stockpile and maintain                                                                                     | m³   | 34       |      |           |
| 7.1.3                        |              | Replace topsoil from stockpile                                                                                                                         | m³   | 34       |      |           |
| <b>7.2</b>                   | SANS 1200 DB | <b>EXCAVATION (TRENCHES)</b>                                                                                                                           |      |          |      |           |
|                              | PSDB 8.3.2   | Excavate in all materials for trenches, select, backfill, compact and dispose of all surplus materials for pipes, including shoring as per PSDB 5.1.5: |      |          |      |           |
|                              |              | 300mm dia. to 600mm dia. for trench depths:                                                                                                            |      |          |      |           |
|                              |              | Over and Up to :                                                                                                                                       |      |          |      |           |
| 7.2.1                        |              | 0,0m 1,0m                                                                                                                                              | m    | 45       |      |           |
| 7.2.2                        |              | 1,01m 2,0m                                                                                                                                             | m    |          |      | Rate Only |
|                              |              | Over 650mm dia. up to 1050mm dia. for trench depth:                                                                                                    |      |          |      |           |
|                              |              | Over and Up to                                                                                                                                         |      |          |      |           |
| 7.2.3                        |              | 0,0m 1,0m                                                                                                                                              | m    | 22       |      |           |
| 7.2.4                        |              | 1,01m 2,0m                                                                                                                                             | m    |          |      | Rate Only |
|                              |              | Extra-over items 3.2.1 to 3.2.11 for:                                                                                                                  |      |          |      |           |
| 7.2.5                        | PSDB 8.3.2   | a) Hard rock excavation                                                                                                                                | m³   | 32       |      |           |
| 7.2.6                        |              | b) Boulder Excavation                                                                                                                                  | m³   | 20       |      |           |
| 7.2.7                        | 8.3.2(c)     | Excavate and dispose of unsuitable material from trench bottom (Provisional)                                                                           | m³   | 30       |      |           |
| <b>7.3</b>                   | 8.3.3        | <b>EXCAVATION ANCILLARIES</b>                                                                                                                          |      |          |      |           |
|                              | 8.3.3.1      | Make up deficiency in backfill material                                                                                                                |      |          |      |           |
| 7.3.1                        | 8.3.3.1(a)   | From excavations on site                                                                                                                               | m³   | 140      |      |           |
| 7.3.2                        | 8.3.3.1(c)   | From commercial sources                                                                                                                                | m³   | 40       |      |           |
| 7.3.3                        | PSDB 8.3.3.3 | Compaction in road reserves                                                                                                                            | m³   | 220      |      |           |
|                              |              | Overhaul (Free haul = 3km)                                                                                                                             |      |          |      |           |
| 7.3.4                        | 8.3.3.4(b)   | Long overhaul                                                                                                                                          | m³km | 1 650    |      |           |
| <b>Total Carried Forward</b> |              |                                                                                                                                                        |      |          |      |           |

