



**agriculture
& rural development**

Department:
agriculture
& rural development
PROVINCE OF KWAZULU-NATAL

**KWAZULU-NATAL DEPARTMENT OF AGRICULTURE AND RURAL
DEVELOPMENT**

Quotation No: R/S/2021/450

DRILLING AND EQUIPPING OF BOREHOLE IN DUNDEE RESEARCH STATION.

NAME OF BIDDER: _____

**NO COMPULSORY SITE BRIEFING REQUIRED BUT SUPPLIERS ARE
ENCOURAGED TO VISIT THE SITE AT THEIR OWN LEISURE TO ASSESS
DISTANCE AND ROAD CONDITIONS**

1. PRE-QUALIFICATION CRITERIA

REQUIREMENT-CIDB Grading: 1CE/PE or above

Evaluation will be in terms of the 80/20 preference point system

For more information, please contact the following official:

**For: Technical Enquiries:
Sihle Gumede
082 892 0731**

**For: Quotation/SCM enquiries:
Ms Nokuphiwa Khoza
033 343 8359**

CLOSING DATE: 16 SEPTEMBER 2020

TIME: 11:00 AM



agriculture & rural development

Department:
agriculture
& rural development
PROVINCE OF KWAZULU-NATAL

INVITATION OF QUOTATION ABOVE R30,000.00

THIS FORM SHOULD BE COMPLETED IN DETAIL AND SHOULD BE ACCOMPANIED BY A **VALID TAX COMPLIANCE STATUS PIN AND VALID BBBEE VERIFICATION CERTIFICATE/AFFIDAVIT**

| | |
|--|---|
| QUOTATION NUMBER: R/S/2021/450 | VALIDITY PERIOD OF QUOTATION..... Days (To be completed by the Supplier) |
| CLOSING DATE: 16/09/2020 | CLOSING TIME: 11:00 |
| DESCRIPTION(SPECIFICATION/S) OF ITEMS/ SERVICE REQUIRED: DRILLING AND EQUIPPING OF BOREHOLE IN DUNDEE RESEARCH STATION. . SEE SPEC ATTACHED. | COMPANY NAME: TEL NO: FAX NO: CONTACT PERSON: CSD REG NUMBER MAAA..... |
| DOES OFFER COMPLY WITH SPECIFICATION? | YES/NO (DELETE WHICH EVER IS NOT APPLICABLE) |
| DOES ARTICLE COMPLY WITH SABS SPECIFICATION? HAS IT BEEN INSPECTED BY SABS? | YES/NO YES/NO (DELETE WHICH EVER IS NOT APPLICABLE) |
| DELIVERY PERIOD AFTER INITIAL ORDER? | |
| IS THE PRICE FIRM | |
| WHERE ARE THE STOCK HELD? (PHYSICAL ADDRESS , PLEASE) | |
| QUOTATION PRICE INCLUDING VAT (VAT TO BE ADDED BY REGISTERED VAT VENDORS ONLY) | TOTAL: R |
| COMPANY OFFICIAL STAMP (COMPULSORY) | SIGNATURE OF BIDDER DATE |
| NUMBER OF PAGES DELIVERED BACK TO THE DEPARTMENT BY THE SUPPLIER |(Supplier to complete) |

N.B DOCUMENTS MUST BE DEPOSITED IN THE BID BOX AT SCM- DEPARTMENT OF AGRICULTURE 4 PIN OAK AVENUE HILTON QUARRY BOX. NO FAXED QUOTATIONS WILL BE ACCEPTED

ATTENTION OF: **NOKUPHIWA KHOZA**

TEL: **033 343 8359**

NB: THE ATTACHED SBD FORMS MUST BE COMPLETED IN FULL.
THIS QUOTATION COVER PAGE MUST BE COMPLETED AND RETURNED WITH ALL YOUR QUOTATION DOCUMENTS.

ANNEXURE A

COMPANY NAME : _____
 CONTACT PERSON : _____
 CONTACT NUMBER : _____
 FAX NUMBER : _____

| LINE NO. | DESCRIPTION OR SPECIFICATION OF ITEM (Please be very specific and clear) | REQUIRED QUANTITY | UNIT PRICE EXCL. VAT | | TOTAL PRICE | |
|--|--|-------------------|----------------------|---|-------------|---|
| | | | R | C | R | C |
| 1. | Drilling and equipping of Borehole in Dundee NB: Please refer to the attached specification | 1 | | | | |
| | | | | | | |
| | | | | | | |
| * LABOUR (IF APPLICABLE) | | | | | | |
| *DELIVERY (IF APPLICABLE) | | | | | | |
| TOTAL | | | | | | |
| *ONLY APPLICABLE TO VAT REGISTERED SUPPLIERS 15% VAT | | | | | | |
| TOTAL PRICE | | | | | | |

*VAT Registration No. (Supplier) -----

When Required (Requester) : 30 July 2020

Where Required (Requester): Dundee Research Station, Dundee

Contact details of requester: **Sihle Gumede**

TEL : 082 892 0731 / 033 343 8031

Mark one Box (X)

| | | |
|----|----|----|
| 30 | 60 | 90 |
|----|----|----|

COMPANY STAMP
DAYS

PRICES ARE VALID FOR



.....
.....

SIGNATURE

DATE



agriculture
& rural development

Department:
agriculture
& rural development
PROVINCE OF KWAZULU-NATAL

SITING, DRILLING, TESTING, EQUIPPING OF BOREHOLES – GENERATOR POWERED OR SOLAR

March 2020

DISTRICT

Umzinyathi

NAME OF BOREHOLE

Dundee Research

CO - ORDINATES

28°08'18" S

30°18'52" E

This document contains:

| No. | Section | Pages |
|-----|--------------------------------------|-------|
| 1 | A - Project Particulars | 2 |
| 2 | B – General Conditions of Contract | 3-6 |
| 3 | C - Project Technical Specifications | 7-10 |
| 4 | Bill of Quantities | 11 |
| 5 | ANNEXURE A: Work Phase Schedule | |
| 6 | ANNEXURE B : Additional Information | |

A - PROJECT PARTICULARS

1) PROJECT DESCRIPTION / BACKGROUND

The project covers the siting, drilling and equipping of ...1... Borehole

2) LOCATION

| # | NAME OF PROJECT | DISTRICT | PROJECT DISTANCE (Km's) FROM NEAREST TOWN | NAME OF NEAREST TOWN | PROJECT CO_ORDINATES (if available) |
|---|-----------------|------------|---|----------------------|-------------------------------------|
| 1 | Dundee Research | uMzinyathi | 15 | Dundee | 28°08'18" S & 30°18'52" |

For exact location see attached map(s) or directions to be provided at site briefing.

3) GENERAL SCOPE OF WORKS

The contract covers the supply of all professional services, drilling, testing and equipping of borehole. The following scope of works for the drilling and equipping of **boreholes** is applicable with the expected deliverables and must be in accordance with "MINIMUM STANDARDS AND GUIDELINES FOR GROUNDWATER RESOURCE DEVELOPMENT FOR THE COMMUNITY WATER SUPPLY AND SANITATION PROGRAMME, DWAF, 1997": Details of these works are specified in *Section C: Project Technical Specifications*.

- **Desktop Assessment:** The co-ordinates of the boreholes must be plotted on GIS map coverage and assessed for the probability of ground water. Geology, hydrogeology and existing borehole information needs to be presented.
- **Geophysical Assessment:** The physical site must be surveyed with a Magnetometer and other survey equipment to determine the apparent conductivity of the subsurface. The geophysical data must provide a clear indication of groundwater potential. For production borehole siting, an alternate target must be provided.
- **Drilling:** The appropriate drilling must be done according to the ground conditions and to the appropriate depth based on the geophysical method employed and the geology intercepted during the drilling. The Drilling method must be suited to the geological environment i.e. Air Percussion, Mud Rotary Percussion, Symetrix, Odex
- **Yield Testing and Determination of Sustainable Yield:** Boreholes yielding > 0.3 L/s must be subjected to a SDT (4 steps of 1 hr duration and maximum of 4 hours recovery or 95% recovered) and a CDT (24 hr constant test and maximum of 24 hr recovery or 95% recovered). The determination of the sustainable yield must be calculated with scientific methods that are proven in industry.
- **Sampling and water quality analysis:** It will be acceptable to collect a water sample during the CDT discharge test when the borehole is adequately purged, with sample bottles supplied by an accredited laboratory. The water sample will be analysed for SANS 241 (2015) Drinking Water Standards (Abbreviated Analysis), which includes bacteriological analysis. This means that water samples will need to be received by the laboratory within 24 hrs of collection.

