



# 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/N/1819/36	VALIDITY PERIOD OF QUOTATION..... Days (To be completed by the Supplier)
CLOSING DATE: 21 SEPTEMBER 2018	CLOSING TIME:11H00
DESCRIPTION(SPECIFICATION/S) OF ITEMS/ SERVICE REQUIRED: <b>To supply , deliver and install 10ha irrigation system Sivelakude Community garden.</b>	COMPANY NAME:  TEL NO: FAX NO:  CONTACT PERSON:  <b>CSD REG NUMBER MAAA.....</b>
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: Bonnie Nzimande  
TELEPHONE NUMBER: 033 355 9568

**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.

**QUOTATIONS MUST BE DEPOSITED IN THE BID BOX SITUATED AT: THE DEPARTMENT OF AGRICULTURE & RURAL DEVELOPMENT: LOT 11634 , ALOE LOOP STREET, VELDENVLEI, RICHARD BAY , OPPOSITE UMHLATHUZE SPORT GROUND**

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
1.	Supply , deliver and install 10ha irrigation system for Sivelakude Community Garden in uMlalazi King Cetshwayo					
2.						
* LABOUR (IF APPLICABLE)						
*DELIVERY (IF APPLICABLE)						
TOTAL						
*ONLY APPLICABLE TO VAT REGISTERED SUPPLIERS 14% VAT						
TOTAL PRICE						

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

When Required (Requester): September 2018  
 Where Required (Requester): Mpumazi under uMlalazi L/M  
 Contact details of requester: S.L. Makhanya  
 TEL : 082 085 2774

**(COMPULSORY)**

COMPANY STAMP

PRICES ARE VALID FOR  30  60  90 DAYS

Mark one Box (X)

SIGNATURE .....

DATE .....

## **TERMS OF REFERENCE**

### **APPOINTMENT OF A SERVICE PROVIDER TO SUPPLY, DELIVER AND INSTALL AN IRRIGATION SYSTEM IN COMPLETION THE PROJECT: SVELAKUDE IRRIGATION (10HA) AT EMPUMAZI AREA UNDER UMLALAZI LOCAL MUNICIPALITY AT KINGCETSHWAYO DISTRICT**

#### **1. BACKGROUND**

- 1.1 Achieving and maintaining high levels of growth in the agricultural sector is a key national policy objective that holds a high priority in the programmes of the KwaZulu-Natal Department of Agriculture and Rural Development (herein after referred to as Department). The Department endeavours to contribute to economic growth within the agricultural sector and in the process promote commercialization in the smallholder farm sector, increase opportunities for skilled and relatively unskilled employment, and increase food security. The Department has therefore prioritized the need to assist resource-poor and emerging farmers with irrigation requirements.

#### **2. OBJECTIVES**

- 2.1 To appoint a suitably qualified Service Provider to supply, deliver and install an irrigation system.
- 2.2 To ensure cost effective, timely and correct supply of Irrigation systems to resource-poor and emerging farmers.
- 2.3 To create sustainable food (crop) production in poverty-stricken rural communities.

#### **3. SCOPE OF SERVICES**

- 3.1 The Department requires a Service Provider that shall supply, deliver and install 10 ha sprinkler irrigation system (complete the project), train beneficiaries and test the system at Eshowe Empumazi area.

## **SPECIAL TERMS AND CONDITIONS**

### **APPOINTMENT OF A SERVICE PROVIDER TO SUPPLY, DELIVER AND INSTALL AN IRRIGATION SYSTEM IN COMPLETION THE PROJECT: SVELAKUDE IRRIGATION (10HA) AT EMPUMAZI AREA UNDER UMLALAZI LOCAL MUNICIPALITY AT KINGCETSHWAYO DISTRICT**

#### **1. INTRODUCTION**

- 1.1 Tenderers must ensure that they are fully aware of all the Terms and Conditions contained in this Quotation document.
- 1.2 Only tenderers that fully meet the prequalification shall be considered.

#### **2. ACCEPTANCE OF QOUTATION**

- 2.1 The Departmental Quotation Adjudication Committee is under no obligation to accept any Quotation.

#### **3. AMENDMENT OF CONTRACT**

- 3.1 Any amendment to or renunciation of the provisions of the contract shall at all times be done in writing and shall be signed by both parties, subject to the Departmental Quotation Adjudication Committee approval.

#### **4. AWARD**

- 4.1 Bidders who meet the prequalification shall be scored on functionality and only bidders with a minimum score of 70 shall be evaluated on price and preference points.

#### **5. BASIS OF QUANTITIES**

- 5.1 Quantities are as reflected on the Bill of Quantities.

#### **6. BBBEE CERTIFICATE**

- 6.1 A bidder claiming BBBEE points must submit a valid BBBEE certificate or a sworn affidavit together with the Quotation.

## **7. CHANGE OF ADDRESS**

- 7.1 Bidders must advise the Departmental Supply Chain Management, Contract Administration should their ownership or address (domicilium citandi et executandi) details change from the time of bidding to the expiry of the contract.

## **8. COMPETENCY OF THE SERVICE PROVIDER**

- 8.1 CIDB 2 SH/CE grading is a requirement for this Quotation.
- 8.2 For evaluation processes, the Department shall apply the evaluation criteria as outlined in the Quotation Evaluation Criteria of this Quotation.
- 8.3 It shall be vital for the appointed supplier to have sufficient financial resources and capacity to finance and execute as per terms and conditions of the contract.

## **9. COMPULSORY SITE BRIEFING MEETING**

- 9.1 A compulsory site briefing meeting will be held with prospective Bidders. Attendance at the meeting will be compulsory and non-attendance shall invalidate any Quotation. The date and time of the meeting will be published in the Quotation Advertisement or, in the case of a quote, be communicated when the prospective service provider is invited to quote.

## **10. COUNTER OFFERS**

- 10.1 Counter offers shall not be considered.

## **11. DELIVERY CONDITIONS**

- 11.1 Delivery of services must be made in accordance with the instructions appearing on the official purchase order.
- 11.2 All deliveries or dispatches must be accompanied by a delivery note stating the official purchase order number against the delivery that has been affected.
- 11.3 In respect of items awarded to them, contractors must adhere strictly to the delivery periods stipulated by them in their Quotation document.
- 11.4 The instructions appearing on the official purchase order form regarding the supply, dispatch and submission of invoices must be strictly adhered to.
- 11.5 All invoices submitted must be original.
- 11.6 Deliveries not complying with the order form shall be returned to the contractor at the contractor's expense.
- 11.7 No locally manufactured product may be substituted during the contract period with an imported product, and vice versa, without prior approval of the Departmental Quotation Adjudication Committee.

