

CONTRACT: MIS 540 115C
CONTRACT TITLE: Mqanduli Secondary Bulk Water Supply Phase 2A: Contract 3

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CONTRACT TITLE: Mqanduli Secondary Bulk Water Supply Phase 2A: Contract 3
BILL:
SECTION: 1 SABS 1200 A - GENERAL

BILL OF QUANTITIES

| ITEM | PAYMENT REFERS | DESCRIPTION | UNIT | QUANTITY | RATE R | AMOUNT R |
|------------------------|--------------------------|--|------|----------|-----------|-------------|
| 1.1 | 8.3 | FIXED-CHARGE AND VALUE RELATED ITEMS | | | | |
| 1.1.1 | 8.3.1 | Contractual Requirements | Sum | 1.00 | | |
| | 8.3.2 | Establishment of Facilities on the Site | | | | |
| | 8.3.2.1 | Facilities for Engineer | | | | |
| 1.1.2 | PSAB 3.2 | a) Furnished offices (1No.) | Sum | 1.00 | | |
| 1.1.3 | | b) Telephone | Sum | 1.00 | | |
| 1.1.4 | | c) Nameboards (2 No.) | Sum | 1.00 | | |
| | 8.3.2.2 | Facilities for Contractor | | | | |
| 1.1.5 | | a) Offices and storage sheds | Sum | 1.00 | | |
| 1.1.6 | | b) Workshops | Sum | 1.00 | | |
| 1.1.7 | | c) Laboratories | Sum | 1.00 | | |
| 1.1.8 | | d) Living accommodation | Sum | 1.00 | | |
| 1.1.9 | | e) Ablution and latrine facilities | Sum | 1.00 | | |
| 1.1.10 | | f) Tools and equipment | Sum | 1.00 | | |
| 1.1.11 | | g) Water supplies, electric power and communications | Sum | 1.00 | | |
| 1.1.12 | | h) Dealing with water (see 5.5) | Sum | 1.00 | | |
| 1.1.13 | | i) Access (see 5.8) | Sum | 1.00 | | |
| 1.1.14 | | j) Plant | Sum | 1.00 | | |
| 1.1.15 | 8.3.3 | Other Fixed-charge Obligations | Sum | 1.00 | | |
| 1.1.16 | 8.3.4 | Removal of Site Establishment | Sum | 1.00 | | |
| | PSA 8.4.6 | Compliance with the OHS Act (1993, as amended), the Construction Regulations (2014) and the Particular Safety Specification: | | | | |
| 1.1.17 | PSHSS 6.1.2; CR 5 (1)(l) | i) Preparation of the Contractor's site specific Health and Safety Plan | Sum | 1.00 | | |
| 1.1.18 | CR 7(1)(b) | ii) Principal Contractor's initial obligations in respect of the Occupational Health and Safety Act and Construction Regulations | Sum | 1.00 | | |
| | GSR 2; PSHSS 7.7 | iii) Provision of EPWP Branded SABS Personal Protective Equipment | | | | |
| 1.1.19 | | (a) Hard Hats | No | 70.00 | | |
| 1.1.20 | | (b) Reflective vests | No | 70.00 | | |
| CARRIED FORWARD | | | | | | |