- ◆ **Equipping** - The borehole is to be equipped with a quality SABS approved pump carrying a minimum of a 12 month quality guarantee. The pump specifications will be guided by the sustainable yield, hydraulic head conditions and the water requirements at the site.
- **Reporting** - All technical information and results obtained and derived during the course of the investigation needs to be compiled into a comprehensive scientific report.
- **Strength of concrete** - 20MPa for the tank stand footings, concrete bases.
- **Tank Stand** - Galvanised 3m tank stand to carry a 5000L JoJo Water Tank.
- **Water supply** - Tap stand with stand encased in concrete and pvc piping, secured to concrete block 1.2m X 1m X 200mm with adequate gradient to allow for runoff away from the water collection point.

B - GENERAL CONDITIONS OF CONTRACT

1) COMPETENCY

COMPETENCY OF THE CONSULTANT / ORGANIZATION

The Contractor is expected to acquire the services of geohydrological consultant / organization which must conform to the standards detailed in the "Minimum Standards and Guidelines for Groundwater Resource Development for the Community Water Supply and Sanitation Programme" by the Department of Water Affairs and Forestry, 1997. The consultant / organization must be registered and recognized for their proficiency in hydro-geological services. The following must be submitted with the tender submission:

- *Valid proof of registration with the South African Council for Natural Scientific Professions (SACNASP) must be attached.*
- *Registered and paid up members of the Ground-water Association of Kwa-Zulu Natal must supply a copy of their membership details.*
- *If the contractor is not in position to submit the above compulsory registration documents with the tender, must submit confirmation letter from registered consultant / organization to be used on the project. The letter should be on the letter head of the consultant / organization. It will be expected that the contractor must submit compulsory registration documents before work can commence.*

The consultant / organization competence and reliability will be evaluated according to the proof of previous works indicated in Annexure B.

COMPETENCY OF THE CONTRACTOR

2) CONTRACTOR TO PROVIDE EVERYTHING NECESSARY

The Contractor shall provide everything necessary for the proper execution of the Works according to the true intent and meaning of the Drawings and Specification taken together. The Contractor shall provide without extra charge all assistance and everything reasonably necessary for proving the quality of work done as may be required by the Engineer.

3) SUB-CONTRACTED WORK

The Appointed Contractor shall **not sub-contract the whole** of the contract. In case the Contractor decides to subcontract part of the work he shall obtain written consent of the Engineer. Any such consent shall not relieve the Contractor from any liability or obligation under the contract and he shall be fully liable for the acts, defaults and neglects of any sub-contractor, his agent or employees. The Contractor remains fully responsible and accountable for all aspects of the work (quality, timelines and budget).

4) VARIATIONS / 'AS BUILT' DETAILS

No variations or alterations may be made without the prior approval of the Regional Engineer. As the work progresses, the Contractor shall keep full records of all amendments to and deviations from the specifications as issued to the Contractor at the start of the contract. These details will, where appropriate, be noted on the supplied drawing. All alterations will be deemed to have a zero additional cost implication. If any additional works are required that have an additional cost implication then these must first be authorized in writing by the Regional Engineer. Refer to Clause 41: Ancillary Materials, Services And Equipment.

5) VERIFICATION OF EXPERIENCE

The Bidder will be required to produce adequate and sufficient references to enable the Department to inspect previously completed projects and assess the capacity of the Bidder. The Bidder shall provide such information in **Annexure B - Additional Information**.

PRICING AND PAYMENT STRUCTURES

6) FIXED RATE CONTRACT

The contract shall not be subject to contract rate (unit price) adjustment. Bidders must therefore allow for increased cost for the contract duration, including possible delays in awarding the Bid in accordance with the validity period. The tendered rates will be applied for calculating the payment value by using the actual quantities as measured and certified by the engineer at completion of the work.

7) PRICING

The Bidders will be required to Bid for all services, products and commissioning as specified in this document and associated plans. Partial bids will not be accepted. If a Bidder does not Bid on all items, his/her Bid may be rejected.

All prices tendered are to be in South African currency. All prices must exclude Vat. Vat of 15% must be added in the pricing summary.

- All items as described in the project specification are to be priced in full.
- Prices to exclude VAT.
- ***The costs for travel, accommodation, all associated disbursements and labour must be included in the rates/amounts tendered for the all the works required.***
- Transport/Delivery costs must be included in the pricing. It must not be a separate item.
- VAT must be filled in as the sub total followed by the complete price for the entire project.
- ***The tendered price must have your company stamp, date and be signed by an authorised person.***

8) QUANTITIES OF WORK

The Contractor shall receive payment only for the works actually executed and approved by the Engineer. No claim for an extra or for any addition, or for any variation shall be entertained unless such extra, addition or variation was ordered in writing by the Head of Department.

9) PROGRESS PAYMENTS

- .1 The contractor may submit claims for progress payments only on completion of the hereunder listed levels. Payment shall only be paid for claims, which are commensurate with the works actually executed and complete. NOTE: Payment will only be made against the construction progress as pertaining to built items. Movable items and materials on site are excluded from progress payments until they have been fully installed, fitted or built up.
- .2 If any item or part of an item in an invoice is disputed by the Engineer, the Engineer shall give notice of such with reasons.
- .3 The contractor shall be paid in monthly instalments up to a maximum of five (5). Refer to **ANNEXURE B: Work Phase Schedule for Drilling and Equipping of a Borehole** for the values of each phase. Please note these values are primarily estimates of what part the work phase constitutes of the entire project, and do NOT reflect the exact amounts paid per payment. Usually payment certificates reflect work done in several work phases, which have not necessarily all been completed. Verification of the % complete will be at the sole discretion of the Engineer.
- .4 ANNEXURE F presents a **pro forma payment certificate**. This will be used in conjunction with ANNEXURE B (Work phase schedule). The latter provides an approximate maximum to prevent over-payment of items that have been clearly over-priced.

- 5 Part payments will be made after the Department has approved the completion of each construction phase.

10) DEFECT LIABILITY PERIOD

The contractor shall unconditionally guarantee all materials, workmanship related to the works for a minimum period of twelve (12) months. The guarantee shall cover any defects due to inferior materials and/or workmanship of the Contractor, or any of his sub-contractors, fair wear and tear excepted. The Contractor shall repair, remedy or replace any such defects, part or complete works without delay and at his own cost.

If any defects are not remedied within the period specified by the Head of Department, then the Head of Department shall have such defect repaired, at the risk and cost to the appointed Contractor, by another Contractor whom the Head of Department deems to be proficient in the work without prejudice to any rights the Head of Department has against the defaulting contractor. The Head of Department will give written notice to the Contractor of such instances where he appoints another Contractor to remedy defects in the works.

11) SERVICE LEVEL AGREEMENT

The successful Bidder and the Department will sign a Service Level Agreement prior to commencement of works. A proposed schedule of work must be provided by the contractor for the approval of the Engineer within 2 (two) weeks of receiving notification of a successful bid.

12) COMMENCEMENT OF THE WORKS

The Department will organize a site hand-over to the contractor and consultant who will then be introduced to the project stakeholders and participants. The site shall only be accessible to consultant, contractor staff and Departmental representatives while work is in progress. If this contract entails the siting, drilling, testing and equipping of more than one borehole, work on more than one site should commence simultaneously. The site(s) will be handed back after practical completion. Site establishment must start **within one week**, and the actual works **within one week** after hand-over of the site, provided that an official order has been issued and that no exceptional circumstances such as inclement weather or other outside the control of either party to the contract prevail. In the case the work has not commenced within three weeks of the hand-over and no extenuating circumstances for the delay can be provided, the Department reserves itself the right to cancel the contract and appoint one of the other contractors that have bid for the works.

13) COMPLETION OF THE WORKS

The project is to be completed **within 3 months of award of Bid**, provided that the order was received within two weeks after award of the Bid. In case of the drilling and equipping of more than one borehole, an extended period should be agreed upon, which will be part of the Implementation plan/Work schedule as drawn up by the contractor before commencement of the works and included in the Service Level Agreements.

