

SPECIFICATIONS TO PROCURE CONSTRUCTION SERVICES FOR THE AGRO-PROCESSING CONTAINER FACILITY – NCERA FARM

SPECIFICATION TO PROCURE CONSTRUCTION SERVICES FOR THE AGRO PROCESSING CONTAINER FACILITY AT NCERA FARM

1. Scope of Work

All interested contractors should attend a compulsory site inspection

The unit should be built in two 12m refurbished containers, with isolated walls and an isolated ceiling. The undercover shelter will be between the two containers on the existing slap (size of slap 16.5m x 10.5m).

The complex will be used for Seed sorting and storage as well as the processing of other agricultural produce.

2. Site location

33° 7.384'S 27° 36.890'E

The Ncera farm is situated 25 km South of East London.

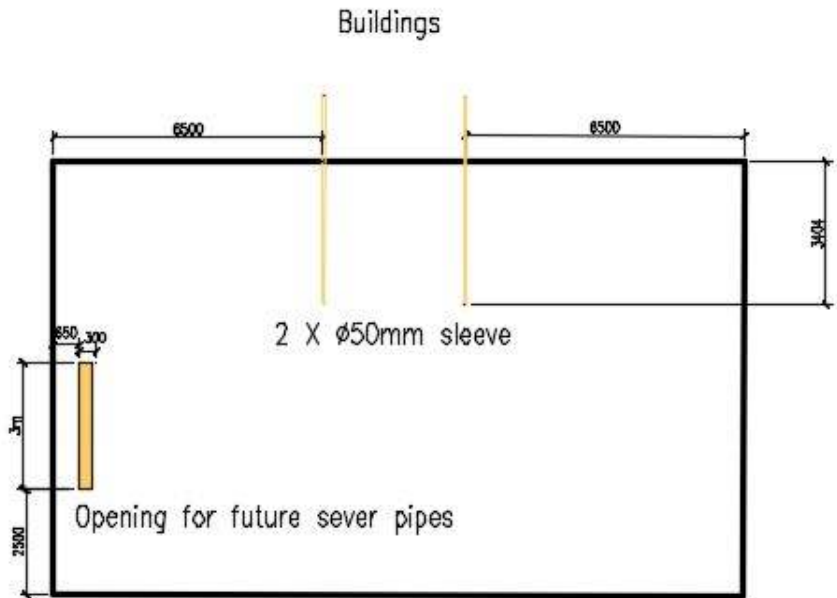
3. Existing Structure

3.1 Photos of the Site



3.2 Drawing of the existing Concrete Slap

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4. Price Breakdown

Item	Price (Excl Vat)
Container rebuild All equipment and rebuilt material excluding the items listed below.	R
Total electrical system excluding supply cable	R
Electricity supply cable	R
Solar water geyser	R
Contingency	R50 000
Total	R
VAT	R
Total	R