**KOUGA LOCAL MUNICIPALITY - BID No.: 88/2021**  
**GRAVEL ROADS UPGRADE IN VARIOUS TOWNS IN THE KOUGA MUNICIPALITY**

KOUGA LOCAL MUNICIPALITY - BID No.: 88/2021  
 GRAVEL ROADS UPGRADE IN VARIOUS TOWNS IN THE KOUGA MUNICIPALITY

**THORNHILL PRIORITY ROADS**

**SECTION 7 : STORMWATER**

| Item No                      | Payment             | Description                                                                                                                 | Unit | Quantity | Rate | Amount R  |
|------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------|------|----------|------|-----------|
| <b>Brought Forward</b>       |                     |                                                                                                                             |      |          |      |           |
| <b>7.4</b>                   | <b>PSDB 8.3.5</b>   | <b>EXISTING SERVICES</b>                                                                                                    |      |          |      |           |
|                              |                     | Dealing with services that:                                                                                                 |      |          |      |           |
|                              |                     | a) intersect a trench:                                                                                                      |      |          |      |           |
| 7.4.1                        |                     | Water pipes                                                                                                                 | No   | 40       |      |           |
| 7.4.2                        |                     | Water erf connections                                                                                                       | No   | 160      |      |           |
| 7.4.3                        |                     | Sewer pipes                                                                                                                 | No   | 22       |      |           |
| 7.4.4                        |                     | Stormwater pipes                                                                                                            | No   |          |      | Rate Only |
| 7.4.5                        |                     | Underground electrical cables                                                                                               | No   | 65       |      |           |
| 7.4.6                        |                     | Overhead electrical cables                                                                                                  | No   | 55       |      |           |
| 7.4.7                        |                     | Underground Telkom lines                                                                                                    | No   | 20       |      |           |
| 7.4.8                        |                     | Overhead Telkom lines                                                                                                       | No   |          |      | Rate Only |
| 7.4.9                        |                     | Kerbs                                                                                                                       | No   |          |      | Rate Only |
|                              |                     | b) adjoin a trench                                                                                                          |      |          |      |           |
| 7.4.10                       |                     | Water pipes                                                                                                                 | m    | 1 250    |      |           |
| 7.4.11                       |                     | Sewer pipes                                                                                                                 | m    | 720      |      |           |
| 7.4.12                       |                     | Underground electrical cables                                                                                               | m    | 1 200    |      |           |
| 7.4.13                       |                     | Overhead electrical cables                                                                                                  | m    | 450      |      |           |
| 7.4.14                       |                     | Underground Telkom lines                                                                                                    | m    |          |      | Rate Only |
| 7.4.15                       |                     | Overhead Telkom lines                                                                                                       | m    |          |      | Rate Only |
| 7.4.16                       |                     | Dismantle existing concrete stormwater channel, remove rubbish and re-instate                                               | m    | 80       |      |           |
| <b>7.5</b>                   | <b>SANS 1200 LB</b> | <b>BEDDING</b>                                                                                                              |      |          |      |           |
|                              | 8.2.2.3             | Provision of bedding material compacted to 93% of MOD AASHTO density (100% for sand) with material from commercial sources: |      |          |      |           |
| 7.5.1                        |                     | Selected granular material                                                                                                  | m³   | 60       |      |           |
| 7.5.2                        |                     | Selected fill material                                                                                                      | m³   |          |      | Rate Only |
|                              | 8.2.2.3             | Provision of bedding material to 93% of MOD AASHTO density (100% for sand) with material from trench excavation:            |      |          |      |           |
| 7.5.3                        |                     | Selected granular material                                                                                                  | m³   |          |      | Rate Only |
| 7.5.4                        |                     | Selected fill material                                                                                                      | m³   | 550      |      |           |
|                              | PS LB 8.2.6         | Bedding in waterlogged conditions                                                                                           |      |          |      |           |
| 7.5.5                        |                     | a) 19mm crushed stone to SANS 1083                                                                                          | m³   | 42       |      |           |
| 7.5.6                        |                     | b) Geotextile - Bidim A4                                                                                                    | m²   | 120      |      |           |
|                              |                     |                                                                                                                             |      |          |      |           |
|                              |                     |                                                                                                                             |      |          |      |           |
| <b>Total Carried Forward</b> |                     |                                                                                                                             |      |          |      |           |

