MBOMBELA LOCAL MUNICIPALITY

CONTRACT NO

FOR

UPGRADING OF SANDFORD ROAD

BILL OF QUANTITIES

CONTENTS

<table>
<thead>
<tr>
<th>SCHEDULE A : ROAD CONSTRUCTION</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1200 GENERAL REQUIREMENTS AND PROVISIONS</td>
<td>C2.2-9</td>
</tr>
<tr>
<td>1300 CONTRACTOR'S ESTABLISHMENT ON SITE AND</td>
<td></td>
</tr>
<tr>
<td>GENERAL OBLIGATIONS</td>
<td>C2.2-11</td>
</tr>
<tr>
<td>1400 HOUSING, OFFICES AND LABORATORIES FOR THE</td>
<td></td>
</tr>
<tr>
<td>ENGINEER'S SITE PERSONNEL</td>
<td>C2.2-12</td>
</tr>
<tr>
<td>1500 ACCOMMODATION OF TRAFFIC</td>
<td></td>
</tr>
<tr>
<td>1600 OVERHAUL</td>
<td>C2.2-14</td>
</tr>
<tr>
<td>1700 CLEARING AND GRUBBING</td>
<td></td>
</tr>
<tr>
<td>B1800 DAYWORKS</td>
<td>C2.2-17</td>
</tr>
<tr>
<td>2100 DRAINS</td>
<td></td>
</tr>
<tr>
<td>2200 PREFABRICATED CULVERTS</td>
<td>C2.2-18</td>
</tr>
<tr>
<td>2300 CONCRETE KERBING, CONCRETE CHANNELLING, CHUTES</td>
<td></td>
</tr>
<tr>
<td>AND DOWNPipes, AND CONCRETE LININGS FOR OPEN DRAINS</td>
<td>C2.2-19</td>
</tr>
<tr>
<td>3200 SELECTION, STOCKPILING AND BREAKING-DOWN THE</td>
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</tr>
<tr>
<td>MATERIAL FROM BORROW PITS, CUTTINGS AND EXISTING</td>
<td>C2.2-21</td>
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<tr>
<td>PAVEMENT LAYERS, AND PLACING AND COMPACTING THE</td>
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</tr>
<tr>
<td>GRAVEL LAYERS</td>
<td>C2.2-27</td>
</tr>
<tr>
<td>3300 MASS EARTHWORKS</td>
<td></td>
</tr>
<tr>
<td>3400 PAVEMENT LAYERS OF GRAVEL MATERIAL</td>
<td>C2.2-36</td>
</tr>
<tr>
<td>3500 STABILIZATION</td>
<td></td>
</tr>
<tr>
<td>4100 PRIME COAT</td>
<td>C2.2-37</td>
</tr>
<tr>
<td>4200 ASPHALT BASE AND SURFACING</td>
<td></td>
</tr>
<tr>
<td>5100 PITCHING, STONWORK AND PROTECTION AGAINST</td>
<td>C2.2-39</td>
</tr>
<tr>
<td>EROSION</td>
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</tr>
<tr>
<td>5600 ROAD SIGNS</td>
<td>C2.2-41</td>
</tr>
<tr>
<td>5700 ROAD MARKINGS</td>
<td></td>
</tr>
<tr>
<td>6100 FOUNDATIONS FOR STRUCTURES</td>
<td>C2.2-42</td>
</tr>
<tr>
<td>6200 FALSEWORK, FORMWORK AND CONCRETE FINISH</td>
<td></td>
</tr>
<tr>
<td>6300 STEEL REINFORCEMENT FOR STRUCTURES</td>
<td>C2.2-43</td>
</tr>
<tr>
<td>6400 CONCRETE FOR STRUCTURES</td>
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</tr>
<tr>
<td>7300 CONCRETE BLOCK PAVING FOR ROADS</td>
<td>C2.2-44</td>
</tr>
<tr>
<td>8100 TESTING MATERIALS AND WORKMANSHIP</td>
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</table>

