



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/1819/636 | VALIDITY PERIOD OF QUOTATION..... Days (To be completed by the Supplier) |
| CLOSING DATE: 25/10/2018 | CLOSING TIME:11H00 |
| DESCRIPTION(SPECIFICATION/S) OF ITEMS/ SERVICE REQUIRED: SUPPLY, DELIVER, OFFLOAD AND INSTALL IRRIGATION SYSTEM TO LAVENGA PROJECT AT IZOTSHA SEE ATTACHED SPEC | 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 SUBMITTED BACK TO THE DEPARTMENT BY THE SUPPLIER |(Supplier to complete) |

NB: QUOTATION FOR THE ATTENTION OF: SAMKELISO ZITHA

TELEPHONE NUMBER: 033 343 8104

**DOCUMENTS TO BE DEPOSITED AT THE BID BOX AT CEDARA: DEPARTMENT OF AGRICULTURE
AND RURAL DEVELOPMENT, 1 CEDARA ROAD**

NB: THE ATTACHED SBD4 & SBD9 FORMS MUST BE COMPLETED IN FULL. THIS REQUEST FOR QUOTATION (RFQ) MUST BE COMPLETED AND RETURNED WITH ALL YOUR QUOTATION DOCUMENTS.

COMPANY NAME :
 ADDRESS :
 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 |
| | To supply, deliver, offload material & install irrigation system to Lavenga Project at Izotsha (20 km from Port Shepstone) | | | | | |
| 1 | See attached design & bill of quantities. | | | | | |
| * LABOUR (IF APPLICABLE) | | | | | | |
| *DELIVERY (IF APPLICABLE) | | | | | | |
| TOTAL | | | | | | |
| *ONLY APPLICABLE TO VAT REGISTERED SUPPLIERS 15% VAT | | | | | | |
| TOTAL PRICE | | | | | | |

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

When Required (Requester): 01 August 2018

Where Required (Requester): Lavenga Project in Izotsha area 20 km from Port Shepstone

Contact details of requester: AN Cwele / AN Nzimakwe

TEL : 0768216382

(COMPULSORY)

COMPANY STAMP

DAYS

PRICES ARE VALID FOR.....

SIGNATURE

.....

DATE



**agriculture
& rural development**

Department:
agriculture
& rural development
PROVINCE OF KWAZULU-NATAL

**BID SPECIFICATION FOR THE
SUPPLY, DELIVERY AND INSTALLATION OF
IRRIGATION SYSTEM FOR LAVANGA FARM**

1. This document must be read in conjunction with Drawings (See Table of Contents). If the contractor has the impression that the information provided in the drawing(s) and the technical specifications/Schedule of quantities contradict each other or are perceived to be ambiguous, (s)he should point this out to the Engineer and ask for clarification at an early stage, but not later than before the commencement of any implementation. The same applies for purported differences between the technical specifications and schedule of quantities.
2. The TSS/Engineering Services (TES) takes no responsibility for projects implemented on the basis of this document alone without any prior involvement of TES before (partial) completion. This involvement consists of, but is not necessarily restricted to:
 - a. Signing off of the bid/quote document and Drawings by TES;
 - b. Presence of TES at the handover of the site to the contractor and at the commencement of the work. The contractor is to make sure that TES is informed of his/her intention to commence the work so that TES presence can be assured.
 - c. Supply to the contractor by TES of A3 sized plans. The drawings supplied with this document are for quoting/bidding purposes only and no implementation should take place before the contractor has received the bigger sized plans.
 - d. Regular site inspections by TES and the processing of invoices on the basis of achieved progress.
3. District managers and other departmental end users are therefore required to involve TES at the earliest possible stage, i.e. during PPC meetings or before submission of the request memo is submitted.

Table of Contents:

| No. | Section | Pages | Read/ Complete |
|-----|--|---------|----------------|
| 1 | Cover Page | 1 | Read |
| 2 | A - Project Particulars | 2 | Read |
| 3 | B - General Conditions of Contract | 2 - 4 | Read |
| 4 | C - Project Technical Specifications | 5 - 7 | Read |
| 5 | ANNEXURE A: Irrigation Layout drawing | 8 | Read |
| 6 | ANNEXURE B: Pump house drawing | 9 | Read |
| 7 | ANNEXURE C : Pricing Summary | 10 - 11 | Complete |
| 8 | ANNEXURE D : References & Evaluation of bids | 12 - 13 | Complete |



A) PROJECT PARTICULARS



1) SCOPE

The contract covers the supply of all irrigation material including pump unit, pump house, piping, fittings and full installation of irrigation system for this project.

2) ACCESS TO SITE

The site is in the Ugu district, the closest town is Gamalakhe. The co ordinates are:
30 46' 07" S, 30 23' 18" E.



B) GENERAL CONDITIONS OF CONTRACT



1) BIDDERS TO CHECK COMPLETENESS OF DOCUMENT

- 1.1 The bidder is required to check the number of consecutively numbered pages and should any found to be missing or in duplicate, or the text of figures indistinct, or should there be any doubt or obscurity as to the meaning of any part of these documents, the bidder must ascertain the true meaning or intent of the same prior to the submission of his/her tender, as no claims arising from any incorrect interpretation will be admitted.

