

SCHEDULE 10 : CONSTRUCTION OF PIPELINES

| ITEM NO. | REF | DESCRIPTION | UNIT | QUANT | RATE | AMOUNT |
|------------------------------|----------------|---|--------------------|-------|------|--------|
| 10 | SABS | | | | | |
| | 1200DB | <u>SITE CLEARANCE</u> | | | | |
| 10.1 | PSC 4.1 | a) Clear and Grub | m | 10830 | | |
| | SABS | | | | | |
| | 1200DB | <u>EXCAVATION</u> | | | | |
| | PSDB1.1 | Excavate in all materials for trenches for 700DN pipes and smaller. Rate to include backfill, compact and dispose of surplus material | | | | |
| 10.2 | | a) Up to 1.5m deep | m ³ | 2850 | | |
| 10.3 | | b) over 1.5m and up to 2.5m deep | m ³ | 20000 | | |
| 10.4 | | c) over 2.5m and up to 3.5m deep | m ³ | 1600 | | |
| 10.5 | | d) over 3.5m and up to 4.5m deep | m ³ | 620 | | |
| | PSDB1.2 | <u>Extra-over item 10.2 to 10.5 for :</u> | | | | |
| 10.6 | | a) Hard rock excavation | m ³ | 7500 | | |
| 10.7 | 8.3.2c) | Excavate and dispose of unsuitable material from trench bottom (Prove) | m ³ | 150 | | |
| 10.8 | 8.3.3b) | Import backfill material from designated borrow area within the free haul distance of 1.0km. | m ³ | 150 | | |
| 10.9 | 8.3.3.3 | Compaction in road reserves | m ³ | 25000 | | |
| | 8.3.3.4 | <u>Overhaul</u> | | | | |
| 10.10 | a) | Long overhaul in excess of 2.0km | m ³ .km | 15000 | | |
| | SABS | | | | | |
| | 1200DB | <u>EXISTING SERVICES</u> | | | | |
| | 8.3.5a) | <u>Services that intersect a trench</u> | | | | |
| 10.11 | a) | Water and sewer pipelines | no | 20 | | |
| 10.12 | | b) Cables | no | 20 | | |
| | 8.3.5b) | <u>Services that adjoin a trench</u> | | | | |
| 10.13 | a) | Water and sewer pipelines | m | 150 | | |
| 10.14 | | b) Cables | m | 400 | | |
| | SABS | | | | | |
| | 1200LB | <u>PIPE BEDDING</u> | | | | |
| | | <u>Selected granular material for bedding cradle from:</u> | | | | |
| 10.15 | 8.2.1 | a) Trench excavation | m ³ | 12000 | | |
| 10.16 | | b) Commercial Sources | m ³ | 600 | | |
| | | <u>Provision of selected fill material from:</u> | | | | |
| 10.17 | 8.2.1 | a) Trench excavation | m ³ | 3200 | | |
| 10.18 | 8.2.1 | b) Commercial Sources | m ³ | 160 | | |
| TOTAL CARRIED FORWARD | | | | | | |

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|---|--------------------|--|----------------|-------|------|--------|
| TOTAL BROUGHT FORWARD | | | | | | |
| | SABS 1200L | <u>STEEL PIPES</u> | | | | |
| | | <u>Supply, install on concrete pedestals and test the following Mild Steel pipes with fusion bonded epoxy lining and coating</u> | | | | |
| 10.19 | 8.2.1 | b) 750mm Dia. Flanged pipes, Class 25 (6m Lengths) | m | 2130 | | |
| | SABS 1200L | <u>PRESSURE PIPES</u> | | | | |
| | 8.2.1 | <u>Supply, lay, bed and test the following pressure pipes:</u> | | | | |
| 10.20 | | a) 700mm GRP SN5000 Class 16 | m | 2200 | | |
| 10.21 | | b) 700mm GRP SN5000 Class 20 | m | 6500 | | |
| | | <u>Pipeline markers</u> | | | | |
| 10.22 | | Construct and install concrete pipeline markers as per drawing DWG-N3110/RWW/11/004 | no | 87 | | |
| | SABS 1200L | <u>MISCELLANEOUS</u> | | | | |
| | 8.2.11 | <u>Concrete thrust block configuration</u> | | | | |
| 10.23 | | a) Concrete volume 0.25 - 0.5 m ³ | no | 80 | | |
| 10.24 | | b) Concrete volume 0.5 - 1.0 m ³ | no | 150 | | |
| 10.25 | | c) Concrete volume 1,0 - 1.5 m ³ | no | 70 | | |
| | PSL 4.2 | <u>Fabrication, supply, transport and install and test the following VJ couplings.</u> | | | | |
| 10.26 | | a) For 650mm pipe | no | 34 | | |
| | PSL 4.3 | <u>Reinstate road surface</u> | | | | |
| | | Reinstate road surface as per detail drawing | | | | |
| 10.27 | | a) Cut and remove existing gravel layer in windrow and stockpile | m ³ | 120 | | |
| 10.28 | | b) Reinstate existing gravel layers to original state (98% MOD AASHTO) | m ³ | 120 | | |
| | SABS 1200L | <u>HDPE PIPES</u> | | | | |
| | 8.2.1 | <u>Supply, lay, bed and test the following HDPE pipes:</u> | | | | |
| 10.29 | | a) 900mm dia. HDPE Pipe PE 100 PN12.5 (Road Crossing Sleeve) | m | 120 | | |
| | SABS 1200MM | <u>GUARD RAILS</u> | | | | |
| 10.30 | 8.2.1 | <u>Supply Deliver and install galvanized Guard Railings all complete next to canal. Rate to include all labour and equipment for installation.</u> | m | 3700 | | |
| TOTAL SCHEDULE 10 CARRIED FORWARD TO SUMMARY | | | | | | |