## **12. DETAILS OF RELATED CONTRACTS AWARDED TO THE BIDDER PAST/CURRENT (ANNEXURE B)**

- 12.1 The bidder must furnish the following details of all verifiable past and current contracts.
  - (a) Date of commencement of contract/s;
  - (b) Value per contract; and
  - (c) Contract details; that is, with whom held, phone number and address/s of the companies.

## **13. ENTERING OF DEPARTMENTAL OFFICES**

- 13.1 No representative from a company shall be permitted to enter Departmental premises, buildings or containers where stores are kept unless he/ she is accompanied by the responsible official in charge of stores.

## **14. EQUAL QUOTATIONS**

- 14.1 If two or more tenderers score an equal total number of points, the contract must be awarded to the tenderer that scored the highest points for B-BBEE.
- 14.2 If functionality is part of the evaluation process and two or more tenderers score equal total points and equal preference points for B-BBEE, the contract must be awarded to the tenderer that scored the highest points for functionality.
- 14.3 If two or more tenderers score equal total points in all respects, the award shall be decided by the drawing of lots.

## **15. INVOICES**

- 15.1 All invoices submitted by the Contractor must be Tax Invoices indicating quantity ordered and quantity delivered, the amount of tax charged and the total invoice amount.
- 15.2 A tax invoice shall be in the currency of the Republic of South Africa and shall contain the following particulars:
  - (a) The name, address and registration number of the supplier;
  - (b) The name and address of the recipient;
  - (c) An individual serialized number and the date upon which the tax invoice is issued;
  - (d) A description of the goods or services supplied;
  - (e) The quantity or volume of the goods or services supplied
  - (f) The value of the supply, the amount of tax charged and the consideration for the supply; or
  - (g) Where the amount of tax charged is calculated by applying the tax fraction to the consideration, the consideration for the supply and either the amount of the tax charged, or a statement that it includes a charge in respect of the tax and the rate at which the tax was charged

## **16. IRREGULARITIES**

- 16.1 Companies are encouraged to advise the Department timeously of any possible irregularities which might come to their notice in connection with this or other contracts.

## **17. JOINT VENTURES**

- 17.1 In terms of the Preferential Procurement Regulations, 2017 pertaining to the Preferential Procurement Policy Framework Act 5 of 2000, a trust, consortium or joint venture must submit a consolidated BBBEE Status Level Verification Certificate for every separate Quotation.
- 17.2 Should this Quotation be submitted by a joint venture, the joint venture agreement must accompany the Quotation document before the closing date and time of Quotation. The joint venture agreement must clearly specify the percentage of the contract to be undertaken by each company participating therein.
- 17.3 The non-submission of a BBBEE Certificate by a trust, consortium or joint venture shall result in zero (0) preference points being allocated for evaluation purposes.
- 17.4 Each party to a Joint Venture/ Consortium must submit an original valid Tax Clearance Certificate together with the Quotation before the closing date and time of Quotation.
- 17.5 The joint venture or consortium must submit a formal agreement that outlines the roles and responsibilities of each member of the joint venture or consortium, nomination of an authorised person to represent the joint venture or consortium in all matters relating to this Quotation and the details of the bank account for payments to be effected.
- 17.6 The joint venture or consortium must comply with Central Suppliers Database (CSD) registration requirements as per National Treasury directive.

## **18. LATE QUOTATIONS**

- 18.1 Quotations are late if they are received at the address indicated in the Quotation documents after the closing date and time.
- 18.2 A late Quotation shall not be considered and, where practical, shall be returned unopened to the Bidder, accompanied by an explanation.



## **19. NOTIFICATION OF AWARD OF QUOTATION**

19.1 The successful tenderer shall be notified via an advert in the same media as the invitation to tender.

## **20. PAYMENT FOR SUPPLIES AND SERVICES**

20.1 A contractor shall be paid by the Department in accordance with supplies delivered and services rendered.

20.2 Should a contractor indicate a special discount on his/her account provided payment is made within a certain time, the Department shall make every effort to take advantage of such discount.

20.3 Any query concerning the non-payment of accounts must be directed to the Department. The following protocol shall apply if accounts are queried:

- (a) Contact must be made with the officer-in-charge of the District Office;
- (b) If there is no response from the District Office, the Director: Finance must be contacted;

20.4 Information as contained on the Central Suppliers Database must be valid/correct. Non-compliance with Tax Requirements shall affect payment.

## **21. PERIOD OF CONTRACT**

21.1 The contract is ad hoc / once off.

## **22. PREQUALIFICATION CRITERIA**

22.1 Only tenderers who meet both of the following prequalification criteria may respond:-

- (a) **BBBEE level 1 (as per the provisions of section 4(1)(a) of the PPPFA Regulations, 2017); and**
- (b) **EME (as per the provisions of section 4(1)(b) of the PPPFA Regulations, 2017)**

22.2 Tenderers must submit documentary proof of compliance with the above prequalification criteria.

22.3 Tenderers who fail to comply with the above-stipulated prequalification criteria or fail to submit documentary proof of the compliance with the prequalification criteria shall not be considered for this Quotation.

### **23. QUALITY CONTROL/ TESTING OF PRODUCTS**

23.1 The Department reserves the right to inspect and verify the quality and specifications of the supplied irrigation material and equipment, as well as other items listed on the Bill of Quantities, **before** installation. In case of deviations in terms of dimensions, strength, numbers or otherwise, the Contractor shall replace these goods for the correct ones at his/her own expense.

23.2 The same replacement obligation to the Contractor would apply during installation and during and after commissioning. See also clause 2.15 of the PTS.

23.3 In the case of sustained or repeated non-adherence to the specifications of the materials and/or equipment, as well as in the case of general negligence during the implementation process, the contract may be cancelled. The Department will in such cases seek compensation from the contractor for the estimated costs for completion.

23.4 In cases of deliberate negligence or unwillingness to adhere to the Departmental specifications, the Service provider will be reported to the Provincial and/or National Treasury for listing on the Restricted section of the Central Suppliers database.

### **24. SPECIAL CONDITIONS OF CONTRACT**

24.1 This invitation to register on the panel is issued in accordance with the provisions of the Public Finance Management Act (PFMA), Chapter 16 A of the Treasury Regulations and shall be subject to the provisions of the General Conditions of Contract. The special terms and conditions are supplementary to that of the

General Conditions of Contract. Where, however, the special terms and conditions are in conflict with the General Conditions of Contract, the Special Terms and Conditions shall prevail.

## **25. SUPPLIERS DATABASE REGISTRATION**

- 25.1 A bidder submitting an offer must be registered on the Central Suppliers Database at National Treasury. A bidder who has submitted an offer and is not registered on the Central Suppliers Database shall not be considered at the time of award. No pending registrations shall be considered.
- 25.2 A Joint Venture/Consortium must be registered on the Central Suppliers Database at the time of submitting the Quotation.