SUMMARY OF BILL OF QUANTITIES ................................................. C2.2-55

CALCULATION OF TENDER SUM ..................................................... C2.2-56
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<th>ITEM NO</th>
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<td>(e) Remuneration of workers undergoing technical skills training</td>
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<td>subitems B12.01(a), (b), (c) and (e):</td>
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<td>(iii) Entrepreneurial skills</td>
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<td>(iv) Remuneration of workers undergoing technical skills training</td>
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<td>B12.02</td>
<td>**Remuneration of the Project Liaison Officer and members of the Project</td>
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<tr>
<td></td>
<td>(a) Project Liaison Officer</td>
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<td>72 168.00</td>
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<td>(b) Project Liaison Committee</td>
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<td>72 168.00</td>
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<td>(ii) Project Liaison Committee</td>
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<td>B12.05</td>
<td>**Compliance with OHS Act and Regulations (including the Construction</td>
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<td>Regulations 2015)**</td>
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1200 Carried forward
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<td>B12.06</td>
<td>Protection, removal, realignment and replacement of services:</td>
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<td>(a) Existing Telkom services</td>
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<tr>
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<td>(i) The removal, protection and replacement of installations</td>
<td>PC Sum</td>
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<td>(b) Existing Eskom services</td>
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<td>(i) The removal, protection and replacement of installations</td>
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<td>Name Boards (x2)</td>
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1200 TOTAL CARRIED TO SUMMARY
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<td><strong>AND GENERAL OBLIGATIONS</strong></td>
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<td><strong>The contractor’s general obligations:</strong></td>
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<td></td>
<td>(a) Fixed obligations</td>
<td>Lump Sum</td>
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<tr>
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<td>(b) Value-related obligations</td>
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<td>(c) Time-related obligations</td>
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<td><strong>NB</strong> The combined total tendered for subitems (a), (b) and (c) shall not exceed 15% of the Tender Sum (excluding CPA, contingencies and VAT).</td>
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<p>| 1300   | TOTAL CARRIED TO SUMMARY                         |        |          |      |        |</p>
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<th>ITEM NO</th>
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<tr>
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<td><strong>HOUSING, OFFICES AND LABORATORIES FOR THE ENGINEER'S SITE PERSONNEL</strong></td>
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<td>B14.01</td>
<td><strong>Office and laboratory accommodation:</strong></td>
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<tr>
<td></td>
<td>(a) Offices (interior floor space only)</td>
<td>m²</td>
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<tr>
<td></td>
<td>(e) Ablution units:</td>
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<td></td>
<td>(i) Site unit</td>
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<td>(g) Venue for site meetings</td>
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<td>30</td>
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<td><strong>Office and laboratory furniture:</strong></td>
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<td>(a) Chairs</td>
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<td>(d) Desks, complete with drawers and locks</td>
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<td>(e) Drawing tables</td>
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<td>(f) Conference tables</td>
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<td>B14.03</td>
<td><strong>Office and laboratory fittings, installations and equipment:</strong></td>
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<td>(a) Items measured by number:</td>
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<td>(i) 220/250 volt power points including voltage stabilisers and regulators as specified</td>
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<td>(iii) Double 80 watt fluorescent-light fittings complete with ballast and tubes</td>
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<td>(iv) Double 55 watt fluorescent-light fittings complete with ballast and tubes</td>
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<td>(vi) Wash-hand basins complete with taps and drains</td>
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<td>(x) Fire extinguishers, 9,0 kg all purpose dry powder type, complete, mounted on wall with brackets</td>
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<td>(xi) Air-conditioning units with 2,2 kW minimum capacity, mounted and with own power connection</td>
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<td>(a) (xiv) General-purpose steel cupboards with shelves</td>
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<td>(xvi) Refrigerators</td>
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<td>(xvii) Bookcases</td>
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<td>(xviii) Voltage stabilizers</td>
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<td>(xix) Steel plan cabinets</td>
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<td>(xx) Floodlights complete with poles and minimum 500 watt globes</td>
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<td>(b) Prime-cost items and items paid for in a lump sum:</td>
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<td>(ix) Provision of cellphones complete with car kits fitted to vehicles as directed, including all fees and the cost of phone calls in connection with the administration of the Contract</td>
<td>PC Sum</td>
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<td>Services:</td>
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<td>(a) Services at offices and laboratories:</td>
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<td>(i) Fixed costs</td>
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<td>(ii) Running costs</td>
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<td>Provision of photostat facilities</td>
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<td>Supply of computer hardware and software:</td>
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<td>B15.01</td>
<td>Accommodating traffic and maintaining temporary deviations</td>
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<td>Earthworks for temporary deviations:</td>
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<td>(a) Shaping of temporary deviations</td>
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<td>(b) Cut and borrow to fill</td>
<td>m³</td>
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<tr>
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<td>(c) Cut to spoil</td>
<td>m³</td>
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<td>Temporary traffic-control facilities:</td>
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</tr>
<tr>
<td></td>
<td>(a) Flagmen</td>
<td>man-day</td>
<td>320</td>
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<td>(b) Portable STOP and GO-RY signs</td>
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<td></td>
<td>(d) Amber flicker lights</td>
<td>No</td>
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<td>(e) Road signs, R- and TR-series, 900mm in diameter</td>
<td>No</td>
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<td>(f) Road signs, TW-series, 900mm sides</td>
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<td></td>
<td>(g) Rectangular road signs, TGS-, TIN- and TW-series (excluding TW-series</td>
<td>m²</td>
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<td></td>
<td>delineators and barricades</td>
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<td>(h) Delineators TW401/TW402 (250 mm x 1 000 mm sides):</td>
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<td>(ii) Double sided</td>
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<td>Traffic cones</td>
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<td>B15.05</td>
<td>Gravelling and repair of temporary deviations and existing gravel shoulders used as temporary deviations:</td>
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<td>Watering of temporary deviations</td>
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<td>Blading by road grader of:</td>
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<td>(a) Temporary deviations</td>
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<td>(b) Existing roads used as temporary deviations</td>
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<td>(c) Existing gravel shoulders used as temporary deviations</td>
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<td>Accommodation of traffic where the road is constructed in half-widths</td>
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<td>15.13</td>
<td>In situ preparation and compaction of existing gravel shoulders to 93% of modified AASHTO density</td>
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<td>Provision of traffic safety equipment for use by the engineer:</td>
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<td>(a) Emergency rotating mini lightbar for mobile use</td>
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<td>(b) 'Construction' sticker for vehicles with 100 mm high lettering</td>
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<td>Damaged temporary road signs and delineators:</td>
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<td>(a) Repair:</td>
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<td>%</td>
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1500 TOTAL CARRIED TO SUMMARY
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<td>OVERHAUL</td>
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<td>Overhaul on material hauled in excess of a free-haul distance of 0.5 km, for haul up to or through 1.0 km (restricted overhaul)</td>
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<td>B16.02</td>
<td>Overhaul on material hauled in excess of 8.0 km (free Haul)</td>
<td>m³-km</td>
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1600 TOTAL CARRIED TO SUMMARY
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<tr>
<td>1700</td>
<td>CLEARING AND GRUBBING</td>
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<td>B17.01</td>
<td>Clearing and grubbing</td>
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<td>17.02</td>
<td>Removal and grubbing of large trees and tree stumps:</td>
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<td>Girth exceeding 1 m up to and including 2 m</td>
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<td>Reclearing of surfaces (on the written instructions of the engineer only)</td>
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<td>17.04</td>
<td>Clearing and grubbing at inlets and outlets of hydraulic structures</td>
<td>m²</td>
<td>50</td>
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<td>Cleaning out of hydraulic structures:</td>
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<td>(a)</td>
<td>Pipes with an internal diameter up to and including 750 mm</td>
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<td>Box culverts up to and including 1,5 m vertical dimension</td>
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<td>Demolition, removal and disposal off site of miscellaneous structures</td>
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<td>Personnel during normal working hours:</td>
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<tr>
<td></td>
<td>(a) Unskilled labour</td>
<td>hour</td>
<td></td>
<td>Rate only</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(b) Semi-skilled labour</td>
<td>hour</td>
<td></td>
<td>Rate only</td>
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</tr>
<tr>
<td></td>
<td>(c) Skilled labour</td>
<td>hour</td>
<td></td>
<td>Rate only</td>
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<td>(d) Ganger</td>
<td>hour</td>
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<td>Rate only</td>
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<td>(e) Flagmen</td>
<td>hour</td>
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<td>Rate only</td>
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<td>B18.02</td>
<td>Personnel outside normal working hours:</td>
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<td>(a) Outside normal working hours and on Saturdays:</td>
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<td>(i) Unskilled labour</td>
<td>hour</td>
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<td>(ii) Semi-skilled labour</td>
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<td>(iii) Skilled labour</td>
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<td>(iv) Ganger</td>
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<td>(v) Flagmen</td>
<td>hour</td>
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<td>(b) Sundays and public holidays:</td>
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<td>(i) Unskilled labour</td>
<td>hour</td>
<td></td>
<td>Rate only</td>
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</tr>
<tr>
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<td>(ii) Semi-skilled labour</td>
<td>hour</td>
<td></td>
<td>Rate only</td>
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</tr>
<tr>
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<td>(iii) Skilled labour</td>
<td>hour</td>
<td></td>
<td>Rate only</td>
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</tr>
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<td></td>
<td>(iv) Ganger</td>
<td>hour</td>
<td></td>
<td>Rate only</td>
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</tr>
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<td>(v) Flagmen</td>
<td>hour</td>
<td></td>
<td>Rate only</td>
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## SCHEDULE A : ROAD CONSTRUCTION