2) VALIDITY

- 2.1 All prices must be valid for a period of **four months (120 days)** from the closing date of the tender.

3) FIXED PRICE CONTRACT

- 3.1 The contract shall not be subject to contract price adjustment. Bidders must therefore allow for any price increases during the contract duration, including possible delays in awarding the tender in accordance with the validity period.

4) PRICING (SEE ANNEXURE C – PRICING SCHEDULE)



- 4.1 All items as described in the project specification are to be priced in full. If a bidder does not tender on all items, his/her tender may be rejected.
- 4.2 Per item prices to exclude VAT.
- 4.3 Transport/Delivery costs must be included in the pricing. It must **not** be a separate item.
- 4.5 The tendered price must have your company stamp, date and be signed by an authorised person.

5) PENALTY CLAUSE

- 5.1 Refer to the breach of contract and penalty clauses in ZNT 6, condition 4, section B.

6) GENERAL

- 6.1 An amount of R111,000 excluding VAT has been allocated for the purpose of any ancillary work and for any material that may have been omitted but is required to implement the structure (*See Annexure C item 4.1*). As there may be surplus material due to possible adjustments in the design, these items will be credited prior to the use of this amount. Please note that any un-scoped work or unlisted materials must be motivated for and is for the written approval of the Departmental Engineer.
- 6.2 This amount is for reimbursement for additional works only and is based on supporting documentation including the original supplier's invoices which must be supplied to substantiate the claims (A 10% markup will be allowed). This amount is thus **not** automatically part of the contract amount but will only be available for **works and/or materials** that are not in the specification but are necessary for contract completion.

7) WARRANTY

- 7.1 All workmanship must carry a warranty of one year from the date of completion and handover of the works.

8) APPLICABLE STANDARDISED SPECIFICATIONS

- 8.1 For the purpose of this Contract the relevant SABS/SANS specifications shall apply. All materials to be SABS/SANS approved and installed to applicable standards specified by SABS or the manufacturer.

9) PAYMENTS

- 9.1 All deliveries are to be checked by a departmental representative prior to installation and certified accordingly. No payment will be made separately for the supply and delivery of materials only. Payments will only be made after the relevant phase has been completed and inspected by the Engineer. The maximum number of payments will be 10.

10) RETENTION

- 10.1 A 15% retention will be withheld on payment for the first two construction phases. The Department will pay out two-thirds of this retention, or 10% of tender value, as part of the third payment, at **practical completion** of the works. The remainder, viz 5%, will be paid out at **final completion** after expiry of the defect liability period (90 days after practical completion), the bidder having eliminated all defects.

11) SERVICE LEVEL AGREEMENT

- 11.1 The successful bidder and the Department will sign a Service Level Agreement prior to commencement of works.

12) SITE FACILITIES AVAILABLE



12.1 WATER AND SERVICES

There is no telephone connection, power or water available on site. The Contractor shall make the necessary arrangements for the provision of water and services required at the contractors own cost.

For unskilled work, the assistance of local farmers can be utilized at the contractor's costs and all negotiations with the community members will be the contractor's responsibility and not the Departments. The contractor will **not** be permitted to employ local skilled labour. He shall provide his own skilled labour.

12.2 LOCATION OF CAMP

The Contractor's camp may be erected on the site of the works. No persons other than a night watchman may sleep in the camp without the approval of the local Nkosi.

12.3 HOUSING OF CONTRACTOR'S EMPLOYEES

No housing is available for the Contractor's employees and the Contractor shall make his own arrangement for housing his employees and transporting them to and from the site. However it may be possible to arrange temporary local accommodation for the contractor's staff with the local Nkosi.

The Contractor is in all respects responsible for the housing and transporting of his employees, and for the arrangement thereof, and no extension of time due to any delays resulting from this, will be granted.

12.4 SAFETY

All safety measures including the provision of the Machinery and Occupational Safety Act (Act 6 of 1983) are to be adhered to.

13) DELIVERY OF MATERIALS

13.1 Material must be delivered **within three weeks** of receiving an official order, unless the Department indicates that delivery within this period is not desirable due to delays in the project.

14) ABNORMAL RAINFALL

14.1 The Contractor shall keep daily rainfall records and submit it to the Department's representative at every site meeting. No additional payment shall be made for the supply and installation of the rain gauge or for the keeping of the rainfall records and all costs must be included in the scheduled items.

15) 'AS BUILT' DETAILS

15.1 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. No alterations may be made without the written approval of the Departmental Engineer.

16) PROGRAMME

16.1 The work is to be completed **within 2 months of the award of the bid**. The contractor is to supply a work schedule with the proposed times of completion of each phase.