5. Design of Facilities

5.1 The general layout of the facility

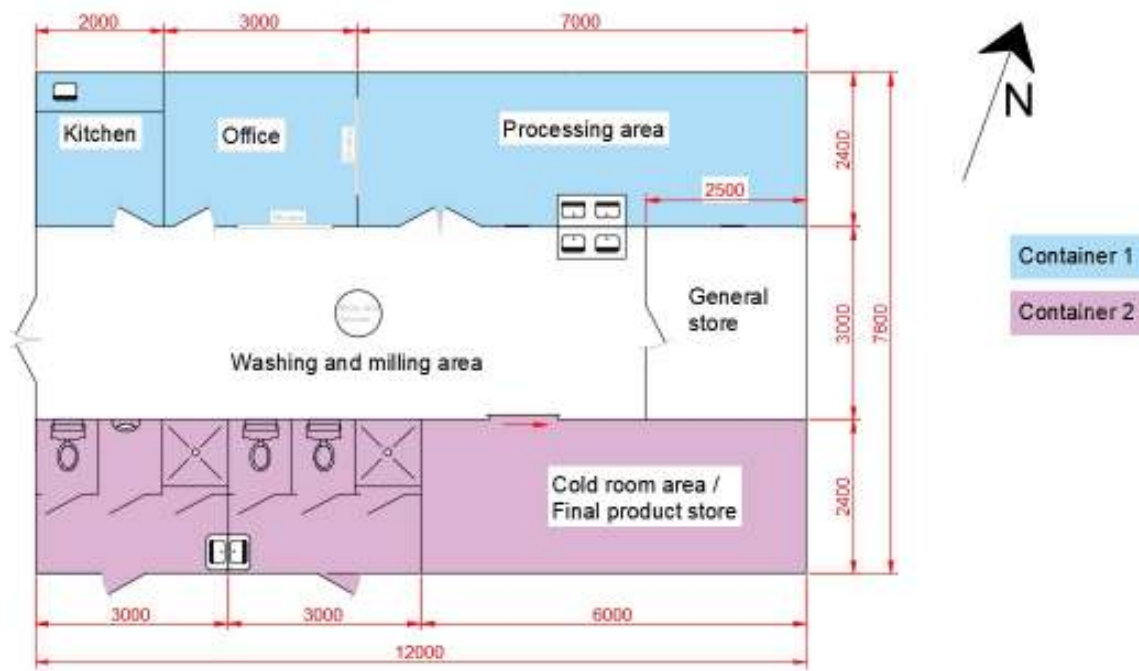


Figure: Outlay of the containers/roof

5.2 Container

The contractor is responsible for:

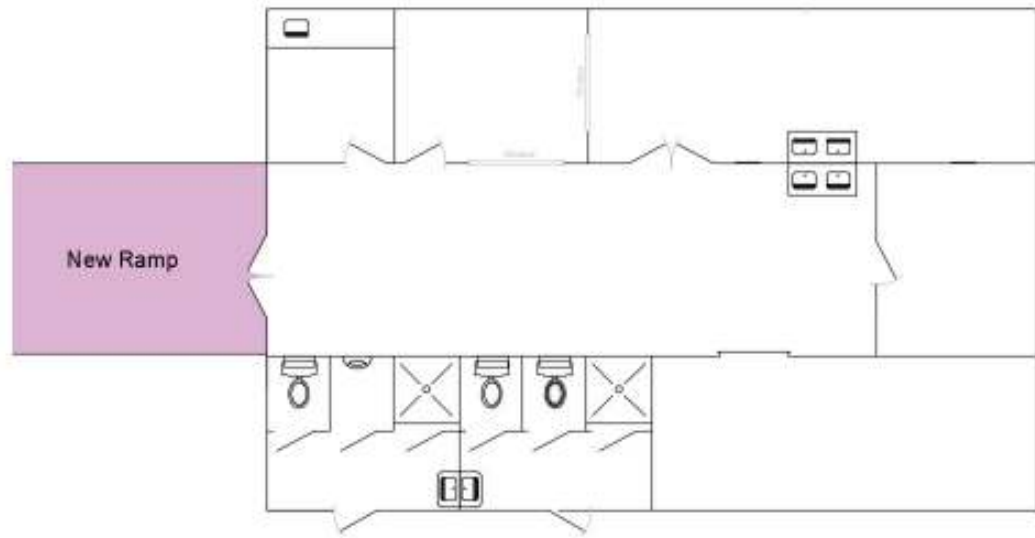
- Supply and installation of two containers and a steel structure.
- The refurbishment of all the containers.
- Water reticulation, sewer and connections.
- Electrical reticulation (220V and 380V)/plugs and Lights.

6. Concrete works

6.1 Ramp

- A Concrete ramp in front of the building must be constructed for trollies to access the building through the double door.
- The maximum incline of the ramp: 10°.

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- All compactions by the contractors must be tested with a minimum of two (2) successful Dynamic Cone Penetrometer (DCP) tests per unit to be recorded by a trained operator. The maximum allowable displacement per blow is 15mm. A report should be submitted for approval by ARC Engineering before continuation.
- Ready mix Concrete 25MPA must be used.
- Ref 200 re-inforcing steel must be used.

