

MATJHABENG

Municipality
Umasipala
P/ O Box 708
Welkom, 9460
South Africa



Mmasepala
Munisipaliteit
Tel : (057)916 4060
Fax : 086 536 0906

E-mail: nokwanda.xamesi@matjhabeng.co.za

To : MUNICIPAL MANAGER

From : EXECUTIVE DIRECTOR INFRASTRUCTURE

Date : 25 JANUARY 2019

SUBMISSION

1. PURPOSE

The purpose of the submission is to assist Vukuphile Learner Contractors who underpriced on their tender documents regarding the connection of water meters, house connections and water network in Thabong Extension 20 (Hani Park).

2. BACKGROUND

The extension of a water network, house connections and 180 water meters in Thabong Extension 20 (Hani Park) project is currently being implemented by the Municipality through MIG funding. This project entails the extension of a water network, house connections and the installation of 180 water meters in Thabong Ext.20. The project was awarded to Kalosi Trading Projects, a vukuphile contractor and is being managed by Epitome Consulting Engineers. A request to assist the learner contractors in revising their rates was received from Epitome Consulting Engineers and is attached for ease of reference.

3. DISCUSSION

After Kalosi Trading Projects was appointed, the Consultant noticed many errors on the priced tender documents. Most crucial items were underpriced thus posing a challenge on the contractor to successfully complete the project. The priced tender documents currently reflect a financial loss for the contractor and presents a challenge to deliver quality service for the community of Thabong Extension 20 (Hani Park). Before construction proceeds any further, it is recommended that the rates are adjusted in order to ensure successful completion of the project and adequate service delivery.

It is therefore proposed that the awarded contract amounts are amended to suit the recommendation made by the consultant. The new contract amount shall be R2 336 967.76 thus additional funding of R394 170.87 is needed.

4. FINANCIAL IMPLICATIONS

| A | SUMMARY OF SECTIONS | APPOINTED AMOUNT | PROPOSED CONTRACT AMOUNT | ADDITIONAL AMOUNT NEEDED |
|---|---|------------------|--------------------------|--------------------------|
| B | Schedule 1: Preliminary and General | R 576 852.20 | R 687 324.00 | R 110 471.80 |
| C | Schedule 2: Hani Park X20 | R 1 189 326.79 | R 1 437 192.14 | R 247 865.36 |
| D | Sub Total | R 1 766 178.99 | R 2 124 516.14 | R 358 337.16 |
| E | Contingencies (10%) | R 176 617.90 | R 212 451.61 | R 35 833.72 |
| F | Total Construction Budget (Vat Inclusive) | R 1 942 796.88 | R 2 336 967.76 | R 394 170.87 |

5. RECOMMENDATIONS

It is hereby recommended as follows:

The additional required amount of **R394 170.87** be approved, therefore increasing the contract amount to **R2 336 967.76**. This adjustment will ensure that the contractor has adequate financial capacity to complete the works.

COMPILED BY:


N.S. BIYELA
PMU TECHNICIAN

25/01/2019

DATE

RECOMMENDED BY:


SHEPHERD VHUNGA
SENIOR PROJECT MANAGER

25/01/2019.

DATE

RECOMMENDED BY:


T. MAKOFANE
ACTING EXECUTIVE DIRECTOR: INFRASTRUCTURE

06/02/2019

DATE

RECOMMENDED BY:


T. PANYANI
CHIEF FINANCIAL OFFICER

07/02/2019

DATE

APPROVED BY:


THABISO TSOAELI
MUNICIPAL MANAGER

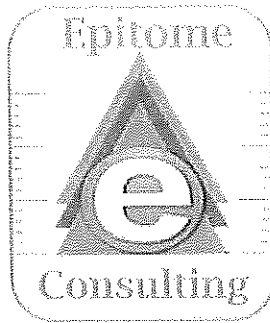
08/02/2019

DATE

3 Rose Avenue
Kempton Park
1630

Tel: +27 11 391 5049
Cell: +27 83 404 2135
Fax: +27 11 391 8136

Reg No: 2009/095570/23
Vat Reg No: 4560260764



Web: <http://www.epitomeconsulting.co.za>
E-mail: info@epitomeconsulting.co.za
or
clement@epitomeconsulting.co.za

Multi-disciplinary civil engineering consultancy and project management organisation providing services in:
Water conservation and Water Demand Management, Water and Sanitation, Roads and Stormwater, Structural Engineering,
Project and Programme Management in the South African Market.

