

**Project Name: Three Rondavels- Water Supply**

| <b>Item</b> | <b>Ref</b>         | <b>Description</b>   | <b>Unit</b> | <b>Quantity</b> | <b>Rate (R)</b> | <b>Amount (R)</b> |
|-------------|--------------------|--|-------------|-----------------|-----------------|-------------------|
| 1           | A1                 | Site establishment including offices, storage, ablutions and fencing | Sum         | 1               |                 |                   |
| 2           | A2                 | Health & Safety compliance (OHS Act & Construction Regulations)      | Sum         | 1               |                 |                   |
|             | A3                 | Community liaison Officer (CLO)                                      | Month       | 4               |                 |                   |
| 3           | A4                 | Environmental management & rehabilitation                            | Sum         | 1               |                 |                   |
| 4           | A5                 | Setting out of works and survey control                              | Sum         | 1               |                 |                   |
| 5           | A6                 | Contractual requirements, insurances and guarantees                  | Sum         | 1               |                 |                   |
|             | Carried to SUMMARY |  |             |                 |                 |                   |

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|-------------|------------|--|----------------|-----------------|--------------------|-------------------|
| 6           | C1         | Clearing and grubbing of pipeline servitude (1m width) | m <sup>2</sup> | 4000            |                    |                   |
| 7           | C2         | Removal and disposal of unsuitable material            | m <sup>3</sup> | 100             |                    |                   |
| 8           | C3         | Protection of existing services                        | Sum            | 1               |                    |                   |
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|------|-------|--|----------------|--------------------|----------|------------|
| 9    |       | <b>SANS 1200DA EARTHWORKS</b>  |                |                    |          |            |
| 10   | 8.3   | SCHEDULED ITEMS  |                |                    |          |            |
| 11   | 8.3.1 | Excavation   |                |                    |          |            |
|      | a)    | Remove topsoil to nominal depth 150mm, stockpile and maintain                      | m <sup>2</sup> | 500                |          |            |
|      | b)    | excavate in all materials and use for embankment or backfill or dispose as ordered | m <sup>3</sup> | 250                |          |            |
|      | c)    | extra-over for   |                |                    |          |            |
|      |       | 1) intermediate excavation   | m <sup>3</sup> | 50                 |          |            |
|      |       | 2) hard rock excavation  | m <sup>3</sup> | 50                 |          |            |
|      |       | 3) boulder excavation, Class A   | m <sup>3</sup> | 25                 |          |            |
|      |       | 4) boulder excavation, Class B   | m <sup>3</sup> | 25                 |          |            |
|      | d)    | Reinstatement of disturbed areas   | m <sup>2</sup> | 4000               |          |            |
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| 12                        | 8.2    | SCHEDULED ITEMS  |                |          |              |              |
| 13                        | 8.2.1  | Supply and Lay Pipes Complete with Couplings, <u>50mm NB Galvanised Steel Pipes.</u>   | m              | 4000     |              |              |
| 14                        | 8.2.3  | Extra-over 8.2.1 for the Supplying, Fixing, and Bedding of Valves etc.   |                |          |              |              |
|                           | a)     | Ø50mm gate valves  | No             | 3        |              |              |
|                           | b)     | Ø50mm non-return/check vavles  | No             | 2        |              |              |
|                           | c)     | Ø50mm water meter  | No             | 1        |              |              |
|                           | d)     | Ø50 x 32 mm reducing sockets   | No             | 2        |              |              |
|                           | e)     | Ø50mm bends  | No             | 30       |              |              |
|                           | f)     | Heavy-duty galvanised steel U-type ground anchors (or rock-fixed saddle clamps) for surface-mounted 50mm NB pipe   | No             | 667      |              |              |
| 15                        | 8.2.11 | Anchors/Thrust blocks and pedestals dimensions stated or given on  |                |          |              |              |
|                           | a)     | drawings/sketches provided by the Project Manager  |                |          |              |              |
|                           | b)     | Where, at the tender stage, no detailed drawings or dimensions are given or where only typical drawings are given:   |                |          |              |              |
|                           |        | Concrete, <u>class 15/19</u>   | m <sup>3</sup> | 2        |              |              |
|                           |        | MECHANICAL AND PLUMBING  |                |          |              |              |
|                           |        | <b>Provide the Provisional Sum of R100 000.00</b> for the supply, installation, testing, and commissioning of a 5.5 kW 3-phase centrifugal pump set and integrated control system as per project specification No. PS5.5 | PS             | 1        | R 100 000.00 | R 100 000.00 |
| 16                        |        | Profit and attendance  | %              | 10%      | R 100 000.00 | R 10 000.00  |
| <b>Carried to SUMMARY</b> |        |  |                |          |              |              |