7. Floors

7.1 Processing Room

- A seamless vinyl floor that is laid curved up the walls (80mm) to form a flush skirting. Kitchen, General store, Bathrooms, Office and Final Product store floor
- No floor covering (raw cement).

8. Roof

- A flat roof must cover the opening between the containers.
- Transparent IBR Roof Polycarbonate sheets must be fitted over 10% of the roof
- Roof with IBR 0,6 mm full hard galvanized sheeting.
- A seal between a container roof and IBR roof with waterproofing paint and membrane.
- The structure shall be designed and approved by a Registered Structural Engineer or an accredited factory design system.

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- All roofs to have fascia and bargeboards material fibre cement (225mm x 12mm).
- Where bargeboards capping is used it must span at least 2 roof sheet ridges.
- The minimum floor to ceiling height must be 2 400mm.

8.1 Roof Sheets

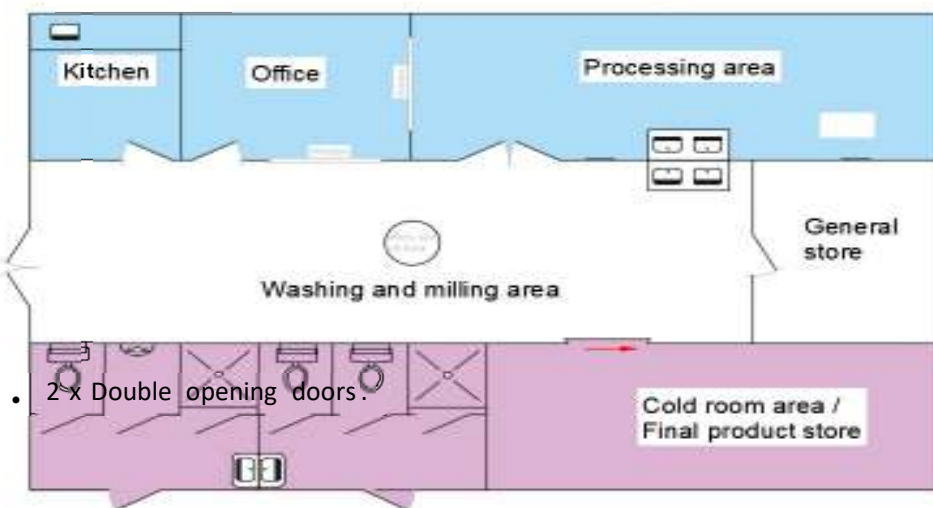
- Galvanised steel roof sheets must comply with SANS/SABS 934 and be of Class Z275 galvanising in the SCCCA and of Class Z200 for inland regions.
- The roof sheets must be laid according to the manufacturer's details.
- The minimum pitch of roofs must be 5 degrees (manufacturer's specifications prevail).
- The roof must have a minimum overhang of 150mm and a maximum of 300mm on all sides.

9. Opening between Containers

9.1 Walls

- Polystyrene of 100 mm thickness Two one-sided chromadek steel panels similar or equivalent to Isowall construction walls and double-sided on stand-alone walls.
- 0,5 mm Chromadek.
- Chromadek Colour: Fish Eagle white.

10. Doors



- 1 x One coldroom sliding door into the cold room. Minimum 1 m wide. With safety door lock.

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- 5 x single doors.