**KOUGA LOCAL MUNICIPALITY - BID No.: 88/2021**  
**GRAVEL ROADS UPGRADE IN VARIOUS TOWNS IN THE KOUGA MUNICIPALITY**

KOUGA LOCAL MUNICIPALITY - BID No.: 88/2021  
 GRAVEL ROADS UPGRADE IN VARIOUS TOWNS IN THE KOUGA MUNICIPALITY

**THORNHILL PRIORITY ROADS**

**SECTION 7 : STORMWATER**

| Item No                      | Payment             | Description                                                                                                                                                | Unit | Quantity | Rate | Amount R |
|------------------------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|------|----------|
| <b>Brought Forward</b>       |                     |                                                                                                                                                            |      |          |      |          |
| <b>7.6</b>                   | <b>SANS 1200 LE</b> | <b>PIPEWORK: STORMWATER</b>                                                                                                                                |      |          |      |          |
|                              |                     | Supply, transport, handle and lay concrete SW pipes, spigot and socket type, on class C bedding :                                                          |      |          |      |          |
| 7.6.1                        |                     | (a) 375 mm diameter Class 100 D                                                                                                                            | m    | 8        |      |          |
| 7.6.2                        |                     | (b) 450 mm diameter Class 100 D                                                                                                                            | m    | 62       |      |          |
| 7.6.3                        |                     | (d) 600 mm diameter Class 100 D                                                                                                                            | m    | 24       |      |          |
| 7.6.4                        |                     | (e) 750 mm diameter Class 100 D                                                                                                                            | m    | 12       |      |          |
| 7.6.5                        |                     | (d) 900 mm diameter Class 100 D                                                                                                                            | m    | 24       |      |          |
|                              |                     | Supply, transport, handle and lay pre-cast concrete SW culverts, either on precast concrete floor slabs or insitu cast floors (both measured else where) : |      |          |      |          |
| 7.6.6                        |                     | (a) 300 (H) x 450 (W) mm Class 150 S                                                                                                                       | m    | 12       |      |          |
| 7.6.7                        |                     | (a) 450 (H) x 450 (W) mm Class 150 S                                                                                                                       | m    | 42       |      |          |
| 7.6.8                        |                     | (a) 450 (H) x 600 (W) mm Class 150 S                                                                                                                       | m    | 30       |      |          |
| 7.6.9                        |                     | (a) 600 (H) x 600 (W) mm Class 150 S                                                                                                                       | m    | 42       |      |          |
| 7.6.10                       |                     | (a) 600 (H) x 900 (W) mm Class 150 S                                                                                                                       | m    | 12       |      |          |
|                              |                     | Supply, transport, handle and lay pre-cast concrete SW culverts floor panels, on 93% compacted insitu material :                                           |      |          |      |          |
| 7.6.11                       |                     | (a) 450 (W) mm - 120mm thick                                                                                                                               | m    | 54       |      |          |
| 7.6.12                       |                     | (a) 600 (W) mm - 120mm thick                                                                                                                               | m    | 72       |      |          |
| 7.6.13                       |                     | (a) 900 (W) mm - 150mm thick                                                                                                                               | m    | 12       |      |          |
| <b>7.7</b>                   |                     | <b>MANHOLES, CATCHPITS AND HEAD WALLS</b>                                                                                                                  |      |          |      |          |
|                              |                     | a) Brick-built manholes as per drawings and specifications, for depths :                                                                                   |      |          |      |          |
| 7.7.1                        |                     | i) Exceeding 0.0m up to 1.5m                                                                                                                               | No   | 6        |      |          |
| 7.7.2                        |                     | ii) Exceeding 1.51m up to 2.0m                                                                                                                             | No   | 2        |      |          |
|                              |                     | b) Brick-built Catchpits :                                                                                                                                 |      |          |      |          |
|                              |                     | Kerb Inlet Type A2 as per drawings and specifications, for depths :                                                                                        |      |          |      |          |
| 7.7.3                        |                     | i) Exceeding 0.0m up to 1.0m                                                                                                                               | No   | 2        |      |          |
| 7.7.4                        |                     | ii) Exceeding 1.0m up to 1.5m                                                                                                                              | No   | 6        |      |          |
| 7.7.5                        |                     | iii) Exceeding 1.51m up to 2.0m                                                                                                                            | No   | 2        |      |          |
| <b>7.8</b>                   |                     | <b>ANCILLARIES</b>                                                                                                                                         |      |          |      |          |
|                              | 8.2.9               | Construction of stormwater drainage structure elements:                                                                                                    |      |          |      |          |
| 7.8.1                        |                     | Construct debris screen complete as per per drawing 3610-1-C030 & C031-T including stainless steel screen.                                                 | No   | 1        |      |          |
| 7.8.2                        |                     | Brick headwalls as shown in per drawing 3610-1-C030 & C031-T                                                                                               | No   | 1        |      |          |
| 7.8.3                        |                     | Concrete encasing of pipelines                                                                                                                             | m³   | 8        |      |          |
| <b>Total Carried Forward</b> |                     |                                                                                                                                                            |      |          |      |          |