C) PROJECT SPECIFICATION



C.1) DETAILS OF CONTRACT

- C.1.1 The field layout must conform to the design (see Annexure A). However, the Bill of Quantity (Annexure C) attached must be checked and verified by the tenderer. The contractor may, after approval by the departmental representative, make adaptations to the original design if these are deemed to constitute an improvement to the design *and* will not increase the overall cost of the scheme. These proposed changes must be accepted by the Regional Engineer and be confirmed in writing.
- C.1.2 The irrigation layout must be pegged out by contractor and will be checked by departmental representative. Trenches to be dug using suitable plant or local labour. Minimum trench depth must be **600mm**.
- C.1.3 All material to be supplied and delivered to site. Proper security measures must be implemented in consultation with the farmer to safeguard it prior to installation. Alternatively material can be delivered in batches, as and when required. It is the contractor's responsibility to ensure the correct material is delivered and measures are taken to safeguard it until the project is handed over.
- C.1.4 The supply and installation of all irrigation material including pump house and reservoir.
- C.1.5 Surplus material will be retained by the department and should any surplus material be taken by the contractor or material not supplied, payment will be made based on what has been actually used/put in the scheme. All material must be checked by a departmental representative prior to installation and testing. All joints are to be left uncovered for inspection purposes and to be covered after it has been inspected by departmental engineering representative and he/she is satisfied that there are no leaks.
- C.1.6 The scheme must be fully tested and commissioned in the presence of a representative of the Department. **The contractor will remain responsible for the scheme including all materials, and the official hand over and final payment will not take place, until such time that the entire scheme is fully functional and all leaks etc have been repaired.**
- C.1.7 All necessary concrete thrust and anchor blocks are required for the scheme, for the suction and delivery pipes at the pump.
- C.1.8 The Tenderer will be required to satisfy the Department that a sufficient and experienced skilled and semi skilled **labour force** is employed or that sufficient experienced labour can be acquired to complete the services and produce a fair quality of workmanship. **The Tenderer will be required to submit a list of references/ projects (ANNEXURE D: References)** to enable the Department to inspect previously completed work and assess the capacity of the Tenderer. **Furthermore the tenderer will be required to source local subcontractors and labour (see C.6.1).**
- C.1.9 The tenderer should have a minimum CIDB grading of Level 3SH.

C.2) PIPING

- C.2.1 All piping must be SABS or SANS approved and of the correct class.
- C.2.2 All appropriate fittings are to be supplied including any additional material for unforeseen events.
- C.2.3 Equipment, pipes and other materials which are damaged before or during delivery, or during the testing of the scheme before commissioning, are to be replaced by the contractor *at no extra cost to the Department*.

C.3) FITTINGS

- C.3.1 If the required fitting is not standard, it must be made up but, if consisting of more than one part, priced as one item.

C.4) PUMP AND MOTOR

- C.4.1 The pump delivery required is **200m³/h** and the total pumping head is **124m** for the unit (minimum of 75% efficiency required). The proposed pump performance specification including NPSH and efficiency curves **must** be supplied with the tender. **The tender will not be considered if this information is not attached to the tender.**



- C.4.2 The unit (reputable make) must include a suitable variable speed drive electric motor and be direct coupled to the pump (minimum combined efficiency of 65%). Please state make and model of motor on Annexure C. The pump and engine unit should be securely mounted on a suitable galvanized steel frame and suitably fixed (bolted) to the pump house floor slab using raw bolts.
- C.4.3 The contractor is responsible for the correct alignment of both pump and motor unit.
- C.4.4 All necessary fittings, adaptors, reticulation, reducers, pressure gauge, priming funnels, tools etc should be supplied with the unit.
- C.4.5 All electrical, DB's, connections, cabling and accessories to be supplied and connected.
- C.4.6 A neat and accurate drawing indicating the proposed layout of both pumps, motors, pipes and fittings and layout of the works **must** be provided with the tender proposal.

C.5) PUMP HOUSE

- C.5.1 A suitable block pump house is to be constructed away from the flood zone. The position of the pump house will be indicated by a departmental representative and the bank level will have to be adjusted and checked to match the suction head of the pumps. The suction head is not to exceed 2,5m and this is to be checked prior to construction of pump house. The pump unit must be mounted on a concrete slab using suitable anchor bolts.
- C.5.2 Suitable thrust blocks must also be constructed to anchor suction and delivery pipes.

C.6) LABOUR AND TRAINING

- C.6.1 It is required that the trenching, pipe laying and block laying for pump house be subcontracted to local contractors in order to develop local BEE contractors. In the situation where this is not possible local labor must be used (50% of the total labor value). It is required that the subcontractor be paid every two weeks.
- C.6.2 During pipe laying and installation the local farm workers must be intensively involved and trained on all aspects of the reticulation especially with respect to maintenance. The following **extensive** training in the operation and maintenance of the scheme **must** be provided before hand over of the scheme to the beneficiaries:
- Priming of the pump;
 - Operation and basic maintenance of pump, engine, reservoir and scheme,
 - Achieving of the required sprinkler throws (diameters) and operational pressures through (1) the regulation of fuel quantities in the engine (where applicable) and (2) by regulating the flow-rates with the various valves at various levels (mains and laterals);
 - assembling and disassembling of the main parts of the sprinklers;
 - operation of the mobile elements of the system (hooking up of the suction pipes)
 - identification of leaks and basic repairs:
 - of leaks in above ground sub-laterals with duct tape (temporary);
by replacing the broken section with a coupling and/or new piping
 - of leaks in laterals around saddles and through breakage.