### SECTION B1800

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<td>Brought forward</td>
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<td><strong>Equipment/Plant:</strong></td>
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<td>(a)</td>
<td>Tipper truck 6 m³</td>
<td>hour</td>
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<td>(b)</td>
<td>T.L.B</td>
<td>hour</td>
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<td>(c)</td>
<td>Grader: 140 G</td>
<td>hour</td>
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<td>(d)</td>
<td>Excavator (25 TON)</td>
<td>hour</td>
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<td>(e)</td>
<td>Front-end loader</td>
<td>hour</td>
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<td>(f)</td>
<td>Vibrating pedestrian roller (Bomag 60)</td>
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<td><strong>B18.04</strong></td>
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<td>Contractor's handling costs, profit and all</td>
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<td>other charges in respect of subitem B18.04(a)</td>
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<tr>
<td>(a)</td>
<td>LDV</td>
<td>km</td>
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<td>Flatbed truck</td>
<td>km</td>
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# Schedule A: Road Construction

## Section 2100

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<td>21.01 LI</td>
<td>Excavation for open drains</td>
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<td>(a) Excavating soft material situated within the following depth ranges below the surface level:</td>
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<tr>
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<td>(i) 0 m up to 1.5 m</td>
<td>m³</td>
<td>250</td>
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<td>(b) Extra over sub item 21.01 (a) for excavation in hard material, irrespective of depth</td>
<td>m³</td>
<td>50</td>
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<td>21.02 LI</td>
<td>Clearing and shaping existing open drains</td>
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<td>21.03</td>
<td>Excavation for subsoil drainage systems</td>
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<td>(a) Excavating soft material situated within the following depth ranges below surface level:</td>
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<td></td>
<td>(i) 0 m up to 1.5m</td>
<td>m³</td>
<td>250</td>
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<td>(b) Extra over subitem 21.03(a) for excavation in hard material irrespective of depth</td>
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<td>21.04</td>
<td>Impermeable backfilling to subsoil drainage systems</td>
<td>m³</td>
<td>70</td>
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<td>Natural permeable material in subsoil drainage systems (crushed stone)</td>
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<td>(b) Crushed stone obtained from commercial sources</td>
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<td>(ii) Coarse grade stone</td>
<td>m³</td>
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<td>Natural permeable material in subsoil drainage systems (Sand)</td>
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<td>(b) Sand from commercial sources</td>
<td>m³</td>
<td>20</td>
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<td>21.08</td>
<td>(b) Unplasticised PVC pipes and fittings, normal duty complete with couplings</td>
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<td>(1) Perforated</td>
<td>m</td>
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<td>(i) 150mm dia.</td>
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<td>Synthetic fibre filter fabric</td>
<td>m²</td>
<td>350</td>
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<td>(i) *Kaymat U24 or approved equivalent</td>
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<td>21.12</td>
<td>Concrete outlet structures, manhole boxes, junction boxes and cleaning eyes for subsoil drainage systems:</td>
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<td>(a) Outlet structures</td>
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<td>Concrete caps for subsoil drain pipes</td>
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<td>Overhaul for material hauled in excess of 1.0km free haul (normal overhaul)</td>
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<td>Testing flushing of pipe subsoil drains</td>
<td>No</td>
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<td>B21.20-LI</td>
<td>Galvanized wire mesh, 250x250mm, at the outlets of subsoil drainage systems.</td>
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<td>Mesh 10mm x 10mm x 2.5mm wire diameter</td>
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## Total Carried to Summary