14) RATE OF PROGRESS

The Works shall be completed within the time period indicated on the official order form. If the Works are delayed by cessation of work by any workmen, inclement weather, or by any omissions, additions, substitutions or variations of the Works, or of any items of work, labour or material, or other causes beyond the Contractor's control then the Contractor shall have the right within twenty-one days of any such cause of delay arising, to apply in writing to the Department to extend the date of completion, stating the cause of delay and period of extension applied for. The Department upon receipt of such written application may by order in writing extend such date of completion by a period to be determined, or may refuse to extend such date of completion, or may postpone giving a decision upon such application until completion of the Contract period set out in sub-clause (a) of this clause. The date of completion will be extended only to the extent approved by the Department.

Should the Contractor fail to apply in writing for an extension within the time set out above, or should the Department refuse to grant any extension in writing, then the Contract period provided by sub-clause (a) of this clause shall not be exceeded.

When the Works are completed the Department will give a completion certificate and the date of such certificate shall be the date of commencement of the guarantee period.

15) TIME TO BE OF THE ESSENCE

Time shall be considered as the essence of the Contract. If, therefore, the Contractor fails to commence work or the Works or to proceed with and complete the Works in compliance with the projected timeframes, then the Head of Department shall have the right in his/her absolute discretion to adopt and exercise all or any of the following courses wholly or partly, viz: -

- To direct the Contractor, in writing, on any day named therein to suspend and discontinue the execution of the Works, and to withdraw himself and his workmen from the said Site or Sites, and thereupon: -
- To make any Contract or Contracts by calling for Bids or otherwise with any other Contractor or Contractors for the completion of the Works, or any part thereof, at such times and upon such terms as to the Department shall deem best.
- To provide such number of men, or purchase such materials, or both provide the men and purchase the materials as to him shall seem fit and proceed with and complete the said Works.

In relation to the foregoing provisions the Department shall charge any sums of money which may be paid by the Department for completing the said Contract against the Contractor and if such amount shall exceed this Contract, then the Department shall have the right to recover such excess or any balance thereof from the Contractor by legal proceedings.

16) WORK SCHEDULE & PROGRESS PAYMENTS

The contractor is to supply a Gantt chart with the proposed times of completion of each phase. The progress payments suggested in *ANNEXURE B* serve as a guideline for part payments. However, the contractor, in consultation with the Engineer, may deviate from this as long as the claim does not exceed the actual progress made.

17) CIDB Registration

It is a minimum requirement that all tenderers shall be registered with the Construction Industry Development Board in a designation of higher, or equal, to Class of Construction Work grading of **1CE or 1CE PE**.

All Tenderers must attach proof CIDB in order to be evaluated for this requirement.

C) PROJECT TECHNICAL SPECIFICATIONS

1) SPECIFIC SCOPE OF WORKS

To Facilitate the Siting, Drilling, Testing and Equipping of boreholes as indicated in Section A: Project Particulars, clause 1.

- a. Geohydrological Desktop study, Geophysical survey (instruments) and selection of drilling target.
- Geohydrological services are to conform to the standards detailed in the “Minimum Standards and Guidelines for Groundwater Development for the Community Water Supply and Sanitation Programme” by the Department of Water Affairs and Forestry 1997. The consultant / organization must be recognized for their proficiency in hydro-geological services.
 - Study and interpretation of published geological and hydro-geological maps, aerial photography and ortho-photos (if available)
 - Interrogation of available existing databases - National Groundwater Archive (NGA) and the Groundwater Resource Information Project (GRIP) and WARMS
 - The siting of a potential groundwater borehole position must be preceded by the pre-feasibility desktop study to maximise the success rate within the most cost effective and productive manner. Drilling targets need to be identified based on scientific methods and offering the greatest potential success in terms of yield and access.
 - Geophysical borehole siting is to be conducted utilizing a minimum of two methods by an experienced hydro-geological consultant / team Geophysical techniques include but are not limited to:
 - Magnetic surveys
 - Frequency domain electromagnetic surveys
 - Gravimetric surveys
 - Electrical resistivity surveys
 - Seismic refraction surveys
 - More than one potential position is required per project, based on whether or not the geophysical results show good potential for ground-water. The minimum requirements are as follows:
 - Production application: a minimum of two (2) potential positions (pegs) required per project.

Geophysical techniques include but are not limited to:

b. Drilling of boreholes.

- The drilling contractor will function under the direct and full-time on-site supervision of the hydro-geological consultant (unless otherwise specified). The hydro-geological consultant will be responsible for the borehole construction for all aspects of that construction, inclusive of technical and management aspects. The hydro-geological consultant will be required to verify and document the construction parameters of the borehole as well as to log the geological formation encountered in that borehole.

| Drilling method | Geological formation for drilling method used |
|------------------------|--|
| Rotary air percussion | All consolidated rock formations (with limited overburden) |
| ODEX / Symetrix | In all formation |
| Rotary mud flush | In extensive unconsolidated soil formation |

c. Pump Test Water Sampling and laboratory water analysis.

- The test pumping contractor will function under the direct supervision of the hydro-geological consultant (unless otherwise specified). The hydro-geological consultant will be responsible for the required instruction and on site supervision of the testing of the borehole and for all aspects of the testing of that borehole, inclusive of technical and management aspects. The hydro-geological consultant will be required to verify, document and interpret test results and make borehole utilisation and pumping recommendations. Payment shall be made according to the type of test performed and per borehole tested. Test pumping will typically be as follows:
 - Step test (4 x 1 hr duration and 4 hrs maximum recovery or 95% recovered, 24 hour constant discharge test (CDT) and associated recovery (of maximum 24 hrs of 95% recovered)
- Groundwater sampling during the CDT with laboratory supplied containers and submission within 24 hrs for a SANS 241: 2015 Drinking Water Standards Abbreviated Analysis.

d. Equipping of boreholes.

- The hydro-geological consultant will be required to verify, document and interpret test results and make pump and pumping recommendations. The pump specifications will be guided by the sustainable yield, hydraulic head conditions and the water requirements at the site.
- The borehole will be equipped with the recommended submersible pump powered by the recommended power supply i.e. Generator.
- Proposed SVM Franklin Pump, Motor 1.1Kw and Control Box 1.1Kw (or equivalent to be discussed with Engineer before installation), supplied by 4mm X 4 core electric cable and secured with heavy duty nylon ski-rope.
- Generator - 6.5 Kva with combination battery powered and pull start.
- 3m Galvanised Tank Stand secured with 20MPa concrete footings (500 mm X 500 mm X 500 mm).
- 5000L Jojo tank braced with 4mm wire ties to tank stand.
- Tap and tap stand secured in concrete and pvc piping 800mm above the concrete slab.
- Concrete slab is to be 15Mpa (1.2m X 1m X 200mm). The slab is to be recessed 50mm below natural ground level and runoff must drain away from the water collection point.
- Supply (rising main) and delivery lines is to be 32mm HDPE class 10 (SABS approved), 100 m supply from borehole and a maximum of 200 m delivery to water points.

- Trenching for piped water supply to be 600mm deep by 300 mm wide.
- Fittings - control valves must be installed on both independent supply lines from the Jojo tank to the nuresery and the tap.
- The borehole pump will be secured in a concrete ring. Galvanised lockable lid to be used to secure control box and pump (Alternative to be discussed with Engineer prior to any installations). The ring or lid to be fitted with ease of use lockable box which houses plug lead to prevent the continuous opening and closing of the lid.
- All operation and service manuals to be supplied on commissioning.

e. Testing and commissioning of boreholes.

- A complete operational test will be performed of the borehole pump and all associated pipes and fittings. The Geohydrologist will be required to be present on site to verify proper functioning of the borehole and to commission each project.

f. Technical Report.

- The PSP will compile a comprehensive technical report based on the findings and results of the investigation. This would include the outcomes of the desktop review, geophysical investigation, drilling and testing data, analysis and interpretation, equipping and reticulation design.

2) MATERIALS AND CONSTRUCTION

All materials must conform to SABS specifications for the products. This includes all items such as piping, HDPE fittings, tank stands, reservoir tank, all other fittings, borehole pump and control box, etc.

All construction works must conform to the applicable standard specifications and installation requirements as per NBR requirements and manufacturers recommendations. All concrete works to conform to Cement & Concrete Institute standards and recommendations.

STANDARD CONCRETE MIXES: (Class B concrete Slabs and footings)

Mixing, pouring and curing of concrete: SABS 1200 GA (5.4)

Materials: SABS 1200 AA (3); SABS 1200 GA (3)

Cement: Common cement 32,5N or R to SANS 50197-1

Testing: SABS 1200 AA (7); SABS 1200 GA (7)

Quality control through the slump test SABS 1200 GA (5.4.1.2) SABS method 862. The contractor is to supply the slump testing equipment.