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BILL OF QUANTITIES

| ITEM | PAYMENT REFERS | DESCRIPTION | UNIT | QUANTITY | RATE R | AMOUNT R |
|------------------------|----------------------|---|------|----------|-----------|-------------|
| | | BROUGHT FORWARD | | | | |
| 1.1.21 | | (c) Protective foot wear | No | 70.00 | | |
| 1.1.22 | | (d) Corded Earplugs | No | 200.00 | | |
| 1.1.23 | | (e) Dust masks FFP2 | No | 200.00 | | |
| 1.1.24 | | (g) Gloves | No | 200.00 | | |
| 1.1.25 | | (h) Goggles | No | 200.00 | | |
| | CR 7(1)(g); | iv) Cost of medical certificates and medical surveillance | | | | |
| 1.1.26 | PSHSS 7.2 | (a) Initial (baseline) medical examinations | No | 30.00 | | |
| 1.1.27 | | (b) Exit medical examinations | No | 30.00 | | |
| | PSHSS 7.14 | v) Fall Protection | | | | |
| 1.1.28 | | a) Lifeline & anchorage | No | 2.00 | | |
| 1.1.29 | | b) Safety Harnesses | No | 5.00 | | |
| 1.1.30 | | c) Rescue Kit | No | 1.00 | | |
| | | vi) Occupational Hygiene Survey | | | | |
| 1.1.31 | NIHL 6; PSHSS 7.3 | (a) Establishment of noise zones (plant) | Sum | 1.00 | | |
| 1.1.32 | | (b) Compliance with Amendment of the Occupational Exposure Control Limit for Silica in Table 1 of the Hazardous Chemical Substances including air sampling and analysis | Sum | 1.00 | | |
| 1.1.33 | PSA 8.4.7 | Compliance with EMP and EMP _r | Sum | 1.00 | | |
| 1.2 | 8.4 | TIME-RELATED ITEMS | | | | |
| 1.2.1 | 8.4.1 | Contractual Requirements | Sum | 1.00 | | |
| | 8.4.2 | Operation and Maintenance of Facilities on Site, for Duration of Construction, except where otherwise stated | | | | |
| | 8.4.2.1 | Facilities for Engineer | | | | |
| 1.2.2 | | a) Furnished offices (1No.) | Sum | 1.00 | | |
| 1.2.3 | PSAB 4.1 | b) Telephone | Sum | 1.00 | | |
| 1.2.4 | | c) Nameboards (2 No.) | Sum | 1.00 | | |
| 1.2.5 | | d) Survey assistants and materials | Sum | 1.00 | | |
| | 8.4.2.2 | Facilities for Contractor | | | | |
| CARRIED FORWARD | | | | | | |

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BILL OF QUANTITIES

| ITEM | PAYMENT REFERS | DESCRIPTION | UNIT | QUANTITY | RATE R | AMOUNT R |
|------------------------|----------------------|--|-------|----------|-----------|-------------|
| | | BROUGHT FORWARD | | | | |
| 1.2.6 | | a) Offices and storage sheds | Sum | 1.00 | | |
| 1.2.7 | | b) Workshops | Sum | 1.00 | | |
| 1.2.8 | | c) Laboratories | Sum | 1.00 | | |
| 1.2.9 | | d) Living accommodation | Sum | 1.00 | | |
| 1.2.10 | | e) Ablution and latrine facilities | Sum | 1.00 | | |
| 1.2.11 | | f) Tools and equipment | Sum | 1.00 | | |
| 1.2.12 | | g) Water supplies, electric power and communications | Sum | 1.00 | | |
| 1.2.13 | | h) Dealing with water (see 5.5) | Sum | 1.00 | | |
| 1.2.14 | | i) Access (see 5.8) | Sum | 1.00 | | |
| 1.2.15 | | j) Plant | Sum | 1.00 | | |
| 1.2.16 | 8.4.3 | Supervision for duration of Construction | Sum | 1.00 | | |
| 1.2.17 | 8.4.5 | Other Time-related Obligations | Sum | 1.00 | | |
| | PSA 8.4.6 | Compliance with the OHS Act (1993, as amended), the Construction Regulations (2014) and the Particular Safety Specification: | | | | |
| 1.2.18 | CR 5(1)(g) | i) Principal Contractor's time related obligations in respect of the Occupational Health and Safety Act and Construction Regulations | month | 10.00 | | |
| 1.2.19 | CR 8(5); PSHSS 6.1.5 | ii) Provision of a full- time SACPCMP registered Construction Health and Safety Officer | month | 10.00 | | |
| 1.2.20 | | iii) Provision of a part-time assistant SACPCMP Candidate Construction Health and Safety Officer for Subcontractor Management & Assistance | month | 10.00 | | |
| | | iv) OH&S Legal Compliance Training - SAQA UNIT STANDARD | | | | |
| 1.2.21 | GSR 3(5); PSHSS 7.5 | a) First Aid | No | 1.00 | | |
| 1.2.22 | PSHSS 6.1.7 | b) H&S Representative | No | 1.00 | | |
| 1.2.23 | PSHSS 7.14 | c) Working at height & rescue operations | No | 20.00 | | |
| 1.2.24 | CR 29(h) | d) Basic Fire Fighting | No | 1.00 | | |
| CARRIED FORWARD | | | | | | |