2100
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<tr>
<td>2200</td>
<td>PREFABRICATED CULVERTS</td>
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<td>22.01</td>
<td>Excavation:</td>
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<td>(a)</td>
<td>Excavating soft material situated within the</td>
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<td>following depth ranges below the surface level:</td>
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<td>(i)</td>
<td>0 m up to 1,5 m</td>
<td>m³</td>
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<td>(ii)</td>
<td>Exceeding 1,5 m and up to 3,0 m</td>
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<td>(iii)</td>
<td>Exceeding 3,0 m and up to 4,5 m</td>
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<td>Extra over subitem 22.01(a) for excavation in</td>
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<td>hard material, irrespective of depth</td>
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<td>B22.02</td>
<td>Backfilling:</td>
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<td>B22.03</td>
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<td>Type SC 75D-load pipes with ogee joints:</td>
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<td>(a)</td>
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<td>In floor slabs for portal or rectangular culverts, including formwork, joints and class U2 surface finish:</td>
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<td>(c)</td>
<td>In inlet and outlet structures, skewed ends, catchpits, manholes, thrust and anchor blocks, excluding formwork, but including class U2 surface finish:</td>
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<td>Mild steel bars</td>
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<td>High-tensile steel bars</td>
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<td>Dowels for joining old and new concrete</td>
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<td>Reinforced concrete</td>
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<td>Manholes, catchpits, precast inlet and outlet structures complete:</td>
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<td>Manholes:</td>
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<td>Brickwork manholes complete with CI cover and frame</td>
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<td>Brickwork (type NFX bricks):</td>
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<td>(a) Manhole covers including frames:</td>
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<td>(i) SABS 558 type 2</td>
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<td>(e) Prefabricated reinforced class 20/19</td>
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<td>concrete cover slabs, 760 mm x 760 mm x</td>
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<td>90 mm, complete as shown on the drawings</td>
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<td>(i)</td>
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<td>22.24</td>
<td>Duct marker blocks:</td>
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<td>(a) 300 mm x 300 mm x 100 mm class 20/19 concrete as shown on the drawings</td>
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<td>Overhaul on excavated material carted to spoil, backfill material (but excluding Portland cement in the case of soil cement), existing structures demolished and removed to spoil, and removing and relaying, and removing and stacking existing prefabricated culverts, for haul in excess of the free-haul distance</td>
<td>m³-km</td>
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<td>B22.26</td>
<td>Hand excavation:</td>
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<td>(a) To determine the positions of existing services:</td>
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<td>(i) In roads</td>
<td>m³</td>
<td>50</td>
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</tr>
<tr>
<td></td>
<td>(ii) In all other areas</td>
<td>m³</td>
<td>50</td>
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<td>(b) To expose existing services to 0.6 m on either side of the service</td>
<td>m³</td>
<td>50</td>
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<td>Reinstating trenches crossing roads:</td>
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<td>(a) Selected layers</td>
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<td>(b) Subbase</td>
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<td>(c) Base (including prime coat)</td>
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<td>(d) Bituminous surfacing</td>
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<tr>
<td></td>
<td>including tack coat</td>
<td>m²</td>
<td></td>
<td>Rate only</td>
<td>Rate only</td>
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<td>(e) Kerbing</td>
<td>m</td>
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<td>Rate only</td>
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<td>Waterproofing of prefabricated culvert joints with a 500 mm wide strip of Bituthene 3000 or an approved equivalent material</td>
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<td>(a) 450mm dia</td>
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<tr>
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<td>(b) 525mm dia</td>
<td>No</td>
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<td>Rate only</td>
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<td>(c) 600mm dia</td>
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<td>Breaking into existing stormwater pipes of the following sizes to construct new drainage structures:</td>
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<tr>
<td></td>
<td>(a) 450mm dia</td>
<td>No</td>
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<td></td>
<td>(b) 525mm dia</td>
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<td></td>
<td>(c) 600mm dia</td>
<td>No</td>
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<p>| 2200    | TOTAL CARRIED TO SUMMARY                                                     |      |          |       |        |</p>
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<tbody>
<tr>
<td>2300</td>
<td>CONCRETE KERBING, CONCRETE CHANNELLING, CHUTES AND DOWNPipes, AND CONCRETE LININGS FOR OPEN DRAINS</td>
<td></td>
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<tr>
<td>B23.01</td>
<td>Concrete kerbing, Straight and Curved including Joints, class 25/19 concrete:</td>
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<tr>
<td></td>
<td>(a) Prefabricated mountable kerb, SABS 927 fig 8, as shown on the drawings</td>
<td>m</td>
<td></td>
<td>Rate only</td>
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<tr>
<td></td>
<td>(b) Prefabricated barrier kerb, SABS 927 fig 3, as shown on the drawings</td>
<td>m</td>
<td></td>
<td>Rate only</td>
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<tr>
<td></td>
<td>(c) 300 mm x 200 mm cast in situ class 20/19 concrete edge beam, as shown on the drawings</td>
<td>m</td>
<td>20</td>
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<td>B23.02</td>
<td>Concrete kerbing-channelling combination, Straight and Curved, including Joints, class 25/19 concrete:</td>
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<tr>
<td></td>
<td>(a) Prefabricated mountable kerb, SABS 927 fig 8, with 300 mm wide cast in situ concrete channel, class 20/19 as shown on the drawings</td>
<td>m</td>
<td>8 460</td>
<td></td>
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<tr>
<td></td>
<td>(b) Prefabricated barrier kerb, SABS 927 fig 3, with 300 mm wide cast in situ concrete channel, class 20/19 as shown on the drawings</td>
<td>m</td>
<td>400</td>
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<tr>