Tolerances to SABS 1200 GA (6.4)

Formwork: Refer to SABS 1200 GA (4.4; 5.2)

Reinforcing: SABS 1200 GA (5.1)

Refer to standard concrete mixes specification.

STANDARD CONCRETE MIXES:

Concrete for non-structural purposes shall be "Prescribed mix concrete" produced in accordance with the requirements indicated in table 5.1, and the Contractor is also referred to the foregoing preambles insofar as they apply: -

| Class of Concrete | Estimated Minimum Compressive Strength in MPA at 28 Days | Maximum Nominal Size of Coarse Aggregate in mm | Proportion of Constituents | | |
|-------------------|--|--|----------------------------|------------------------|--------------------------|
| | | | Cement (Parts) | Fine Aggregate (Parts) | Coarse Aggregate (Parts) |
| A | 10 | 37,5 | 1 (=2 bags) | 4 | 5 |
| B | 15 | 19,0 | 1 (=2 bags) | 3 | 4 |
| C | 20 | 19,0 | 1 (=2 bags) | 2½ | 3½ |
| D | 25 | 19,0 | 1 (=2 bags) | 2 | 3 |
| E | 30 | 19,0 | 1 (=2 bags) | 2 | 2½ |

Cement and aggregates shall be mixed by volume and the contents of a 50kg sack of cement shall be taken to be 0,033m³. Water addition should be kept to a minimum. Only sufficient water should be used to produce a workable mix of 60-100mm slump. A recommended maximum water: cement ratio is 1 for a 10Mpa; 0.8 for a 15Mpa; 0.65 for a 20Mpa; 0.59 for a 25Mpa; 0.53 for a 30Mpa mix, however the lower the ratio the better the durability of the concrete. Approximately 210 litres per m³ of concrete is required for an average quality sand and optimum quantity 19mm stone.

BILL OF QUANTITIES

GEOHYDROLOGICAL SERVICES

| Payment Reference | DESCRIPTION | UNIT | QTY | RATE | AMOUNT |
|-------------------|---|---------|-----|------|--------|
| 1 | PRE-FEASIBILITY DESKTOP STUDY | project | 1 | | |
| 2 | GEOPHYSICAL BOREHOLE SITING To include travel, accommodation, travel time and all related disbursements. | project | 1 | | |
| 3 | DRILLING SUPERVISION Full-time supervision for a field hydrogeologist. To include travel, accommodation, travel time and all related disbursements. | Day | 2 | | |
| 4 | TESTING SUPERVISION Full-time supervision for a field hydrogeologist. To include travel, accommodation, travel time and all related disbursements. | Day | 2 | | |
| 5 | EQUIPPING Site monitoring by hydrogeologist. To include travel, travel time and all related disbursements. | Day | 1 | | |
| 6 | REPORTING Inclusive of professional time and all associated disbursements. Technical report in a word format, to detail study approach, results, recommendation complete with all geophysical data, drill log, test data and applicable maps and photographs. | No. | 1 | | |
| 7 | COMMISSIONING Commissioning of project with Departmental Engineer, Extension Departmental Officer and community participants. <i>To include travel, accommodation, travel time and all related disbursements.</i> | Project | 1 | | |
| 8 | PROJECT MANAGEMENT To include professional fees for overall management of the project and disbursements for communications, printing etc. | Project | 1 | | |
| 9 | SUBMISSION OF INFORMATION TO EMPLOYER All borehole data needs to be sent to DWS in a specified format | Project | 1 | | |

| | |
|------------------------------|--|
| SUB TOTAL | |
| ADD: 15% VAT | |
| TOTAL CARRIED FORWARD | |

**BILL OF QUANTITIES
DRILLING OF BOREHOLE**

| ITEM NO | DESCRIPTION | UNIT | QTY | RATE | AMOUNT |
|---------|---|---------|-----------|------|--------|
| 1 | ESTABLISH | | | | |
| 1.1 | Initial establishment to site for drilling | No. | 1 | | |
| 1.2 | Set-up at site | | | | |
| | a) Percussion | No. | 1 | | |
| 2 | DRILLING OF BOREHOLES | | | | |
| 2.1 | For internal borehole diameter of 165mm | | | | |
| 2.1.1 | Air Percussion Drilling | | | | |
| | a) Drilling Depth Range : 0 - 150m | | | | |
| | 216 mm drilling diameter | m | 30 | | |
| | 165 mm drilling diameter | m | 120 | | |
| | b) Mild Steel 3- 4mm wall thickness | m | 30 | | |
| | c) Development (Air Flush) | hr | 1 | | |
| | d) Silica grit 3-5 mm | m | rate only | | |
| | e) Sanitary Seal (3-5m) | project | 1 | | |
| | f) Concrete Collar | project | 1 | | |
| | g) Borehole protection (welding of casing) | project | 1 | | |
| | h) Borehole marking (as per DWS specification) | project | 1 | | |
| | <i>To include travel, accommodation, travel time and all related disbursements.</i> | | | | |

| | |
|------------------------------|--|
| SUB TOTAL | |
| ADD: 15% VAT | |
| TOTAL CARRIED FORWARD | |

**BILL OF QUANTITIES
TEST PUMPING**

| ITEM NO | DESCRIPTION | UNIT | QTY | RATE | AMOUNT |
|------------------------------|--|------|-----------|------|--------|
| 1 | Establishment and Set-up Pump Testing | No. | 1 | | |
| 2 | Pump Test To include stepped discharge test (4hr discharge), 24hr constant discharge, recovery monitoring (28hrs) | No. | 1 | | |
| 3 | Borehole Disinfection - Granular chlorine (HTH or equivalent) | No. | 1 | | |
| 4 | Borehole capping (re-welding of casing) | No. | 1 | | |
| 5 | Data Recording - (hard copy field sheet and digital excel spreadsheet including log graphs) | No. | 1 | | |
| 6 | Water level monitoring at observation borehole | No. | rate only | | |
| 7 | Collection of water sample (cold storage and delivery to the laboratory) | No. | 1 | | |
| 8 | SANS 241 (2015) Abbrev. at accredited laboratory <i>To include travel, accommodation, travel time and all related disbursements.</i> | No. | Rate | | |
| SUB TOTAL | | | | | |
| ADD: 15% VAT | | | | | |
| TOTAL CARRIED FORWARD | | | | | |

BILL OF QUANTITIES
EQUIPPING TO ALLOW 6 HRS OF PUMPING TO FILL 2 X 5 m³ STORAGE TANKS

| ITEM NO | DESCRIPTION | UNIT | QTY | RATE | AMOUNT |
|------------------------------|---|------|-----|------|--------|
| 1 | Establishment, Set-up and Equipping(labour) | No. | 1 | | |
| 2 | Disinfection of borehole (only if pathogens indicated by total coliforms and e-Coli, are present) | No. | 1 | | |
| 3 | Trenching (600mm X 300mm) | m | 230 | | |
| 4 | SVM 3019 Pump & 1.1kw Franklin Motor | No. | 1 | | |
| 5 | Franklin Box Std 1.1kw | No. | 1 | | |
| 6 | Piping 32mm Class 10 HDPE (SABS approved) | m | 300 | | |
| 7 | Fittings (Termination kit, safety rope, compression fittings, external fittings, tank fittings, tap stand and tap) | No. | 1 | | |
| 8 | Cable 4mm (4 core) | m | 100 | | |
| 9 | Petrol Generator (6.5kVa) Mounted on Wheelbarrow frame | No. | 1 | | |
| 10 | Galvanized tank Stand (3m High) | No. | 2 | | |
| 11 | Jojo Tank 5000L | No. | 2 | | |
| 12 | Protective Pump House (Concrete ring with lockable lid) | No. | 1 | | |
| 13 | Tap stand with Concrete block (1.5m X 1m X 200mm (20 MPa) | No. | 1 | | |
| 14 | Commissioning of borehole On site for snags <i>To include travel, accommodation, travel time and all related disbursements.</i> | No. | 1 | | |
| SUB TOTAL | | | | | |
| ADD: 15% VAT | | | | | |
| TOTAL CARRIED FORWARD | | | | | |

ANNEXURE A : Work Phases Schedule for Drilling and Equipping of a Single Borehole

Please note these values are primarily estimates of what part of the work phase constitutes of the entire project, and do NOT reflect the exact amounts per part payment. Usually payment certificates reflect work done in several work phases, which do not necessarily mean that they have been completed.

| Work phase No. | PHASE DESCRIPTION | App. % of work/ contract |
|-----------------------|---|---------------------------------|
| 1 | Hydrogeological Services | 20% |
| 2 | Drilling | 20% |
| 3 | Pump Test and laboratory water sampling. | 10% |
| 4 | Equipping of borehole | 50% |
| | TOTAL | 100% |

ANNEXURE B :***Additional Information*****1. PROFESSIONAL REGISTRATION**

Please note that the awarded bidder will be required to supply proof of registration with the appropriate body.