**NB: IF A BIDDER IS FOUND TO BE EMPLOYED BY THE STATE AND IS ON THE CENTRAL SUPPLIERS DATABASE, THE BIDDER SHALL BE DISQUALIFIED.**

## **26. TAX AND DUTIES**

- 26.1 During quotation stage, prices offered and paid must include all customs, excise and import duties, and any other tariffs or taxes levied by the government or statutory body having jurisdiction on the goods provided under this contract, including Value Added Tax (applicable at the current rate).

## **27. TAX COMPLIANCE PIN**

- 27.1 The bidder must submit a valid Tax Compliance Pin with the Quotation. Bidders should note that their tax compliance status shall be verified through the Central Supplier Database and SARS.
- 27.2 Where a Tax Compliance Pin is not submitted with the Quotation, the Department shall use the Central Supplier Database to verify the tax matters of the bidder.

## **28. UNSATISFACTORY PERFORMANCE**

- 28.1 Unsatisfactory performance occurs when performance is not in accordance with the contract conditions.
- 28.2 The Departmental official shall warn the contractor in writing that action shall be taken in accordance with the contract conditions unless the contractor complies with the contract conditions and delivers satisfactory supplies or services within a specified reasonable time (7 days minimum). If the contractor does not perform satisfactorily despite the warning, the official shall:
- (a) Take action in terms of its his/her delegated powers; and
  - (b) Make a recommendation to the Accounting Officer for cancellation of the contract concerned.
- 28.3 When correspondence is addressed to the contractor, reference shall be made to the contract number/item number/s and an explanation of the complaint.

## **29. VALIDITY PERIOD OF QUOTATION AND EXTENSION THEREOF**

- 29.1 The validity (binding) period for the Quotation shall be 120 days from close of Quotation. However, circumstances may arise whereby the Department may request bidders to extend the validity (binding) period. Should this occur, the Department shall request bidders to extend the validity (binding) period under the same terms and conditions as originally offered for by bidders. This request shall be done before the expiry of the original validity (binding) period.

## **30. VALUE ADDED TAX (VAT)**

- 30.1 Quotation prices must be inclusive of 15% VAT.
- 30.2 Bidders who make taxable supplies in excess of R1 million in any 12-month consecutive period are liable for compulsory VAT registration, but a person may also choose to register voluntarily provided that the minimum threshold of R50 000 (as of 1 March 2010) has been exceeded in the past 12-month period.

Bidders who meet the above requirement must register as VAT vendors, if successful, within one month of award of the Quotation.

- 30.3 For the purposes of calculating preference points, VAT shall not be considered during quotation process.

### **31. SERVICE LEVEL AGREEMENT**

- 31.1 The successful Bidder and the Department will sign a Service Level Agreement prior to commencement of works. A proposed schedule of works must be provided by the contractor for the approval of the Engineer within two weeks of receiving notification of a successful Quotation.
- 31.2 The General Conditions and Technical Specifications as listed in this Quotation document, as well as the Drawings, are deemed to form part of the SLA.

### **32. CONDITIONS OF CONTRACTS FOR CONSTRUCTION WORKS**

- 32.1 The conditions of contract are the "General Conditions of Contract for Construction Works (2nd Edition 2010)" published by the South African Institute of Civil Engineering, Private Bag X200, Halfway House, 1685, Tel: 011 805 5947.
- 32.2 The amplifications of the Special Condition Conditions of Contract for Construction Works shall have precedence in the interpretation of any ambiguity or inconsistency between it and the General Conditions of Contracts for Construction Works.

### **33. AMPLIFICATIONS OF THE GENERAL CONDITIONS OF CONTRACT**

#### **COMMENCEMENT OF THE WORKS**

- 33.1 The Department will organize a site hand-over to the contractor who will then be introduced to the project stakeholders and participants. The site shall only be accessible to contractor staff and Departmental representatives while work is in progress. The site will be handed back at works completion after a final inspection by the Engineer revealed no outstanding patent defects. Site establishment must start within two weeks, and the actual works within three weeks after hand-over of the site, provided that an official order has been issued

and that no exceptional circumstance 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 attenuating circumstances for the delay can be provided, the Department reserves itself the right to cancel the contract and appoint the Contractor who would according to the outcome of the Quotation evaluation would be next in line for an appointment.

### **34. WATER AND POWER**

34.1 If there is no power or piped water available on site. The Contractor shall make the necessary arrangements for the provision of any water and power. No payment will be made for the provision or use of these services and the cost of these shall be included in the Bid/quoted amount.

### **35. LOCATION OF CAMP**

35.1 The Contractor's camps may be erected on the site of the works but must meet the approval of the Engineer, project beneficiaries and landowners. No persons other than a night watchman may sleep in the camp, without the approval of the local relevant Stakeholder.

### **36. HOUSING AND TRANSPORTING OF CONTRACTOR'S EMPLOYEES**

36.1 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 participants. 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.

### **37. LOCAL LABOUR**

37.1 The contractor is encouraged to source unskilled labour from the project participants or local community. The Contractor and the Departmental

representative (Engineer or local Extension officer) may negotiate with the participants in this regard to establish all the conditions for the utilization of the local labour. Nobody besides those directly involved with the project (i.e. the Contractor's workers and local labour) are allowed on site. The Contractor shall provide his own trained and skilled labour. The Contractor will be responsible for all hiring, payment, housing and transport of all labour used for the contract duration.

### **38. SECURITY & RISK**

- 38.1 No one shall be allowed on the construction site after normal working hours except for the necessary security personnel. The Contractor shall be responsible for safeguarding plant, machinery, equipment and materials on site. The contractor shall also be responsible for any lost, damaged or stolen property or materials. Should any of these situations arise; no allocations will be made in terms of finances or time.

### **39. MATERIALS: DELIVERY, ON & OFF-LOADING, STORAGE AND RESPONSIBILITY**

- 39.1 The approved contractor shall be responsible for the safe delivery, loading, off-loading, handling and storage of any equipment and materials on site. All equipment, materials and plant stored on site must be suitably protected against deterioration through any cause whatsoever, including damage or loss by theft or otherwise. The Contractor shall remain fully responsible for all material etc. until the completed works are handed over and has been officially accepted by the Department.

### **40. EXISTING ROADS, MUNICIPAL PAVEMENTS, ETC.**

- 40.1 The Contractor is advised that he/she will be held responsible for any damage to the existing paving, roads, municipal pavements, fences, boundary walls, etc., and will have to repair at his expense.