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|------|-----|---|------|----------|----------|------------|
| 17   |     | Design, construct and install a new 6m high structural steel tank stand including lifting and placement of <b>existing assembled 4.88 x 4.88 x 3.66 steel tank</b> , complete with access provisions including, base plates, holding-down bolts and anchor bolts, ladders (internal and external). Reinforced concrete foundations for tank stand, including excavation, formwork, casting, curing and backfilling. and safety provisions, above ground 50NB steel pipes and all related fixtures | Sum  | 1.00     |          |            |
| 18   |     | Supply, deliver, and install a 10 000 litre vertical ribbed water storage tank, manufactured from food-grade Linear Low-Density Polyethylene (LLDPE). The tank must be UV-stabilised and suitable for South African climatic conditions, featuring a seamless "one-piece" molded construction   | No.  | 2.00     |          |            |
| 19   |     | Supply and installation of a heavy-duty, painted farm gate, overall size 3 600mm x 1 200mm high. The frame shall be manufactured from Ø48mm (nominal) heavy-duty round mild steel tubing, including horizontal stays and vertical tubular bracing as per standard agricultural specifications.  | No.  | 1.00     |          |            |

|                    |   |    |      |             |             |
|--------------------|---|----|------|-------------|-------------|
| 20                 | <p>Supply and delivery of a high-precision Electronic Digital Theodolite kit, complete with all specified accessories. The instrument shall feature a minimum angular accuracy of 5" (five seconds), a dual-axis compensator, and a high-resolution digital LCD display with backlighting. The comprehensive kit shall include the following:</p> <ul style="list-style-type: none"> <li>- Support: 1 x Heavy-duty Aluminium Tripod with telescopic legs and a standard 5/8" universal mounting screw.</li> <li>- Power System: 2 x Battery cases (one attached to the instrument) and a full set of compatible dry-cell batteries (pre-installed).</li> <li>- Maintenance &amp; Calibration: 1 x Set of manufacturer-specified adjustment tools and 1 x Plumb bob for vertical alignment.</li> <li>- Protection &amp; Documentation: 1 x Rugged, high-impact Carrying Case with internal foam padding and 1 x Comprehensive Instruction Manual.</li> <li>- The unit must be delivered with a valid Calibration Certificate (not older than 6 months) from an accredited service provider.</li> </ul> | PS | 1.00 | R 30 000.00 | R 30 000.00 |
| 21                 | Profit and attendance   | %  | 0.10 | R 30 000.00 | R 3 000.00  |
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|-------------|------------|-------------------------------|-------------|-----------------|--------------------|-------------------|
| 22          | LB1        | Pressure testing of pipeline  | Sum         | 1               |                    |                   |
| 23          | LB2        | Disinfection of pipeline      | Sum         | 1               |                    |                   |
| 24          | LB3        | Commissioning and connections | Sum         | 1               |                    |                   |
|             |            |                               |             |                 | Carried to SUMMARY |                   |

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| <b>Item No</b> | <b>Description</b>         | <b>Amount</b> |
|----------------|----------------------------|---------------|
| 1              | SANS 1200 A- General       |               |
|                |                            |               |
| 2              | SANS 1200 C- Clearance     |               |
|                |                            |               |
| 3              | SANS1299 D-Earthworks      |               |
|                |                            |               |
| 4              | SANS1200 L- Pipework       |               |
|                |                            |               |
| 5              | Scheduled Items            |               |
|                |                            |               |
| 6              | SANS1200 LB- Testing       |               |
|                |                            |               |
| 7              | <b>Sub-Total 1</b>         |               |
|                |                            |               |
| 8              | <b>Add 10% contingency</b> |               |
|                |                            |               |
| 9              | <b>Sub-Total 2</b>         |               |
|                |                            |               |
| 10             | <b>VAT @ 15%</b>           |               |
|                |                            |               |
| 11             | <b>Total</b>               |               |