Please note that Completion of the table below is mandatory and proof of registration must be attached !!!!

| # | PROFESSIONAL BODY REGISTRATION | REGISTRATION NUMBER |
|---|--------------------------------|---------------------|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |

| # | CONSULTANT / ORGANISATION | REGISTRATION NUMBER |
|---|---------------------------|---------------------|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |

2. EXPERIENCE

Please indicate your experience and expertise by completing the table.

| # | NAME OF PROJECT + PERIOD | PROJECT DESCRIPTION | ROLE | PROJECT VALUE | NAME AND CONTACT NUMBER OF REFEREE |
|---|--------------------------|---------------------|------|---------------|------------------------------------|
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |

KINDLY COMPLETE PLEASE!!!

8B0 4

DECLARATION OF INTEREST

1. Any legal person, including persons employed by the state¹, or persons having a kinship with persons employed by the state, including a blood relationship, may make an offer or offers in terms of this invitation to bid (includes a price quotation, advertised competitive bid, limited bid or proposal). In view of possible allegations of favouritism, should the resulting bid, or part thereof, be awarded to persons employed by the state, or to persons connected with or related to them, it is required that the bidder or his/her authorised representative declare his/her position in relation to the evaluating/adjudicating authority where-

- the bidder is employed by the state; and/or
- the legal person on whose behalf the bidding document is signed, has a relationship with persons/a person who are/is involved in the evaluation and or adjudication of the bid(s), or where it is known that such a relationship exists between the person or persons for or on whose behalf the declarant acts and persons who are involved with the evaluation and or adjudication of the bid.

2. In order to give effect to the above, the following questionnaire must be completed and submitted with the bid.

2.1 Full Name of bidder or his or her representative:

2.2 Identity Number:

2.3 Position occupied in the Company (director, trustee, shareholder²):

2.4 Company Registration Number:

2.5 Tax Reference Number:

2.6 VAT Registration Number:

2.6.1 The names of all directors / trustees / shareholders / members, their individual identity numbers, tax reference numbers and, if applicable, employee / persal numbers must be indicated in paragraph 3 below.

¹"State" means -

- (a) any national or provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act No. 1 of 1999);
- (b) any municipality or municipal entity;
- (c) provincial legislature;
- (d) national Assembly or the national Council of provinces; or
- (e) Parliament.

²"Shareholder" means a person who owns shares in the company and is actively involved in the management of the enterprise or business and exercises control over the enterprise.

KINDLY COMPLETE PLEASE!!!

2.7 Are you or any person connected with the bidder presently employed by the state? **YES / NO**

2.7.1 If so, furnish the following particulars:

Name of person / director / trustee / shareholder/ member:
Name of state institution at which you or the person connected to the bidder is employed :
Position occupied in the state institution:

Any other particulars:

.....
.....
.....

2.7.2 If you are presently employed by the state, did you obtain the appropriate authority to undertake remunerative work outside employment in the public sector? **YES / NO**

2.7.2.1 If yes, did you attached proof of such authority to the bid document? **YES / NO**

(Note: Failure to submit proof of such authority, where applicable, may result in the disqualification of the bid.

2.7.2.2 If no, furnish reasons for non-submission of such proof:

.....
.....
.....

2.8 Did you or your spouse, or any of the company's directors / trustees / shareholders / members or their spouses conduct business with the state in the previous twelve months? **YES / NO**

2.8.1 If so, furnish particulars:

.....
.....
.....

2.9 Do you, or any person connected with the bidder, have any relationship (family, friend, other) with a person employed by the state and who may be involved with the evaluation and or adjudication of this bid? **YES / NO**

KINDLY COMPLETE PLEASE!!!

2.9. If so, furnish particulars.

.....
.....
.....

2.10 Are you, or any person connected with the bidder, **YES/NO**
aware of any relationship (family, friend, other) between
any other bidder and any person employed by the state
who may be involved with the evaluation and or adjudication
of this bid?

2.10.1 If so, furnish particulars.

.....
.....
.....

2.11 Do you or any of the directors / trustees / shareholders / members **YES/NO**
of the company have any interest in any other related companies
whether or not they are bidding for this contract?

2.11.1 If so, furnish particulars:

.....
.....
.....

3 Full details of directors / trustees / members / shareholders.

| Full Name | Identity Number | Personal Reference Number | Tax Number | State Number | Employee Number / Pearsal Number |
|-----------|-----------------|---------------------------|------------|--------------|----------------------------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
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| | | | | | |

KINDLY COMPLETE PLEASE!!!

4 DECLARATION

I, THE UNDERSIGNED (NAME).....

CERTIFY THAT THE INFORMATION FURNISHED IN PARAGRAPHS 2 and 3 ABOVE IS CORRECT.
I ACCEPT THAT THE STATE MAY REJECT THE BID OR ACT AGAINST ME IN TERMS OF
PARAGRAPH 23 OF THE GENERAL CONDITIONS OF CONTRACT SHOULD THIS DECLARATION
PROVE TO BE FALSE.

.....
Signature

.....
Date

.....
Position

.....
Name of bidder

May 2011

PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2017

This preference form must form part of all bids invited. It contains general information and serves as a claim form for preference points for Broad-Based Black Economic Empowerment (B-BBEE) Status Level of Contribution

NB: BEFORE COMPLETING THIS FORM, BIDDERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF B-BBEE, AS PRESCRIBED IN THE PREFERENTIAL PROCUREMENT REGULATIONS, 2017.

1. GENERAL CONDITIONS

1.1 The following preference point systems are applicable to all bids:

- the 80/20 system for requirements with a Rand value of up to R50 000 000 (all applicable taxes included); and
- the 90/10 system for requirements with a Rand value above R50 000 000 (all applicable taxes included).

1.2

- a) The value of this bid is estimated to **exceed/not exceed** R50 000 000 (all applicable taxes included) and therefore the preference point system shall be applicable; or
- b) Either the 80/20 or 90/10 preference point system will be applicable to this tender (*delete whichever is not applicable for this tender*).

1.3 Points for this bid shall be awarded for:

- (a) Price; and
- (b) B-BBEE Status Level of Contributor.

1.4 The maximum points for this bid are allocated as follows:

| | POINTS |
|--|------------|
| PRICE | |
| B-BBEE STATUS LEVEL OF CONTRIBUTOR | |
| Total points for Price and B-BBEE must not exceed | 100 |

1.5 Failure on the part of a bidder to submit proof of B-BBEE Status level of contributor together with the bid, will be interpreted to mean that preference points for B-BBEE status level of contribution are not claimed.

1.6 The purchaser reserves the right to require of a bidder, either before a bid is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the purchaser.

| B-BBEE Status Level of Contributor | Number of points (90/10 system) | Number of points (80/20 system) |
|------------------------------------|---------------------------------|---------------------------------|
| 1 | 10 | 20 |
| 2 | 9 | 18 |
| 3 | 6 | 14 |
| 4 | 5 | 12 |
| 5 | 4 | 8 |
| 6 | 3 | 6 |
| 7 | 2 | 4 |
| 8 | 1 | 2 |
| Non-compliant contributor | 0 | 0 |

5. BID DECLARATION

5.1 Bidders who claim points in respect of B-BBEE Status Level of Contribution must complete the following:

6. B-BBEE STATUS LEVEL OF CONTRIBUTOR CLAIMED IN TERMS OF PARAGRAPHS 1.4 AND 4.1

6.1 B-BBEE Status Level of Contributor: . =(maximum of 10 or 20 points)
(Points claimed in respect of paragraph 7.1 must be in accordance with the table reflected in paragraph 4.1 and must be substantiated by relevant proof of B-BBEE status level of contributor.