C.7) HEALTH & SAFETY

- C.7.1 The Occupational Health and Safety Act, Act 85 of 1993 shall apply to this contract. The Contractor shall comply with the Particular Specification for Occupational Health and Safety. All safety equipment required to construct the facility are for the contractor's responsibility and provisioning. Examples include: safety and protective clothing; sound scaffolding; falsework and bracing; ladders etc... all equipment, tools, offloading and safety equipment are to be in a safe operating condition and all necessary safety procedures are to be adopted where appropriate.
- C.7.2 The Safety of the public must be of prime importance and the utmost care must be taken to ensure that the correct signs, barriers and warning devices are in place. Any movement of construction equipment must be controlled on site at all times.



C.7.3 The Contractor shall, in preparation of his Health and Safety Plan, familiarise him/herself with emergency services in the location of the Works and with the local infrastructure, e.g. clinics, hospitals, police services, ambulance services, fire protection services and disaster management centres, to such extent that he/she is conversant with these, should the need arise.

Telephone numbers of all emergency services to be permanently displayed at the site camp, in a convenient and prominent position, wherever possible, close to a telephone.

C.7.4 Should the Contractor at any stage in execution of the Works:

- a) fail to implement or maintain his health and safety plan;
- b) execute construction work which is not in accordance with his health and safety plan; or
- c) act in any way which may pose a threat to the health and safety of persons,

the Engineer will, by written order, suspend the progress of the Works. The Contractor shall, during such suspension, properly protect the Works so far as is necessary.

C.7.5 The Contractor shall provide proof of his registration and good standing with the Compensation Fund, or with a licensed compensation insurer, prior to commencement with the Works.

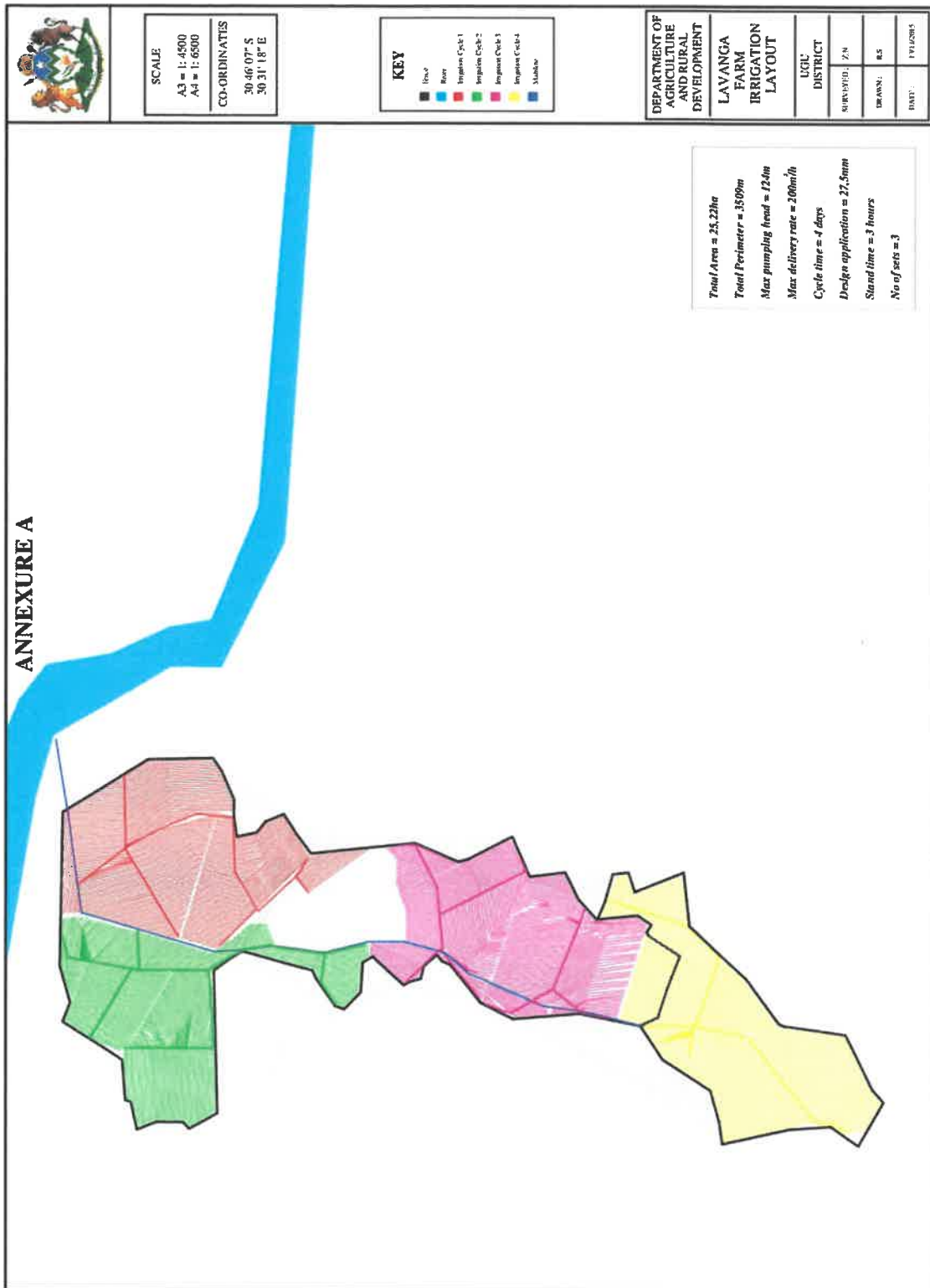
C.7.6 The Contractor shall, in submitting his tender, demonstrate that he has made provision for the cost of compliance with the specified health and safety requirements, the Act and the Construction Regulations, all in terms of sub-clause 4(1)h of the Construction Regulations. The costs of compliance shall clearly be demonstrated separately under the appropriate item on Annexure C, 4.2.