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BILL OF QUANTITIES

| ITEM | PAYMENT REFERS | DESCRIPTION | UNIT | QUANTITY | RATE R | AMOUNT R |
|------------------------|------------------------|--|----------|------------|------------|------------|
| | | BROUGHT FORWARD | | | | |
| 1.2.25 | PSHSS 6.1.3/4 | e) Safety for Supervisors | No | 2.00 | | |
| 1.2.26 | PSHSS 7.13 | f) Temporary Works Training | No | 20.00 | | |
| 1.2.27 | SANS 10085; PSHSS 7.13 | g) Scaffolding | No | 5.00 | | |
| 1.2.28 | PSHSS 7.10 | h) Plant Operators | No | 5.00 | | |
| 1.2.29 | PSHSS 6.1.6 | i) Temporary Roadworks Signage | Sum | 1.00 | | |
| 1.2.30 | PSHSS 7.17 | j) Excavation Safety - Supervisors | No | 12.00 | | |
| 1.2.31 | | k) Other | Sum | 1.00 | | |
| 1.2.32 | GSR 3; PSHSS 7.5 | v) Provision of First Aid Boxes to GSR requirements | No | 3.00 | | |
| 1.2.33 | GMR 18; PSHSS 7.13 | vi) Lifting Equipment Inspection by AIA | Sum | 1.00 | | |
| 1.2.34 | PSHSS 7.13 | vii) Temporary Works Designs, Inspections and Approval | Sum | 1.00 | | |
| 1.2.35 | CR 7(1)(c) (e) | viii) Submission of a Health and Safety File | Sum | 1.00 | | |
| 1.2.36 | PSA 8.4.7 | Compliance with EMP and EMPr | Sum | 1.00 | | |
| 1.2.37 | PSA 8.4.8 | Supervision of Subcontractor | Sum | 1.00 | | |
| 1.3 | 8.5 | SUMS STATED PROVISIONALLY BY ENGINEER (Subclause 8.1.2.1 (d)) | | | | |
| 1.3.1 | | Community Liason Officer | Prov.Sum | 1.00 | 84,000.00 | 84,000.00 |
| 1.3.2 | | Overheads, charges and profit on 1.3.1 above | % | 84 000.00 | | |
| 1.3.3 | | Allowance for Nominated Environmental Control Officer | Prov.Sum | 1.00 | 110,000.00 | 110,000.00 |
| 1.3.4 | | Overheads, charges and profit on 1.3.3 above | % | 110 000.00 | | |
| 1.3.5 | | Allowance for Nominated Health and Safety Officer | Prov.Sum | 1.00 | 230,000.00 | 230,000.00 |
| 1.3.6 | | Overheads, charges and profit on 1.3.5 above | % | 230 000.00 | | |
| 1.3.7 | | Allowance for Nominated ISD Officer | Prov.Sum | 1.00 | 115,000.00 | 115,000.00 |
| CARRIED FORWARD | | | | | | |

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SECTION: 1 SABS 1200 A - GENERAL