"Making a difference where it really matters!"

Project Manager
Matjhabeng Local Municipality
Cnr. Ryk & Stateway Street, Civic Centre,
Welkom
9460
Tel: (057)-3913911
Fax: (057)-357 4754

Date 25 January 2019

Attention: Mr. Thabiso Tsoaeli

Dear Mr. Tsoaeli,

04/2018 A/B: EXTENSION OF THE WATER NETWORK, HOUSE CONNECTION AND 180 WATER METERS IN THABONG EXTENSION 20(HANI PARK)

The tendered prices of the contractors for the above-mentioned project are lower than the market rates. This may compromise the contractor's quality of the work on site. Since these are learner contractors from Vuk'uphile and it is important that they be assisted.

We, therefore, present our proposal on how the contractors can be assisted to complete the project and deliver services to the community and assist towards saving water for the municipality.

Yours faithfully,

Clement Mokoene
for Epitome Consulting
"Making a difference where it really matters"

Members:

RC Mokoene, BSc(Eng)(Civil)(Wits), GDE(Civil)(Wits), NQF7
JM Mokoene, MBL (UNISA), PDM (GIBS), ADL (RAU), BA(Psych)(WITS)

EXTENSION OF WATER NETWORK, HOUSE CONNECTIONS AND METERS (180 STANDS) HANI PARK
CONTRACT NO.:04/2018 A- KALOSI TRADING PROJECTS