C.7.7 The Contractor shall provide and demonstrate to the Employer a suitable and sufficiently documented health and safety plan, in compliance with the Act and the Regulations, which shall be applied from the date of commencement of and for the duration of execution of the Works.

C.8) COMPULSORY INFORMATION REQUIRED:

The tenderer is to attach the following information with their tender:

| INFORMATION AND DOCUMENTATION | FOR OFFICE USE ONLY | |
|----------------------------------|---------------------|----|
| | YES | NO |
| • Annexure C fully completed. | | |
| • Annexure D fully completed. | | |
| • Proof of CIDB grade. | | |
| • All other necessary documents. | | |





ANNEXURE B

ROOF DETAIL

SCALE 1:20

SIDE VIEW

SCALE 1:50

PLAN VIEW

FRONT ELEVATION

SECTION A-A

SCALE 1:50

NOTES

- * ROOF TO BE SAVED BY IMPROPERLY SECURED TO WALL
- * BRICKWORK TO BE PROPERLY REPAIR TO WALL
- * USE 1:500 BLENDED SANDS 20% S.F. 10%
- * FOR ALL CLAD WORKS TO BE ON ENLARGED AC BRICKS PAVING BLOCK
- * REP FOR BRICKWORK
- * FOR BRICKWORK TO BE WITH 10% STRENGTH IN ALL DIRECTIONS WALL P.W. 2.
- * Name COVER FOR BRICKWORK
- * MORTAR Concrete Sand Stone 4:1:3 by Mass
- * FOUNDATION 1:2:4 4:1:3 by Mass
- * 75mm BRICK WITH 10% STRENGTH
- * STEELWORK SHALL BE WITH PRELAP CRUISED AND LOCK IF MUST BE AS PER THAT IT WILL BE CONNECTED TO WALL AND THAT CORRECT BRICK PLACING. ALL WORKS WILL BE REFERRED TO BE ACCORDING TO METHODS RECOMMENDED BY THE S.C.E.P.
- * ALL WORKS WITH 10% STRENGTH ACCEPTABLE IN BUILDING STANDARDS
- * ALL WORKS SHALL BE SUPPLIED TO BE SUBSANSANALY.
- * CONTRACTOR MUST BE RESPONSIBLE FOR ORDER AND DELIVERY THESE ITEMS ARE INSTALLED FOR A GREAT FINISH THE POSITION OF THE ITEMS ARE TO BE DETERMINED ON THE

BILL OF QUANTITY

| DESCRIPTION | UNIT | QTY |
|---|----------------|-----|
| ROOF TO BE SAVED BY IMPROPERLY SECURED TO WALL | m ² | 10 |
| BRICKWORK TO BE PROPERLY REPAIR TO WALL | m ² | 10 |
| USE 1:500 BLENDED SANDS 20% S.F. 10% | m ³ | 10 |
| FOR ALL CLAD WORKS TO BE ON ENLARGED AC BRICKS PAVING BLOCK | m ² | 10 |
| REP FOR BRICKWORK | m ² | 10 |
| FOR BRICKWORK TO BE WITH 10% STRENGTH IN ALL DIRECTIONS WALL P.W. 2. | m ² | 10 |
| Name COVER FOR BRICKWORK | m ² | 10 |
| MORTAR Concrete Sand Stone 4:1:3 by Mass | m ³ | 10 |
| FOUNDATION 1:2:4 4:1:3 by Mass | m ³ | 10 |
| 75mm BRICK WITH 10% STRENGTH | m ² | 10 |
| STEELWORK SHALL BE WITH PRELAP CRUISED AND LOCK IF MUST BE AS PER THAT IT WILL BE CONNECTED TO WALL AND THAT CORRECT BRICK PLACING. ALL WORKS WILL BE REFERRED TO BE ACCORDING TO METHODS RECOMMENDED BY THE S.C.E.P. | m ² | 10 |
| ALL WORKS WITH 10% STRENGTH ACCEPTABLE IN BUILDING STANDARDS | m ² | 10 |
| ALL WORKS SHALL BE SUPPLIED TO BE SUBSANSANALY. | m ² | 10 |
| CONTRACTOR MUST BE RESPONSIBLE FOR ORDER AND DELIVERY THESE ITEMS ARE INSTALLED FOR A GREAT FINISH THE POSITION OF THE ITEMS ARE TO BE DETERMINED ON THE | m ² | 10 |