BILL OF QUANTITIES

| ITEM | PAYMENT REFERS | DESCRIPTION | UNIT | QUANTITY | RATE R | AMOUNT R |
|------------------------|-------------------|--|----------|------------|------------|-------------|
| | | BROUGHT FORWARD | | | | |
| 1.3.8 | | Overheads, charges and profit on 1.3.7 above | % | 115 000.00 | | |
| 1.3.9 | | Additional Tests required by Engineer | Prov.Sum | 1.00 | 50,000.00 | 50,000.00 |
| 1.3.10 | | Overheads, charges and profit on 1.3.9 above | % | 50 000.00 | | |
| 1.3.11 | | Allowance for additional survey | Prov.Sum | 1.00 | 50,000.00 | 50,000.00 |
| 1.3.12 | | Overheads, charges and profit on 1.3.11 above | % | 50 000.00 | | |
| 1.3.13 | | Allowance for relocation of existing services | Prov.Sum | 1.00 | 100,000.00 | 100,000.00 |
| 1.3.14 | | Overheads, charges and profit on 1.3.13 above | % | 100 000.00 | | |
| 1.3.15 | | Allowance for connections to existing infrastructure | Prov.Sum | 1.00 | 50,000.00 | 50,000.00 |
| 1.3.16 | | Overheads, charges and profit on 1.3.15 above | % | 50 000.00 | | |
| 1.3.17 | | Allowance for River Crossings | Prov.Sum | 2.00 | 150,000.00 | 300,000.00 |
| 1.3.18 | | Overheads, charges and profit on 1.3.17 above | % | 300 000.00 | | |
| 1.3.19 | | Allowance for HIV awareness and training | Prov.Sum | 1.00 | 10,000.00 | 10,000.00 |
| 1.3.20 | | Overheads, charges and profit on 1.3.21 above | % | 10 000.00 | | |
| | | Expanded Public Works Programme (EPWP) | | | | |
| 1.3.21 | | Allowance for training on targeted labour | Prov.Sum | 1.00 | 100,000.00 | 100,000.00 |
| 1.3.22 | | Overheads, charges and profit on 1.3.23 above | % | 100 000.00 | | |
| 1.3.23 | | Transportation and accomodation of workers for training where it is not possible to undertake in close proximity | Prov.Sum | 1.00 | 10,000.00 | 10,000.00 |
| 1.3.24 | | Overheads, charges and profit on 1.3.25 above | % | 10 000.00 | | |
| 1.3.25 | | Equipment for the Engineer | Prov.Sum | 1.00 | 180,000.00 | 180,000.00 |
| 1.3.26 | | Overheads, Charges and Profit on item 1.3.27 above | % | 180 000.00 | | |
| 1.3.27 | | Allowance for Young Professionals/Students /Trainees | Prov.Sum | 5.00 | 96,000.00 | 480,000.00 |
| 1.3.28 | | Overheads, Charges and Profit on item 1.3.29 above | % | 480 000.00 | | |
| 1.3.29 | | Transportation (including fuel) for the Engineer for the duration of the contract. | Prov.Sum | 1.00 | 280,000.00 | 280,000.00 |
| 1.3.30 | | Overheads, Charges and Profit on item 1.3.31 above | % | 280 000.00 | | |
| 1.3.31 | | Accomodation for the Engineer for the duration of the contract. | Prov.Sum | 1.00 | 150,000.00 | 150,000.00 |
| CARRIED FORWARD | | | | | | |

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BILL:
SECTION: 1 SABS 1200 A - GENERAL

BILL OF QUANTITIES

| ITEM | PAYMENT REFERS | DESCRIPTION | UNIT | QUANTITY | RATE R | AMOUNT R |
|---|-------------------|--|----------|------------|------------|-------------|
| | | BROUGHT FORWARD | | | | |
| 1.3.32 | | Overheads, Charges and Profit on item 1.3.33 above | % | 150 000.00 | | |
| 1.3.33 | | Cellphone allowance for the Engineer for the duration of the contract. | Prov.Sum | 1.00 | 30,000.00 | 30,000.00 |
| 1.3.34 | | Overheads, Charges and Profit on item 1.3.35 above | % | 30 000.00 | | |
| | PSA 8.7 | DAYWORK (See 8.1.2.1 (d)) | | | | |
| 1.3.35 | | a) Labour | Prov.Sum | 1.00 | 100,000.00 | 100,000.00 |
| 1.3.36 | | Overheads, charges and profit on item 1.3.33 above | % | 100 000.00 | | |
| 1.3.37 | | b) Materials | Prov.Sum | 1.00 | 100,000.00 | 100,000.00 |
| 1.3.38 | | Overheads, charges and profit on item 1.3.35 above | % | 100 000.00 | | |
| 1.3.39 | | c) Plant | Prov.Sum | 1.00 | 100,000.00 | 100,000.00 |
| 1.3.40 | | Overheads, charges and profit on item 1.3.38 above | % | 100 000.00 | | |
| 1.4 | 8.8 | TEMPORARY WORKS (See 8.1.2.1 (d)) | | | | |
| 1.4.1 | 8.8.1 | Main Access Road to Works (construct and maintain) | Sum | 1.00 | | |
| 1.4.2 | 8.8.1 | Construct Main Access Road to Completed Reservoir | Sum | 1.00 | | |
| 1.4.3 | PSA 8.8.2 | Dealing with traffic | Sum | 1.00 | | |
| 1.4.4 | PSA 8.8.7 | Contractor to provide "Construction Record" Information | Sum | 1.00 | | |
| TOTAL FOR SECTION 1 CARRIED FORWARD TO SUMMARY | | | | | | |