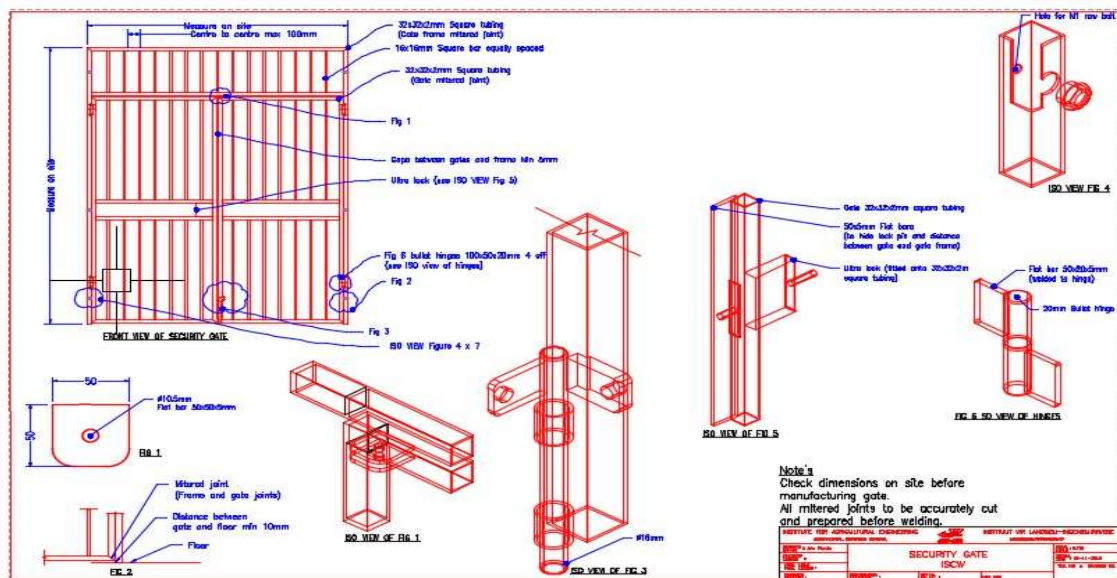
10.1 Specifications for Doors

- Heavy-duty extruded aluminum sections for door frame and door.
- All doors should ISO-wall type (chromadeck outside and polystyrene inside).
- Heavy duty hinges and locks. SABS approved.

10.2 Safety Gates

- Install safety gates to all outside doors (2 x single door, 1 x double door).
- See attached drawing for guidelines, please note that the drawing dimensions must be adapted for the door that will be installed.
- Drawing for the gate must be drawn up by the contractor and approved by ARC Engineer.
- Steel to be used in the construction is 32x32x2mm steel tubing and a solid 12x12 square bar.
- Ultra lock.
- Bullet hinges 100x50.
- All uprates.
- No gap between 2 frames must be larger than 5 mm.
- Min steel thickness of all steel is 2 mm.
- All work to be with straight and corners 90 degrees where require.
- All grinding marks must be sand down with a flap disk # 60 (mounted on an angle grinder).
- Remove all welding splatters.
- All steel dents are to be filled up with body putty and sanded down.
- Hot dip galvanizing finishing on all safety gates.

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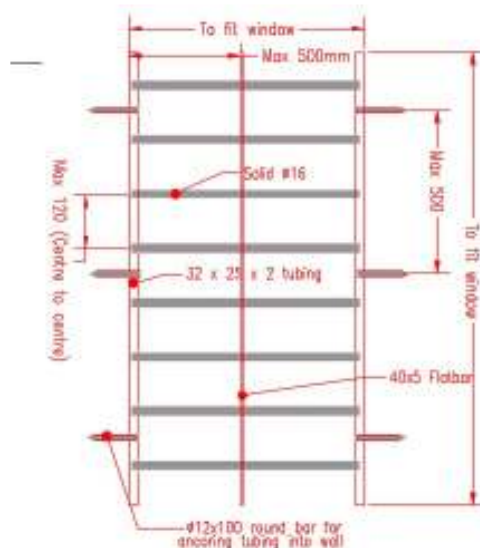
11. Windows

- The contractor must install windows in all rooms except the Cold room.
- The window light area shall be a min of 10% of the floor area per room.
- The window opening area shall be a min of 5% of the floor area per room.
- Glass panes shall be in accordance with the SANS/SABS 0137-2000 Code of Practice.
- All glass must be safety glass film so that broken glass cannot fall into products.
- Frosted glass on all bathrooms.

11.1 Burglar Bars

- Burglar bars should be fitted on all outside windows to enhance security.
- Hot dip galvanizing finishing on all burglar bars.

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All steel joint to be welded
If width of window exceed 1m, install 40x5
flat bar every 500mm

12. Heating/cooling

12.1 Air Conditioners

- 18 000 BTU air conditioners are required in the processing room.
- 3 HP compressor system for the cold room.

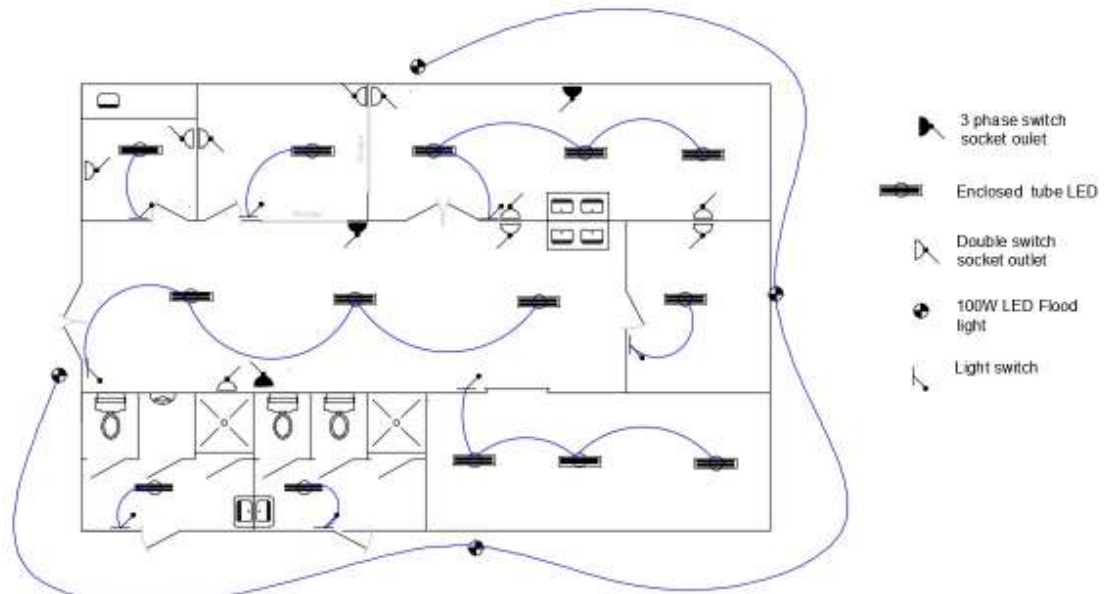
12.2 Extractor Fan

- One rooftop extractor fan (roof mounted wind turbine ventilator) in the washing and milling area.
- Minimum extracting rate: 1155m³/hour.
- Similar or equal to www.Turbovent.co.za model 350.

13. Electricity

Electrical Layout

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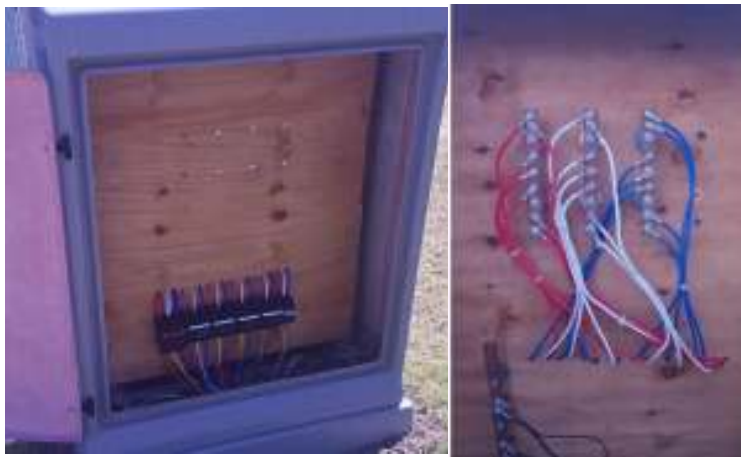


13.1 Electrical Supply cable

- 100A 3 phase cable.
- Main electric cable depth, minimum 600mm.
- Cable length 70m from the transformer to the facility.

13.2 Electricity 3 phase meter

- Install a 3 phase electricity meter in the existing distribution box.



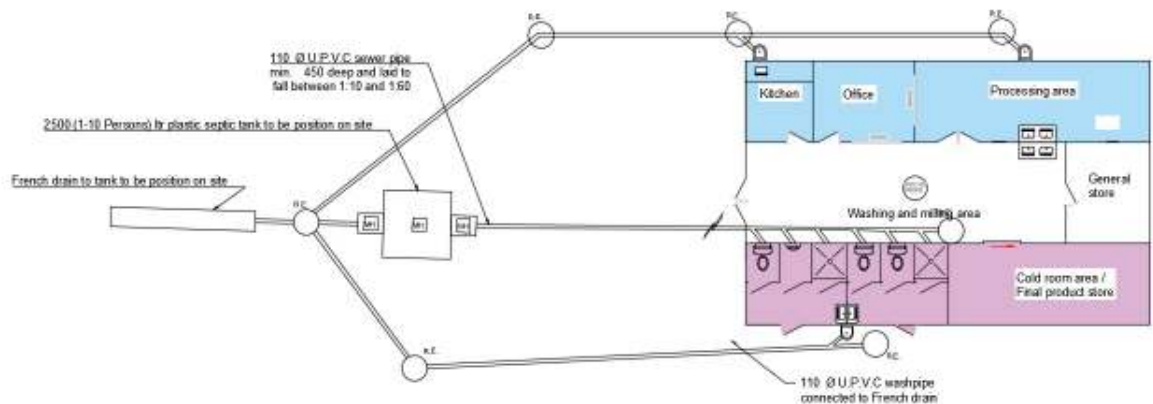
13.3 Electricity General

- All 3 phase outlets must have 3 phases plus a neutral outlet.
- All 3 phase outlets must be supplied with matching industrial plug.
- All outside terrain floodlights must be switched on/off with a daylight switch.

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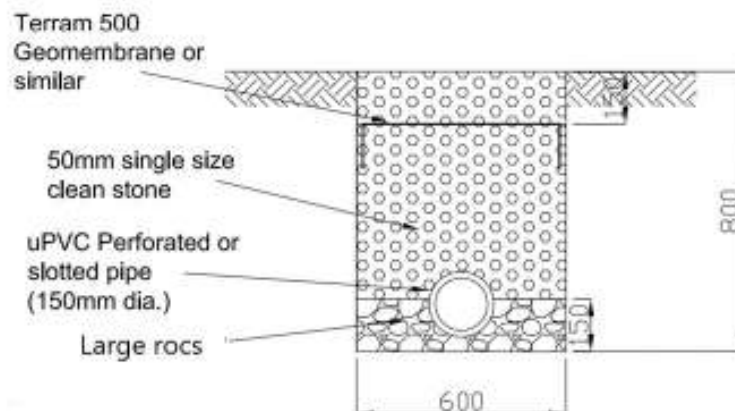
- The electricity Certificate of Compliance must be supplied when the wiring is completed and electricity restored before final payment will be considered.
- The cable sizes, circuit breaker sizes, cable lengths, etc. must be verified by the Contractor and must comply with the National Building Regulations.
- All equipment must comply with SANS standards.
- All equipment is to be installed according to SANS 10142.
- All cables must be installed according to SANS 10142.
- All wiring must be in conduit.

14. Sewer system



14.1 French drain.

- Minimum length of French drain = 25m .



14.2 Plumbing & Drainage

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- All soil drain pipes (110mm ø) have a minimum fall of 1: 60 with a minimum cover of 450mm with a vented, closed gulley, all waste pipes to be 40mm or 50mm external diameter.
- Rodding eyes to be installed at max distances (as prescribed in SANS/SABS), change of direction or fall.
- Sink to be stainless steel (no concrete troughs will be allowed) on a 25mm x 25mm x 2mm square tubing. The hot dipped galvanised finish on the tubing.
- Toilet pan and hand wash basin to be porcelain.
- Sinks and basins to be silicone pointed.
- Appropriate devices such as water-conserving taps, low flow rate shower-heads and low volume or dual flush toilet cisterns (standard flush of 4,5 litres) are to be installed.
- All taps fixed to walls are to be attached to an approved backplate (100mm x 100mm x 2mm galvanised steel).
- All waste pipes are to be accessible for cleaning purposes.
- All plumbing and drainage to conform to SANS/SABS and Local Authority standards.
- Connection to the main water connection point with Class 12 x 32mm pipe, 70m long.
- All basins are complete with P/S traps.

14.3 Kitchen

- 1 x Single end bowl mounted on wooden cupboard 1.0 x 0.510.
- SABS Warm and cold water mixer.



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14.4 Male bathroom

- 1 x complete SABS approved hand wash basins and taps.
- 1 x complete SABS approved complete toilet with valve.
- 1 x complete SABS approved urinal.
- 1 x 200x300 mirror.
- Partitions walls, 2m height.
- Warm and cold water SABS approved taps.

14.5 Female bathroom

- 1 x complete SABS approved hand wash basins and taps.
- 2 x complete SABS approved complete toilets with valve.
- 1 x 200x300 mirror.
- Partitions walls, 2m height.
- Warm and cold water SABS approved taps.

14.6 Shower specs for Male and female bathroom

- Minimum tile height 2m on 3 walls.
- SABS approved warm and cold water taps.
- Water saving shower head.
- No door or shower curtain is required.

14.7 Processing area

- Stainless steel double basin mounted on a frame.
- Warm and cold water SABS approved mixer tap to serve both basins.
- Basin must be mounted to the floor on a 25 x25 x2 steel tubing frame.
- The hot dipped galvanised finish on the tubing of the mounting frame.



14.8 Washing and milling area

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- Install double wash concrete troughs.
- Complete with P- Trap and connection to the sewer system.
- Sturdy, SABS approved cold water tap in each basin.



15. Solar Geyser

- 200 Litres SABS approved solar geyser with minimum 2kW electrical backup.

16. Paint

- All steel must be clean, dry, firm and dust-free.
- Apply two coats of heat reflective roof paint.
- Preparation of surfaces and application of paint must be strictly according to manufacturer instructions
- Minimum 12 years guarantee by the paint manufacturer
- Colour: Green

17. Contingency:

- An amount of **R50 000** will be approved for variations and contingency.
- No variations or contingency will be valid unless approved by both Mr. Swanepoel and Ms. De Beer in writing.
- The ARC has the right not to spend this contingency or only part of it.
- The **R50 000** must be clearly stated in the quotation as Contingency.

18. Technical enquiries

scmrequests@arc.agric.za / KubhekaL@arc.agric.za

19. Ownership

- The site must be clean at all times.

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- The contractor is liable for the safety of workers and work conditions according to the OHS act.
- Remove all building rubble and clean the site after completion of work before the final payment will be considered.
- The contractor will be responsible for the safekeeping of all building material and tools until the official site handover.

20. EVALUATION OF PROPOSALS

All bidders and proposals will be evaluated according to compliance to the specifications, functionality, BBBEE level of contribution and price. Points will be allocated and weighted on the following criteria and procedure:

20.1 Compliance with the specifications will be evaluated by the ARC Bid Evaluation Committee.

20.2 Functionality criteria

No		Functionality criteria	Points allocated	Weight
20.2.1		Company experience/past performance Referral letters/ letter of recommendation for design, supply and conversions of container projects completed during the last 8 years to the value of at least R300 000.00 each (Prices inclusive of VAT). Please use annexure A attached- on pages 21-22	70	
		5 Point will be allocated to a tenderer who has 5 or more referral letters of recommendation for design, supply and conversions of container projects completed during the last 8 years to the value of at least R300 000.00 each		5
		4 Point will be allocated to a tenderer who has 4 referral letters of recommendation for design, supply and conversions of container projects completed during the last 8 years to the value of at least R300 000.00 each		4
		3 Point will be allocated to a tenderer who has 3 referral letters of recommendation for design, supply and conversions of container		3
No		Functionality criteria	Points allocated	Weight
		projects completed during the last 8 years to the value of at least R300 000.00 each		
		2 Point will be allocated to a tenderer who has 2 referral letters of recommendation for design, supply and conversions of container projects completed during the last 8 years to the value of at least R300 000.00 each		2

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	1 Point will be allocated to a tenderer who has 1 or zero referral letters of recommendation for design, supply and conversions of container projects completed during the last 8 years to the value of at least R300 000.00 each		1
20.2.2	<u>Project plan and capability</u> - Technical approach, methodology and work plan to complete the project within the 6 month - Add on value for “cartoonlike” training material and or other videos - Programming of the oven/dryer as specified - Manufacturing and construction capacity and ability to conduct the work outlined in the specifications within the specified time - Risk management. (Traceable quality inspection /checklist) - Quality management (Traceable quality inspection/checklist during manufacturing, construction and commissioning)	30	
	Points to be allocated to a tenderer who has an elaborated project plan and capability that address all the requirements of the project as stated above with supporting evidence, and give the ARC a value-added services (please state what service you can add to this project)		5
	Point to be allocated to a tenderer who has a project plan and capability that address all the requirements of the project as stated in this document.		4
	Point to be allocated to a tenderer who has an elaborated project plan and capability without evidence		3
	Point to be allocated to a tenderer who has not a detailed project plan and not a detailed capability provided		2
	Point to be allocated to a tenderer who has not project plan and capability provided		1

The minimum score to be achieved on functionality is 60%. Bids that do not obtain the minimum score of 60% for functionality, will be disqualified and not evaluated further on price and the BBBEE level of contribution.

The 80/20 principle will apply in terms of the Preferential Procurement Policy Framework Act 5 of 2000.

80 Points will be allocated to price and 20 points will be allocated to the BBBEE as per the level of contribution. The ARC shall evaluate bids that

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comply with the specifications as stipulated in this bid and reserves the right to exclude any proposal that does not meet the requirements.

BBBEE points in terms of the Preferential Procurement Policy Framework Act Regulations will be allocated as follows:

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

21. Annexure A

REFERRAL LETTER FORMAT	
Bidder's Letterhead We are submitting a bid for the contract described below. We appreciate your assistance and effort in completing, on your letterhead, the reference as set out below on your experience with us.	
Reference Letterhead	Reference Legal Name

The name of the company you are giving a reference for
Describe the Contract / Project work and/or Service the above bidder provided to your organisation:

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Project/Contract period (start date)			
Project/Contract period (end date)			
Project/Contract cost that the bidder was responsible for (Vat Inc)			
Please rate the above bidder according to the following criteria by ticking the relevant column and providing comments/details in the space provided below if relevant:			
Criteria	Doesn't meet requirements	Meets requirements	Exceeds requirements
The project was completed within budget and within the required time frame			
Was the delivery of the work punctual and timeously .			
The bidder understood and delivered successfully on the scope of work			
Professionalism			
Quality of workmanship			
Quality of materials used / adherence to given specifications			
Availability of company resources, sales, service and technical backing.			
Overall satisfaction with the firm's resource availability			
Overall Impression / Satisfaction with the bidder			
Further details on any of the points above, or any other comments			
Number of times used in the past 48 months			

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Would you use the provider again?	Yes / No
Completed by:	
Designation:	
Signature:	
Company Name:	
Contact Telephone Number:	
Date:	

22. COMPULSORY ARC REQUIREMENTS

Prospective service providers should submit the following compulsory information:

- Tax Compliance Status
- Central Supplier Database (CSD Report)
- Standard Bidding Documents (SBD forms)
- CIBD Grading: 2GB
- A Professional Indemnity Insurance of Minimum R 500 000.00