<td>23.05</td>
<td>Inlet, outlet, transition and similar structures (typical designs):</td>
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<tr>
<td></td>
<td>(a) Inlet structures, for chutes down side slopes, class 20/19 concrete, complete as shown on the drawings</td>
<td>No</td>
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<tr>
<td></td>
<td>(c) Combined double kerb inlet and manhole Class 25 concrete</td>
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<td>2300</td>
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<td>Brought forward</td>
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<td>B23.06</td>
<td>Inlet, outlet, transition, ramps and similar structures (measured by components):</td>
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<tr>
<td></td>
<td>(a) Concrete:</td>
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<tr>
<td></td>
<td>(i) Class 25/19 concrete</td>
<td>m³</td>
<td>13</td>
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<tr>
<td></td>
<td>(b) Formwork:</td>
<td></td>
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<tr>
<td></td>
<td>(i) Class U2 surface finish</td>
<td>m²</td>
<td>13</td>
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<tr>
<td>23.07</td>
<td>Trimming of excavations for concrete-lined open drains:</td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>(a) In soft material</td>
<td>m²</td>
<td>10</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>(b) In hard material</td>
<td>m²</td>
<td>10</td>
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<td>23.08</td>
<td>Concrete lining for open drains:</td>
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<td>(a) Cast in situ class 25/19 concrete lining in V-drains</td>
<td>m³</td>
<td>380</td>
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<td></td>
<td>(b) Class U2 surface finish to cast in situ concrete in V-drains</td>
<td>m²</td>
<td>2 540</td>
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<td>23.09</td>
<td>Formwork to cast in situ concrete lining for open drains (class F2 surface finish):</td>
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<tr>
<td></td>
<td>(a) To sides with formwork on the internal face only</td>
<td>m²</td>
<td>75</td>
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<td></td>
<td>(b) To sides with formwork on both internal and external faces (each face measured)</td>
<td>m²</td>
<td>75</td>
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<tr>
<td></td>
<td>(c) To ends of slabs</td>
<td>m²</td>
<td>5</td>
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<tr>
<td>23.10</td>
<td>Sealed joints in concrete linings of open drains:</td>
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<tr>
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<td>(a) With Flexcell and polysulphide seal, complete as shown on the drawings</td>
<td>m</td>
<td>23.12</td>
<td>0.00</td>
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<td>23.12</td>
<td>Steel reinforcement:</td>
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<td>(a) Mild steel bars</td>
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<tr>
<td></td>
<td>(b) High-tensile steel bars</td>
<td>t</td>
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<td>(c) Welded steel fabric</td>
<td>kg</td>
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<td>Cutting bituminous surfacing and pavement layers for concrete kerbing, edge beams, channelling or concrete-lined drains:</td>
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<td>(a) Depth up to 50 mm</td>
<td>m</td>
<td>50</td>
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<td></td>
<td>(b) Depth exceeding 50 mm but not exceeding 100 mm</td>
<td>m</td>
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<tr>
<td>B23.17</td>
<td>Removing existing kerbing</td>
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<p>| 2300    | TOTAL CARRIED TO SUMMARY | | | | |</p>
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<tr>
<td>3200</td>
<td>SELECTION, STOCKPILING AND BREAKING-DOWN THE MATERIAL FROM BORROW PITS, CUTTINGS AND EXISTING PAVEMENT LAYERS, AND PLACING AND COMPACTING THE GRAVEL LAYERS</td>
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<td>B32.06</td>
<td>Stockpiling of material</td>
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<td>(a) Existing road layers</td>
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<td>3300</td>
<td>MASS EARTHWORKS</td>
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<td>Cut and borrow to fill, including all haul:</td>
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<td>(a) Material in compacted layer thicknesses of 200 mm and less:</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>(i) Compacted to 90% of modified AASHTO density</td>
<td>m³</td>
<td></td>
<td>Rate only</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(ii) Compacted to 93% of modified AASHTO density</td>
<td>m³</td>
<td></td>
<td>8 692</td>
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<tr>
<td></td>
<td>(b) Material in compacted layer thicknesses exceeding 200 mm:</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>(i) Compacted to 90% of modified AASHTO density</td>
<td>m³</td>
<td></td>
<td>Rate only</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(ii) Compacted to 93% of modified AASHTO density</td>
<td>m³</td>
<td></td>
<td>Rate only</td>
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<tr>
<td></td>
<td>(g) Coarse fill (so-called pioneer/rock fill as specified in subclause B3307(k)) compacted to 90% of modified AASHTO density</td>
<td>m³</td>
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<td>B33.04</td>
<td>Cut to spoil, including all haul. Material obtained from:</td>
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<td>(a) Soft excavation</td>
<td>m³</td>
<td>12 521</td>
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<tr>
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<td>(c) Hard excavation</td>
<td>m³</td>
<td>1 878</td>
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<td>Removal of unsuitable material, including all haul:</td>
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<td>(a) In layer thicknesses of 200 mm and less:</td>
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<tr>
<td></td>
<td>(i) Stable material</td>
<td>m³</td>
<td></td>
<td>Rate only</td>
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<tr>
<td></td>
<td>(ii) Unstable material</td>
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<td>(b) In layer thicknesses exceeding 200 mm:</td>
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<td></td>
<td>(i) Stable material</td>
<td>m³</td>
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<tr>
<td></td>
<td>(ii) Unstable material</td>
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<td>B33.09</td>
<td>Material temporarily removed and placed in a windrow</td>
<td>m³</td>
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<td>Roadbed preparation and the compaction of material:</td>
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<td>(a) Compaction to 90% of modified AASHTO density</td>
<td>m³</td>
<td></td>
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<td>(b) Compaction to 93% of modified AASHTO density</td>
<td>m³</td>
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<td>33.12</td>
<td>In situ treatment of roadbed:</td>
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<td>(a) In situ treatment by ripping</td>
<td>m³</td>
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<td>(b) In situ treatment by blasting</td>
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<td>3400</td>
<td><strong>PAVEMENT LAYERS OF GRAVEL MATERIAL</strong></td>