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

ENGINEERING AND SOIL CONSERVATION: SOUTH REGION

TITLE: PROPOSED PUMP HOUSE DESIGN

DRAWING NO: 2015/00/RR CHECKED: E. KOCH

DRAWN: R. SAYED DATE: 1/08/2012



| Annexure C.1 : Price of irrigation material, pump unit and pump house | | | | | |
|---|--|--------|-------|------|--------|
| ITEM NO | DESCRIPTION | UNIT | QTY | RATE | AMOUNT |
| 1 | Piping (must be SABS or SANS approved) | | | | |
| 1.1 | 200mm uPVC C12 piping (6m lengths) | length | 72 | | |
| 1.2 | 200mm uPVC C9 piping (6m lengths) | length | 25 | | |
| 1.3 | 200mm uPVC C6 piping (6m lengths) | length | 420 | | |
| 1.4 | 160mm uPVC C6 piping (6m lengths) | length | 115 | | |
| 1.5 | 110mm uPVC C6 piping (6m lengths) | length | 107 | | |
| 1.6 | 75mm uPVC C6 piping (6m lengths) | length | 40 | | |
| 1.7 | 40mm LDPE piping (100m rolls) | rolls | 296 | | |
| 1.8 | 32mm LDPE piping (100m rolls) | rolls | 222 | | |
| 1.9 | 25mm LDPE piping (100m rolls) | rolls | 222 | | |
| 2 | Fittings and connections | | | | |
| 2.1 | 200mm equal tee | no | 14 | | |
| 2.2 | 200mm elbow | no | 7 | | |
| 2.3 | 200mm endcaps | no | 1 | | |
| 2.4 | 160mm endcaps | no | 2 | | |
| 2.5 | 110mm endcaps | no | 17 | | |
| 2.6 | 25mm polyprop end plugs | no | 1205 | | |
| 2.7 | 200x 160mm reducer | no | 4 | | |
| 2.8 | 160x 110mm reducer | no | 5 | | |
| 2.9 | 110x 75mm reducer | no | 3 | | |
| 2.10 | 200mm x 40mm saddles | no | 1205 | | |
| 2.11 | 40mm polyprop male adaptors | no | 1205 | | |
| 2.12 | 40x 32mm polyprop reducer coupling | no | 2410 | | |
| 2.13 | 32x 25mm polyprop reducer coupling | no | 2410 | | |
| 2.14 | 40mm clamps | no | 3615 | | |
| 2.15 | 32mm clamps | no | 4820 | | |
| 2.16 | 25mm clamps | no | 3615 | | |
| 2.17 | Micro sprinklers with 1,1mm nozzle (40l/h @10m with medium range swivel) | no | 49400 | | |
| 2.18 | 1,2mm micro tubes | no | 49400 | | |
| 2.19 | Riser stake for sprinklers | no | 49400 | | |
| 2.20 | Pegs to anchor sprinklers | no | 49400 | | |
| 2.21 | Suitable Control Valves | sum | sum | | |
| 2.22 | Suitable Disc Filters | sum | sum | | |
| 3 | Pump house, unit and fittings | | | | |
| 3.1 | Suitable (Grundfos, KSB or similar approved) variable speed drive pump (124m@200m ³ /h) | no | 1 | | |
| 3.2 | 125KW Electric motor to suit above pump (pump and motor to be directly coupled) | no | 1 | | |
| 3.3 | Suitable steel base plate and bolts to mount pump | no | 1 | | |
| | Pump house material to accommodate above unit (3.6 - 3.18) | | | | |
| 3.4 | Suitable steel door with steel frame | no | 1 | | |
| 3.5 | Suitable burglar guard for entrance | no | 1 | | |
| 3.6 | Padlock, hasp and staple or equivalent | no | 2 | | |
| 3.7 | Brickforce (0,075mm) (in rolls) | no | 4 | | |
| 3.8 | Ref 888 reinforcing (6,4m x 2,4m) (in square metres) | no | 19 | | |
| 3.9 | Ref 100 reinforcing (3,6m x 3,6m) (in square metres) | no | 15 | | |
| 3.10 | M150 Blocks | no | 550 | | |
| 3.11 | Cement (50kg pockets) | no | 60 | | |
| 3.12 | Sand (m ³) | no | 7 | | |
| 3.13 | Stone (19mm) (m ³) | no | 6 | | |
| 3.14 | 8" Galvanized steel pipe, 3m length with flanged ends (including bolts and nuts) | length | 3 | | |
| 3.15 | 8" Galvanized steel bend, 45 degree with flanged ends (including bolts and nuts) | no | 2 | | |
| 3.16 | 8" Galvanized steel pipe, 2m length with welded flanged end | length | 2 | | |
| 3.17 | 200mm x 8" flanged adaptor | no | 2 | | |
| Total (excluding VAT)carry over to next page | | | | | |



| Annexure C.2 : Price of irrigation material, pump unit and pump house | | | | | |
|---|--|--------|------|-----------|-----------|
| ITEM NO | DESCRIPTION | UNIT | QTY | RATE | AMOUNT |
| Total (excluding VAT)brought forward from previous page | | | | | |
| 3 | Pump house, unit and fittings | | | | |
| 3.18 | 8" non-return valve (swing-check valve) | no | 1 | | |
| 3.19 | Flomax strainer including footvalve (with flanged end) | no | 1 | | |
| 3.20 | Concrete (m ³) for anchor and thrust blocks | no | 3 | | |
| 3.21 | Heavy duty cabling, 16mm x 4 core (transformer to pumphouse) (metres) | length | 100 | | |
| 3.22 | 125KW Star Delta starter panel to include (3.22.1 - 3.22.7) | no | 1 | | |
| 3.22.1 | Timer, 24hour | no | 1 | | |
| 3.22.2 | High Pressure switch (Klochner Moeller or similar approved) | no | 1 | | |
| 3.22.3 | Pressure switch bypass | no | 1 | | |
| 3.22.4 | Ammeter | no | 1 | | |
| 3.22.5 | Line monitor relay | no | 1 | | |
| 3.22.6 | Isolator | no | 1 | | |
| 3.22.7 | Cubicle with a hinged lockable door (lock provided) to prevent any unauthorised access, colour finished in electrical orange and to be mounted against the wall. | no | 1 | | |
| 3.23 | Suitable cabling (to link starter unit and pump) (metres) | length | 10 | | |
| 3.24 | Suitable concentric reducer | no | 1 | | |
| 3.25 | Suitable eccentric reducer | no | 1 | | |
| 3.26 | Suitable gate valve (6") | no | 1 | | |
| 3.27 | Suitable air release valve including fittings (installed) | no | 1 | | |
| 3.28 | 100mm glycerin filled (0-1600KPa) Pressure gauge with fittings (fitted near pump) | no | 1 | | |
| 3.29 | Suitable Priming funnel and ball valve (with 1" fittings, to be fitted onto pump for priming purposes) | no | 1 | | |
| 3.30 | Flomax footvalve/strainer | no | 1 | | |
| 3.31 | All nuts, bolts and washers including flange gaskets, rubber seals and gaskets required | sum | sum | | |
| 3.32 | Thread tape | no | 10 | | |
| 3.33 | Extra reducers on pipework to suit pump installation | no | sum | | |
| Bypass from delivery line to pump (for priming) | | | | | |
| 3.34 | 200mm x 1" cast iron saddle | no | 1 | | |
| 3.35 | 1" galvanized steel pipe, 500mm length (tbe) | no | 2 | | |
| 3.36 | 1" galvanized steel elbow (fff) | no | 2 | | |
| 3.37 | 1" galvanized steel pipe, 1m length (tbe) | no | 3 | | |
| 3.38 | 1" galvanized steel sockets | no | 3 | | |
| 3.39 | 1" galvanized steel pipe, 100mm length (tbe) | no | 1 | | |
| 3.40 | 25mm isolating ball valve (Cobra/RSL" or similar approved with steel lever and full bore) | no | 1 | | |
| 3.41 | 1" galvanized nipple (to be welded onto delivery pipe close to pump) | no | 1 | | |
| 4 | Miscellaneous | | | | |
| 4.1 | Ancillary support structures, fittings & couplings (inclusive of 10% markup) | sum | sum | R 111 000 | R 111 000 |
| 4.2 | Provision for health & safety (as per healthy & safety act) | sum | sum | | |
| 4.3 | 500ml Tangit PVC glue | no | 50 | | |
| 5 | Excavation, trenching and backfilling | | | | |
| 5.1 | Excavation of 5m x 4m x 2.5m deep platform for pumphouse (check & match NPSH of pump unit to lowest level) | sum | sum | | |
| 5.2 | Digging of trench to 600mm depth (300mm wide) | metre | 4700 | | |
| 5.3 | Backfilling of trenches after pipelay and inspection | metre | 4700 | | |
| 6 | Labor | | | | |
| 6.1 | Pipelay and installation | no | sum | | |
| 6.2 | Pump house construction and concrete work | no | sum | | |
| 6.3 | All other labor incl off loading of material | no | sum | | |
| 7 | Transport | | | | |
| 7.1 | All transport incl delivery of materials, site visits, transport of labor etc | no | sum | | |
| Total (excluding VAT) | | | | | |
| VAT (for VAT vendors) | | | | | |
| TOTAL | | | | | |



ANNEXURE D: PREFERENCE POINT SYSTEM AND EVALUATION OF BIDS

**Please Note: It is compulsory to fill this form in and return it with your bid.
Failure to do so will result in your bid being disqualified!**

A) Previous work experience:

Have you completed projects of a similar nature in the past 5 years?