**KOUGA LOCAL MUNICIPALITY - BID No.: 88/2021**  
**GRAVEL ROADS UPGRADE IN VARIOUS TOWNS IN THE KOUGA MUNICIPALITY**

KOUGA LOCAL MUNICIPALITY - BID No.: 88/2021  
 GRAVEL ROADS UPGRADE IN VARIOUS TOWNS IN THE KOUGA MUNICIPALITY

**THORNHILL PRIORITY ROADS**

**SECTION 7 : STORMWATER**

| Item No                                 | Payment            | Description                                                                                                                                | Unit | Quantity | Rate | Amount R |
|-----------------------------------------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------|------|----------|------|----------|
| <b>Brought Forward</b>                  |                    |                                                                                                                                            |      |          |      |          |
| <b>7.9</b>                              |                    | <b>CONNECTIONS TO EXISTING</b>                                                                                                             |      |          |      |          |
| 7.9.1                                   | PSLE 8.2.15        | Connection to existing manhole, for pipes up to and including 600mm dia.                                                                   | No   | 2        |      |          |
|                                         | PSLE 8.2.16        | Extra-over Item PSLE 8.2.8 for the construction of manholes on existing pipelines                                                          |      | 1        |      |          |
| 7.9.2                                   |                    | Connection to existing pipeline, for pipes up to and including 900 mm diameter                                                             |      | 1        |      |          |
| <b>7.10</b>                             | <b>SABS1200 DK</b> | <b>GABIONS &amp; PITCHING</b>                                                                                                              |      |          |      |          |
|                                         |                    | Construct Galvanised Gabions 80 x 100 - 2.7mm complete, PVC coated, including unfolding, placing, filling and lacing:                      |      |          |      |          |
| 7.10.1                                  | 8.2.1              | (a) Surface preparation for gabion baskets                                                                                                 | m²   | 120      |      |          |
| 7.10.2                                  | 8.2.2              | (b) Gabion baskets 1.0m x 1.0m x 1.0m                                                                                                      | m³   | 16       |      |          |
| 7.10.3                                  | 8.2.2              | (b) Gabion baskets 1.0m x 0.5m x 1.0m                                                                                                      | m³   | 16       |      |          |
| 7.10.4                                  | 8.2.2              | (c) Gabion mattress 6.0m x 1.0m x 0.3m                                                                                                     | m³   | 10       |      |          |
| 7.10.5                                  | 8.2.4              | (d) Geotextile to gabions                                                                                                                  | m²   | 220      |      |          |
| 7.10.6                                  |                    | (f) 800 x 500mm A4 Bidim bags or similar approved by the Engineer filled with insitu material, compacted and sealed                        | No.  | 8        |      |          |
| 7.10.7                                  | 8.2.4              | Supply and hand pack gabion cages from imported crushed rock / stones size >100mm and < 200mm ND.                                          | m²   | 240      |      |          |
| 7.10.8                                  | 8.2.4              | Source stones from insitu box cut, sieve to retrieve rocks <60mm, temporary stockpile and use for stone-pitch channel construction.        | m²   | 260      |      |          |
| 7.10.9                                  | 8.2.4              | Source stones from commercial sources (only on instruction) rocks <60mm, temporary stockpile and use for stone-pitch channel construction. | m²   | 130      |      |          |
| <b>Total Carried Forward To Summary</b> |                    |                                                                                                                                            |      |          |      |          |

**KOUGA LOCAL MUNICIPALITY - BID No.: 88/2021**  
**GRAVEL ROADS UPGRADE IN VARIOUS TOWNS IN THE KOUGA MUNICIPALITY**

**SUMMARY OF SCHEDULE OF QUANTITIES**

| DESCRIPTION OF WORK SCOPE SECTIONS            |       | TENDER<br>AMOUNTS |
|-----------------------------------------------|-------|-------------------|
| SECTION 1: PRELIMINARY & GENERAL              |       |                   |
| SECTION 2 : ROADWORKS (HUMANSDORP)            |       |                   |
| SECTION 3 : STORMWATER (HUMANSDORP)           |       |                   |
| SECTION 3 : ROADWORKS (JEFFREYS BAY)          |       |                   |
| SECTION 4 : STORMWATER (JEFFREYS BAY)         |       |                   |
| SECTION 5 : ROADWORKS (THORNHILL)             |       |                   |
| SECTION 6 : STORMWATER (THORNHILL)            |       |                   |
| <b>SUB-TOTAL TENDER AMOUNT (A) - excl VAT</b> |       |                   |
| ESCALATION (5% of Sub-Total A)                | 5.0%  |                   |
| <b>SUB-TOTAL (B)</b>                          |       |                   |
| VALUE ADDED TAX (15% of Sub-total B)          | 15.0% |                   |
| <b>TOTAL TENDER AMOUNT (incl VAT)</b>         |       |                   |