7. SUB-CONTRACTING

7.1 Will any portion of the contract be sub-contracted?

(Tick applicable box)

| | | | |
|-----|--------------------------|----|--------------------------|
| YES | <input type="checkbox"/> | NO | <input type="checkbox"/> |
|-----|--------------------------|----|--------------------------|

7.1.1 If yes, indicate:

- What percentage of the contract will be subcontracted.....%
- The name of the sub-contractor.....
- The B-BBEE status level of the sub-contractor.....
- Whether the sub-contractor is an EME or QSE

(Tick applicable box)

| | | | |
|-----|--------------------------|----|--------------------------|
| YES | <input type="checkbox"/> | NO | <input type="checkbox"/> |
|-----|--------------------------|----|--------------------------|

- Specify, by ticking the appropriate box, if subcontracting with an enterprise in terms of Preferential Procurement Regulations,2017:

| Designated Group: An EME or QSE which is at last 51% owned by: | EME √ | QSE √ |
|---|----------|----------|
| Black people | | |
| Black people who are youth | | |
| Black people who are women | | |
| Black people with disabilities | | |
| Black people living in rural or underdeveloped areas or townships | | |
| Cooperative owned by black people | | |

| | | |
|--|--|--|
| Black people who are military veterans | | |
| OR | | |
| Any EME | | |
| Any QSE | | |

8. DECLARATION WITH REGARD TO COMPANY/FIRM

8.1 Name of company/firm:.....

8.2 VAT registration number:.....

8.3 Company registration number:.....

8.4 TYPE OF COMPANY/ FIRM

- Partnership/Joint Venture / Consortium
- One person business/sole propriety
- Close corporation
- Company (Pty) Limited

[TICK APPLICABLE BOX]

8.5 DESCRIBE PRINCIPAL BUSINESS ACTIVITIES

.....

8.6 COMPANY CLASSIFICATION

- Manufacturer
- Supplier
- Professional service provider
- Other service providers, e.g. transporter, etc.

[TICK APPLICABLE BOX]

8.7 Total number of years the company/firm has been in business:.....

8.8 I/we, the undersigned, who is / are duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the B-BBE status level of contributor indicated in paragraphs 1.4 and 6.1 of the foregoing certificate, qualifies the company/ firm for the preference(s) shown and I / we acknowledge that:

- i) The information furnished is true and correct;
- ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form;
- iii) In the event of a contract being awarded as a result of points claimed as shown in paragraphs 1.4 and 6.1, the contractor may be required to furnish documentary proof to the satisfaction of the purchaser that the claims are correct;
- iv) If the B-BBEE status level of contributor has been claimed or obtained on a

fraudulent basis or any of the conditions of contract have not been fulfilled, the purchaser may, in addition to any other remedy it may have –

- (a) disqualify the person from the bidding process;
- (b) recover costs, losses or damages it has incurred or suffered as a result of that person's conduct;
- (c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation;
- (d) recommend that the bidder or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted by the National Treasury from obtaining business from any organ of state for a period not exceeding 10 years, after the *audi alteram partem* (hear the other side) rule has been applied; and
- (e) forward the matter for criminal prosecution.

WITNESSES

1.

2.

.....
SIGNATURE(S) OF BIDDERS(S)

DATE:

ADDRESS

.....

.....

DECLARATION CERTIFICATE FOR LOCAL PRODUCTION AND CONTENT FOR DESIGNATED SECTORS

This Standard Bidding Document (SBD) must form part of all bids invited. It contains general information and serves as a declaration form for local content (local production and local content are used interchangeably).

Before completing this declaration, bidders must study the General Conditions, Definitions, Directives applicable in respect of Local Content as prescribed in the Preferential Procurement Regulations, 2011, the South African Bureau of Standards (SABS) approved technical specification number SATS 1286:2011 (Edition 1) and the Guidance on the Calculation of Local Content together with the Local Content Declaration Templates [Annex C (Local Content Declaration: Summary Schedule), D (Imported Content Declaration: Supporting Schedule to Annex C) and E (Local Content Declaration: Supporting Schedule to Annex C)].

1. General Conditions

- 1.1. Preferential Procurement Regulations, 2011 (Regulation 9) makes provision for the promotion of local production and content.
- 1.2. Regulation 9.(1) prescribes that in the case of designated sectors, where in the award of bids local production and content is of critical importance, such bids must be advertised with the specific bidding condition that only locally produced goods, services or works or locally manufactured goods, with a stipulated minimum threshold for local production and content will be considered.
- 1.3. Where necessary, for bids referred to in paragraph 1.2 above, a two stage bidding process may be followed, where the first stage involves a minimum threshold for local production and content and the second stage price and B-BBEE.
- 1.4. A person awarded a contract in relation to a designated sector, may not sub-contract in such a manner that the local production and content of the overall value of the contract is reduced to below the stipulated minimum threshold.
- 1.5. The local content (LC) expressed as a percentage of the bid price must be calculated in accordance with the SABS approved technical specification number SATS 1286: 2011 as follows:

$$LC = [1 - x / y] * 100$$

Where

x is the imported content in Rand

y is the bid price in Rand excluding value added tax (VAT)

Prices referred to in the determination of x must be converted to Rand (ZAR) by using the exchange rate published by South African Reserve Bank (SARB) at 12:00 on the date of advertisement of the bid as indicated in paragraph 4.1 below.

The SABS approved technical specification number SATS 1286:2011 is accessible on [http://www.thedti.gov.za/industrial development/ip.jsp](http://www.thedti.gov.za/industrial%20development/ip.jsp) at no cost.

1.6 A bid may be disqualified if –

- (a) this Declaration Certificate and the Annex C (Local Content Declaration: Summary Schedule) are not submitted as part of the bid documentation; and
- (b) the bidder fails to declare that the Local Content Declaration Templates (Annex C, D and E) have been audited and certified as correct.

2. Definitions

- 2.1. **“bid”** includes written price quotations, advertised competitive bids or proposals;
 - 2.2. **“bid price”** price offered by the bidder, excluding value added tax (VAT);
 - 2.3. **“contract”** means the agreement that results from the acceptance of a bid by an organ of state;
 - 2.4. **“designated sector”** means a sector, sub-sector or industry that has been designated by the Department of Trade and Industry in line with national development and industrial policies for local production, where only locally produced services, works or goods or locally manufactured goods meet the stipulated minimum threshold for local production and content;
 - 2.5. **“duly sign”** means a Declaration Certificate for Local Content that has been signed by the Chief Financial Officer or other legally responsible person nominated in writing by the Chief Executive, or senior member / person with management responsibility (close corporation, partnership or individual).
 - 2.6. **“imported content”** means that portion of the bid price represented by the cost of components, parts or materials which have been or are still to be imported (whether by the supplier or its subcontractors) and which costs are inclusive of the costs abroad (this includes labour or intellectual property costs), plus freight and other direct importation costs, such as landing costs, dock duties, import duty, sales duty or other similar tax or duty at the South African port of entry;
 - 2.7. **“local content”** means that portion of the bid price which is not included in the imported content, provided that local manufacture does take place;
 - 2.8. **“stipulated minimum threshold”** means that portion of local production and content as determined by the Department of Trade and Industry; and
 - 2.9. **“sub-contract”** means the primary contractor's assigning, leasing, making out work to, or employing another person to support such primary contractor in the execution of part of a project in terms of the contract.
3. **The stipulated minimum threshold(s) for local production and content (refer to Annex A of SATS 1286:2011) for this bid is/are as follows:**

| <u>Description of services, works or goods</u> | <u>Stipulated minimum threshold</u> |
|--|-------------------------------------|
| Pump. | 70-100 % |
| Steel products & Comp | 100 % |
| | % |

4. Does any portion of the services, works or goods offered have any imported content?
(Tick applicable box)

| | | | |
|-----|--------------------------|----|--------------------------|
| YES | <input type="checkbox"/> | NO | <input type="checkbox"/> |
|-----|--------------------------|----|--------------------------|

- 4.1 If yes, the rate(s) of exchange to be used in this bid to calculate the local content as prescribed in paragraph 1.5 of the general conditions must be the rate(s) published by SARB for the specific currency at 12:00 on the date of advertisement of the bid.

The relevant rates of exchange information is accessible on www.reservebank.co.za.

Indicate the rate(s) of exchange against the appropriate currency in the table below (refer to Annex A of SATS 1286:2011):

| Currency | Rates of exchange |
|-----------------|--------------------------|
| US Dollar | |
| Pound Sterling | |
| Euro | |
| Yen | |
| Other | |

NB: Bidders must submit proof of the SARB rate (s) of exchange used.