CONTRACT: MIS 540 115C
CONTRACT TITLE: Mqanduli Secondary Bulk Water Supply Phase 2A: Contract 3
BILL:
SECTION: 2 SABS 1200 C - SITE CLEARANCE (PIPE ROUTE)

BILL OF QUANTITIES

| ITEM | PAYMENT REFERS | DESCRIPTION | UNIT | QUANTITY | RATE R | AMOUNT R |
|---|-------------------|---|------|----------|-----------|-------------|
| 2.1 | 8.2.1 | Clear and grub (i) Pipeline route (5m wide strip) | m | 3 500.00 | | |
| 2.2 | 8.2.2 | Remove and grub large trees and tree stumps of girth a) over 1 m and up to 2 m | No. | 10.00 | | |
| 2.3 | | b) over 2 m and up to 3 m | No. | 10.00 | | |
| 2.4 | 8.2.3 | Remove and grub all trees and tree stumps regardless of girth | ha | 0.17 | | |
| 2.5 | 8.2.4 | Reclear surfaces (only on instructions from Engineer) | m | 100.00 | | |
| 2.6 | PSC 8.2.5 | Take down existing fences | km | 3.50 | | |
| 2.7 | 8.2.6 | Clear hedge or fence or both where not scheduled separately (i) Hedges up to 2m high | m | 300.00 | | |
| 2.8 | | (ii) Reinstate Hedge | m | 300.00 | | |
| TOTAL FOR SECTION 2 CARRIED FORWARD TO SUMMARY | | | | | | |

CONTRACT: MIS 540 115C
CONTRACT TITLE: Mqanduli Secondary Bulk Water Supply Phase 2A: Contract 3
BILL:
SECTION: 3 SABS 1200 D - EARTHWORKS (PIPE ROUTE)

BILL OF QUANTITIES

| ITEM | PAYMENT REFERS | DESCRIPTION | UNIT | QUANTITY | RATE R | AMOUNT R |
|---|-------------------|---|----------------------|-----------------|-----------|-------------|
| 3.1 | PSD 8.3.1.2 | Remove topsoil to nominal depth 150mm (or other stated), stockpile and maintain | m ² | 615 | | |
| | 8.3.3 | Ristricted Excavation: | | | | |
| | 8.3.8 | Existing Services | | | | |
| | 8.3.8.1 | Location | | | | |
| 3.2 | | c) Excavate by hand in soft material to expose water / telkom / electrical service (LI) | m ³ | 69.00 | | |
| | 8.3.10 | Topsoiling | | | | |
| 3.3 | | (i) Pipeline Route | m ² | 17 500.00 | | |
| | 8.3.11 | Grassing or Vegetation Cover | | | | |
| 3.4 | | (i) Pipeline Route, outside of canelands | m ² | 17 500.00 | | |
| 3.5 | PSD 8.3.13 | Erosion Control Berms | m² | 1 500.00 | | |
| 3.6 | PSD 8.3.14 | Sandbag Protection to pipe trench | No. | 69.00 | | |
| 3.7 | PSD 8.3.15 | Extra-over Sandbag Protection for Stabilization | No. | 69.00 | | |
| TOTAL FOR SECTION 3 CARRIED FORWARD TO SUMMARY | | | | | | |

CONTRACT: MIS 540 115C
CONTRACT TITLE: Mqanduli Secondary Bulk Water Supply Phase 2A: Contract 3
BILL:
SECTION: 4 SABS 1200 DB - PIPE TRENCHES