YES

NO

Preference will be given to contractors with previous irrigation experience. It is therefore in your own interest to provide relevant information as requested below.

B) List no more than 5 previous irrigation projects installed:

| Name of Project | Project Value | Reference/Contact | Contact Number | Project size |
|-----------------|---------------|-------------------|----------------|--------------|
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

C) Indicate the [number of] and appropriate type of irrigation systems installed in the past 5 years:

Community garden (1-5ha) [] Irrigation scheme (5-50ha) [] Irrigation scheme rehabilitation []

No of ha's [] No of ha's [] No of ha's []

Drip irrigation (specialist) [] Centre pivot(s) [] Portable systems [] Other []

No of ha's [] No of ha's [] No of ha's [] No of ha's []

D) In what capacity were you involved in the irrigation projects? (Tick the appropriate box)

| | | | | |
|------------|----------------|----------|----------------------|--------|
| Contractor | Sub-contractor | Employee | Material supply only | Other: |
|------------|----------------|----------|----------------------|--------|

E) What was your role in the irrigation projects (Tick the appropriate box)

| | | | | |
|-------------------|--------------|------------------|------------------|--------|
| Owner of business | Site Foreman | Skilled labourer | General labourer | Other: |
|-------------------|--------------|------------------|------------------|--------|

F) Capacity to design and install irrigation projects

Which option mostly applies to you ?

Yes / No

| | |
|---|--|
| 1) I currently have one or more teams employed by my company that can install irrigation projects | |
| 2) I have access to temporary labourers with irrigation experience which I will employ | |
| 3) I will have to source labourers to install the irrigation system who will require training | |
| 4) I plan to source an experienced irrigation sub-contractor to install the irrigation | |

Declaration

I hereby verify that all of the information given above is true.

Signed by:

Date

Company stamp



| FOR OFFICE USE ONLY | |
|---|--------------|
| CIDB grading | Score |
| Level 1 | 2 |
| Level 2 | 4 |
| Level 3 | 6 |
| Level 4 | 8 |
| Level 5 or higher | 10 |
| No of previous irrigation projects over the past 5 years | Score |
| 1-2 | 5 |
| 2-5 | 10 |
| 5-10 | 15 |
| 10-15 | 20 |
| 15 or more | 25 |
| Total ha's of irrigation installed over the past 5 years | Score |
| 0-20 | 5 |
| 20-50 | 10 |
| 50-100 | 15 |
| 100-200 | 20 |
| over 200 | 25 |
| Capacity of involvement | Score |
| Irrigation contractor or irrigation sub contractor | 10 |
| Experienced employee | 6 |
| Other type of contractor | 4 |
| Irrigation material supply only | 2 |
| Role played in irrigation contract | Score |
| Specialist or bona fida irrigation company | 10 |
| Irrigation installer | 8 |
| Skilled labour/Foreman | 6 |
| General labour | 2 |
| Capacity to design and install irrigation | Score |
| Specialist irrigation company that can survey, design and install irrigation projects | 20 |
| Specialist or bona fida irrigation company covering drip, centre pivots, portable etc | 20 |
| Currently have one or more teams employed by my company that can install irrigation | 16 |
| Access to temporary labourers with irrigation experience which I will employ | 12 |
| I will have to source labourers to install the irrigation who will require training | 8 |
| I plan to source an experienced irrigation sub-contractor to install the irrigation | 4 |
| NB Category parameters may be adjusted if the number of qualifying contractors in a particular category are either too high or too low | |
| Guide to determine level of irrigation contractor | |
| Level 1 contractor score 1 to 25 | |
| Level 2 contractor score 25 to 40 | |
| Level 3 contractor score 40 to 70 | |
| Level 4 contractor score more than 70 | |
| Guide to determine level of contractor required for project | Level |
| 0 - 1ha | 1 |
| 1 - 5ha | 2 |
| 5 - 50ha | 3 |
| more than 50ha | 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 an advertised competitive bid, a limited bid, a proposal or written price quotation). 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, member):
.....
 - 2.4 Registration number of company, enterprise, close corporation, partnership agreement or trust:
.....
 - 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.

Please clearly indicate, with an 'X' only one box that is applicable to your business or firm

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

| | |
|-----|----|
| YES | NO |
|-----|----|

the appropriate authority to undertake remunerative work outside employment in the public sector?

If yes, did you attach 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.)

2.7.2.1 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 |
|-----|----|

2.9.1 If so, furnish particulars.

.....

.....

2.10 Are you, or any person connected with the bidder, 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?

| | |
|-----|----|
| YES | NO |
|-----|----|

2.10.1 If so, furnish particulars.

.....

.....

2.11 Do you or any of the directors / trustees / shareholders / members of the company have any interest in any other related companies whether or not they are bidding for this contract?

| | |
|-----|----|
| YES | NO |
|-----|----|

2.11.1 If so, furnish particulars:

.....

.....

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

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

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 SHOULD THIS DECLARATION PROVE TO BE FALSE.

.....
Name of bidder

.....
Position

.....
Signature

.....
Date

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 *per 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.
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