| CONTRACT B | | | Tendered Rates | | | | New Tender Rates | | Difference in Rates | |
|-----------------------|-----------------|--|----------------|-----|-----------|-------------|------------------|-------------|---------------------|-------------|
| Item | Payment | Description | Unit | Qty | Rate | Amount | Rate | Amount | Rate | Amount |
| | | PRELIMINARY AND GENERAL | | | | | | | | |
| 1.10 | SABS 1200 A 8.3 | SECTION : PRELIMINARY AND GENERAL FIXED-CHARGE ITEMS | | | | | | | | |
| 1.1.1 | 8.3.1 | Contractual Requirements | Sum | 1 | 10 000.00 | 10 000.00 | 24 000.00 | 24 000.00 | 14 000.00 | R 14 000.00 |
| 1.1.2 | 8.3.2 | Establish Facilities on the Site: | | | | | | | | |
| | PSA 8.3.2.1 | a) Facilities for Engineer | Sum | 1 | 60 000.00 | 60 000.00 | 60 000.00 | 60 000.00 | | R - |
| | | b) Facilities for Contractor | | | | | | | | |
| 1.1.2.1 | | Offices and storage sheds | Sum | 1 | 7 000.00 | 7 000.00 | 10 000.00 | 10 000.00 | 3 000.00 | R 3 000.00 |
| 1.1.2.2 | | Ablution and latrine facilities | Sum | 1 | 4 000.00 | 4 000.00 | 10 000.00 | 10 000.00 | 6 000.00 | R 6 000.00 |
| 1.1.2.3 | | Tools and equipment | Sum | 1 | 9 000.00 | Rate Only | 9 000.00 | Rate Only | | Rate Only |
| 1.1.2.4 | | Water supplies, electric power and communications | Sum | 1 | 2 000.00 | R 2 000.00 | 10 000.00 | R 10 000.00 | 8 000.00 | R 8 000.00 |
| 1.1.2.5 | | Dealing with water (Subclause 5.5) | Sum | 1 | 1 000.00 | R 1 000.00 | 10 000.00 | R 10 000.00 | 9 000.00 | R 9 000.00 |
| 1.1.3 | 8.3.3 | Other fixed-charge obligations | Sum | 1 | 15 000.00 | Rate Only | 15 000.00 | Rate Only | | Rate Only |
| 1.20 | 8.4 | TIME-RELATED ITEMS | | | | | | | | |
| 1.2.1 | 8.4.1 | Contractual Requirements | Mnth | 6 | 10 000.00 | 60 000.00 | 10 000.00 | 60 000.00 | | |
| 1.2.2 | 8.4.2 | Operate and maintain facilities on the Site: | | | | | | | | |
| | PSA 8.4.2.1 | a) Facilities for Engineer | Mnt | 6 | 10 000.00 | R 60 000.00 | 10 000.00 | R 60 000.00 | | R - |
| | 8.4.2.2 | b) Facilities for Contractor for duration of construction, except where otherwise stated | | | | | | | | |
| 1.2.2.1 | 8.4.2.2.1 | Offices and storage sheds | Mnth | 6 | 7 000.00 | R 42 000.00 | 7 000.00 | R 42 000.00 | | R - |
| 1.2.2.2 | 8.4.2.2.2 | Ablution and latrine facilities | Mnth | 6 | 4 000.00 | R 24 000.00 | 4 000.00 | R 24 000.00 | | R - |
| 1.2.2.3 | 8.4.2.2.3 | Tools and equipment | Mnth | 6 | 9 000.00 | R 54 000.00 | 9 000.00 | R 54 000.00 | | R - |
| 1.2.2.4 | 8.4.2.2.4 | Water supplies, electric power and | Mnth | 6 | 1 000.00 | R 6 000.00 | 1 000.00 | R 6 000.00 | | R - |
| 1.2.2.5 | 8.4.2.2.5 | Dealing with water (Subclause 5.5) | Mnth | 6 | 1 000.00 | Rate Only | 1 000.00 | Rate Only | | Rate Only |
| 1.2.2.6 | 8.4.2.2.6 | Access (Subclause 5.8) | Mnth | 6 | 1 500.00 | Rate Only | 1 500.00 | Rate Only | | Rate Only |
| 1.2.3 | 8.4.3 | Supervision | Mnth | 6 | 10 000.00 | Rate Only | 10 000.00 | Rate Only | | Rate Only |
| 1.2.4 | 8.4.4 | Company and head office overhead costs | Mnth | 6 | 6 000.00 | R 30 000.00 | 5 000.00 | R 30 000.00 | | R - |
| TOTAL CARRIED FORWARD | | | | | | 360 000.00 | | 400 000.00 | | 40 000.00 |

EXTENSION OF WATER NETWORK, HOUSE CONNECTIONS AND METERS (180 STANDS) HANI PARK
CONTRACT NO.:04/2018 A- KALOSI TRADING PROJECTS