### **41. DAMAGE TO PROPERTY**

- 41.1 If the Contractor or his/her employees, while engaged in the execution of the contract, shall break, deface, injure, destroy or allow to fall into disrepair any

part of the Works or property belonging to the Department, or any private property including: buildings, pavings, roads, fences, walls or grounds contiguous to the premises of the Department on which he or they may be employed, the Contractor will be required to repair, in a perfect and workmanlike manner, at own expense all damage to the approval of the Department. The Completion Certificate will not be issued until the Department is satisfied that all necessary remedial work has been satisfactorily completed. The Contractor shall take every precaution against damage or nuisance being caused by dust both to the properties of the Employer and all surrounding properties and shall indemnify the Employer against any claim that might arise there from.

## **42. UNDERGROUND CABLES AND PIPES**

42.1 If such services are discovered, immediate notification must be made to the Department and all work in the vicinity of such cables, pipes, etc., shall cease until safe to proceed. Should the Contractor damage underground cable or pipes such damage shall be repaired as soon as safe and possible by the Contractor. The cost of repairing such damage will be met by the Contractor, as this must be covered by the Contractors works insurance.

## **43. DAILY RAINFALL RECORDS**

43.1 The Contractor shall keep daily rainfall records and submit them to the Department's representative at every site meeting, or fortnightly by electronically communication in the absence of such visit. 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. Submission of rainfall figures is required for the granting of permission of extending the contract period because of inclement weather.



#### **44. INSPECTION OF WORK**

- 44.1 The Departmental representative may at all reasonable times have access to the site where work is being executed for inspection purposes.
- 44.2 The Engineer may request that evidence of the quality or strength of any materials be supplied by the contractor wherever necessary.

#### **45. COVERED/ BURIED SERVICES**

- 45.1 The Contractor shall give due notice to the responsible engineer whenever any work or materials are intended to be covered/buried. This is necessary to ascertain the correctness of dimensions and quality of material being covered/buried.
- 45.2 In the event of any such work or materials being covered without such notice having been given, the work or materials shall be uncovered at the Contractor's expense.

#### **46. LABOUR CAPACITY**

- 46.1 The Contractor will be required to satisfy the Department that a sufficient and experienced labor force is employed or that sufficient experienced labour can be acquired to complete the services and produce an acceptable quality of workmanship.

#### **47. PROTECTION OF THE PUBLIC**

- 47.1 The Contractor shall be responsible for the protection of the public in terms of the Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)

#### **48. PROTECTION OF THE PUBLIC**

- 48.1 The Contractor will be required to pay particular attention to watching and warning lighting and must provide any necessary barriers, etc., required for the

protection of the public in terms of the existing Occupational Health and Safety Act, 1993 (Act No.85 of 1993) as amended

## **49. DISAGREEMENTS**

### **49.1 Notice of disagreement**

49.1.1 The Contractor has the right by written notice to the Engineer to require him to consider any disagreement which he raises with the Engineer provided the said written notice shall be given within 14 days after the cause of disagreement has arisen.

### **49.2 Ruling on disagreements**

The Engineer shall give a ruling on the disagreement in writing to the Contractor no later than 14 days after his receipt of a written request from the Contractor requiring him to do so. The Engineer shall provide such a ruling with as little delay as possible. During the response time the Contractor shall undertake no actions that directly concern the contested work.

## **50. FIXED PRICE CONTRACT**

50.1 The contract shall not be subject to contract price adjustment. Proponents of Bids/Quotes must therefore allow for increase cost for the contract duration, including possible delays in awarding the Quotation in accordance with the validity period.

## **51. PRICING - COMPLETENESS OF QUOTATION**

51.1 Bidders are required to Quotation for all services, products and commissioning as specified in this document and associated plans. This includes those optional items that will be pointed out as required at the Quotation briefing (e.g. VIP

toilet(s), fencing and others. If he/she does not Quotation on all items, his/her Quotation will be rejected.

51.2 All Quotation prices for separate items are to be in South African currency and must at item level exclude VAT.

51.3 All items as described in the project specification are to be priced in full.

51.4 Transport/ Delivery costs must be included in the pricing. It must not be a separate item.

51.5 VAT must be filled in as the sub total followed by the complete price for the entire project.

51.6 The Quotation price page must be signed by an authorized person

## **52. QUANTITIES OF WORK**

52.1 The pricing strategy is the re-measurable strategy. The Contractor shall receive payment only for the works actually executed and approved by the Engineer.

## **53. RETENTION**

53.1 A 10% retention will be withheld on payment for duration of the construction. The Department will pay out half of this retention, or 5% of the Quotation value, at practical completion of the works. The remainder, 5%, will be paid out at final approval after expiry of the defect liability period (12 months after practical completion), the bidder having eliminated all defects.

## **54. DEFECT LIABILITY PERIOD**

54.1 The defect liability period is 12 calendar months calculated from the date of the Certificate of Completion.

54.2 The expression "Defect Liability Period" In these conditions shall mean that period calculated from the date of the issue of the Certificate of Completion.

## **55. QUOTATION EVALUATION CRITERIA**

All Quotations received shall be evaluated on the following:

55.1 Only Quotations that meet the Special Terms and Conditions in all aspects as stipulated in the Quotation document shall be considered.

55.2 Correctness of information:

All information required in the Quotation document must be accurate and duly completed including all the appropriate signatures. The Department reserves the right to verify all information submitted. Non-compliance with the above shall result in elimination from further processes.

55.3 Compulsory administrative compliance requirements that must be submitted with the Quotation:

55.3.1. Central Suppliers Database registration number;

55.3.2. Proof of valid and active CIDB 1 GB registration where applicable;

55.3.3. Certified Copies of the Identity documents for company members/service providers;

55.3.4. A certified copy of a valid B-BBEE certificate or valid sworn affidavit

for purposes of confirmation of the bidder being a Level 1 BEE;

55.3.5. Documentary proof of bidder being an EME;

55.3.6. Documentary proof of bidder's experience in support of Annexure B;

55.3.7. Documentary proof of credit facility with manufacturer and/or Registered Financial Institution or evidence of access to any legal funding instrument;

NB. Non-submission of any of the above documents shall result in disqualification.

Where copies of original documentation are submitted, those copies must be certified and must not be copies of certified copies. Original certification should not be older than three (3) months. Failure to comply with this requirement shall invalidate the Quotation submitted.

## 56. FUNCTIONALITY EVALUATION CRITERIA

56.1 The Quotation documents shall be evaluated individually on score sheets, by a representative evaluation panel, according to the below mentioned evaluation criteria.

56.2 All service providers who score less than minimum functionality score of (70%) shall not be considered for placement on any of the panels.

	FUNCTIONALITY EVALUATION CRITERIA	Max Points	Evidence	Bidders Score
1.	<p>Bidder's experience in installation of irrigation systems</p> <p>1 – 5 projects = 15 points &gt;3 projects = 25 points</p>	25	<p>Documentary proof of irrigation projects executed In support of <b>Annexure B</b></p>	
2.	<p>Financial Capacity</p> <p><i>Total Credit Facility (with financial institution and/or manufacturer of irrigation material)</i></p> <p><i>R250 000.00 - R500 000.00 = 15 points</i> <i>&gt;R500 000.00 = 25 points</i></p>	25	<p>Evidence of credit facility with manufacturer/supplier <b>and/or</b> Registered Financial Institution <b>Or</b> Evidence of access to any legal funding instrument</p>	
3.	<p>Access to LDV transportation facility</p>	10	<p>Letter of commitment from fleet company <b>Or</b> Confirmation from producer that delivery shall also be undertaken <b>Or</b> Documentary proof of transport or transportation facility (Log Books/ Letter of agreement supported by Log book)</p>	
4.	<p>Proof of Physical address</p> <p><i>Office of Bidder outside borders of KZN = 5 points</i> <i>Office of Bidder within borders of KZN = 20 points</i></p>	20	<p>Lease agreement; Municipal Utility Bill; or Copy of Bank Statement (first page only) with address</p>	
5.	<p><b>Company Ownership/ Business Or Shareholding</b></p>	20	<p><b>CIPRO Registration</b></p>	

FUNCTIONALITY EVALUATION CRITERIA	Max Points	Evidence	Bidders Score
<p>≥ 50% Women = 10 points</p> <p>≥ 50% Youth = 5 points</p> <p>≥ 50% People with disabilities = 5 points</p> <p>≥ 50% Military Veterans = 5 points</p>		<p>(Ck documents or share certificates)</p> <p>Or</p> <p>Certificate issued by Department of Defence and Military Veterans</p>	
<b>TOTAL</b>	<b>100</b>		
<b>Minimum Functionality Threshold</b>	<b>70%</b>		



**ANNEXURE B**

Previous/Current Experience (Documents and/or an extended list may be attached for further details)

	Client Name	Project Description	Contract Value	Role (Self or Sub Contracted)	Contact (Work / Cell Number)
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
<b>TOTAL VALUE (Past 5 years)</b>					
<b>Signed on behalf of bidder:</b>			<b>Date:</b>		



agriculture  
& rural development  
Department:  
agriculture  
& rural development  
PROVINCE OF KWAZULU-NATAL

## **BID DOCUMENT FOR THE INSTALLATION OF PIPE LINES, VALVES, PUMP HOUSE, PUMP AND ENGINE NEAR ESHOWE**

**PROJECT NAME: SIVELAKUDE IRRIGATION SCHEME**

### **PROJECT DESCRIPTION**

The contract covers the supply of all irrigation material including piping, fittings, and pump/motor combination, the construction of a pump house and full installation of irrigation system for this project. **The supply and installation of fencing of the scheme are not required for this contract.**

### **PROJECT LOCATION**

District: **KINGCETSHWAYO (KCDM)**

Local Municipality: **UMLALAZI LM (ESHOWE)**

SIVELAKUDE Irrigation Scheme is approximately 30kms South West of ESHOWE at King Cetshwayo District Municipality. The site co-ordinates are:

### **DOCUMENT DATA (FOR INTERNAL USE ONLY)**

1) Name of official responsible for attaching this bid document to the request memo:

**TK ONKAY**

2) Designation of official (post + station):

**ENGINEER; VRYHEID OFFICE**

3) Date when bid document was obtained:





4 Origin of bid document. *Tick applicable box*

- (a) copied from original at Hilton head office
- (b) sent electronically from Head office and printed out (provide sender's name)  
.....
- (c) sent electronically by an Engineering colleague not from Hilton (provide name)  
.....
- (d) copy of a hard copy
- (e) Other **Original Document**

**DISCLAIMER**

1. *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 construction. The same applies for purported differences between the technical specifications and schedule of quantities.*
2. *The Engineering Services Directorate (ESD) takes no responsibility for an implemented project on the basis of this document alone without any prior involvement of ESD before (partial) completion.*  
*This involvement consists of, but is not necessarily restricted to:*
  - *Signing off of the bid/quote document and Drawings by ESD;*
  - *Presence of ESD at the handover of the site to the contractor and at the commencement of the work. The contractor is to make sure that ESD is informed of his/her intention to commence the work so that ESD presence can be assured.*
  - *Regular site inspections by ESD and the processing of invoices on the basis of achieved progress.*
3. *District managers and other departmental end users are therefore required to involve ESD at the earliest possible stage, i.e. during PPC meetings or before submission of the request memo is submitted.*

*This document contains:*

No.	Section	Page(s)	Action
1	Cover Page	1	Read
2	Table of Contents/Disclaimer	2	
3	A) Project Particulars	3	Read
4	B) General Conditions of Contract	3-11	Read
5	C) Project Technical Specifications	12 - 17	Read



6	<i>Project Particular Specifications</i>	18	<i>Read</i>
7	<i>ANNEXURE A: Schedule of quantities</i>	19 - 24	<i>Read</i>
8	<i>ANNEXURE C: Additional Information</i>	27-28	<i>Complete</i>
9	<i>ANNEXURE D: Bid Evaluation Criteria</i>	29-30	<i>Read</i>

## 1. PROJECT PARTICULARS

### 1.1 Project Description/Background

Sivelakude Irrigation Scheme is an existing 10ha irrigation scheme which will focus on the production of vegetables and green mealies. The farm is run by non registered co-operative and by community of Empumazi Area. The farmers wish to plant cabbages, spinach, potatoes, and green mealies under irrigation. The farmers requested the Department of Agriculture to assist with the following:-

- Completing the scheme: installing main lines and valves.
- The supply and delivery of a complete portable pumps with all required fittings and materials.

### 1.2 Scope

The contract covers the supply of all materials and fittings, and the execution of all works relating to the irrigation project. The work required involves but not limited to:-

- The setting out and site establishment.
- The supply and installation pipe lines and valves.
- The supply and delivery of pump and engine
- Construction of a pump house.
- The testing of the pump and irrigation system prior to commissioning.

## 2. PROJECT TECHNICAL SPECIFICATIONS

In general, the Specifications published by the South African Bureau of Standards (SABS/SANS), series 1200 (Standardised Specifications for Civil Engineering Construction) shall apply.

The following specifications are applicable to this contract:-

- SABS 1200 A: General
- SABS 1200 C: Site Clearance
- SABS 1200 D: Earthworks
- SABS 1200 GA: Concrete (Small Works)



## SABS 1200 L: Medium Pressure Pipelines

In addition, the following Occupational Health and Safety Regulations (No 85 of 1993) are applicable:-

- General Safety Regulations
- Environmental regulations for workplaces
- Facilities regulations

### 2.1 Preliminaries and General

The contractor is to note that all insurances (UIF, workman's compensation, works, public liability etc.); site and equipment safety; site establishment and security; services (water and electricity); testing of materials and any specialist services are for the contractors responsibility and attention throughout the contract duration until handover of the project. Please also refer to general conditions of contract. The Department reserves the right to stop progress of the works until these conditions are complied with.

### 2.2 Earthworks and Site Preparations

Normal regulations regarding safety, municipal by-laws, contamination of water sources, erosion, siltation etc. will still apply.

- Site preparations & establishment: SABS 1200 AA (4).
- Setting out of works: SABS 1200 AA (5.1.1)
- Permissible deviations: SABS 1200 GA (6.4) Degree of accuracy II for all bases.
  - The site must be cleared and stripped of all plant materials, roots and topsoil.
  - The cleared and stripped material is to be stockpiled away from the construction site and is to be levelled/replaced once all construction is complete.
  - The site is to be levelled prior to any construction. This includes excavation of in situ material to provide the pit.
  - Materials excavated and suitable for backfilling will be placed in even, thin layers and compacted with thickness applicable to the compaction method/machinery used but not exceeding 150mm.

### 2.3 Materials and Constructions

- UPVC pipes and fitting shall be fitted with spigot and socket rubber ring joints and shall comply with requirement of SABS 966.
- All materials must conform to SABS specifications for the products. This includes all items such as pipes, valves, flanges and accessories etc.
- Test pressure shall be performed as stipulated in SABS for test pressure.
- 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.

### 2.4 Standard Concrete Mixes:

- Mixing, pouring and curing of concrete: SABS 1200 GA (5.4)
- Materials: SABS 1200 AA (3); SABS 1200 GA (3)
- Cement: Commencement 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	4	5
B	15	19,0	1	3	4
C	20	19,0	1	2½	3½
D	25	19,0	1	2	3
E	30	19,0	1	2	2½

Cement and aggregates shall be mixed by volume and the contents of a 50kg sack of cement shall be taken to be 0,033m<sup>3</sup>. 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 m<sup>3</sup> of concrete is required for an average quality sand and optimum quantity 19mm stone.

MORTAR CLASS	MIX RATIO: (By Volume)	MASONRY CEMENT: kg	LIME: L	SAND: (loose and damp) L (max)
I	1 : 4	50	0-10	130
II	1 : 6	50	0-40	200
PLASTER CLASS	MIX RATIO: (By Volume)	MASONRY CEMENT: kg	LIME: L	SAND: (loose and damp) L (max)
Rich mix (foundations, wet areas)	1 : 4	50	0-10	130
General purpose	1 : 5	50	0-40	165

### 2.5 Safety

- One 5kg ozone friendly fire extinguisher and 1 fully fitted 1st aid box is to be provided in the facility.



- All safety equipment required to construct the facility are for the contractor's responsibility and provisioning. Examples include: safety and protective clothing; sound scaffolding; false work and bracing; ladders etc... all equipment, tools and safety equipment are to be in a safe operating condition and must be used by the workers where appropriate.
- Refer to general conditions for site safety. Site operations and conditions requiring special attention include but are not limited to:
  - Equipment, machinery, tools: (stationary or mobile) such as vehicles, generators, pumps, drills, augers, picks, spades, hand tools, ladders, scaffolding to be in a safe operating condition and are to be used in a safe and responsible manner. The contractor is responsible for all such monitoring and control of site operations and equipment throughout the works for the entire contract duration.
  - Lifting and lowering of materials or personnel in any way whatsoever.
  - Personnel access and operations at raised levels or on raised platforms or scaffolding.
  - Excavation works and holes are to be clearly indicated to prevent injury to personnel.
  - Potential ingress of water on/through the site.
  - Potentially hazardous services may be present on site such as water and sewerage mains, electricity cables etc.
  - Chemical transport, storage and usage whatsoever – this includes chemical contact through equipment use such as fuels and oils; materials such as creosote, paints, solvents, cement, concrete.
  - Safety equipment: Safety and protective clothing, gloves, goggles, masks, hard hats, boots, harnesses etc.
  - A first aid box is to be provided and available at all times on site during working hours and is to comply with the requirements of the Occupational Health and Safety Act.
  - Additional risks associated with specific methods of construction selected by the contractor which are not necessarily covered in the above.

## **2.6 Flanges and Accessories**

Flanges shall comply with the requirements of SABS 1123 latest edition. Flanges designed for rated working pressures of less than 1600kPa shall have flat flange faces and those for equal or greater working pressures raised flange faces.

It shall be the responsibility of the Contractor to ensure that the flanges on pumps, valves, fittings, specials and pipes, which shall be fitted together, are fully compatible. The flanges shall be drilled to the relevant table or to match existing flange drillings if applicable.

Before the machined surfaces have become affected by rust, they shall be coated with a mixture of white lead and tallow or other approved protective composition.

## **2.7 Flange Jointing Material**

All flanged jointing material shall be approved by the Engineer before erection is commenced. Insertions for flat flange faces shall be of the full flange diameter encompassing the bolts. Insertion for raised flanges shall fit neatly inside the bolt rights.

All packing must be cut from rubber insertions (for pipe diameters 300 mm and smaller) with a nominal thickness of 3,2mm according to SABS 564-1973. The inside and outside diameters should be according to SABS 1123-1977. For pipe diameters exceeding 300 mm Klingerrite gaskets should be used to the applicable specifications.





## **2.8 Bolts and Nuts**

All nuts, bolts, studs and washers shall comply with SABS 135:1985 and shall be hot dipped galvanised according to ISO 1461.

No bolts or studs of less than the size indicated on the drawings shall be used. The length of each bolt shall be such that after tightening between one thread and one diameter in length projects through the nut and at least one full thread in addition to the thread run-out remains clear between the nut and the unthreaded shank. The threaded portion of bolts shall be clear of the shear plane. All nuts and studs shall be locked in position by lock-washers and where necessary, locknuts. High tensile bolts and nuts should be used to couple the flexible hoses to limit the rust-effect on these very important elements when the pump units have to be moved.

## **2.9 Gate Valves and Scour Valves**

Resilient seal gate valves (RSV) shall be similar to VOSA configuration and shall comply with SABS 664 (latest amendment) with classes and flanged drillings as scheduled in the bill of quantities. Where plain-ended valves are required, the ends shall be suitable for the type of pipe specified. The valves shall be designed for drop tight closure over the full range of pressures from zero to maximum working pressure.

The valves shall be provided with a straight unobstructed body passage without pockets. The spindle seat shall consist of 2 nitrile rubber O-rings located in a corrosion resistant housing. A wiper ring shall also be provided. The gates shall be completely rubber covered. The gate guides shall be of the tongue and groove type. Spindles shall be manufactured on solid stainless steel and shall be of non-rising type. The body of the valve shall be coated to a minimum DFT of 250 microns.

Extension spindles and brackets shall be provided where detailed and hand-wheels shall be clearly marked with the direction of opening. All valves shall be clockwise opening/closing. Gearing shall be chosen to limit the total effort at the hand-wheel or valve key to 350 Newton's.

## **2.10 Butterfly Valves**

All butterfly valves shall be similar to AMRI configuration and must be provided with a gearbox and hand-wheel mechanism unless otherwise detailed and it must be possible to install the unit between flanges drilled according to SABS specifications. Valves are to have a stainless steel stem and are to incorporate a resilient disc seal mechanically retained around the periphery of the valve disc. Working pressure required is 1000kPa, or as detailed in the Schedule of Quantities and/or the drawings.

## **2.11 Non Return Valves**

All wafer type non return valves may have a cast iron body, but stainless steel plates having machined sealing faces, 316 stainless steel pin and springs, nitrile seat and Teflon or similar bearing washers.

## **2.12 Pressure Gauges**

Pressure gauges shall comply with BS 1780 or equivalent for Industrial Gauges shall be calibrated in kilopascals and shall be not less than 100 mm diameter. Full-scale reading shall be between 1.5 and 2 times the maximum actual operating pressure except where otherwise specified.



All gauges shall be suitable for continuous operation and shall be liquid filled where fluctuations in pressure may cause damage.

Where blockages of the gauge are possible, diaphragm seals with large bases and a facility for cleaning shall be provided. This shall apply in all cases where liquids bearing solids or sludge are handled.

Gauges shall not be mounted directly on equipment subject to variation. For dry locations indoors, the casing may be plastic or epoxy coated aluminium. For damp indoor locations, particularly in any location where sewage is flowing, and for all locations outdoors, the gauges shall be weatherproof and have AISI 316 stainless steel cases.

Isolating and bleed cocks shall be provided for each pressure gauge, except on installations for hazardous fluids.

## 2.13 Pumps and Motors

### ○ **Guarantee**

All pumps and motors must carry a guarantee of twelve months. The pump and motor must be capable of reaching the required pressure. The pump must be free of any defects pointed out by the engineer or client.

### ○ **General**

- Pumps to be provided shall include power rating, rotational speed/rpm and efficiency.
- Pumps shall be silent and vibration free during operation.
- No pump shall be started before installation of strainers.
- Pumps shall be provided with adequate protection over inlet and outlet flanges before being delivered to site. Protection covers shall be able to withstand normal handling during construction.
- Pumps shall be suitable for the fluids and fluid temperature that they handle, and shall be selected accordingly. See pump data forms in this regard.
- Manual vent valves shall be provided at high points on the pump casings. For applications with temperatures above boiling point, the vent must be piped to a safe drain point.
- Drain plugs shall be provided at low points on the pump casings.

### ○ **Couplings, Base Plate and Alignment**

- The power source and pump must be connected by means of a coupling which can transmit the full power supply of the power source, whether or not a spacer is used, or as specified in the Bill of Quantities. All couplings should be safeguarded to prevent to prevent injury to operators.
- Pumps shall be complete with flexible drive couplings to allow for angular and axial misalignment where applicable.
- The pump and power source must be mounted together on a base plate and the required tolerances:
  - Maximum permissible axial alignment error – 0.03mm
  - Maximum permissible radial alignment error – 0.05mm
- After installation and before commissioning the alignment must again be checked and adjusted with shims.
- Pumps shall be aligned by a representative of the pump supplier but the contractor still remains solely responsible for the guarantee period.
- The tolerances of measurements of the base plate, as indicated by the tenderer in the tender document, must be approximately 2mm.



- Pump drives shall be suitably protected by a securely mounted sheet metal guard and comply with Machinery and Occupational Safety Act (Act 611983).
- Each flexibly coupled pump shall be provided with a cast iron or fabricated steel base plate of ample size to hold both pump and motor in correct alignment. The pump and motor shall be accurately aligned when running at normal temperature. Dowel pins shall be fitted to base plates after alignment.
- Couplings shall be selected to match at least the power of the electric motor and shall not impose any restriction on the normal expansion and tolerances.

○ **Pump Installation**

All pumps are to be installed in accordance with the Manufacturers specifications. The rate for installation and commissioning of pumps must include for all nuts, bolts, base plates or straps that are required for their fixing, according to the Manufacturers specifications.

○ **Standard Specifications**

The workmanship must be of the highest standard throughout and be done according to the most modern practices. All inferior work will be replaced or rectified, as soon as it is pointed out by the engineer, at the cost of the contract.

○ **Inlet and Outlet Adapters**

These form part of the selection of the tender with the necessary nuts, bolts and gaskets for coupling to the pump, and flanged to fit the large end of the steel piping. Suction reducers should be eccentric and conform to a length equals to  $5(D1 - D2)$ .

○ **Safety Precautions**

All necessary safety covers must be supplied to ensure total protection of the operator.

○ **Commissioning**

Should any defects in the equipment become apparent during commissioning or during maintenance accounting; it will be the suppliers' responsibility to replace such faulty equipment.

○ **Operation and Maintenance Manuals**

5 sets of documents are to be provided that include the following:

- Operational philosophy
- Design data where applicable
- Pump and motor data forms and curves
- All technical data and information sheets for equipment and materials
- Detailed layout drawings (in hard copy and electronic (DWG or kcd))





### 3. PROJECT PARTICULAR SPECIFICATIONS (PPS)

A new dragline irrigation system together with a pump station shall be installed for the application of water for vegetables. In addition to the standard specifications, the following project particular specifications are applicable to the specified operations.

#### PPS1 Irrigation System

The following information pertain to the irrigation system:-

- Nett irrigation area - approximately 10ha hectares.
- Type of irrigation system - dragline system.
- Design system efficiency - 80%
- Available working days per week - 5 days
- Available irrigation hours per day - 10 hours
- Nett irrigation requirement - 6 mm/day
- Pipes to be used shall be Steel (bends), uPVC & HDPE. The mainline should be buried at a minimum depth of 900mm to the crown of the pipe and laterals to be buried at 600mm to the crown of the pipe.

#### PPS2 Pumps station

Pump station to include construction of 3.2m X 3.2m pump house and the manufacturing, supplying, delivery to site, installation and commissioning of the following equipment's:

- One KSB or equivalent centrifugal pumps to discharge 70m<sup>3</sup> at P= 66m duty point.
- The above units to be mounted on a suitable frames and base plate
- Associated pipework with necessary fittings and valves. These to be primed and painted with two coats of Copon.
- Pressure gauges with complete associated fittings.
- Valves which include: control valves, Foot valve and non-return valves.
- Install 20mm pipe between the non-return valve and the pumps to prime pump.

#### PPS 3 Air Valves (Double purpose air valves)

Double purpose air release and vacuum break valves shall be ARI type as specified or similar approved. Double purpose air valves shall be able to release appropriate volumes of air (for instance during the pumping process) and let appropriate volumes of air into the system when needed.



**ANNEXURE-A BILL OF QUANTITIES**

**ANNEXURE-A SIVELAKUDE SCHEDULE OF QUANTITIES**

**SCHEDULE 1 : SITE CLEARANCE, EXCAVATION AND BACKFILLING**

ITEM No.	DESCRIPTION	UNIT	QTY	RATE (R)	AMOUNT (R)
1.1	<b>EXCAVATION AND BACKFILLING</b>				
	Contractor to grade trench as such that no local high points between Outlets exists, to include in rates. Place soil on trench side. Rates for excavation to exclude back filling, compaction and disposal of surplus material	sum	1		
1.2	Excavation in all materials including intermediates, for trenches				
	a) Up to 0.6m deep for 90-75mm HDPE Main Lines (400mm wide)	m	400		
1.3	<b>PIPE BEDDING AND BLANKET FILL</b>				
	and blanket where required				
	a) Direct from trench excavation- select/sieve	sum	1		
	b) Form borrow pits within 0.5km select/sieve	sum	1		
1.4	<b>Unselected back fill</b>				
	Disposing of unsuitable material and forming of mound higher than NGL				
	a) Direct from trench excavation-remove large stones	sum	1		
	Overhaul of imported material for bedding cradle and blanket fill	sum	1		
<b>TOTAL SCHEDULE 1 CARRIED FORWARD TO SUMMARY</b>					

**SCHEDULE 2 : PIPES AND FITTINGS**

ITEM No.	DESCRIPTION	UNIT	QTY	RATE (R)	AMOUNT (R)
	<u>SUPPLY, DELIVER, BED, LAY, AND TEST HDPE TYPE IV PRESSURE</u>				
	PIPING CONFORMING TO SABS 533				
2.1	<b>PIPE SIZES</b>				



2.1.1	90mm/class 9 uPVC	m	340		
2.1.2	125mm/Class 9 uPVC	m	60		
2.1.3	Extra Fittings, Pipe extensions, to fix broken pipe sections	sum	1		
2.2	<b>REDUCERS</b>				
2.2.1	125 - 90mm Ø	no	4		
2.3	<b>FEMALE ELBOWS WITH STEEL BANDS</b>				
2.3.1	90mm Ø /90° elbow with Steel bands	no	2		
2.3.2	125mm Ø /90° elbow with Steel bands	no	4		
2.4	<b>REDUCING TEE</b>				
2.4.1	125- 90mm Ø	no	1		
2.5	<b>COMPRESSION COUPLER</b>				
2.5.1	90mm Ø compression coupler	No	2		
<b>TOTAL SCHEDULE 2 TO SUMMARY</b>					

SCHEDULE 3 : VALVES AND SPRINKLERS

ITEM No.	DESCRIPTION	UNIT	QTY	RATE (R)	AMOUNT (R)
	SUPPLY, DELIVER, INSTALL AND TEST THE FOLLOWING: ALL PIPES AND FITTINGS TO BE HDG TO SABS 763 MEDIUM DUTY WHERE APPLICABLE AND DRILLED TABLE D OR AS APPLICABLE TO FEED PUMP, VALVES ETC. TO INCLUDE HDG BOLTS AND WASHERS WITH PACKINGS. FLANGES TO BE OF THE SAME DIAMETR				
	FULL BORE, " BALL" TYPE, ISOLATING VALVES, FEMALE TREADED ( "cobra/RSL" or similar approved, with steel lever)				
3.1	90ND Butterfly valve (Control Valve)	no	2		
3.2	125ND Butterfly valve (Control Valve)	No	1		
3.3	Non return valve (125ND)	no	1		
3.4	Foot Valve to be one size bigger than suction pipe (125 Ø)	no	4		
3.5	1" Spring loaded hydromatic valves	No	60		
3.6	20mm Plastic Pipelets	No	50		
3.7	20mm Hose clamps	No	100		



3.8	1m High 20mm Ø galvanized sprinkler stands	No	50		
3.9	VRSA 36 AF sprinklers (3.2bar, 4mm nozzle)	No	50		
3.10	36m long X 20mmØ drag line hose (10 Year warranty)	no	50		
<b>TOTAL SCHEDULE 3 CARRIED TO SUMMARY</b>					

**SCHEDULE 4 : DIESEL PUMP SET And ANCILLARY MATERIALS**

ITEM No.	DESCRIPTION	UNIT	QTY	RATE (R)	AMOUNT (R)
4.1	<b>PUMP AND ENGINE</b>				
4.1.1	Compact water pump (pump and engine as one unit) to deliver 70 m <sup>3</sup> /hr. at 66m head. And Pump to include Pressure Gauge	no	4		
4.2	<b>PUMP HOUSE, FITTINGS AND OTHER ACCESSORIES</b>				
4.2.1	Flexible Suction pipes and delivery steel Pipes, Valves, Bends, Flanges etc	Sum	1		
4.2.2	Pump and engine to be mounted on a suitable base plate and frames	sum	1		
4.2.3	Pump house 3,2mx3,2m and Galvanized Steel door with waterproof Padlock, To have enough ventilation and Steel pipes around Pump	sum	1		
4.2.4	100L Galvanized Diesel Tank –Tank to be filled the with diesel & extra 750ml Oil	sum	1		
4.2.5	Training of at least two beneficiaries for two days and testing of the pump and the system including sprinklers	sum	1		
4.2	<b>GENERAL SPECIFICATION</b>				
	<i>Ball valve to be fitted on pump volute for priming purposes</i>				
	All moving parts and possible areas of danger must be adequately shielded.				
	Pump and engine to be fitted with the correct grade oils for the area operating and maintenance manuals of the pump and motor to be supplied,				
	With any special tools for normal maintenance.				
	Drain pipe to be fitted or gland leak water to spill away from base plate				
	Motor and pump to be aliened in the factory to the pump and engine manufacturers specifications				
	Factory NPSH and other duties testing in presence of engineer or witness				
	Engine speed must be adjustable with hand tools				
4.3	<b>ANCILLARY MATERIALS, SERVICES AND EQUIPMENTS</b>	Sum	20000		
4.3.1	Ancillary Mark up	%			
<b>TOTAL SCHEDULE 4 CARRIED FORWARD TO SUMMARY</b>					



**DECLARATION OF INTEREST**

1. Any legal person, including persons employed by the state<sup>1</sup>, 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, shareholder<sup>2</sup>, 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.



<sup>1</sup>“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.

<sup>2</sup>“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 / Persal 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 bids<sup>1</sup> 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).<sup>2</sup> 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:

<sup>1</sup> Includes price quotations, advertised competitive bids, limited bids and proposals.

<sup>2</sup> 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 consortium<sup>3</sup> 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