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<td>34.01</td>
<td>Pavement layers constructed from gravel taken from cut or borrow, including free-haul up to 1,0 km:</td>
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<tr>
<td></td>
<td>(a) Gravel selected layer compacted to:</td>
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<tr>
<td></td>
<td>(i) 93% of modified AASHTO density for a compacted layer thickness of 150mm</td>
<td>m³</td>
<td></td>
<td>Rate only</td>
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<td></td>
<td>(ii) 95% of modified AASHTO density for a compacted layer thickness of 150mm</td>
<td>m³</td>
<td></td>
<td>Rate only</td>
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<td></td>
<td>(g) Gravel shoulders compacted to:</td>
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<tr>
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<td>(i) 93% of modified AASHTO density for a compacted layer thickness of 150mm</td>
<td>m³</td>
<td></td>
<td>Rate only</td>
<td></td>
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<tr>
<td></td>
<td>(ii) 95% of modified AASHTO density for a compacted layer thickness of 150mm</td>
<td>m³</td>
<td></td>
<td>Rate only</td>
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<tr>
<td>34.02</td>
<td>Extra over item 34.01 for excavation of material in:</td>
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<td></td>
<td>(b) Hard excavation</td>
<td>m³</td>
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<td>B34.03</td>
<td>Pavement layers constructed from gravel obtained from existing pavement layers:</td>
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<td>(a) Gravel selected layer compacted to 93% of modified AASHTO density, using:</td>
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<tr>
<td></td>
<td>(i) Non-cemented material for a compacted layer thickness of 150mm</td>
<td>m³</td>
<td>150</td>
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<td>(ii) Cemented material for a compacted layer thickness of 150mm</td>
<td>m³</td>
<td></td>
<td>Rate only</td>
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<td>(l) Gravel shoulder wearing course compacted to 93% of modified AASHTO density, using:</td>
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<td>(i) Non-cemented material for a compacted layer thickness of 150mm</td>
<td>m³</td>
<td>120</td>
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<td>(ii) Cemented material for a compacted layer thickness of 150mm</td>
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<td></td>
<td>Rate only</td>
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<td>B34.15</td>
<td>Pavement layers constructed from gravel obtained from commercial sources or approved sources provided by the contractor, including all haul:</td>
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<td>(a) Gravel selected layer from G6 material compacted to:</td>
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<tr>
<td></td>
<td>(i) 93% of modified AASHTO density for a compacted layer thickness of 150 mm</td>
<td>m³</td>
<td>4 229</td>
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<td>(ii) 95% of modified AASHTO density for a compacted layer thickness of 150 mm</td>
<td>m³</td>
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<td>(b) Gravel subbase from G6 material (unstabilised gravel) compacted to:</td>
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<td>(i) 95% of modified AASHTO density for a compacted layer thickness of 150 mm</td>
<td>m³</td>
<td></td>
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<td>(ii) 97% of modified AASHTO density for a compacted layer thickness of 150 mm</td>
<td>m³</td>
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<td>(d) Gravel subbase from G5 material chemically stabilized to C4 and compacted to:</td>
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<td>(i) 97% of modified AASHTO density for a compacted layer thickness of 150 mm</td>
<td>m³</td>
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<td>(ii) 98% of modified AASHTO density for a compacted layer thickness of 150 mm</td>
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<td>(e) Gravel base from G5 material chemically stabilized to C4 and compacted to:</td>
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<td>(i) 97% of modified AASHTO density for a compacted layer thickness of 150 mm</td>
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<td>(ii) 98% of modified AASHTO density for a compacted layer thickness of 150 mm</td>
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<td>STABILIZATION</td>
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<td>Chemical stabilization extra over unstabilized compacted layers:</td>
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<td>(c) Gravel subbase, 150mm thick</td>
<td>m³</td>
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<td>(d) Gravel base, 150mm thick</td>
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<td>B35.02</td>
<td>Chemical stabilizing agent:</td>
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<td>(a) Ordinary Portland cement</td>
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<td></td>
<td>(b) Portland blast-furnace cement</td>
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<td>(c) Road lime, calcium / magnesium / dolomitic type</td>
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<tr>
<td>35.04</td>
<td>Provision and application of water for curing</td>
<td>kilolitre</td>
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<td>35.05</td>
<td>Curing by covering with the subsequent layer</td>
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<td>3600</td>
<td>CRUSHED STONE BASE</td>
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<td>36.01</td>
<td>Crushed-stone base</td>
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<td>(a) Constructed from type G2 material obtained from commercial sources and compacted to 88% of apparent density</td>
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<td>(1) 37mm nominal maximum size stone</td>
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<p>| 3500    | TOTAL CARRIED TO SUMMARY     |      |          |      |        |</p>
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<td>4100</td>
<td><strong>PRIME COAT</strong></td>
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<td>41.01</td>
<td>Prime coat:</td>
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<td>(a) RTH 3/12P or RTL 3/12P tar prime</td>
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<td>(b) Quick drying RTH 1/4P tar prime</td>
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<td>(d) MC-70 cut-back bitumen</td>
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<td>41.02</td>
<td>Aggregate for blinding</td>
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<td>41.03</td>
<td>Extra over item 41.01 for applying the prime coat in areas accessible only to hand held equipment</td>
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<td>ASPHALT BASE AND SURFACING</td>
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<td>B42.02</td>
<td>Asphalt surfacing 30mm thick using 60/70 penetration-grade bitumen:</td>
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<td>(a) Continuously graded, medium grade 30mm thick</td>
<td>m²</td>
<td>26 670</td>
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<td>42.04</td>
<td>Tack coat of 30% stable-grade emulsion</td>
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<td>1 500</td>
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<td>B42.08</td>
<td>100 mm cores in asphalt paving</td>
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## SCHEDULE A: ROAD CONSTRUCTION