| Item | Payment | Description | Unit | Qty | Rate | Amount | Rate | Amount | Rate | Amount |
|------------------------------|---------|---|----------|-----|-----------|-------------------|-----------|-------------------|----------|---------------------|
| TOTAL BROUGHT FORWARD | | | | | | 360 000.00 | | 400 000.00 | | 40 000.00 |
| 1.2.5 | 8.4.5 | Other time-related obligations | Mnth | 6 | 5 000.00 | Rate Only | 5 000.00 | Rate Only | | Rate Only |
| 1.2.6 | 8.4.6 | Payment for a Community Liaison Officers | Mnth | 6 | 5 000.00 | 30 000.00 | 5 000.00 | 30 000.00 | - | R |
| 1.2.7 | | Nameboard | Sum | 1 | 7 500.00 | 7 500.00 | 7 500.00 | 7 500.00 | - | R |
| 1.2.8 | 8.4.7 | Compliance with the Occupational Health and Safety Requirements for the duration of the contract | Sum | 1 | 15 000.00 | 15 000.00 | 18 000.00 | 18 000.00 | 3 000.00 | R 3 000.00 |
| | 8.5 | Provesional Sums stated by the Engineer | | | | | | | | |
| | | Scheduled fixed-charge and value-related Items: | | | | | | | | |
| 1.2.9 | 8.3.1 | Fixed preliminary and general charges | Sum | 1 | 10 000.00 | 10 000.00 | 10 000.00 | 10 000.00 | - | R |
| 1.3.0 | 8.3.2 | Value-related preliminary and general charges | Sum | 1 | 10 000.00 | 10 000.00 | 10 000.00 | 10 000.00 | - | R |
| | | Scheduled time-related Items: | | | | | | | | |
| 1.3.1 | 8.4.1 | Time-related preliminary and general charges | Sum | 1 | 20 000.00 | 20 000.00 | 20 000.00 | 20 000.00 | - | R |
| | | I) Training allowance paid to targeted labour in terms of formal training | Prov Sum | 1 | 20 000.00 | 20 000.00 | 20 000.00 | 20 000.00 | - | R |
| | D 2.3.2 | II) Extra-over for the administration of payment of training allowances to targeted labour (max. 10%) | % | 10% | 20 000.00 | 20.00 | 20 000.00 | 20.00 | - | R |
| | 8.6 | Prime cost sums: | | | | | | | | |
| 1.3.2 | | Additional tests required by the engineer | PC Sum | 1 | 20 000.00 | 20 000.00 | 20 000.00 | 20 000.00 | - | R |
| 1.3.3 | | Charge required by contractor on subitem PC Sum above | % | 0 | 20 000.00 | 20.00 | 20 000.00 | 20.00 | - | R |
| | 8.8.4 | Location and protection of existing services: | | | | | | | | |
| | | Provision of detecting devices for: | | | | | | | | |
| 1.3.4 | | Water and sewer pipes | Sum | 1 | 10 000.00 | 10 000.00 | 10 000.00 | 10 000.00 | - | R |
| 1.3.5 | | Electrical and other cables | Sum | 1 | 10 000.00 | 10 000.00 | 10 000.00 | 10 000.00 | - | R |
| | | Hand excavation necessary for locating and exposing existing services in all materials: | | | | | | | | |
| 1.3.6 | | In roadways | m³ | 87 | 70.00 | 6 106.10 | 400.00 | 34 892.00 | 330.00 | R 28 785.90 |
| 1.3.7 | | In all other areas | m³ | 117 | 70.00 | 8 206.10 | 400.00 | 46 892.00 | 330.00 | R 38 685.90 |
| TOTAL CARRIED FORWARD | | | | | | 526 852.20 | | 637 324.00 | | R 110 471.80 |

EXTENSION OF WATER NETWORK, HOUSE CONNECTIONS AND METERS (180 STANDS) HANI PARK
CONTRACT NO.:04/2018 A- KALOSI TRADING PROJECTS

| Item | Payment | Description | Unit | Qty | Rate | Amount | Rate | Amount | Rate | Amount |
|---|---------|---|------|-----|----------|---------------------|----------|---------------------|------|---------------------|
| TOTAL BROUGHT FORWARD | | | | | | 526 852.20 | | 637 324.00 | | R 110 471.80 |
| 1.3.9 | 8.9 | Compensation in terms of subsubclause 57(4)(b)(ii) for delays due to the circumstances described in subclauses 57(1) and (2) of the general conditions of contract as amended | day | 10 | 5 000.00 | 50 000.00 | 5 000.00 | 50 000.00 | - | R . |
| TOTAL CARRIED FORWARD TO SUMMARY | | | | | | R 576 852.20 | | R 687 324.00 | | R 110 471.80 |