BILL OF QUANTITIES

| ITEM | PAYMENT REFERS | DESCRIPTION | UNIT | QUANTITY | RATE R | AMOUNT R |
|------------------------|------------------------------|--|----------------|-----------|-----------|-------------|
| 4.1 | 8.3.1 PSDB 8.3.1.C | Site Clearance and (if specified) Removal of Topsoil c) Remove Topsoil (i) 150mm | m ² | 17 500.00 | | |
| 4.2 | 8.3.2 | Excavation a) Excavate in all materials for trenches, backfill, compact, and dispose of surplus material For pipes: Up to and including 400mm diam. for total trench depth: | | | | |
| 4.3 | | Over 0 and up to 1m (LI) | m | 10.00 | | |
| 4.4 | | Over 1m and up to 2m | m | 3 500.00 | | |
| 4.5 | | Over 2m and up to 3m | m | 85.00 | | |
| 4.6 | | b) Extra-over item (a) above for: | | | | |
| 4.7 | | 1) Intermediate excavation | m ³ | 1 443.75 | | |
| 4.8 | | 2) Hard rock excavation | m ³ | 1 155.00 | | |
| 4.9 | | 3) Hard rock excavation near residential buildings (Mounted hydraulic breaker where directed by the Engineer) | m ³ | 520.00 | | |
| 4.10 | | c) Excavate and dispose of unsuitable material from trench bottom (provisional) | m ³ | 779.63 | | |
| 4.11 | 8.3.2(b) | Excavate and dispose of unsuitable material from trench bottom within a 1km radius freehaul (Provisional) | m ³ | 779.63 | | |
| 4.12 | 8.3.3 | Excavation Ancillaries | | | | |
| 4.13 | 8.3.3.1 | Make up deficiency in backfill material (provisional) | | | | |
| 4.14 | | a) from other necessary excavations on site | m ³ | 1 559.38 | | |
| 4.15 | | c) by importation from commercial or off site sources selected by the Contractor | m ³ | 311.88 | | |
| 4.16 | PSDB 8.3.3.1 | d) Stabilised backfill (4% cement) | m ³ | 800.00 | | |
| 4.17 | 8.3.3.3 | Compaction in road reserves | m ³ | 315.00 | | |
| 4.18 | 8.3.3.4 | Overhaul | | | | |
| 4.19 | | a) Limited Overhaul (provisional) | m ³ | 1 247.50 | | |
| CARRIED FORWARD | | | | | | |

CONTRACT: MIS 540 115C
CONTRACT TITLE: Mqanduli Secondary Bulk Water Supply Phase 2A: Contract 3
BILL:
SECTION: 4 SABS 1200 DB - PIPE TRENCHES

BILL OF QUANTITIES

| ITEM | PAYMENT REFERS | DESCRIPTION | UNIT | QUANTITY | RATE R | AMOUNT R |
|---|-------------------|---|-------|----------|-----------|-------------|
| 4.16 | 8.3.4 | BROUGHT FORWARD b) Long Overhaul (provisional) | m³.km | 1 871.25 | | |
| | | Particular Items | | | | |
| 4.17 | 8.3.5 | a) Shore trench opposite structure or service (i) Existing houses and toilet structures | m | 960.00 | | |
| | | Existing Services that Intersect or Adjoin a Pipe Trench | | | | |
| 4.18 | 8.3.6 | a) Services that intersect a trench i) Concrete pipe up to 1000 mm dia. | No. | 7.00 | | |
| 4.19 | | ii) Water pipe up to 400 mm dia. | No. | 7.00 | | |
| 4.20 | 8.3.6.1 | iii) Electrical Cables b) Services that adjoin a trench | No. | 7.00 | | |
| | | | | | | |
| 4.21 | 8.3.6.1 | i) Water pipe up to 400 mm dia. | m | 69.00 | | |
| 4.22 | | ii) Telkom Cables | m | 13.80 | | |
| 4.23 | 8.3.6.1 | ii) Electrical Cables | m | 13.80 | | |
| | | Finishing | | | | |
| 4.24 | 8.3.6.1 | Reinstate road surfaces complete with all courses a) Gravel on shoulders and wearing course | m² | 3 000.00 | | |
| TOTAL FOR SECTION 4 CARRIED FORWARD TO SUMMARY | | | | | | |

CONTRACT: MIS 540 115C
 CONTRACT TITLE: Mqanduli Secondary Bulk Water Supply Phase 2A: Contract 3
 BILL:
 SECTION: 5 SABS 1200 L - MEDIUM-PRESSURE PIPELINES

BILL OF QUANTITIES

| ITEM | PAYMENT REFERS | DESCRIPTION | UNIT | QUANTITY | RATE R | AMOUNT R |
|------------------------|-------------------|--|------|----------|-----------|-------------|
| 5.1 | 8.2.1 | Supply, Lay and Bed Pipes Complete with Couplings 300 Diameter Pipes (i) 300NB x 6m Galvanised Roll Grooved TOSAwrap Pipe c/w Victaulic Style 77 Coupling & Denso Joint Protection, 25bars. | m | 3 495.00 | | |
| 5.2 | 8.2.2 | Extra-over 8.2.1 for the Supplying, Laying and Bedding of Specials Complete with Couplings 300 Diameter Pipe Bends (i) 300NB Ø 11¼° Galvanised Grooved Bend c/w galvanized Grooved Coupling & Denso Joint Protection(PN25) | No. | 9.00 | | |
| 5.3 | | (ii) 300NB Ø 22½° Galvanised Grooved Bend c/w galvanized Grooved Coupling & Denso Joint Protection(PN25) | No. | 6.00 | | |
| 5.4 | | (iii) 300NB Ø 90° Galvanised Grooved Bend c/w galvanized Grooved Coupling & Denso Joint Protection(PN25) | No. | 3.00 | | |
| 5.5 | 8.2.3 | Extra-over 8.2.1 for the Supplying, Fixing, and Bedding of Valves Isolating Valve assembly complete as per detail on drawing no. PR 133-PH 2A-CT3-STD 005 i) 300 mm Ø ND, PN20 | No. | 3.00 | | |
| 5.6 | | Scour Valveassembly complete as per detail on drawing no. PR 133-PH 2A-CT3-STD 003 (i) 100 mm Ø ND off 355 mm Ø OD mPVC pipe, PN 25 | No. | 5.00 | | |
| 5.7 | | Air Valve assembly complete as per detail on drawing no. PR 133-PH 2A-CT3-STD 002 (i) 25 mm Ø ND, PN 25 | No. | 1.00 | | |
| 5.8 | | (ii) 50 mm Ø ND, PN 25 | No. | 5.00 | | |
| 5.9 | | (iii) 80 mm Ø ND, PN 25 | No. | 5.00 | | |
| 5.10 | 8.2.11 | Anchor / Thrust Blocks and Pedestals as per drawing no. PR 133-PH 2A-CT3-STD 009 a) Concrete Grade 25MPa / 19mm | m³ | 144.00 | | |
| 5.11 | | b) Formwork | | 432 | | |
| 5.12 | | b) Reinforcement | t | 21.60 | | |
| | 8.2.13 | Valves and Hydrant Chambers etc | | | | |
| CARRIED FORWARD | | | | | | |

CONTRACT: MIS 540 115C
CONTRACT TITLE: Mqanduli Secondary Bulk Water Supply Phase 2A: Contract 3
BILL:
SECTION: 5 SABS 1200 L - MEDIUM-PRESSURE PIPELINES

BILL OF QUANTITIES

| ITEM | PAYMENT REFERS | DESCRIPTION | UNIT | QUANTITY | RATE R | AMOUNT R |
|---|-------------------|---|------|----------|-----------|-------------|
| | | BROUGHT FORWARD | | | | |
| 5.13 | | Isolating Valve Chamber complete as per detail on drawing no. PR 133-PH 2A-CT3-STD 005 | No. | 3.00 | | |
| 5.14 | | Air Valve Chambers complete as per detail on drawing no. PR 133-PH 2A-CT3-STD 002 | No. | 11.00 | | |
| 5.15 | PSL 8.2.16 | Supply and install pipeline markers as per detail on drawing no. PR 133-PH 2A-CT3-STD 010 | No. | 58.00 | | |
| 5.16 | PSL 8.2.17 | Supply and install valve markers as per detail on drawing no. PR 133-PH 2A-CT3-STD 010 | No. | 14.00 | | |
| | | Sundry Items | | | | |
| | | Supply, lay, bed and install concrete pipe sleeves for road crossings, inclusive of all items (viz. skids etc) necessary for pipe support through sleeve as per drawing No... Class 100D, Spigot and Socket type as per drawing no. PR 133-PH 2A-CT3-STD 007 for: | | | | |
| 5.17 | | (i) 600 mm ND Concrete Sleeve for 400 mm ND mPVC pipe | m | 45.00 | | |
| TOTAL FOR SECTION 5 CARRIED FORWARD TO SUMMARY | | | | | | |

CONTRACT: MIS 540 115C
CONTRACT TITLE: Mqanduli Secondary Bulk Water Supply Phase 2A: Contract 3
BILL:
SECTION: 6 SABS 1200 LB - BEDDING: (PIPES)

BILL OF QUANTITIES

| ITEM | PAYMENT REFERS | DESCRIPTION | UNIT | QUANTITY | RATE R | AMOUNT R |
|---|-------------------|--|-------|----------|-----------|-------------|
| | 8.2.1 | Supply only of Bedding from Trench Excavation within 0.5km | | | | |
| 6.1 | | a) Selected granular material | m³ | 125.44 | | |
| 6.2 | | b) Selected fill material | m³ | 55.58 | | |
| | 8.2.2 | Supply only of Bedding by Importation | | | | |
| | 8.2.2.3 | From commercial sources (Provisional) | | | | |
| 6.3 | | a) Selected granular material | m³ | 1 656.45 | | |
| 6.4 | | b) Selected fill material | m³ | 972.84 | | |
| 6.5 | | c) 19mm graded crushed stone | m³ | 6.90 | | |
| 6.6 | 8.2.3 | Concrete Bedding Cradle | m³ | 6.90 | | |
| | 8.2.4 | Encasing of Pipes in Concrete | | | | |
| 6.7 | | (i) Grade 25 MPa / 19 mm concrete | m³ | 10.35 | | |
| 6.8 | 8.2.5 | Overhaul of Material for Bedding Cradle and Selected Fill Blanket | m³.km | 2 070.00 | | |
| TOTAL FOR SECTION 6 CARRIED FORWARD TO SUMMARY | | | | | | |

| ITEM | PAYMENT REFERS | DESCRIPTION | UNIT | QUANTITY | RATE R | AMOUNT R |
|--|----------------|--------------------------------------|----------|----------|---------------|---------------|
| 7.1 | C3.3.2.1 | Scope of mandatory subcontract works | Prov.Sum | 1.00 | 11,651,515.23 | 11,651,515.23 |
| TOTAL FOR SECTION 7 CARRIED FORWARD TO SUMMARY | | | | | | |

CONTRACT: MIS 540 115C
Mqanduli Secondary Bulk Water Supply Phase 2A: Contract 3

BILL OF QUANTITIES

BILL:

| SECTION | DESCRIPTION | AMOUNT R |
|---------|---|-------------|
| 1 | SABS 1200 A - GENERAL | |
| 2 | SABS 1200 C - SITE CLEARANCE (PIPE ROUTE) | |
| 3 | SABS 1200 D - EARTHWORKS (PIPE ROUTE) | |
| 4 | SABS 1200 DB - PIPE TRENCHES | |
| 5 | SABS 1200 L - MEDIUM-PRESSURE PIPELINES | |
| 6 | SABS 1200 LB - BEDDING: (PIPES) | |
| 7 | SUBCONTRACTOR'S SCOPE | |
| | NET TOTAL OF TENDER | |
| | ADD CONTINGENCIES 10.00% OF NET TOTAL | |
| | TENDER AMOUNT | |
| | CONTRACT PRICE ADJUSTMENT PROVISION | 0.00 |
| | ALLOWANCE FOR VAT AT 15.00% | |
| | TOTAL TENDER SUM | |