### SECTION 5100

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<tr>
<td>5100</td>
<td>PITCHING, STONWORK AND PROTECTION AGAINST EROSION</td>
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<td>51.02</td>
<td>Supply and lay stone for rip-rap scour protection,</td>
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<td>60</td>
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<td>(a) Min stone size = +/-200mm, at inlet</td>
<td>m²</td>
<td>60</td>
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<tr>
<td></td>
<td>Supply and lay stone for rip-rap scour protection,</td>
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<td>(a) Min stone size = +/-200mm, at outlet</td>
<td>m²</td>
<td>60</td>
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<td>(c) Supply and lay Filter layer</td>
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<td>(i) Crushed stone, at inlet</td>
<td>m³</td>
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<td>(c) Supply and lay Filter layer</td>
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<td>(i) Crushed stone, at outlet</td>
<td>m³</td>
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<td>(c) Supply and lay Filter layer</td>
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<tr>
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<td>(ii) Filter sand, at inlet</td>
<td>m³</td>
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<td>(c) Supply and lay Filter layer</td>
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<tr>
<td></td>
<td>(ii) Filter sand, at outlet</td>
<td>m³</td>
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<td>(d) Supply and place Synthetic-fibre filter fabric</td>
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<td>Bidim A5 filter fabric, at inlet</td>
<td>m²</td>
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<td>(d) Supply and place Synthetic-fibre filter fabric</td>
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<td>Bidim A5 filter fabric, at outlet</td>
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**TOTAL CARRIED FORWARD TO SUMMARY**
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<td>56.01</td>
<td>Road sign boards with painted or coloured semi-matt background. Symbols, lettering and borders in semi-matt black or Class I retro-reflective material, where the sign board is constructed from:</td>
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<td>(a) Aluminium sheet (2.0 mm thick):</td>
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<tr>
<td></td>
<td>(i) Area not exceeding 2 m²</td>
<td>m²</td>
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<td>(ii) Area exceeding 2 m² but not 10 m²</td>
<td>m²</td>
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<td>56.02</td>
<td>Extra over item 56.01 for using:</td>
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<td>(a) Background of retro-reflective material:</td>
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<td>(i) Class I</td>
<td>m²</td>
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<td>(ii) Class II</td>
<td>m²</td>
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<td>(iii) Class III</td>
<td>m²</td>
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<td>(b) Lettering, symbols, numbers, arrows, emblems and borders of retro-reflective material:</td>
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<td>(i) Class II</td>
<td>m²</td>
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<td></td>
<td>(ii) Class III</td>
<td>m²</td>
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<td>56.03</td>
<td>Road sign supports (overhead road sign structures excluded):</td>
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<td>(a) Steel tubing - 2 mm thick 50 to 100 mm dia.</td>
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<td>0.5</td>
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<td>(b) Timber, 150 mm dia Creosote treated</td>
<td>m</td>
<td>75</td>
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<td>56.05</td>
<td>Excavation and backfilling for road sign supports (not applicable to kilometre posts)</td>
<td>m³</td>
<td>75</td>
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<td>Extra over item 56.05 for cement-treated soil backfill</td>
<td>m³</td>
<td>30</td>
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<td>Extra over item 56.05 for rock excavation</td>
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<td>Dismantling, storing and re-erecting road signs with a surface area of:</td>
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<tr>
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<td>(a) Up to 2 m²</td>
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<td>(b) Exceeding 2 m² but not 10 m²</td>
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<td>(a) Up to 2 m²</td>
<td>No</td>
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<td>Rate only</td>
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<td>(b) Exceeding 2 m² but not 10 m²</td>
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<td>Class 15/38 concrete backfill in excavations for road sign footings</td>
<td>m³</td>
<td>50</td>
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<td>Hazard plates:</td>
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<td>(a) 600 mm x 600 mm</td>
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<td>(b) 600 mm x 150 mm</td>
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<td>(c) 800 mm x 200 mm</td>
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<td>(d) 1 200 mm x 300 mm</td>
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<td>Temporary covers for road signs</td>
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<td>Dismantling and disposal of road signs:</td>
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<td>(a) Hazard marker signs</td>
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<td>(b) Single post signs (other R and W signs)</td>
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<td>(c) Multiple post signs</td>
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<td>(d) Overhead-mounted road sign boards</td>
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<td>ROAD MARKINGS</td>
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<td>Road-marking paint:</td>
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<td>(a) White lines (broken or unbroken):</td>
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<tr>
<td></td>
<td>(i) 100 mm wide</td>
<td>km</td>
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<td>(i) 100 mm wide</td>
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<td>2.1</td>
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<td>0.00</td>
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<td>(c) Red lines (broken or unbroken):</td>
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<td>km</td>
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<td>(ii) 150 mm wide</td>
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5700 Carried forward
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<td>81.02</td>
<td>TESTING MATERIALS AND WORKMANSHIP</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>Other special tests requested by the engineer:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(a) Cost of testing</td>
<td>Prov Sum</td>
<td>1</td>
<td>105 000.00</td>
<td>105 000.00</td>
</tr>
<tr>
<td></td>
<td>(b) Handling cost and profit in respect of subitem B81.02(a) above</td>
<td>%</td>
<td>105 000.00</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
# MBOMBELA LOCAL MUNICIPALITY