**EXTENSION OF WATER NETWORK, HOUSE CONNECTIONS AND METERS (180 STANDS) HANI PARK
CONTRACT NO.:04/2018 A- KALOSI TRADING PROJECTS**

| Item | Payment | Description | Unit | Qty | Rate | Amount | Rate | Amount | Rate | Amount |
|------------------------------|---------------|--|------|------|-----------|-------------------|-----------|-------------------|-----------|--------------------|
| 2.10 | SABS 1200 C | SITE CLEARANCE | | | | | | | | |
| | 8.2.1 | Clear and grub | ha | 0.2 | 17 500.00 | 3 500.00 | 50 000.00 | 10 000.00 | 32 500.00 | 6 500.00 |
| 3.10 | SABS 1200 DB | EARTHWORKS (PIPE TRENCHES) | | | | | | | | |
| | 8.3.1 | Site Clearance | | | | | | | | |
| | 8.3.2 | Excavation | | | | | | | | |
| | | (i) For trenches up to 1.5 m in depth, using labour intensive construction methods | | | | | | | | |
| | | Over and up to | | | | | | | | |
| 3.1.1 | | 0 m 1.5 m | m³ | 1395 | 65.00 | 90 675.00 | 90.00 | 125 550.00 | 25.00 | 34 875.00 |
| | | (ii) For trenches over 1.5m in depth, using conventional construction methods | | | | | | | | |
| | | Over and up to | | | | | | | | |
| 3.1.2 | | 0m 2.0 m | m³ | 0 | 95.00 | | 95.00 | | | |
| | | (b) Extra-over item (a), above, for: | | | | | | | | |
| 3.1.3 | | i) Intermediate excavation | m³ | 209 | 350.00 | 73 150.00 | 200.00 | 41 800.00 | (150.00) | (31 350.00) |
| 3.1.4 | | ii) Hard rock excavation | m³ | 140 | 650.00 | 77 000.00 | 350.00 | 49 000.00 | (200.00) | (28 000.00) |
| | 8.3.3 | Excavation Ancillaries | | | | | | | | |
| | 8.3.3.1 | Make up deficiency in backfill material (provisional): | | | | | | | | |
| 3.1.5 | | (a) from other necessary excavations on site | m³ | 150 | 200.00 | 30 000.00 | 200.00 | 30 000.00 | | |
| 3.1.6 | | (b) by importation from commercial or off-site sources selected by the contractor | m³ | 250 | 650.00 | 162 500.00 | 650.00 | 162 500.00 | | |
| 3.2.0 | 8.3.3.3 | Compaction in road reserves | m³ | 628 | 120.00 | 75 360.00 | 90.00 | 56 520.00 | (30.00) | (18 840.00) |
| | PSDB 8.3.5(a) | Services that intersect a trench | | | | | | | | |
| 3.2.1 | | a) Water house connections. | No | 2 | 1 090.00 | 2 180.00 | 1 090.00 | 2 180.00 | | |
| 3.2.2 | | b) Water pipes up to 300mm Dia. | No | 2 | 547.49 | 1 094.98 | 547.49 | 1 094.98 | | |
| TOTAL CARRIED FORWARD | | | | | | 515 459.98 | | 478 644.98 | | (36 815.00) |

EXTENSION OF WATER NETWORK, HOUSE CONNECTIONS AND METERS (180 STANDS) HANI PARK
CONTRACT NO.:04/2018 A- KALOSI TRADING PROJECTS

| Item | Payment | Description | Unit | Qty | Rate | Amount | Rate | Amount | Rate | Amount |
|------------------------------|--------------------|--|----------------|-----|-----------|-------------------|-----------|-------------------|-----------------|--------------------|
| TOTAL BROUGHT FORWARD | | | | | | 515 459.98 | | 478 644.98 | | (36 815.00) |
| 3.2.3 | | c) Stormwater pipes up to 1050mm Dia. | No | 2 | 1 320.00 | 2 640.00 | 1 320.00 | 2 640.00 | - | - |
| 3.2.4 | | d) Sewer house connections. | No | 2 | 1 812.50 | 3 625.00 | 1 812.50 | 3 625.00 | - | - |
| 3.2.5 | | e) Sewer pipes up to 300mm Dia. | No | 2 | 1 500.00 | 3 000.00 | 1 500.00 | 3 000.00 | - | - |
| 3.2.6 | | f) Cables. | No | 5 | 440.00 | 2 200.00 | 440.00 | 2 200.00 | - | - |
| 3.2.7 | | g) Kerbs and channels. | No | 1 | 360.00 | 360.00 | 2 340.00 | 2 340.00 | 1 980.00 | 1 980.00 |
| | PSDB 8.3.5(b) | Services that adjoin a trench | | | | - | | - | - | - |
| 3.2.8 | | a) Cables. | m | 5 | 440.00 | 2 200.00 | 440.00 | 2 200.00 | - | - |
| | PSDB 8.3.5(c) | Services that require special care | No | 5 | 1 650.00 | 8 250.00 | 1 800.00 | 9 000.00 | 150.00 | 750.00 |
| | PSDB 8.3.5(d) | Trees in construction path | No | 1 | 10 000.00 | 10 000.00 | 10 000.00 | 10 000.00 | - | - |
| | PSDB 8.3.6.1(a) | Re-instate unreinforced concrete, complete | m ² | 5 | 685.00 | 3 425.00 | 685.00 | 3 425.00 | - | - |
| | PSDB 8.3.6.1(b) | Re-instate grass sods, complete | m ² | 5 | 232.39 | 1 161.95 | 232.39 | 1 161.95 | - | - |
| 3.3.0 | SANS 1200DA 8.3.10 | Top soiling including trimming, filling, topsoiling and levelling of verges, removal of debris, rocks, etc. using stockpiled material. | m ² | 5 | 1 470.43 | 7 352.15 | 1 470.43 | 7 352.15 | - | - |
| 4.1.0 | SABS 1200 LB | BEDDING (PIPES) | | | | - | | - | - | - |
| | 8.2.1 | Provision of bedding from trench excavation | | | | - | | - | - | - |
| 4.1.1 | | (a) Selected granular material for bedding | m ³ | 363 | 128.00 | 45 738.00 | 120.00 | 43 560.00 | (6.00) | (2 178.00) |
| 4.1.2 | | (b) Selected fill material | m ³ | 254 | 112.00 | 28 448.00 | 80.00 | 22 860.00 | (22.00) | (5 588.00) |
| | 8.2.2.1 | From other necessary excavation (Provisional) | | | | - | | - | - | - |
| 4.1.3 | | (a) Selected granular material for bedding | m ³ | 181 | 335.70 | 60 761.70 | 120.00 | 21 720.00 | (215.70) | (39 041.70) |
| 4.1.4 | | (b) Selected fill material | m ³ | 127 | 38.00 | 4 872.00 | 78.00 | 9 906.00 | 42.00 | 5 334.00 |
| | 8.2.2.3 | From commercial sources (Provisional) | | | | - | | - | - | - |
| TOTAL CARRIED FORWARD | | | | | | 699 193.78 | | 623 635.08 | | (75 558.70) |

EXTENSION OF WATER NETWORK, HOUSE CONNECTIONS AND METERS (180 STANDS) HANI PARK
CONTRACT NO.:04/2018 A- KALOSI TRADING PROJECTS

| Item | Payment | Description | Unit | Qty | Rate | Amount | Rate | Amount | Rate | Amount |
|------------------------------|-------------|---|----------------|-----|----------|--------------|----------|--------------|--------|-------------|
| TOTAL BROUGHT FORWARD | | | | | | 699 193.78 | | 623 635.08 | | (75 558.70) |
| 4.1.5 | SABS 1200 L | (a) Selected granular material | m ³ | 91 | 1 067.74 | 96 630.47 | 1 067.74 | 96 630.47 | - | - |
| 4.1.6 | | (b) Selected fill material | m ³ | 64 | 1 170.27 | 74 312.15 | 1 170.27 | 74 312.15 | - | - |
| 5.10 | | MEDIUM PRESSURE PIPELINES | | | | - | | - | - | - |
| | | Supply, lay and bed (Class B) complete with couplings including short lengths for pipes of the following materials and diameters | | | | - | | - | - | - |
| | | uPVC pipes (Class 12) | | | | - | | - | - | - |
| 5.1.1 | | a) 32mm diameter | m | 525 | 22.00 | 11 550.00 | 100.00 | 52 500.00 | 78.00 | 40 950.00 |
| 5.1.2 | | b) 63mm diameter | m | 129 | 60.00 | 7 740.00 | 150.00 | 19 350.00 | 90.00 | 11 610.00 |
| 5.1.3 | | c) 75mm diameter | m | 199 | 90.00 | 17 910.00 | 175.00 | 34 825.00 | 85.00 | 16 915.00 |
| 5.1.4 | | d) 90mm diameter | m | 333 | 135.00 | 44 955.00 | 250.00 | 83 250.00 | 115.00 | 38 295.00 |
| 5.1.5 | | e) 110mm diameter | m | 15 | 160.00 | 2 400.00 | 300.00 | 4 500.00 | 140.00 | 2 100.00 |
| 5.1.6 | | f) 160mm diameter | m | 638 | 310.00 | 197 780.00 | 388.32 | 247 748.75 | 78.32 | 49 968.75 |
| | 8.2.2 | Extra over Item 8.3.1 for the supplying, laying and bedding of specials complete with couplings (Fittings of PVC pipes, Cast Iron or Aluminium) | | | | - | | - | - | - |
| 5.2.0 | | Bends | | | | - | | - | - | - |
| | | 22.5 degree bends | | | | - | | - | - | - |
| 5.2.1 | | a) 63mm | No | 3 | 289.65 | 868.95 | 741.60 | 2 224.80 | 451.95 | 1 355.85 |
| 5.2.2 | | b) 90mm | No | 1 | 312.00 | 312.00 | 753.76 | 753.76 | 441.76 | 441.76 |
| 5.2.3 | | c) 160mm | No | 2 | 328.70 | 657.40 | 987.35 | 1 974.69 | 658.65 | 1 317.29 |
| | | 45 degree bends | | | | - | | - | - | - |
| 5.2.4 | | a) 110mm | No | 0 | - | - | 789.76 | - | 789.76 | - |
| 5.2.5 | | b) 160mm | No | 0 | - | - | - | - | - | - |
| | | 90 degree bends | | | | - | | - | - | - |
| 5.2.6 | | a) 63mm | No | 2 | 362.74 | 725.48 | 855.06 | 1 710.12 | 492.32 | 984.64 |
| 5.2.7 | | b) 90mm | No | 1 | 379.12 | 379.12 | 855.06 | 855.06 | 475.94 | 475.94 |
| 5.2.8 | | c) 160mm | No | 1 | 394.99 | 394.99 | 1 268.77 | 1 268.77 | 873.78 | 873.78 |
| 5.3.0 | | Saddles and uPVC pipes tees | | | | - | | - | - | - |
| 5.3.1 | | a) 75 x 32 reducing tee | No | 10 | 23.65 | 236.50 | 114 | 1 140.00 | 90.35 | 903.50 |
| TOTAL CARRIED FORWARD | | | | | | 1 156 045.84 | | 1 246 678.64 | | 90 632.81 |

EXTENSION OF WATER NETWORK, HOUSE CONNECTIONS AND METERS (180 STANDS) HANI PARK
CONTRACT NO.:04/2018 A- KALOSI TRADING PROJECTS

| Item | Payment | Description | Unit | Qty | Rate | Amount | Rate | Amount | Rate | Amount |
|---|---------|--|------|-----|----------|---------------------|------|---------------------|----------|-------------------|
| TOTAL BROUGHT FORWARD | | | | | | 1 156 045.04 | | 1 246 678.64 | | 90 632.01 |
| 5.3.2 | | b) 62 x 32 reducing tee | No | 3 | 19.27 | 57.81 | 300 | 900.00 | 280.73 | 842.19 |
| 5.3.3 | | c) 90 x 32mm reducing saddles | No | 18 | 7.29 | 131.22 | 342 | 6 156.00 | 334.71 | 6 024.78 |
| 5.3.4 | | d) 90 x 75mm reducing tee | No | 2 | 32.15 | 64.30 | 372 | 744.00 | 339.85 | 679.70 |
| 5.3.5 | | e) 160 x 32mm reducing saddle | No | 2 | 124.31 | 248.62 | 1000 | 2 000.00 | 875.69 | 1 751.38 |
| 5.3.6 | | f) 160 x 75mm reducing tee | No | 4 | 176.25 | 705.00 | 1000 | 4 000.00 | 823.75 | 3 295.00 |
| 5.3.7 | | g) 160mm equal tee | No | 2 | 461.70 | 923.40 | 646 | 1 292.40 | 184.50 | 369.00 |
| 5.3.8 | | h) 160 x 110mm reducing tee | No | 2 | 301.00 | 602.00 | 1260 | 2 520.00 | 959.00 | 1 918.00 |
| 5.40 | | Reducers | | | | - | | - | - | - |
| | | Flanged Adaptor CI for use with uPVC pipes | | | | - | | - | - | - |
| 5.4.1 | | a) 32 x 25mm | No | 90 | 14.00 | 1 260.00 | 102 | 9 180.00 | 88.00 | 7 920.00 |
| 5.4.2 | | b) 160 x 110mm | No | 1 | 1 191.10 | 1 191.10 | 1191 | 1 191.10 | - | - |
| 5.5.0 | | VALVES | | | | - | | - | - | - |
| | 8.2.3 | Extra-over on item 8.2.1 for the supplying, handle, lay, bed of valves with couplings in valve box. Complete with cutting of pipes and valve testing. CI gate to SANS 0664, Class 10, ends socketted for uPVC pipes to SANS 0996, non-rising spindle, LH closing | | | | - | | - | - | - |
| 5.5.1 | | a) 110mm | No | 4 | 301.00 | 1 204.00 | 3140 | 12 560.00 | 2 839.00 | 11 356.00 |
| | | Anchor/thrust blocks and pedestals: | | | | - | | - | - | - |
| | | Concrete: | | | | - | | - | - | - |
| 5.5.3 | | Class . (15) . . MPa/19 mm | m³ | 25 | 27.82 | 695.50 | 1650 | 41 250.00 | 1 622.18 | 40 554.50 |
| 5.6.0 | | CHAMBERS | | | | - | | - | - | - |
| 5.6.1 | | Valves and hydrant chambers complete with step irons, cover and frames as per applicable drawing up to 1.5m depth. | No | 2 | 2 974.00 | 5 948.00 | 3060 | 6 120.00 | 86.00 | 172.00 |
| 5.6.2 | PSLB-6 | yard connection complete with apron and soak away and plastic taps (refer to drawing NO 60113-W-DT-07 Rev 0) | No | 90 | 225.00 | 20 250.00 | 1140 | 102 600.00 | 915.00 | 82 350.00 |
| TOTAL CARRIED FORWARD TO SUMMARY | | | | | | 1 189 326.79 | | 1 437 192.14 | | 247 865.36 |

**EXTENSION OF WATER NETWORK, HOUSE CONNECTIONS AND METERS (180 STANDS) HANI PARK
CONTRACT NO.:04/2018 A- KALOSI TRADING PROJECTS**

| SUMMARY | TENDERED AMOUNT | New tender rates | Difference in tendered amount |
|--|------------------------|-------------------------|--------------------------------------|
| Schedule 1: PRELIMINARY AND GENERAL | 576 852.20 | 687 324.00 | 110 471.80 |
| Schedule 2: HANI PARK X20 | 1 189 326.79 | 1 437 192.14 | 247 865.36 |
| SUB-TOTAL 1 | 1 766 178.99 | 2 124 516.14 | 358 337.16 |
| CONTINGENCIES (10%) | 176 617.90 | 212 451.61 | 35 833.72 |
| TOTAL CONSTRUCTION BUDGET | 1 942 796.88 | 2 336 967.76 | 394 170.97 |