5. Were the Local Content Declaration Templates (Annex C, D and E) audited and certified as correct?
(Tick applicable box)

| | | | |
|-----|--------------------------|----|--------------------------|
| YES | <input type="checkbox"/> | NO | <input type="checkbox"/> |
|-----|--------------------------|----|--------------------------|

- 5.1. If yes, provide the following particulars:

- (a) Full name of auditor:
- (b) Practice number:
- (c) Telephone and cell number:
- (d) Email address:

(Documentary proof regarding the declaration will, when required, be submitted to the satisfaction of the Accounting Officer / Accounting Authority)

6. Where, after the award of a bid, challenges are experienced in meeting the stipulated minimum threshold for local content the dti must be informed accordingly in order for the dti to verify and in consultation with the AO/AA provide directives in this regard.

LOCAL CONTENT DECLARATION
(REFER TO ANNEX B OF SATS 1286:2011)

LOCAL CONTENT DECLARATION BY CHIEF FINANCIAL OFFICER OR OTHER LEGALLY RESPONSIBLE PERSON NOMINATED IN WRITING BY THE CHIEF EXECUTIVE OR SENIOR MEMBER/PERSON WITH MANAGEMENT RESPONSIBILITY (CLOSE CORPORATION, PARTNERSHIP OR INDIVIDUAL)

IN RESPECT OF BID NO.

ISSUED BY: (Procurement Authority / Name of Institution):

NB

1 The obligation to complete, duly sign and submit this declaration cannot be transferred to an external authorized representative, auditor or any other third party acting on behalf of the bidder.

2 Guidance on the Calculation of Local Content together with Local Content Declaration Templates (Annex C, D and E) is accessible on <http://www.thdti.gov.za/industrialdevelopment/ip.isp>. Bidders should first complete Declaration D. After completing Declaration D, bidders should complete Declaration E and then consolidate the information on Declaration C. **Declaration C should be submitted with the bid documentation at the closing date and time of the bid in order to substantiate the declaration made in paragraph (c) below.** Declarations D and E should be kept by the bidders for verification purposes for a period of at least 5 years. The successful bidder is required to continuously update Declarations C, D and E with the actual values for the duration of the contract.

I, the undersigned, (full names),
 do hereby declare, in my capacity as
 of(name of bidder
 entity), the following:

(a) The facts contained herein are within my own personal knowledge.

(b) I have satisfied myself that:

- (i) the goods/services/works to be delivered in terms of the above-specified bid comply with the minimum local content requirements as specified in the bid, and as measured in terms of SATS 1286:2011; and
- (ii) the declaration templates have been audited and certified to be correct.

(c) The local content percentage (%) indicated below has been calculated using the formula given in clause 3 of SATS 1286:2011, the rates of exchange indicated in paragraph 4.1 above and the information contained in Declaration D and E which has been consolidated in Declaration C:

| | |
|--|---|
| Bid price, excluding VAT (y) | R |
| Imported content (x), as calculated in terms of SATS 1286:2011 | R |
| Stipulated minimum threshold for local content (paragraph 3 above) | |
| Local content %, as calculated in terms of SATS 1286:2011 | |

If the bid is for more than one product, the local content percentages for each product contained in Declaration C shall be used instead of the table above.

The local content percentages for each product has been calculated using the formula given in clause 3 of SATS 1286:2011, the rates of exchange indicated in paragraph 4.1 above and the information contained in Declaration D and E.

(d) I accept that the Procurement Authority / Institution has the right to request that the local content be verified in terms of the requirements of SATS 1286:2011.

(e) I understand that the awarding of the bid is dependent on the accuracy of the information furnished in this application. I also understand that the submission of incorrect data, or data that are not verifiable as described in SATS 1286:2011, may result in the Procurement Authority / Institution imposing any or all of the remedies as provided for in Regulation 13 of the Preferential Procurement Regulations, 2011 promulgated under the Preferential Policy Framework Act (PPPFA), 2000 (Act No. 5 of 2000).

SIGNATURE: _____

DATE: _____

WITNESS No. 1 _____

DATE: _____

WITNESS No. 2 _____

DATE: _____

Annex D

Imported Content Declaration - Supporting Schedule to Annex C

(D1) Tender No. _____
 (D2) Tender description: _____
 (D3) Designated Products: _____
 (D4) Tender Authority: _____
 (D5) Tendering Entity name: _____
 (D6) Tender Exchange Rate: _____ Pula _____

Note: VAT to be excluded from all calculations

EU R 9.00

GBP R 12.00

A. Exempted imported content

| Tender Item no's | Description of imported content | Local supplier | Overseas Supplier | Calculation of imported content | | | | | | Summary | |
|--|---------------------------------|----------------|-------------------|--|----------------------|------------------------|--------------------------------|---|----------------------------|------------|--------------------|
| | | | | Foreign currency value as per Commercial Invoice | Tender Exchange Rate | Local value of imports | Freight costs to port of entry | All locally incurred landing costs & duties | Total landed cost excl VAT | Tender Qty | Exempted imp value |
| (D7) | (D8) | (D9) | (D10) | (D21) | (D12) | (D13) | (D14) | (D15) | (D16) | (D17) | (D18) |
| | | | | | | | | | | | |
| (D19) Total exempt imported value | | | | | | | | | | | |

This total must correspond with Annex C - C 21

B. Imported directly by the Tenderer

| Tender item no's | Description of imported content | Unit of measure | Overseas Supplier | Calculation of imported content | | | | | | Summary | |
|---|---------------------------------|-----------------|-------------------|--|-------------------------|------------------------|--------------------------------|---|----------------------------|------------|------------------|
| | | | | Foreign currency value as per Commercial Invoice | Tender Rate of Exchange | Local value of imports | Freight costs to port of entry | All locally incurred landing costs & duties | Total landed cost excl VAT | Tender Qty | Total Imported v |
| (D20) | (D21) | (D22) | (D23) | (D24) | (D25) | (D26) | (D27) | (D28) | (D29) | (D30) | (D31) |
| | | | | | | | | | | | |
| (D32) Total Imported value by tenderer | | | | | | | | | | | |

C. Imported by a 3rd party and supplied to the Tenderer

| Description of imported content | Unit of measure | Local supplier | Overseas Supplier | Calculation of imported content | | | | | | Summary | |
|--|-----------------|----------------|-------------------|--|-------------------------|------------------------|--------------------------------|---|----------------------------|-------------------|-------------------|
| | | | | Foreign currency value as per Commercial Invoice | Tender Rate of Exchange | Local value of Imports | Freight costs to port of entry | All locally incurred landing costs & duties | Total landed cost excl VAT | Quantity Imported | Total Imported va |
| (D33) | (D34) | (D35) | (D36) | (D37) | (D38) | (D39) | (D40) | (D41) | (D42) | (D43) | (D44) |
| | | | | | | | | | | | |
| (D45) Total imported value by 3rd party | | | | | | | | | | | |

D. Other foreign currency payments

| Type of payment | Local supplier making the payment | Overseas beneficiary | Calculation of foreign currency payments | | Summary of payments |
|---|-----------------------------------|----------------------|--|-------------------------|-------------------------|
| | | | Foreign currency value paid | Tender Rate of Exchange | |
| (D46) | (D47) | (D48) | (D49) | (D50) | Local value of payments |
| | | | | | (D51) |
| | | | | | |
| (D52) Total of foreign currency payments declared by tenderer and/or 3rd party | | | | | |

Signature of tenderer from Annex B _____

Date: _____

(D53) Total of imported content & foreign currency payments - (D32), (D45) & (D52) above

This total must correspond with Annex C - C 23

CONTRACT FORM - RENDERING OF SERVICES

THIS FORM MUST BE FILLED IN DUPLICATE BY BOTH THE SERVICE PROVIDER (PART 1) AND THE PURCHASER (PART 2). BOTH FORMS MUST BE SIGNED IN THE ORIGINAL SO THAT THE SERVICE PROVIDER AND THE PURCHASER WOULD BE IN POSSESSION OF ORIGINALLY SIGNED CONTRACTS FOR THEIR RESPECTIVE RECORDS.

PART 1 (TO BE FILLED IN BY THE SERVICE PROVIDER)

1. I hereby undertake to render services described in the attached bidding documents to (name of the institution)..... in accordance with the requirements and task directives / proposals specifications stipulated in Bid Number..... at the price/s quoted. My offer/s remain binding upon me and open for acceptance by the Purchaser during the validity period indicated and calculated from the closing date of the bid .

2. The following documents shall be deemed to form and be read and construed as part of this agreement:
 - (i) Bidding documents, viz
 - Invitation to bid;
 - Tax clearance certificate;
 - Pricing schedule(s);
 - Filled in task directive/proposal;
 - Preference claims for Broad Based Black Economic Empowerment Status Level of Contribution in terms of the Preferential Procurement Regulations 2011;
 - Declaration of interest;
 - Declaration of bidder’s past SCM practices;
 - Certificate of Independent Bid Determination;
 - Special Conditions of Contract;
 - (ii) General Conditions of Contract; and
 - (iii) Other (specify)

3. I confirm that I have satisfied myself as to the correctness and validity of my bid; that the price(s) and rate(s) quoted cover all the services specified in the bidding documents; that the price(s) and rate(s) cover all my obligations and I accept that any mistakes regarding price(s) and rate(s) and calculations will be at my own risk.

4. I accept full responsibility for the proper execution and fulfilment of all obligations and conditions devolving on me under this agreement as the principal liable for the due fulfillment of this contract.

5. I declare that I have no participation in any collusive practices with any bidder or any other person regarding this or any other bid.

6. I confirm that I am duly authorised to sign this contract.

NAME (PRINT)

CAPACITY

SIGNATURE

NAME OF FIRM

DATE

WITNESSES

1

2

DATE:

CONTRACT FORM - RENDERING OF SERVICES
PART 2 (TO BE FILLED IN BY THE PURCHASER)

1. I..... in my capacity as..... accept your bid under reference numberdated.....for the rendering of services indicated hereunder and/or further specified in the annexure(s).
2. An official order indicating service delivery instructions is forthcoming.
3. I undertake to make payment for the services rendered in accordance with the terms and conditions of the contract, within 30 (thirty) days after receipt of an invoice.

| DESCRIPTION OF SERVICE | PRICE (ALL APPLICABLE TAXES INCLUDED) | COMPLETION DATE | B-BBEE STATUS LEVEL OF CONTRIBUTION | MINIMUM THRESHOLD FOR LOCAL PRODUCTION AND CONTENT (if applicable) |
|------------------------|---------------------------------------|-----------------|-------------------------------------|--|
| | | | | |

4. I confirm that I am duly authorised to sign this contract.

SIGNED ATON.....

NAME (PRINT)

SIGNATURE

OFFICIAL STAMP

WITNESSES

1

2

DATE:

DECLARATION OF BIDDER'S PAST SUPPLY CHAIN MANAGEMENT PRACTICES

- 1 This Standard Bidding Document must form part of all bids invited.
- 2 It serves as a declaration to be used by institutions in ensuring that when goods and services are being procured, all reasonable steps are taken to combat the abuse of the supply chain management system.
- 3 The bid of any bidder may be disregarded if that bidder, or any of its directors have-
 - a. abused the institution's supply chain management system;
 - b. committed fraud or any other improper conduct in relation to such system; or
 - c. failed to perform on any previous contract.
- 4 **In order to give effect to the above, the following questionnaire must be completed and submitted with the bid.**

| Item | Question | Yes | No |
|-------|--|---------------------------------|--------------------------------|
| 4.1 | <p>Is the bidder or any of its directors listed on the National Treasury's Database of Restricted Suppliers as companies or persons prohibited from doing business with the public sector? (Companies or persons who are listed on this Database were informed in writing of this restriction by the Accounting Officer/Authority of the institution that imposed the restriction after the <i>audi alteram partem</i> rule was applied).</p> <p>The Database of Restricted Suppliers now resides on the National Treasury's website(www.treasury.gov.za) and can be accessed by clicking on its link at the bottom of the home page.</p> | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 4.1.1 | If so, furnish particulars: | | |
| 4.2 | <p>Is the bidder or any of its directors listed on the Register for Tender Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No 12 of 2004)? The Register for Tender Defaulters can be accessed on the National Treasury's website (www.treasury.gov.za) by clicking on its link at the bottom of the home page.</p> | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 4.2.1 | If so, furnish particulars: | | |
| 4.3 | <p>Was the bidder or any of its directors convicted by a court of law (including a court outside of the Republic of South Africa) for fraud or corruption during the past five years?</p> | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 4.3.1 | If so, furnish particulars: | | |

| | | | |
|-------|---|---------------------------------|--------------------------------|
| 4.4 | Was any contract between the bidder and any organ of state terminated during the past five years on account of failure to perform on or comply with the contract? | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 4.4.1 | If so, furnish particulars: | | |

SBD 8

CERTIFICATION

**I, THE UNDERSIGNED (FULL NAME).....
CERTIFY THAT THE INFORMATION FURNISHED ON THIS DECLARATION
FORM IS TRUE AND CORRECT.**

**I ACCEPT THAT, IN ADDITION TO CANCELLATION OF A CONTRACT,
ACTION MAY BE TAKEN AGAINST ME SHOULD THIS DECLARATION
PROVE TO BE FALSE.**

.....
Signature

.....
Date

.....
Position

.....
Name of Bidder

Js365bW

CERTIFICATE OF INDEPENDENT BID DETERMINATION

- 1 This Standard Bidding Document (SBD) must form part of all bids¹ invited.
- 2 Section 4 (1) (b) (iii) of the Competition Act No. 89 of 1998, as amended, prohibits an agreement between, or concerted practice by, firms, or a decision by an association of firms, if it is between parties in a horizontal relationship and if it involves collusive bidding (or bid rigging).² Collusive bidding is a *pe se* prohibition meaning that it cannot be justified under any grounds.
- 3 Treasury Regulation 16A9 prescribes that accounting officers and accounting authorities must take all reasonable steps to prevent abuse of the supply chain management system and authorizes accounting officers and accounting authorities to:
 - a. disregard the bid of any bidder if that bidder, or any of its directors have abused the institution's supply chain management system and or committed fraud or any other improper conduct in relation to such system.
 - b. cancel a contract awarded to a supplier of goods and services if the supplier committed any corrupt or fraudulent act during the bidding process or the execution of that contract.
- 4 This SBD serves as a certificate of declaration that would be used by institutions to ensure that, when bids are considered, reasonable steps are taken to prevent any form of bid-rigging.
- 5 In order to give effect to the above, the attached Certificate of Bid Determination (SBD 9) must be completed and submitted with the bid:

¹ includes price quotations, advertised competitive bids, limited bids and proposals.

² Bid rigging (or collusive bidding) occurs when businesses, that would otherwise be expected to compete, secretly conspire to raise prices or lower the quality of goods and / or services for purchasers who wish to acquire goods and / or services through a bidding process. Bid rigging is, therefore, an agreement between competitors not to compete.

CERTIFICATE OF INDEPENDENT BID DETERMINATION

I, the undersigned, in submitting the accompanying bid:

_____ (Bid Number and Description)

in response to the invitation for the bid made by:

_____ (Name of Institution)

do hereby make the following statements that I certify to be true and complete in every respect:

I certify, on behalf of: _____ that:

(Name of Bidder)

1. I have read and I understand the contents of this Certificate;
2. I understand that the accompanying bid will be disqualified if this Certificate is found not to be true and complete in every respect;
3. I am authorized by the bidder to sign this Certificate, and to submit the accompanying bid, on behalf of the bidder;
4. Each person whose signature appears on the accompanying bid has been authorized by the bidder to determine the terms of, and to sign the bid, on behalf of the bidder;
5. For the purposes of this Certificate and the accompanying bid, I understand that the word "competitor" shall include any individual or organization, other than the bidder, whether or not affiliated with the bidder, who:

- (a) has been requested to submit a bid in response to this bid invitation;
- (b) could potentially submit a bid in response to this bid invitation, based on their qualifications, abilities or experience; and
- (c) provides the same goods and services as the bidder and/or is in the same line of business as the bidder

6. The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However communication between partners in a joint venture or consortium³ will not be construed as collusive bidding.
7. In particular, without limiting the generality of paragraphs 6 above, there has been no consultation, communication, agreement or arrangement with any competitor regarding:
 - (a) prices;
 - (b) geographical area where product or service will be rendered (market allocation)
 - (c) methods, factors or formulas used to calculate prices;
 - (d) the intention or decision to submit or not to submit, a bid;
 - (e) the submission of a bid which does not meet the specifications and conditions of the bid; or
 - (f) bidding with the intention not to win the bid.
8. In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications and conditions or delivery particulars of the products or services to which this bid invitation relates.
9. The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.

³ Joint venture or Consortium means an association of persons for the purpose of combining their expertise, property, capital, efforts, skill and knowledge in an activity for the execution of a contract.

SBD 9

10. I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No 89 of 1998 and or may be reported to the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

.....
Signature

.....
Date

.....
Position

.....
Name of Bidder

Js914w 2