## CONTRACT NO

UPGRADING OF SANDFORD ROAD

## SUMMARY OF SCHEDULE OF QUANTITIES

### SUMMARY OF SCHEDULE A: ROAD CONSTRUCTION

<table>
<thead>
<tr>
<th>Schedule</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1200</td>
<td>General Requirements and Provisions</td>
<td>R</td>
</tr>
<tr>
<td>1300</td>
<td>Contractor's Establishment on Site and General Obligations</td>
<td>R</td>
</tr>
<tr>
<td>1400</td>
<td>Housing, Offices and Laboratories for the Engineer's Site Personnel</td>
<td>R</td>
</tr>
<tr>
<td>1500</td>
<td>Accommodation of Traffic</td>
<td>R</td>
</tr>
<tr>
<td>1600</td>
<td>Overhaul</td>
<td>R</td>
</tr>
<tr>
<td>1700</td>
<td>Clearing and Grubbing</td>
<td>R</td>
</tr>
<tr>
<td>1800</td>
<td>Dayworks</td>
<td>R</td>
</tr>
<tr>
<td>2000</td>
<td>Drains</td>
<td>R</td>
</tr>
<tr>
<td>2200</td>
<td>Prefabricated Culverts</td>
<td>R</td>
</tr>
<tr>
<td>2300</td>
<td>Concrete Kerbing, Concrete Channeling, Chutes and Downpipes, and Concrete Linings for Open Drains</td>
<td>R</td>
</tr>
<tr>
<td>3200</td>
<td>Selection, Stockpiling and Breaking-Down the Material from Borrow Pits, Cuttings and Existing Pavement Layers, and Placing and Compacting the Gravel Layers</td>
<td>R</td>
</tr>
<tr>
<td>3300</td>
<td>Mass Earthworks</td>
<td>R</td>
</tr>
<tr>
<td>3400</td>
<td>Pavement Layers of Gravel Material</td>
<td>R</td>
</tr>
<tr>
<td>3500</td>
<td>Stabilization</td>
<td>R</td>
</tr>
<tr>
<td>3600</td>
<td>Crushed Stone Base</td>
<td>R</td>
</tr>
<tr>
<td>4100</td>
<td>Prime Coat</td>
<td>R</td>
</tr>
<tr>
<td>4200</td>
<td>Asphalt Base and Surfacing</td>
<td>R</td>
</tr>
<tr>
<td>5100</td>
<td>Pitching, Stonework and Protection Against Erosion</td>
<td>R</td>
</tr>
<tr>
<td>5600</td>
<td>Road Signs</td>
<td>R</td>
</tr>
<tr>
<td>5700</td>
<td>Road Markings</td>
<td>R</td>
</tr>
<tr>
<td>6100</td>
<td>Foundations for Structures</td>
<td>R</td>
</tr>
<tr>
<td>6200</td>
<td>Falsework, Formwork and Concrete Finish</td>
<td>R</td>
</tr>
<tr>
<td>6300</td>
<td>Steel Reinforcement for Structures</td>
<td>R</td>
</tr>
<tr>
<td>6400</td>
<td>Concrete for Structures</td>
<td>R</td>
</tr>
<tr>
<td>7300</td>
<td>Concrete Block Paving for Roads</td>
<td>R</td>
</tr>
<tr>
<td>8100</td>
<td>Testing Materials and Workmanship</td>
<td>R</td>
</tr>
</tbody>
</table>

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**TOTAL SCHEDULE A: ROAD CONSTRUCTION:**

CARRIED TO CALCULATION OF TENDER SUM

R
MBOMBELA LOCAL MUNICIPALITY

CONTRACT NO

FOR

UPGRADING OF SANDFORD ROAD

CALCULATION OF TENDER SUM

TOTALS BROUGHT FORWARD FROM SUMMARY OF SCHEDULE OF QUANTITIES

<table>
<thead>
<tr>
<th>SCHEDULE A : ROAD CONSTRUCTION</th>
<th>R</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOTAL OF SCHEDULE OF QUANTITIES</td>
<td>R</td>
</tr>
<tr>
<td>CONTRACT PRICE ADJUSTMENT @ 5%</td>
<td>R</td>
</tr>
<tr>
<td>Sum provided in terms of the provisions of the General Conditions of Contract</td>
<td>R</td>
</tr>
<tr>
<td>CONTINGENCIES @ 8%</td>
<td>R</td>
</tr>
<tr>
<td>The sum provided here is under the sole control of the engineer and may be deducted in whole or in part</td>
<td>R</td>
</tr>
<tr>
<td>SUBTOTAL</td>
<td>R</td>
</tr>
<tr>
<td>VALUE-ADDED TAX (VAT)</td>
<td>R</td>
</tr>
<tr>
<td>The tenderer shall add 14% of the subtotal for VAT</td>
<td>R</td>
</tr>
<tr>
<td>TENDER SUM CARRIED TO FORM OF TENDER</td>
<td>R</td>
</tr>
</tbody>
</table>

SIGNED ON BEHALF OF TENDERER: