



**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 BBEE VERIFICATION CERTIFICATE/AFFIDAVIT

QUOTATION NUMBER: R/S/1819/1194	VALIDITY PERIOD OF QUOTATION..... Days (To be completed by the Supplier)
CLOSING DATE: 04/09/2018	CLOSING TIME:11H00
DESCRIPTION(SPECIFICATION/S) OF ITEMS/ SERVICE REQUIRED: Supply, deliver and construct pack house as per attached specification- Maphumulo	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 FAXED BACK TO THE DEPARTMENT BY THE SUPPLIER(Supplier to complete)

Quotation for the attention of: Mr. Ndlela

Tel. Contact no :033 343 8225 /8186

Quotation must be deposited in the bid box situated at Department of Agriculture and Rural Development, Supply Chain Management,

NB: THE ATTACHED SBD4, SBD9 AND 10 FORMS MUST BE COMPLETED IN FULL. THIS QUOTATION PAGE MUST BE COMPLETED AND RETURN WITH ALL YOUR QUOTATION

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 construct a pack house as per attached specification- Maphumulo	01				
*LABOUR (IF APPLICABLE)						
*DELIVERY (IF APPLICABLE)						
TOTAL						
*ONLY APPLICABLE TO VAT REGISTERED SUPPLIERS 15% VAT						
TOTAL PRICE						

*VAT Registration No. (Supplier)

When Required (Requester) – ~~June 2018~~ ^{P.V} September 2018

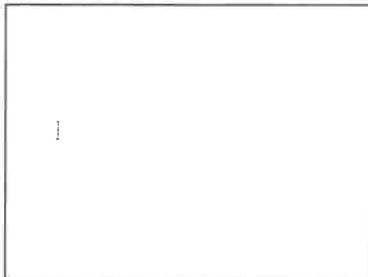
Where Required (Requester) – Maphumulo – Maphumulo – Jikijela Vukwazakhe @ Thuthukani

Contact details of requester: P.K.HADEBE

TEL: 032 4812008/07950620

(COMPULSORY)

COMPANY STAMP



PRICES ARE VALID FOR..... DAYS

SIGNATURE

DATE



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

**BID SPECIFICATIONS FOR THE
CONSTRUCTION OF A PACK SHED WITH TOILET
JIKEJELA VUKUZAKHE/THUTUKHANI | MAPHUMULO LM | ILEMBE DM**

1. This document must be read in conjunction with the following 5 drawings:

- 1.1. Drawing 1: RDN/2018/014/STO (PLAN)
- 1.2. Drawing 2: RDN/2018/015/STO (ELEVATIONS)
- 1.3. Drawing 3; RDN/2018/016/STO (CROSS SECTION).
- 1.4. Drawing 4: RDN/2018/017/STO (PLUMBING & DRAINAGE)
- 1.5. Drawing 5: RDN/2018/013/NUR (TANKSTAND)

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 sheds built 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:

- 2.1. Verification of the bid/quote document and Drawings by ESD before procurement;
- 2.2. 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.
- 2.3. The drawings supplied with this document are for quoting/bidding purposes only and no construction should take place before the contractor has received the bigger sized building plans.
- 2.4. 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.

FOR OFFICIAL USE ONLY

SUBMITTED BY

NAME:..... PHONE NUMBER.....

OFFICE:.....DATE.....

CHECKED BY ENGINEERING SERVICES DIRECTORATE

NAME.....PHONE NUMBER.....

OFFICE..... DATE.....

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A | PROJECT PARTICULARS

1) PROJECT DESCRIPTION / BACKGROUND

The project covers the construction of a 9.0 x 5.0 x 4.2m (column height) pack shed facility with 2 water tanks on stand, toilet, septic tank, packing table and basin. The facility consists of a pre-manufactured certified steel portal frame structure with IBR roof sheets and cladding. The steel structure is to be built in as per the attached plans. The space between the portals is to be bricked up with cement blocks. Internal walling is required for the toilet. A concrete floor is to be constructed throughout the facility. A concrete apron is to surround the facility. Two 2500 litres water tanks for the collection of rainwater to be placed on the toilet side of the building on cement blocks stands. Septic tank is to be installed somewhat away from the building. Please refer to the attached drawings.

2) LOCATION

District: ILEMBE DM
Local Municipality: MAPHUMULO LM
Site Co-Ordinates: 29° 09' 07.9"S & 31°04' 00.7"E
The site is situated approximately 30 km NW from Kwadukuza

3) SCOPE

The contract covers the supply of all material and fitting and construction of all works relating to the shed storage facility. The following are the detailed scope of works for the pack shed.

- Site establishment;
- Earthworks: Excavate topsoil from the shed area and surrounding zone ensuring that all bases will be located into 'cut'. See site preparation specification and drawing;
- Excavate site platform and banks to desired level and slopes.
- Bases: Accurately set out; excavate; cast and cure all concrete bases for the shed as per the attached plan with required reinforcing in bases as per specification.
- Steel structure: Supply and erection of an engineer certified steel portal frame structure with 0,5mm widespan IBR galvanised roof sheeting. The building is to be fitted with bubble foil insulation under the roof sheeting suitably fitted and tensioned. The structure is to be fitted with the following finishes: roof closures throughout; guttering and down pipes; roof flashing and barge boards; cladding as per drawing; 2 roller doors (2.5m wide x 2.8m high).
- Foundations: Excavate foundation trenches, dispose or stockpile soil, compact, provide and install foundation reinforcing, supply, mix, pour, compact, finish and cure concrete to level and specification.
- Foundation wall: Supply and delivery of materials for foundation wall, construction of foundation walls to specification.
- Floor: Excavate to final floor level, stockpile materials or dispose, compact in-situ material, Soil treatment (ant poisoning), damp proofing, provide and install formwork for floor (well/adequately braced) Provide and install reinforcement works for floor area, Supply, mix, pour, compact, finish and cure concrete to specification. Apron around building of 2.5m wide.
- Walls: DPC placed under walls, walls built up including brick-reinforcing as specified, doors, window, lintels, and columns built in as specified.
- Installation of a septic tank with French drain/ soak away.
- Finishings:
 - > Plastering (inside and outside), > Sills and window surrounds, > Glazing, > Painting, > Tank stands and tanks, > Plumbing, > Topsoil replacement and re-shaping, > Repaint any damaged metalwork and paint exposed steelwork, > Final clean up of site.



B | GENERAL CONDITIONS OF CONTRACT

1) BIDDERS TO CHECK COMPLETENESS OF DOCUMENT

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 Bid, as no claims arising from any incorrect interpretation will be admitted.

2) SCHEDULE OF VARIATIONS

If the Bidder chooses to suggest alternatives in his bid proposal, these should be *at least* of equal standards to the original specifications. All materials used must be SABS approved.

3) APPLICABLE STANDARDS: SPECIFICATIONS & MATERIALS

For the purpose of this Contract the relevant SANS specifications shall apply- specifically SABS 1200: *Standardized Specification for Civil Engineering Construction* specifications shall apply. The following sections shall in particular apply here: **SABS 1200 AA - 1986** (General - Small Works), **SABS 1200 DA -1988** (Earthworks - Small Works) and **SABS 1200GA – 1982** (Concrete - Small Works). All materials to be SANS approved and installed to applicable standards specified by SANS, NBR, or the manufacturer. The Bid shall refer to “the Standard (Abridged) Preamble for all trades”, which covers the following (only the items in italics apply to this contract):

STANDARD (ABRIDGED) PREAMBLES TO ALL TRADES

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4) VALIDITY PERIOD FOR BIDS AND QUOTES

Quotes shall remain valid for a period of 30 days after the closing day for the quote. Bids will remain valid for a period of 120 days from date of the closing of the Bid. However, in both cases prices are assumed to be firm for the entire period of the project (see also clause 33).



5) COMPULSORY PRE-BID BRIEFING MEETING

A compulsory pre-quote/bid site briefing and consultation meeting will be held with prospective Bidders. Attendance at the meeting will be compulsory and non-attendance shall invalidate any quote/bid. The date and time of the meeting will be published in the Bid Advertisement or, in the case of a quote, be communicated when the prospective service provider is invited to quote.6)

6) HANDOVER OF SITE TO CONTRACTOR

The Contractor will be introduced to the project participants following the Bid award. The site will be handed over to the Contractor who will control the site for the contract duration. Only the Contractor's own employees, Contractor's local labour and Departmental Representatives will be allowed on site. The Contractor is responsible in the administration, control and security on the site at all times during the contract duration.

7) WATER AND POWER

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.

8) LOCATION OF CAMP

The Contractor's camp may be erected on the site of the works but must meet the approval of the Engineer, project beneficiaries and land owners. No persons other than a night watchman may sleep in the camp, without the approval of the local participants and Chairperson.

9) 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 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.

10) LOCAL LABOUR

Unskilled labour may be available 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 (ie: the Contractors 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 any and all labour used for the contract duration.

11) SECURITY & RISK

Except for the necessary security personnel no person shall be allowed on the construction site after normal working hours. The Contractor shall be responsible for all plant, machinery, equipment and materials on site. The Engineer shall not 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.



12) MATERIALS: DELIVERY, ON & OFF-LOADING, STORAGE & RESPONSIBILITY

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 and plant etc. until the completed works are handed over and has been officially accepted by the Department.

13) EXISTING ROADS, MUNICIPAL PAVEMENTS, ETC.

The Contractor is advised that he will be held responsible for any damage to the existing pavings, roads, municipal pavements, fences, boundary walls, etc., and will have to make good at his expense.

14) DAMAGE TO PROPERTY

If the Contractor or his workmen 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 Employer, or any private property including: buildings, pavings, roads, fences, walls or grounds contiguous to the premises of the Employer on which he or they may be employed, the Contractor will be required to make good, in a perfect and workmanlike manner, at own expense all damage to the approval of the Employer. The Completion Certificate will not be issued until the Employer 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.

15) UNDERGROUND CABLES AND PIPES

If such services is/are discovered, immediate notification must be made to the Employer 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 making good such damage will be met by the Contractor as this must be covered by the Contractors works insurance.

16) DAILY RAINFALL RECORDS

The Contractor shall keep **daily rainfall records** and submit them to the Department's representative at every site meeting, or fortnightly by fax 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 on the basis of inclement weather.

17) INSPECTION OF WORK

The Head of Department or his Representative may at all reasonable times have access to the Works and/or the workshops or other place where work is being prepared for this Contract for inspection. The Engineer may request that evidence of the quality or strength of any materials be supplied by the contractor as may think necessary. Should the Head of Department or Representative consider any materials objectionable or if it shall appear to him at any time during the construction, or prior to the expiry of the defect liability period, that any part thereof has been executed with unsound or imperfect materials or with unskilled or imperfect workmanship, the Engineer will notify the Contractor who shall cause the objectionable materials to be instantly



removed from the premises and to be replaced by good and suitable materials, and shall rectify or reconstruct the Works in whole or part, as the case may be at the Contractors own proper cost or charge.

18) NOTICE OF COVERING WORK

The Contractor shall give due notice to the Head of Department or Representative whenever any work or materials are intended to be covered in with earth or otherwise in order that their correct dimensions and quality may be ascertained before being covered, and 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 on instructions given by the Employer.

19) COMPETENCY OF THE CONTRACTOR

This bid is open for contractors with a Construction Industry Development Board (CIDB) data base grading of **at least 2CE. The contractor is to submit evidence of his/her OWN registration. CIDB registration of possible sub-contractors would be recommended, but will not make up for non-registration by the contractor quoting/bidding for the work.** The Department reserves itself the right to disqualify any quote/bid in the event of substantial unsatisfactory reports being obtained about the proponent of such a quote/bid.

20) CONTRACTOR TO PROVIDE EVERYTHING NECESSARY

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

21) SUB-CONTRACTED WORK

The contractor shall not sub-contract the entire contract. The contractor must indicate in **Annexure D2 – Additional Information: Subcontracted works** which part(s), if any, (s)he intends to subcontract. In case the contractor decides to subcontract part of the work (s)he shall obtain written consent of the Engineer, which shall not be unreasonably withheld. Any such consent shall not relieve the contractor from any liability or obligation under the contract and he shall be liable for the acts, defaults and neglects of any sub-contractor, his agent or employees as fully as if they were the acts, defaults or neglects of the contractor, his agents or employees.

22) VARIATIONS / 'AS BUILT' DETAILS

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

23) VERIFICATION OF EXPERIENCE

The proponent of a bid/quote will be required to produce adequate and sufficient references to enable the Department to inspect previously completed projects and assess his/her capacity. He/She shall provide such information in **Annexure D3 – Additional Information: Experience.**



24) EQUIPMENT & RESOURCES

The proponent of a bid/quote shall in **Annexure C1 – Additional Information: Equipment and Resources** and by way of supplementary information satisfy the Department that sufficient equipment is possessed to execute the services or an indication shall be given as to the manner in which such equipment would be sourced. Should (s)he not be able to prove possession of or ability to access sufficient equipment, the Bid/quote will be wholly disqualified. The Department reserves the right to investigate the existence and/or proposed sourcing of equipment.

25) LABOUR CAPACITY

The proponent of a bid/quote will be required to satisfy the Department that a sufficient and experienced labour force is employed or that sufficient experienced labour can be acquired to complete the services and produce a fair quality of workmanship. The Contractor shall only employ such persons on the Works as are thoroughly efficient and of good character. If in the opinion of the Head of Department or Delegated Representative any person employed by the Contractor misconducts himself or is likely to cause or has caused quarrels, or delay, or is incompetent, the Contractor when so directed by the Head of Department or Delegated Representative shall at once remove such person from the site.

26) LOCAL AND OTHER AUTHORITIES NOTICES AND FEES

The Contractor shall comply with and give notices required by any Act of Parliament, Act of the KwaZulu-Natal Provincial Legislature, Laws, Regulations and By-Laws of any Local Authority and/or any public service company or authority relating to the Works or with whose systems the same are or will be connected, and he shall pay and indemnify the Employer against any fees or charges demandable by law thereunder in respect of the Works provided that the said fees and charges, if not expressly included in the Contract Sum or stated by way of Provisional Sum shall be added to the Contract Sum and be payable to the Contractor accordingly.

The Contractor before making any variation from the Drawings and Specification necessitated by such compliance shall give to the Regional Engineer written notice specifying and giving the reason for such variation and applying for instructions in reference thereto. If the Contractor within twenty-one days does not receive instructions he shall proceed with the work conforming to the provision, regulation or by-law in question, and any variation necessitated as aforesaid shall be deemed a variation and dealt with as such.

27) INSURANCE

All accepted approved contractors would be required to provide the following insurance's for the project awarded to them:

- Registration with the Compensation Commissioner and compliance with the Compensation for Occupational Injuries and Diseases Act with regard to insurance.
- Unemployment insurance fund for all workers.
- Insurance against damage, destruction or loss caused by fire.
- Public Liability insurance.
- All risks (works) policy and Political for the value of the respective project plus 10%.

28) PROTECTION OF THE PUBLIC

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.



29) SITE SAFETY

During the construction the regulations of the Occupational Health and Safety Act No. 85 of 1993 and Machinery and Occupational Safety Act (Act 6 of 1983) will apply. By submission of a Bid/Quote the proponent acknowledges and agrees that, should this Bid/quote be accepted, (s)he is an employer in his own right with duties as prescribed in the Occupational Health and Safety Act No. 85 of 1993 and amendments thereto and the corresponding Construction Regulations 2003 will ensure that all Works to be performed or machinery and plant to be used in the Works will be in accordance with the provisions of such regulations.

(S)he also agrees that he is aware of the fully understands all the provisions of such regulations. All equipment, machinery, tools and safety equipment used on site are to be in a safe operating condition and are to be used in a safe and considerate manner by suitably trained and experienced workers. The Contractor is responsible for all such monitoring and control of site operations and equipment throughout the works for the entire contract duration. All necessary safety equipment required to construct the facility must be used by the workers where appropriate and are for the contractor's responsibility and provisioning. 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. The Contractor shall ensure the safety of all work left standing in an incomplete state during the construction and shall be responsible for all damage or loss caused by his failure to ensure the safety of such incomplete work.

Site operations requiring special attention include but are not limited to: Any excavations; plant, machinery and equipment operations; any chemical storage and usage whatsoever; any works requiring elevated personnel such as for roofing, elevated building works requiring ladders or scaffolding etc...; any works with overhead elevated operations or construction.

30) PROTECTION OF THE PUBLIC

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.

31) INJURY TO PERSONS

The Contractor shall be liable for and shall indemnify the Employer/Engineer in respect of any liability, loss, claim or proceedings whatsoever, whether arising in Common Law or by Statute in respect of personal injuries to or death of any person whomsoever arising out of or in the course of or caused by the execution of the Works.

32) DISAGREEMENTS

a) Notice of disagreement

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.

(b) 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, failing which he shall be deemed to have given a ruling dismissing all the Contractor's contentions.

33) FIXED PRICE CONTRACT

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 Bid in accordance with the validity period.



34) PRICING - COMPLETENESS OF BID/QUOTE

- i. Proponents of Bids/Quotes will be required to Bid for **all** services, products and commissioning as specified in this document and associated plans. **If (s)he does not Bid/quote on all items, his/her Bid/quote may be rejected.**
- ii. All bid/quoted prices for separate items are to be in South African currency and must **exclude** VAT.
- iii. All items as described in the project specification are to be priced in full.
- iv. Transport/Delivery costs must be included in the pricing. It must not be a separate item.
- v. VAT must be filled in as the sub total followed by the complete price for the entire project.
- vi. The Bid price must have your company stamp, date and be signed by an authorised person.

35) QUANTITIES OF WORK

The Contractor shall receive payment only for the works actually executed and approved by the Engineer. No claim for an extra or for any addition, or for any variation shall be entertained unless such extra, addition or variation was ordered in writing by the Head of Department. Such a variation will be dealt with as a contingency only if the variation has an additional cost implication. See item on 'contingencies'. No objection to the description or terms of the Order in Writing will be entertained unless lodged in writing with the Head of Department within twenty-one (21) calendar days of the date of the order.

36) PROGRESS PAYMENTS

The contractor may submit claims for progress payments only on completion of the hereunder listed levels. Payment shall only be paid for claims, which are commensurate with the works actually executed and complete. NOTE: Payment will only be made against the construction progress as pertaining to built items. Movable items and materials on site are excluded from progress payments until they have been fully installed or fitted or built up. If any item or part of an item in an invoice is disputed by the Engineer, the Engineer shall give notice of such with reasons.

The contractor shall be paid in up to a maximum of seven installments. Refer to **ANNEXURE C: Payment Schedule** for the values of each phase. These values shall be adhered to during the payment process. Part payments will be made after the Department has approved the completion of each construction phase, in accordance with the retention clause (see below). The penultimate payment occurs after practical works completion. The final payment will be made after the 90 days retention period when the contractor has dealt with all defects, if any.

37) RETENTION

A 10% retention will be withheld on payment for each of the first five construction phases. The Department will pay out half of this retention, or 5% of the bid value as part of the sixth 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. See *ANNEXURE C: Payment Schedule* for details.

38) DEFECT LIABILITY PERIOD

An amount of 5% of the contract value for the works will be withheld as defect liability retention. This amount is included in the 10% retention. The contractor shall unconditionally guarantee all materials, workmanship related to the works for a minimum period of three (3) months. The



guarantee shall cover any defects due to inferior materials and/or workmanship of the Contractor, or any of his sub-contractors, fair wear and tear excepted. The Contractor shall repair, remedy or replace any such defects, part or complete works without delay and at his own cost.

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

39) CONTINGENCIES

An amount of 10% of the subtotal for all materials, equipment and services has been set aside for Contingencies. These will only be available to the service provider for unforeseen additional expenditure not covered in the contract due to circumstances that have occurred after commencement of the works. Any contingency must be agreed upon in writing with motivation indicating the cost implications. This must be agreed between the Contractor and the Engineer in writing before the commencement of any procurement of the required goods or services.

Although the total bid price/quote includes the Contingencies amount, whether or not, or how much, of these contingencies will be paid depends on whether or not, or to what extent, these contingencies were approved and implemented.

40) SERVICE LEVEL AGREEMENT

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 2 (two) weeks of receiving notification of a successful bid. A required payment schedule will be made in accordance with % works complete (based on installation/work completed on site). Verification of the % complete will be at the sole discretion of the Engineer.

41) COMMENCEMENT OF THE WORKS

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 after practical completion. 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 circumstances such as inclement weather or other outside the control of either party to the contract prevail. In the case the work has not commenced within three weeks of the hand-over and no attenuating circumstances for the delay can be provided, the Department reserves itself the right to cancel the contract and appoint one of the other contractors that have Bid for the works.

42) RATE OF PROGRESS

The Works shall be completed within the time period indicated on the official order form.

If the Works are delayed by cessation of work by any workmen, inclement weather, or by any omissions, additions, substitutions or variations of the Works, or of any items of work, labour or material, or by an other causes beyond the Contractor's control then the Contractor shall have the right within twenty-one days of any such cause of delay arising, to apply in writing to the Department to extend the date of completion, stating the cause of delay and period of extension applied for. The Department upon receipt of such written application may by order in writing



extend such date of completion by a period to be determined, or may refuse to extend such date of completion, or may postpone giving a decision upon such application until completion of the Contract period set out in sub-clause (a) of this clause. The date of completion will be extended only to the extent approved by the Department. Should the Contractor fail to apply in writing for an extension within the time set out above, or should the Department refuse to grant any extension in writing, then the Contract period provided by sub-clause (a) of this clause shall not be exceeded. When the Works are completed the Department will give a completion certificate and the date of such certificate shall be the date of commencement of the guarantee period.

43) TIME TO BE OF THE ESSENCE

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

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

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

44) PROGRAMME AND PROGRESS PAYMENTS (AFTER CONTRACT AWARD)

The contractor is to supply a Gantt chart with the proposed times of completion of each phase and associated progress payment request for the project. Seven (7) progress payments are suggested at any of the stages as detailed in **Annexure C**.

45) PERIOD OF COMPLETION

The project is to be completed **within 4 months of award of the contract (120 calendar days)**.

46) PENALTY CLAUSE / FINES FOR LATE OR NON-COMPLETION

If the contractor does not complete the work **within the time stipulated** and no extenuating circumstances can be given for the delay, the Department may impose a fine as detailed below. The total will be subtracted from the retention allowance. If the contractor fails to complete the works and the Department is forced to employ another contractor to complete the works, the defaulting contractor will be held liable for the costs as far they exceed the original total Bid value. The Engineer may decide to deduct a penalty for late completion of up to **0.05% of the contract value per working day delay**. This will be deducted from the retention.



C | SCOPE OF WORKS

The contract covers the supply of all material and fitting and construction of all works relating to the shed storage facility. The following are the detailed scope of works for the pack house storage facility:

1. Site selection and establishment;
2. Earthworks: Excavate topsoil from the shed area and surrounding zone ensuring that all bases will be located into 'cut'. See site preparation specification and drawing; Excavate site platform and banks to desired level and slopes.
3. Bases: Accurately set out; excavate; cast and cure all concrete bases for the shed as per the attached plan with required reinforcing in bases as per specification.
4. Steel structure: Supply and erection of an engineer certified steel portal frame structure with 0,5mm widespan IBR galvanised roof sheeting. The building is to be fitted with bubble foil insulation under the roof sheeting suitably fitted and tensioned. The structure is to be fitted with the following finishes: roof closures throughout; guttering and down pipes; roof flashing and barge boards; cladding as per drawing; 2 roller shutter doors (2.5m wide x 2.8m high).
5. Foundations: Excavate foundation trenches, dispose or stockpile soil, compact, provide and install foundation reinforcing, supply, mix, pour, compact, finish and cure concrete to level and specification.
6. Foundation wall: Supply and delivery of materials for foundation wall, construction of foundation walls to specification.
7. Floor: Excavate to final floor level, stockpile materials or dispose, compact in-situ material, Soil treatment (ant poisoning), damp proofing, provide and install formwork for floor (well/adequately braced) Provide and install reinforcement works for floor area, Supply, mix, pour, compact, finish and cure concrete to specification.
8. Walls: DPC placed under walls, walls built up including brick-reinforcing as specified, doors, window, lintels, and columns built in as specified.
9. Finishings:
 - 9.1 Plastering (inside and outside),
 - 9.2 Sills and window surrounds,
 - 9.3 Glazing,
 - 9.4 Painting,
 - 9.5 Tank stands and tanks,
 - 9.6 Plumbing,
 - 9.7 Topsoil replacement and re-shaping,
 - 9.8 Repaint any damaged metalwork and paint exposed steelwork,
 - 9.9 Final clean-up of site.
10. Septic tank & French drain. This is optional and whether or not it is required will be explained at the bid briefing.



D | PROJECT TECHNICAL SPECIFICATIONS - SHED

PLEASE NOTE: This pack shed provides basic infield agricultural packaging facilities for irrigation farmers producing on a 1 hectare vegetable production plot. Quantities for harvesting and cleansing **consumables** tabled should be adapted with the discretion of the planner for areas larger than one hectare. **The portal shed itself is sufficient for processing the fruits & vegetables production of 10 hectares. This standard plan should not be utilized for production areas larger than 10 hectares without further consultation. Practical manual harvesting and cleaning methods are proposed.**

1. General

Materials and quantities listed are for adjudication purposes. The contractor must add additional materials to the given list and indicate in writing if not in agreement with the list of materials provided. Materials and quantities must be obtained from the list provided, from specifications and from the four drawings.

2. Drawings

The following drawings should be consulted in conjunction with these specifications & Pricing schedule:

- Drawing 1: RDN/2018/014/STO (PLAN)
- Drawing 2: RDN/2018/015/STO (ELEVATIONS)
- Drawing 3; RDN/2018/016/STO (CROSS SECTION).
- Drawing 4: RDN/2018/017/STO (PLUMBING & DRAINAGE)
- Drawing 5: RDN/2018/013/NUR (TANKSTAND)

Electronic drawings are available on request. The contractor to confirm all dimensions on site and report any discrepancies to the Engineer.

3. Norms and standards

All work shall be carried out in accordance with SANS and NBR standards and Codes of Practice and/or manufacturer's specifications or recommendations in so far as such specifications etc.

4. Steel portal structure

- Dimensions: 9.18m x 5.20m x 4.20m (column height).
- Double pitched roof with 15 degrees pitch (bay length 5.00m)
- All purlins galvanized.
- Roofing to be 0.5 mm full hard Chromadek IBR with Opal 50 (white) polycarbonate sheets (2 on each side).
- 1.7m high cladding on sides and eaves with white Opal 50 polycarbonate windows as indicated on drawings.
- Steel portal shed structure to be supplied, delivered and erected shall conform to SABS 0160, SABS 0162 & SABS 0162 part 2 of the design codes. All structural steelwork shall also comply with SABS 1200 H or 1200 HA as applicable. Each structure shall also be supplied with an Engineering certificate issued by a qualified Professional Engineer and general arrangement drawings. The steel frame shall consist of sound steel structure pre-drilled and ready for assembly. The structure shall be constructed from steel only no timbers to be used.
- Protective coating: All cold formed lipped channels, base plates, nuts, bolts, washers and steel plates of the structures shall be hotdip galvanized (HDG) and comply with



SABS 763 specifications.

- Please note that the pedestrian door is to be fitted in the long side of the building, NOT next to the roller shutter door. Roller shutter door to be fitted in centre of short side.

5. Bases, strip foundation

The cement, sand and stone for the portal base foundations of the structure shall be supplied by the steel supplier. Portal foundation bases to be placed 650mm below the natural ground level, with top 150mm above NGL. Depth of strip foundation base: 500mm. No foundation bases to be placed on fill material. The top of the foundation bases to be at least 150 mm above the platform level. It is the contractor's responsibility to level the site and base foundations. Strip foundations are required between the portal base foundation footings. A 230mm brick foundation wall (use cement bricks or NFX solid bricks) to be built on the strip foundation and between the support columns only up to finished floor level (FFL).

6. Excavation and backfilling

All excavation, leveling and backfilling to be included. Filling material over the site shall be spread, leveled, watered and consolidated in layers not exceeding 300 mm. Filling under the concrete slab floor and backfilling to excavation shall be suitable inert material, free from vegetable matter, large stones, etc. Soil with a maximum plasticity index of 10, spread, leveled and compacted to a density of 95 % Mod.AASHTO.

7. Water proofing

Damp proof sheeting to be placed under concrete floors. (250 micron gunplas USB green water proof sheeting sealed at laps with approved gunplas pressure tape or similar approved. One layer of 375 micron consol plastics DPC used under 230 mm brick walls or similar approved. All to comply with SABS 952.

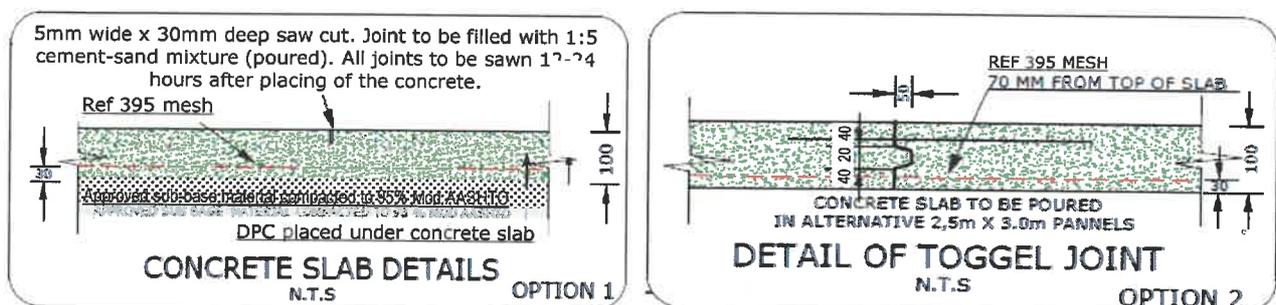
8. Reinforced concrete floor

Crushed 25MPa/19mm stone reinforced with Ref. 395, 100 mm thick concrete floor slab in the shed.

Option 1: Ready mix poured all at once, power or steel floated. Saw cutting at 3.0m intervals (lengthwise) and 2.5m intervals (widthwise) required within 24 hours. Further details are shown in Figure 1. Spacers or steel stools to be used to obtain uniform / minimum 50 mm concrete cover over reinforcing placed in the bottom part of the slab. All in situ concrete work shall comply with SABS 1200 G.

Option 2: Cast in alternative panels using expansion joints, power or steel floated.

Figure 1: Two joint options for the floor slab





The floor has a **central drain** that has Mentis trench cover grating or equivalent. These drainage channel cover panels (1000 x 300mm, pitch: 20mm x 20mm), are removable to allow periodic cleaning. The floor has a cross-shaped slope of 1-2% with the superficial V-drains discharging in the drain. See *Drawing 4: Plumbing & Drainage*.

9. Brick work and M150 blocks

Full brick walls (230mm) below slab level. All perpendes shall be vertically aligned. Brickwork shall be built in stretcher bond, to a true and fair face. Use NFX bricks (dimension 222 x 106 x 73 mm) or cement bricks (230mm). Bricks shall be laid on a solid bed of mortar and **all joints shall be grouted up solid**. Clay bricks to be moist before laying. M150 blocks to be built above slab level and up to 2.8m. The blocks to have **brick force** every 2nd course. Brickwork below slab level to have brick force in every course.

10. Soil insecticides/soil poisoning

Work ("soil poisoning") shall be carried out in accordance with the application of soil insecticides for the protection of buildings: SABS 0124.

11. Plastering

Cement plaster on all brickwork (internal and external) above ground level. Plaster shall be not less than 10 mm and not more than 20 mm thick. Suggested plaster mix shall comprise of 14 cement and 1.8 m³ sand per 100 m² of wall (1:4 mix). In this case, (80m²) the plaster mortar would require 11 bags of cement and 1.5m³ of plaster sand. Sand plaster and mortar to comply with SABS 1090.

12. Paint work on plaster

One coat 'Merit Alkali Resisting Plaster Primer' thinned with 10% turpentine and two coats of Super Acrylic interior and exterior PVA paint or approved alternatives.

13. Fire extinguisher

One portable fire extinguisher of type dry chemical 4,5kg see SABS 810, SABS 889, SABS 1151. This should be serviced and maintained in accordance with SABS 0105. Clear sign posting of exit route to be displayed. Position of portable fire extinguisher to be clearly displayed in accordance with SABS 1186. - SANS 10400 1990

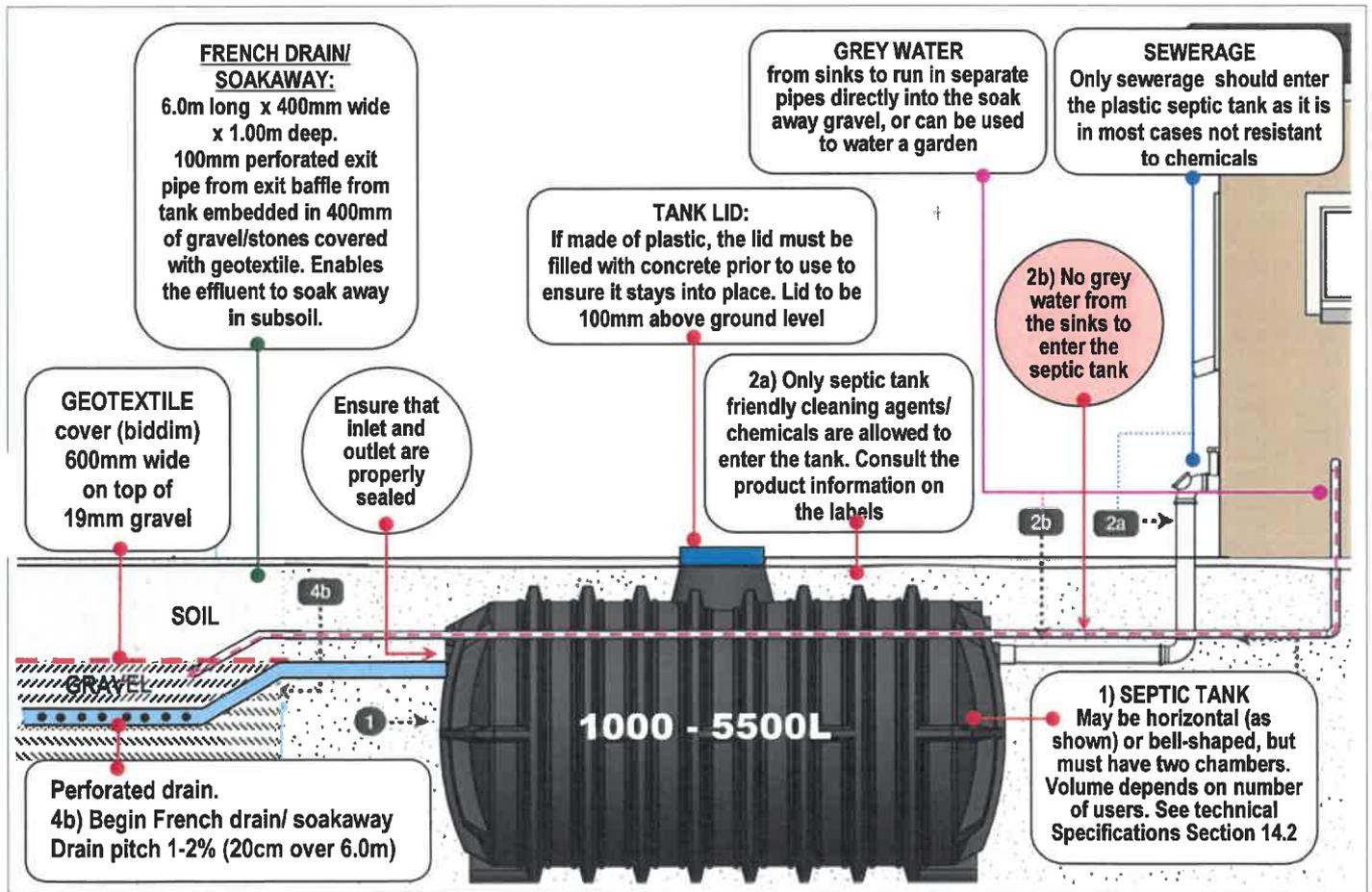
14. Plumbing, septic tank & French drain.

- 14.1 In the absence of municipal lines, a water pipeline (25mm) should connect the tanks and the two taps on the sink, the hose tap and the toilet cistern as per Drawing 4.
- 14.2 The use of a flushing toilet and sink requires the connection of the shed to a waste & grey water collection/processing facility. This could be an existing municipal sewer system or, in the absence thereof, a septic tank with French drain. In both cases the contractor is responsible for the installations and connections. **In the case of a septic tank a professional plumber should do the installation.**
- 14.3 It should have two compartments/chambers each with an inspection hole of at least 350mm diameter. If a plastic tank is installed, the plastic hollow lid should be filled with concrete. The inspection hole should be at least 100mm above the ground.
- 14.4 The tank should be a pre-manufactured one (plastic or concrete). Tank volume depends on number of people using the facilities. Tick applicable option below.

No. of users	Tank volume (L)	Tick box	No. of users	Tank volume (L)	Tick box
Up to 4	1000		Up to 12	3000	
Up to 6	1500		Up to 15	4500	
Up to 9	2500	✓	Up to 25	5500	

- 14.5 The exit pipe should be a perforated sewer pipe of 100-110mm diameter with holes or slits for the effluent to exit.
- 14.6 The tank exit pipe should enter into a French drain of at least 6m long, 400mm wide and 1.00m deep. It should be embedded in gravel 300mm deep which should be covered with geo textile fabric and, on top of that, soil.
- 14.7 The pipe should run at a pitch of 1-2%, with the lower end of the 6m long pipe approximately 10 cm lower than the top end of the pipe.
- 14.8 If a plastic septic tank is installed, the grey water coming from the basin, should bypass the septic tank and run direct into the French Drain. Alternatively, the grey water from the sinks could be taken outside the building and used for the watering of a garden.
- 14.9 In case of a soft tank foundation, a 25MPa/19mm concrete slab of 100mm thick should be cast with Ref 395 to extend to 200mm beyond the tank's footings.

Figure 2: Septic tank installation



**E | PROJECT TECHNICAL SPECIFICATIONS - EQUIPMENT**

The following equipment and consumables are required:

HARVESTING				
Equipment / Material	Purpose	Qty	Dimensions	Ref. Photo
Plastic Crates	Carrying, transporting, drying & storing of produce	250	500 x 350 x 350mm	2
Secateurs (heavy duty pruning scissors)	Cutting produce from plants	10	210 mm	1
Leather Garden Cloves	Harvesting of Thorny produce	10		1
Shade Cloth (80%)	Protecting produce from sun exposure	1	5m x 3m	2

CLEANING				
Equipment / Material	Purpose	Qty	Dimensions	Ref. Photo
Stainless steel trestle table with bottom shelf & splash back.	Handling of produce	2	1.8-2.0m long 700-1000mm(w) 800mm (h)	3
Double sink 16-18 gauge (1.2mm min.) stainless steel with two drain boards and 100-200mm splash back. Legs with adjustable foot pieces.	Cleaning / Rinsing produce	2	2.0-2.5m (l) x 700-1000mm (w) x 850- 950mm (h). Sinks to be 300- 500mm deep	4
Honey comb kitchen cloth cotton	Cleaning produce	10	60 x 40cm	
Sterilizing fluid e.g. Milton	Sterilizing produce	1	5L Can	5
Sterilizing Hand wash	Personal hygiene	2	1L Bottles	
Cotton hand towels	Personal hygiene	2	900-1000mm x 500mm	
Hose pipe	Cleaning produce, equipment & shed	1	30m x 20mm	6
Hose connector Brass	Cleaning produce, equipment & shed	2		
Tap adaptor Female - Brass	Cleaning produce, equipment & shed	1		
Nozzle Adjustable - Brass	Cleaning produce, equipment & shed	1		



REFERENCE PHOTO'S



Photo 1:
Secateur and fabric & leather gloves



Photo 2:
Heavy duty non-foldable plastic crates (open on the sides) and shade cloth (green, 80%)



Photo 3:
Stainless steel trestle table with splash back and height adjustable legs.

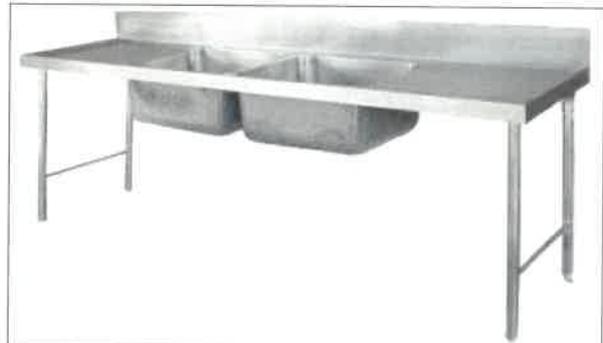


Photo 4:
Double sink with adjustable legs, double drain board and splash back. All stainless steel.



Photo 5:
Sterilising fluid



Photo 6:
30m x 20mm fabric reinforced garden hose with inner hose, resistant to twisting and kinking. (SANS271:2005)

**ANNEXURE A LIST OF EQUIPMENT PLUS PRICING SCHEDULE FOR BASIC INFIELD MINI PACK HOUSE FACILITY**

1

Harvesting:							
Equipment / Material	Ref. Photo	Purpose	Est. Dimensions	Quantity / ha	Qty Req	Unit price	Amount
Plastic Crates	2	Carrying, transporting, drying & storing of	500 x 350 x 350mm	250	250		
Secateurs, Scissor (Heavy duty)	1	Cutting produce from plant	210 mm	10	10		
Leather Gloves	1	Harvesting Thorny produce		10	10		
Shade Cloth (80% shade)	2	Protecting Produce from sunburn damage	5.0m x 3.0m	1	1		
Cleaning:							
Equipment / Material		Purpose	Est. Dimensions	Quantity / ha	Qty		
F Stainless steel trestle table	3	1.8-2.0m (l) x 0.7-1.0m(w) x 0.8m (h)		1	1		
Double sink with adjustable legs & splash back (stainless)	4	2.0-2.5m (l) x 700-1000mm (w) x 850-950mm (h). Sinks to be 300-500mm deep.		1	1		
Cleaning cloth (Kitchen)		Cleaning produce		10	10		
Sterilizing Chemical eg. Milton - Lit	5	Sterilizing produce		5L	5L		
Sterilizing Hand wash - Litres		Personal hygiene		2	2		
Towels		Personal hygiene	900-1000mm x 500mm	2	2		
Hose pipe		Cleaning of produce, equipment & building	20mm x 30m	1	1		
Hose connector - Brass		Cleaning of produce, equipment & building		2	2		
Tap adaptor Female - Brass		Cleaning of produce, equipment & building		1	1		
Nozzel Adjustable - Brass		Cleaning of produce, equipment & building		1	1		
TOTAL							R

Transfer total to item 44 of Annexure B: Consolidated Pricing Schedule >>>

**9 x 5 M PACK SHED | SCHEDULE OF QUANTITIES & WORK | PAGE 2**

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R

DESCRIPTION		UNIT	QTY	RATE	AMOUNT
D) FOUNDATIONS & FOUNDATION WALLS					
17	Excavate, remove soil, compact, reinforce foundations. Dimensions trenches 0,6m (D)x 0,6m (W). Total length: 28m	m ³	10		
18	Pouring of 20MPa/19mm concrete foundations to level. 250mm (thick) x 600mm (wide) x 28m. Concrete volume.	m ³	4.2		
19	Foundation walls incl. brick force (B/F). 5 courses of full brick wall (230mm wide) of cement bricks. Include 300 cement bricks for ramps. Total 1800 bricks.	Sum	1		
E) FLOOR					
20	Excavate & compact. Item – fully priced to specification	Sum	1		
21	Soil poisoning. Treat soil (ant poison). Size of area to be treated	m ²	60		
22	Place damp proofing and reinforcing	Sum	1		
23	Construct floor to finished floor level. 100mm thick with Ref 395.	Sum	1		
25	Construct concrete aprons (20 MPa/19mm . 2500 x 100mm around entire structure. 8.4m ³ of concrete, 7 sheets of Ref 193.	Sum	1		
26	Concrete slabs 20 MPa for ramps with Ref 395 (1 sheet of 6.00m x 2.50m). 12m ² x 100mm = 1.2m ³	Sum	1		
F) WALLS					
27	Under wall DPC 250mm.	m	30		
28	M 150 block walls built up to 2.80m height, incl. lintels, Brick force. No. of blocks: app. 1000 (955+ breakage).	Sum	1		
29	Plastering (inside only). 80 m ²	Sum	1		
G) WATER SUPPLY & PLUMBING					
30	Water tank 2500L plus tap, fittings.	No.	2		
31	Tank stand, 3.2m x 1.5m. height: NGL + 500mm. See drawing 3. Made of 3 courses of M150 blocks on top of a 500 x 200mm 15 MPa/19mm strip foundation. Stand to be built near toilet.	Sum	1		
32	Ceramic basin with one chrome tap + piping and fittings to tank if no water mains pressure system is available.	Sum	1		
33	Brass taps (20mm) with smooth spouts for sinks and basin	No.	3		
34	Brass tap (20mm) with threaded spout to connect hose pipe to.	No.	1		
35	All piping and fittings for water connections (20mm and 25mm HDPE Class 9 or polycop. App 25m in total	Sum	1		
TOTAL (TRANSFER TO NEXT PAGE) >>> R					

**ANNEXURE B: CONSOLIDATED PRICING SCHEDULE/ SCHEDULE OF QUANTITIES**

9 x 5 M PACK SHED SCHEDULE OF QUANTITIES & WORK PAGE 1					
ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A) PRELIMINARY AND GENERAL					
1	Insurances; WC; UIF; Project admin etc	Sum	1		
2	Site establishment	Sum	1		
3	Quality controls, soil compaction testing etc...	Sum	1		
B) SITE PREPARATION					
4	Clearing of entire panel (20 x 15m);	Sum	1		
5	Site levelling (20 x 15m)	Sum	1		
C) STEEL STRUCTURE					
6	Bases/footings for steel structure (600 x 600 x 800mm) – To Structural Engineer's specifications	no.	4		
7	Anchor bolts for bases for steel structure Y10 (600mm 2 or 4 per base with stirrup. See Drawing 3 Detail C.	m	20		
8	Supply of portal frame steel structure with roof cross braces. Exclude Chromadek sheets. Columns 140 IPE. See Drwng 3.	Sum	1		
9	Supply & installation of roofing sheets IBR - Chromadeck Azure blue, 0.54mm. 4.8m: 12x. - Polycarbonate Opal 50 (white) 4.8m: 4x - Roof cap (1x) & Corner pieces (4x)	Sum	1		
10	Supply & installation of cladding IBR - Chromadeck azure blue 0.54mm.1.80m long: 12x - Chromadek various lengths (1.8m, 2.1m, 2.45 & 2.60m): Total: 18x - Poly carbonate Opal 50 (white) various lengths: 1.9m (4x) <> .2.3m: 4x <> 2.7m: 2x	Sum	1		
11	Transport of steel to site	Sum	1		
12	Erection of steel structure	Sum	1		
13	Supply & installation of fittings, insulation, etc. priced to specs.	Sum	1		
14	Supply of seamless aluminium gutters (5m length) on both sides with aluminium downpipes to tanks.	Sum	1		
15	Supply & installation of 1 steel industrial pedestrian door. 18 ga	No.	1		
16	Supply & Installation of 24 gauge ribbed steel roller shutter door of 2.50m x 2.80m with manual hoisting mechanism.	No.	2		
TOTAL PAGE 1: TRANSFER TO PAGE 2 >>>				R	



9 x 5 M PACK SHED SCHEDULE OF QUANTITIES & WORK PAGE 3					
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	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
G) WATER SUPPLY & PLUMBING (CTD)					
36	All grey water piping (50mm PVC-app 5m)) and sewer piping (110mm). Closed (\pm .15m) and with slits (6m). Include trenching.	Sum	1		
37	Ceramic toilet bowl plus connection to mains or tanks.	Sum	1		
38	Double chamber septic tank plus French drain as per specs section 14 ¹ . Include all excavations, connections to toilet, basin and sink. Required volume of septic tank: 2500L . See Drawing 4.	Sum	1		
H) MISCELLANEOUS					
39	Supply & Installation of NE1 window in toilet. Incl. sills, glazing	Sum	1		
40	Painting walls (inside only): 20L of PVA + 10L of plaster primer	Sum	1		
41	Supply & installation of portable fire extinguisher dry chemical 4,5kg. Include sign posting.	Sum	1		
42	Galvanised Mentis trench cover grating. Three panels (1000 x 300 x 3.3mm, pitch: 20mm x 20mm). With 2 x 3.0m of angle iron 40 x 40 x 3.0mm, galvanized. Include installation of angle iron.	Sum	1		
43	Site cleaning etc.	Sum	1		
I) EQUIPMENT TOTAL, LABOUR & SUPERVISION					
44	Total of all equipment transferred from ANNEXURE A	Sum	1		
45	Labour	Sum	1		
46	Site supervision	Sum	1		
SUB TOTAL including Labour & Supervision				R	
47	Contingencies 10% of SUBTOTAL			R	
SUB TOTAL including Labour, supervision & contingencies				R	
48	VAT 15%			R	
TOTAL INCLUDING VAT				R	



ANNEXURE C : Payment Schedule: Pack Shed 9 x 5m

PAYMENT#	PHASE DESCRIPTION	App. % of contract	Payment after completion of phase	
1	Preliminary and general/Site establishment 1) Insurances, project risk, workmen's compensation, UIF etc... 2) Project administration, services, external services, testing, safety, provision of all required equipment for works at required times etc... 3) Site preparation and establishment Setting up works – Excavations (accuracy class 2) 1) Remove topsoil to 100mm depth and stockpile. 2) Excavate to level (See site leveling detail plan) 3) Survey, measure and mark out all bases. 4) Excavate bases and place reinforcing into bases. Concrete casting- Bases 1) Supply of all materials for concrete bases to shed specification 2) Mix, pour, compact, finish and cure concrete to specification	10%	9.0%	
2	Erection of steel structure. 1) Supply of complete portal frame structure and roofing. 2) Erection of steel structure. 3) Installation of insulation, roofing, cladding, gutters	28%	25.2%	
3	Foundations for internal and external walls 1) Excavate foundation trenches to level (accuracy class 2). 2) Stockpile materials or dispose as ordered. 3) Compact the in-situ material to Engineers approval. 4) Provide and install reinforcement works for the foundations. 5) Supply of all materials for concreting. 6) Mix, pour, compact, finish and cure concrete to specification. Foundation walls 1) Supply and delivery of materials for foundation wall. 2) Construction of foundation wall to specification.	12%	10.8%	
4	Flooring 1) Excavate to final floor levels-stockpile soil or dispose as ordered. 3) Well compact the in-situ material to Engineers approval. 4) Soil treatment (ant poisoning) 5) Damp proofing 6) Provide and install formwork for floor & aprons (suitably braced) 7) Provide and install reinforcement works for floor area & aprons. 8) Supply, mix, pour, compact, finish and cure concrete to specification.	15%	13.5%	
5	Walls 1) DPC placed under walls 2) Walls built up to specification, doors, windows. 3) Plastering of shed on inside	15%	13.5%	
6	Finishings 1) Sills and window surrounds, Glazing, Painting 2) Tank stands and tanks, plumbing, guttering; 3) Septic tank & French drain 4) Supply of all equipment- see ANNEXURE A 5) Site clearing, topsoil replacement and re-shaping 6) Repaint any damaged metalwork 7) Clean up of site	20%	18.0%	23%
	b) Retention money 5% at practical completion	--	5%	
7	Retention money 5% at final completion after 90 days	0% if no defects	5%	
	TOTAL	100%	100%	

**ANNEXURE D:*****Additional Information*****1) EQUIPMENT & RESOURCES:**

Please provide an indication of the equipment and resources which will be available to execute the services required:

No	Equipment and resources available in order to execute the services:
1	
2	
3	
4	
5	

2) SUB CONTRACTED WORKS: Please list which parts of the works will be sub-contracted.

No	Sub Contractor	Associated works	%
1			
2			
3			
4			
5			



3) EXPERIENCE: Please indicate your experience and expertise by completing the table:

No	Name of project + Period	Project description	Role (self or sub-contracted)	Project value	Name and contact number of referee
1					
2					
3					
4					
5					



EVALUATION MATRIX (CTD)		Points %	Score
SUBMISSION OF A SHORT DESCRIPTION OF THE INTENDED IMPLEMENTATION METHODOLOGY INDICATING TIME FRAMES TO COMPLETE THE WORKS.		[20]	
3	<i>1. Implementation methodology has been submitted with original bid and methods and time frame are realistic and demonstrate a clear understanding of the intended project scope.</i>	20	
	<i>2. Implementation methodology plan has been submitted with original bid, but methods and time frame are unrealistic or show lack of capability.</i>	12	
	<i>3. Implementation methodology plan was not submitted.</i>	0	
TOTAL		100%	

**ANNEXURE F:****LIST OF DRAWINGS**

NO.	REFERENCE NO.	TITLE
1	RDN/2018/014/STO	PACK SHED 9 X 5M - PLAN
2	RDN/2018/015/STO	PACK SHED 9 X 5M - ELEVATIONS
3	RDN/2018/016/STO	PACK SHED 9 X 5M - CROSS SECTION
4	RDN/2018/017/STO	PACK SHED 9 X 5M - PLUMBING & DRAINAGE
5	RDN/2018/013/NUR	PACK SHED 9 X 5M - TANKSTAND FOR 2 X 2500L TANKS

>> *Please note: Indicated drawing scales are those when printed on A3 size.*

NOTES

REVISIONS		
No.	Description	By / Check

KZN DEPARTMENT OF AGRICULTURE & RURAL DEVELOPMENT



ENGINEERING SERVICES
 4 PINDAR AVENUE / PRINATE BAG 168005
 HILTON / 3045 / PHONE: 033-3488300
 FAX: 033-3488443

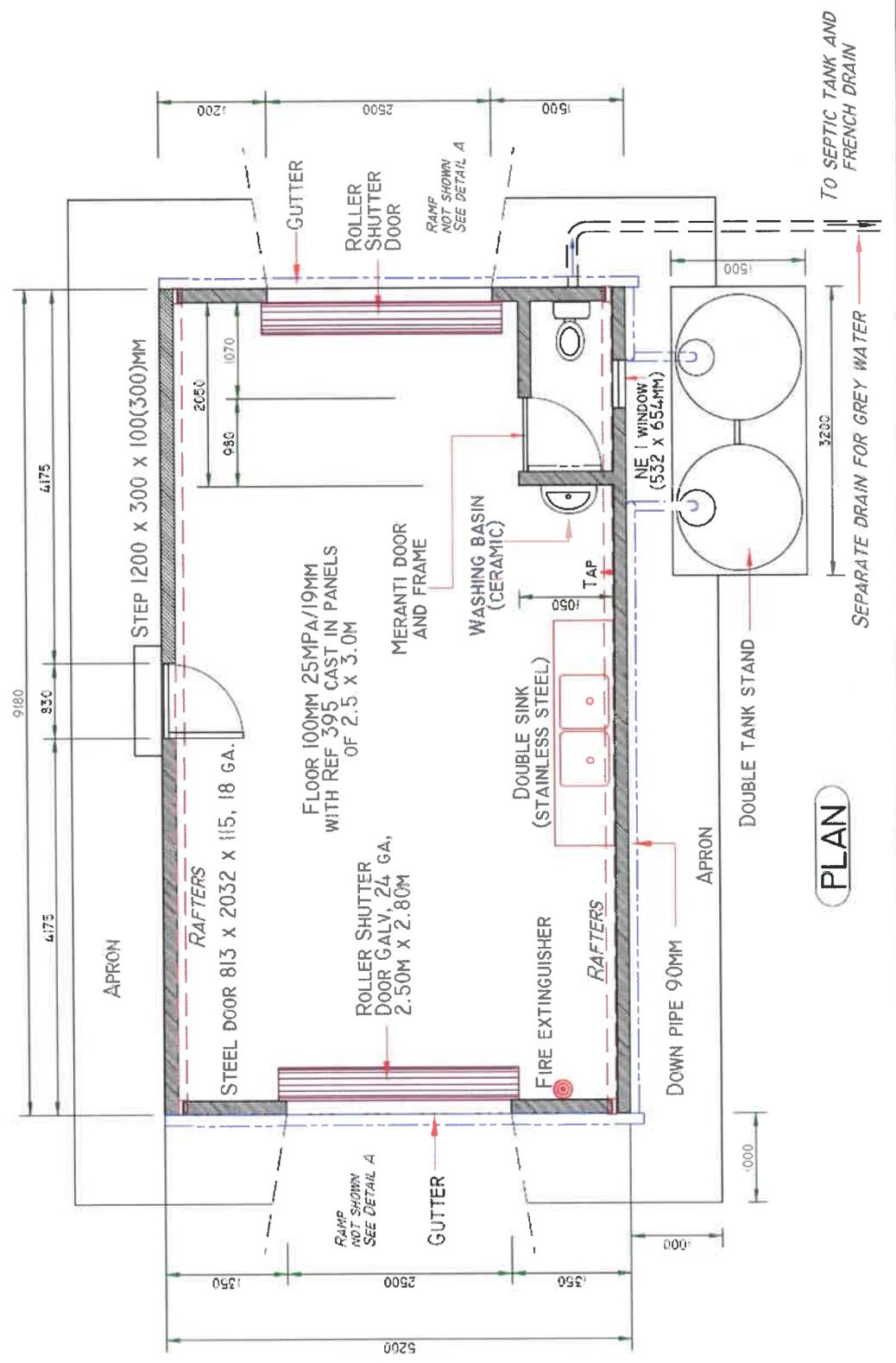
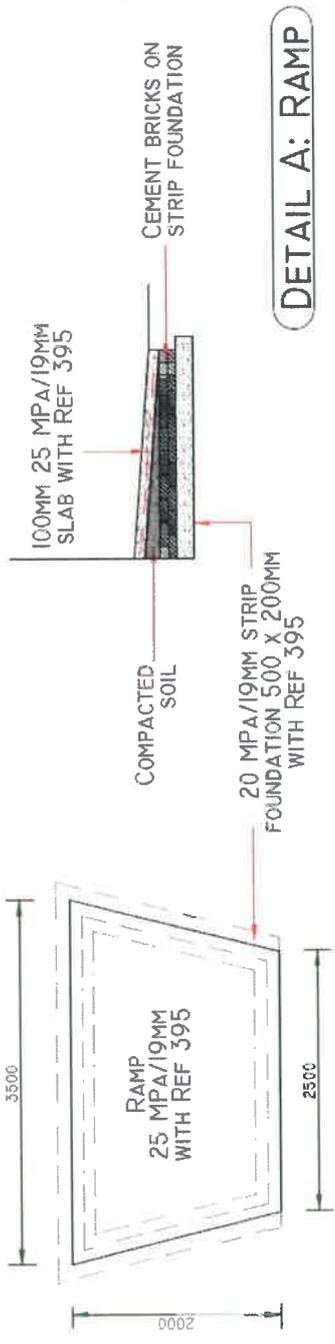
CLIENT: P&P / 23/09/20	DATE: _____
PA: Eng. JBM	DATE: _____

**DRAWING 1
 PACK SHED
 9 X 5M**

PLAN

USE GENERAL			
DRAWN	DATE	SCALE	DATE

DRAWING NUMBER	REV.	DATE	BY	CHK.	DATE
RIDIN2101180114	1	14/10/20			



NOTES

REVISIONS		
NO.	DATE	DESCRIPTION

**KZN DEPARTMENT
OF AGRICULTURE &
RURAL DEVELOPMENT**



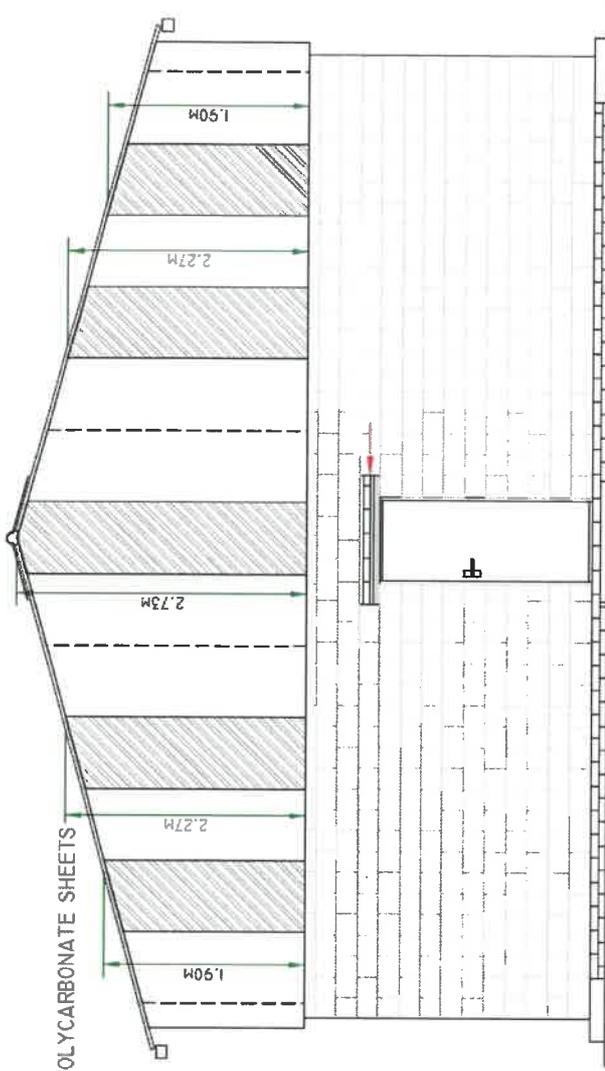
ENGINEERING SERVICES
4 PINOAK AVENUE / PRIVATE BAG 46005
HILTON / 3245 / PHONE : 033-3438300
FAX : 0333438443

CHECKED BY: V.2010JFD	DATE: _____
PL. ENGINEER	DATE: _____

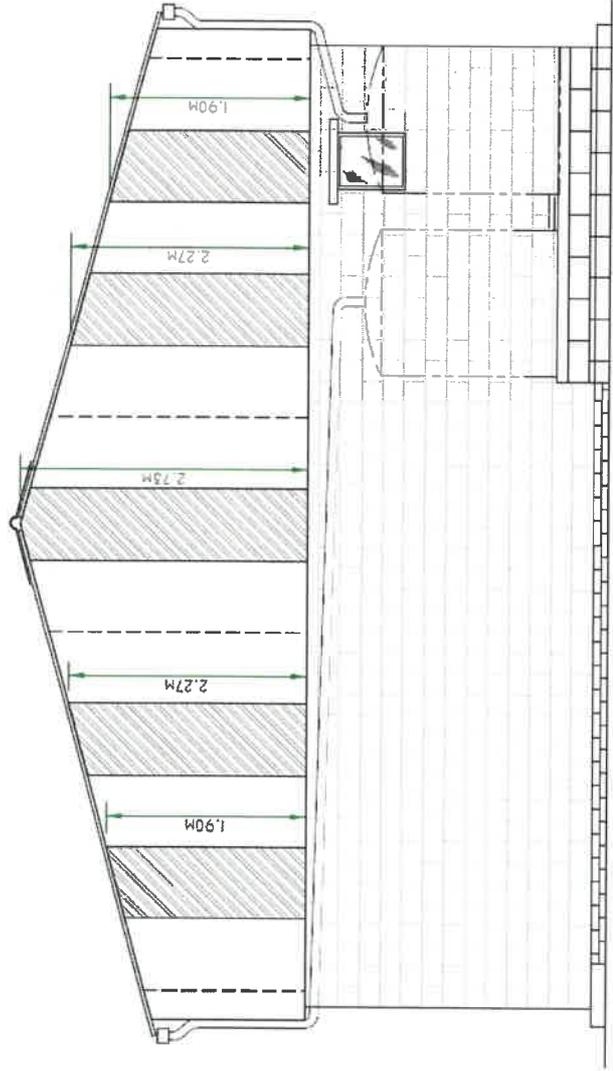
**DRAWING 2
PACK SHED
9 X 5M
ELEVATIONS**

USE: GENERAL			
DRAWN	P. NO. DRAWN	CHECKED	P. NO. CHECKED
DATE		DESIGNED	
SCALE		CHECKED	
DRAWING NUMBER		YEAR	

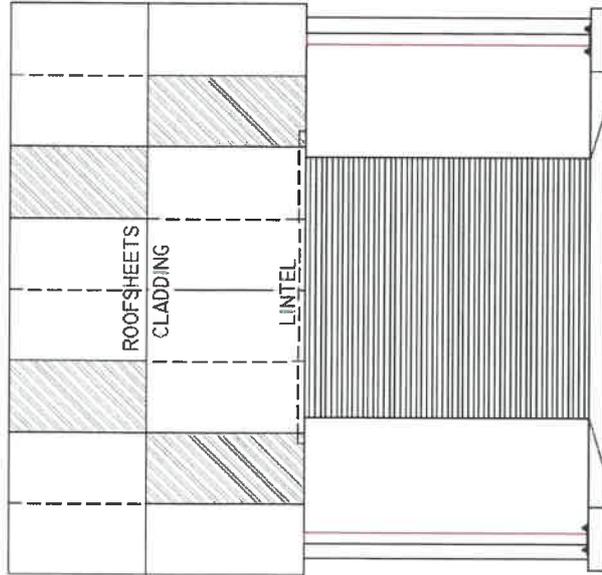
APPROXIMATE LENGTH OF POLYCARBONATE SHEETS



STEP 1200 x 300 x 100
SOUTH SIDE



NORTH SIDE

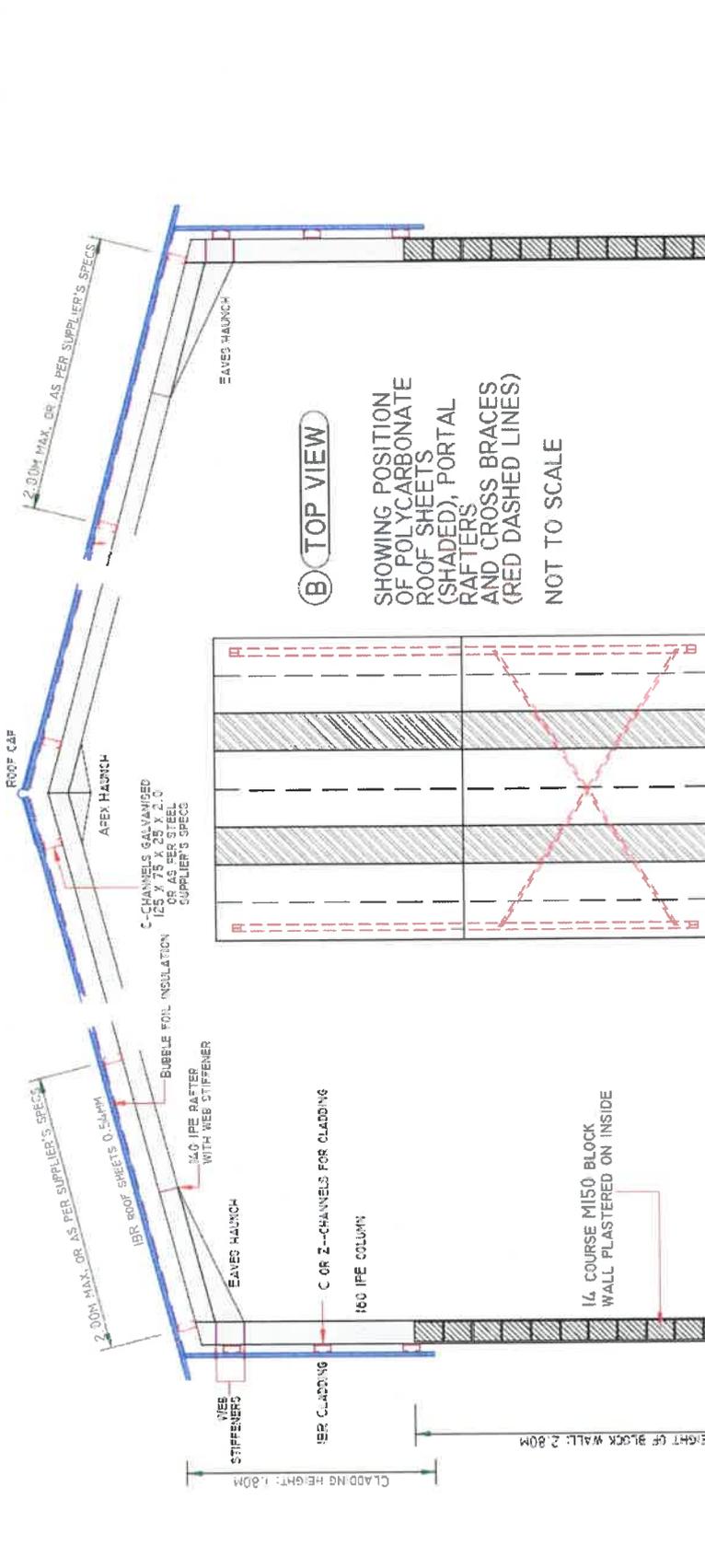


FRONT & BACK

SHOWING LOCATION OF POLYCARBONATE SHEETS

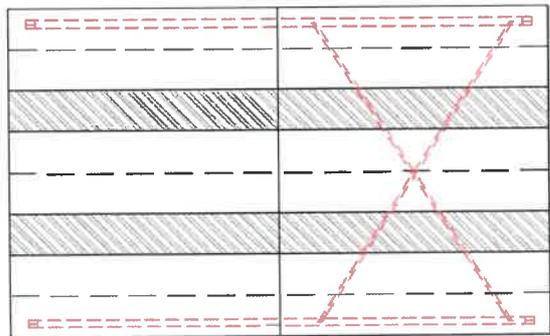
NOTES

(A) CROSS SECTION



(B) TOP VIEW

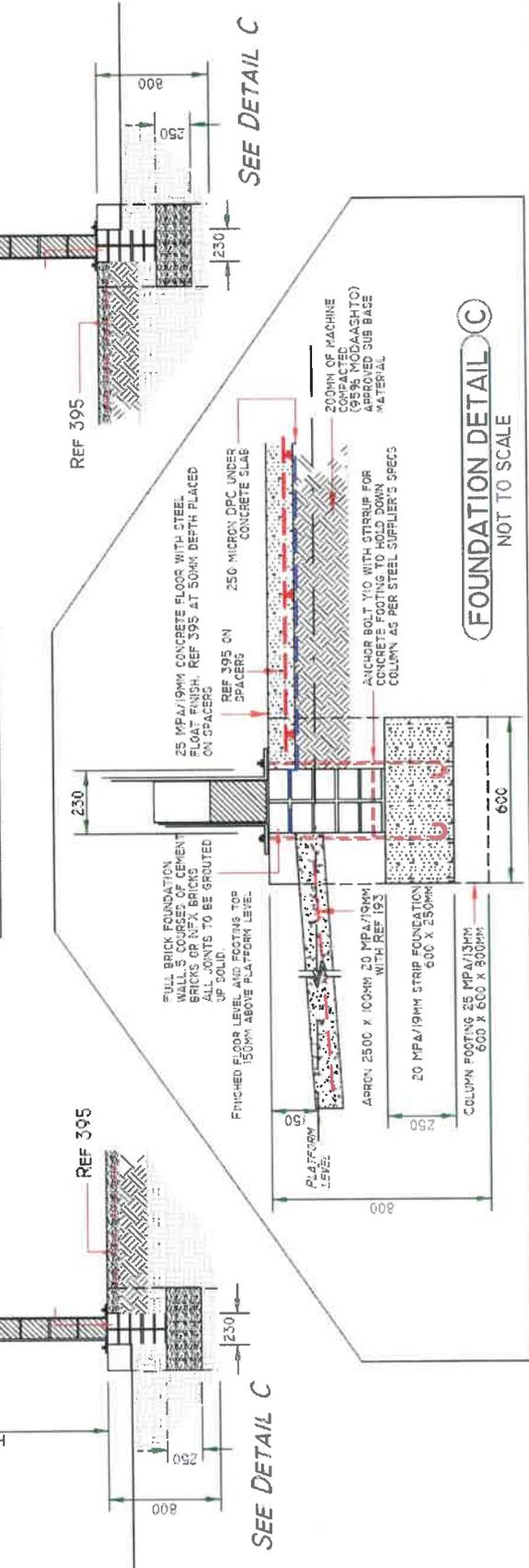
SHOWING POSITION OF POLYCARBONATE ROOF SHEETS (SHADED), PORTAL RAFTERS, AND CROSS BRACES AND CROSS BRACES (RED DASHED LINES)
NOT TO SCALE



SEE DETAIL C

SEE DETAIL C

(C) FOUNDATION DETAIL C
NOT TO SCALE



REVISIONS	
No.	Description
1	As Issued

KZN DEPARTMENT OF AGRICULTURE & RURAL DEVELOPMENT

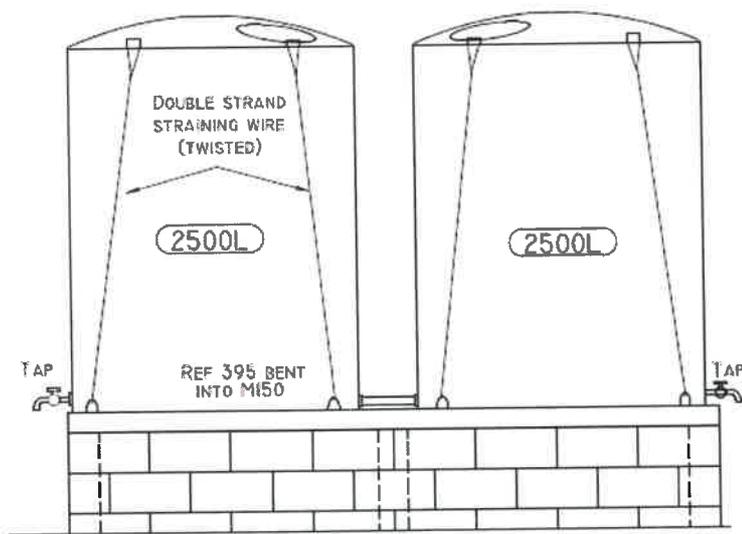


ENGINEERING SERVICES
4 PINDAK AVENUE / PRIVATE BAG 88005
HILTON / 3245 / PHONE : 033-3438300
FAX : 0333438443

DRAWING 3	
DATE	11/11/10
BY	...
CHECKED	...
SCALE	...

PACK SHED 9 X 5M
CROSS SECTION & TOP VIEW

USE: GENERAL	
DATE	11/11/10
BY	...
CHECKED	...
SCALE	...
DRAWING NUMBER	RIN/2011/01/18/9/10



SIDE VIEW

NOTES

1. DIMENSIONS OF THE TANK STANDS
3.20M x 1.50M x 0.70M (0.5M ABOVEGROUND).
2. THREE COURSES OF BLOCKS ON 500 x 200MM
15 MPA STRIP FOUNDATION.
3. TANKS SECURED TO STAND WITH 4 TWISTED DOUBLE
STRANDS OF STRAINING WIRE CONNECTED TO 4 Y8 STEEL
STIRRUPS (LENGTH: 0.5M EACH) CAST IN FLOOR CONCRETE.
STRANDS TO BE SLIGHTLY STRAINED.
4. CONNECTION WITH GUTTERS WITH TWO 90MM DIAM.
DOWNPIPE BENDS AND ONE 90MM DIAMETER STRAIGHT
PVC PIECE, GLUED WITH PVC CEMENT AFTER INSPECTION
OF CONNECTION.
5. BRASS LOCKABLE TAP WITH FITTINGS.

**BILL OF QUANTITIES
BUILDING MATERIALS**

- 1) POCKETS OF CEMENT: 20
- 2) UMGANI SAND: 2.2 CU.M
- 3) BUILDING SAND: 0.1 CU.M
- 4) 19MM STONE: 3.0 CU.M
- 5) M150 BLOCKS: 75
- 6) Y8 REBAR 4.00M
- 7) REF 395 MESH 3.10 x 1.40M
- 8) GALV STEEL WIRE 40M x 2.0MM

Y8 REBAR ANCHORED INTO CONCRETE SLAB

100MM 30MPA/19MM SLAB

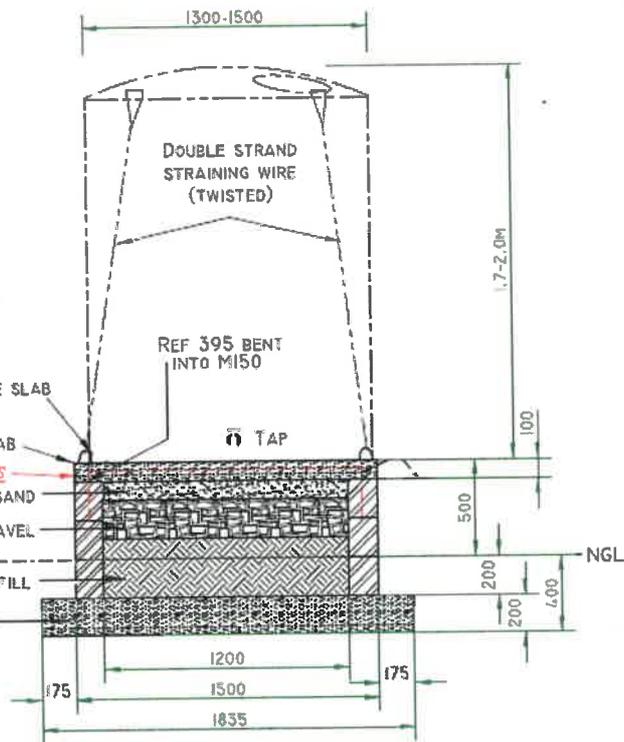
CONCRETE SLAB ON TOP OF WALLS

100MM LAYER OF SAND

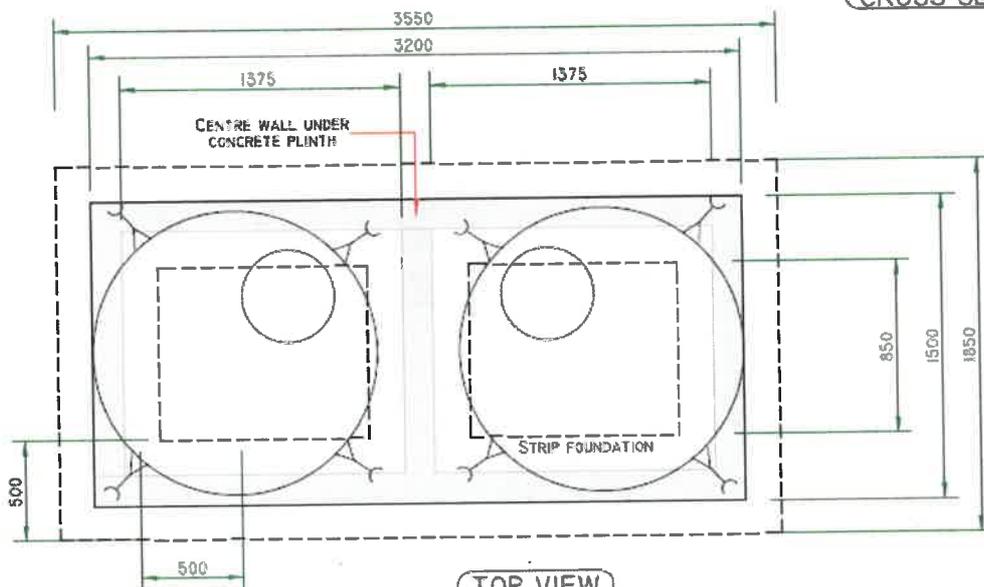
200MM LAYER OF 19MM GRAVEL

300MM LAYER COMPACTED FILL

STRIP FOUNDATION 15 MPA
500MM x 200MM



CROSS SECTION



TOP VIEW

CONCRETE MIXES

30 MPA MIX:
2 BAGS OF CEMENT +
2 WHEELBARROWS SAND +
2.5 WHEELBARROWS STONE

15 MPA MIX:
2 BAGS OF CEMENT +
3 WHEELBARROWS SAND +
4 WHEELBARROWS STONE



DECLARATION OF INTEREST

1. Any legal person, including persons employed by the state¹, or persons having a kinship with persons employed by the state, including a blood relationship, may make an offer or offers in terms of this invitation to bid (includes a price quotation, advertised competitive bid, limited bid or proposal). In view of possible allegations of favouritism, should the resulting bid, or part thereof, be awarded to persons employed by the state, or to persons connected with or related to them, it is required that the bidder or his/her authorised representative declare his/her position in relation to the evaluating/adjudicating authority where-
 - the bidder is employed by the state; and/or
 - the legal person on whose behalf the bidding document is signed, has a relationship with persons/a person who are/is involved in the evaluation and or adjudication of the bid(s), or where it is known that such a relationship exists between the person or persons for or on whose behalf the declarant acts and persons who are involved with the evaluation and or adjudication of the bid.

2. **In order to give effect to the above, the following questionnaire must be completed and submitted with the bid.**
 - 2.1 Full Name of bidder or his or her representative:
 - 2.2 Identity Number :
 - 2.3 Position occupied in the Company (director, trustee, shareholder²):
 - 2.4 Company Registration Number:
 - 2.5 Tax Reference Number:
 - 2.6 VAT Registration Number:

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

¹"State" means –

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

²"Shareholder" means a person who owns shares in the company and is actively involved in the

management of the enterprise or business and exercises control over the enterprise.

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:

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

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

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

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

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

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

2.8.1 If so, furnish particulars:

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

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

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 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. ACCEPT THAT THE STATE MAY REJECT THE BID OR ACT AGAINST ME IN TERMS OF PARAGRAPH 23 OF THE GENERAL CONDITIONS OF CONTRACT SHOULD THIS DECLARATION PROVE TO BE FALSE.

Signature

Date

Position

Name of bidder

CERTIFICATE OF INDEPENDENT BID DETERMINATION

- 1 This Standard Bidding Document (SBD) must form part of all bids¹ invited.
- 2 Section 4 (1) (b) (iii) of the Competition Act No. 89 of 1998, as amended, prohibits an agreement between, or concerted practice by, firms, or a decision by an association of firms, if it is between parties in a horizontal relationship and if it involves collusive bidding (or bid rigging).² Collusive bidding is a *pe se* prohibition meaning that it cannot be justified under any grounds.
- 3 Treasury Regulation 16A9 prescribes that accounting officers and accounting authorities must take all reasonable steps to prevent abuse of the supply chain management system and authorizes accounting officers and accounting authorities to:
 - a. disregards 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

SECTION J

OFFICIAL BRIEFING SESSION/SITE INSPECTION CERTIFICATE

N. B.: THIS FORM IS ONLY TO BE INCLUDED AND COMPLETED WHEN APPLICABLE TO THE BID.

Site/building/institution involved:

Quotation No:

Service:

THIS IS TO CERTIFY THAT (NAME):

ON BEHALF OF:

VISITED AND INSPECTED THE SITE ON..... (DATE)

AND IS THEREFORE FAMILIAR WITH THE CIRCUMSTANCES AND THE SCOPE OF THE SERVICE TO BE RENDERED.

.....
SIGNATURE OF BIDDER OR AUTHORISED REPRESENTATIVE
(PRINT NAME)

DATE:

.....
SIGNATURE OF DEPARTMENTAL REPRESENTATIVE
(PRINT NAME)

.....
DEPARTMENTAL STAMP:
(OPTIONAL)

DATE:

