



Enquiries : T Marumo
Reference : DARD/RFT 04/2022

To : Manager/Director/Owner

From : Dr. TJ Masiteng
Head of Department

RE: ERRATUM FOR TENDER: DARD/RFT 04/2022

1. The above bears reference.
2. Kindly be advised that the Department had advertised the bid for:

*RENOVATION AND REPAIRS OF EXISTING FISH PONDS AT GARIEP
AQUACULTURE TECHNOLOGY DEMONSTRATION CENTER (ATDC), GARIEP
DAM*

3. The Department held the compulsory briefing session on 15 November 2022, and during the briefing session it was noted that there was technical error in the tender document.
4. Part C2.2 (Summary Bill of Quantities), C2.2.1 (Bill of Quantities) and Part C3 (Scope of Work) in the tender document are based on an older version which was adjusted to fit within the budget allocation.
5. Therefore Part C 2.2, C2.2.1 and Part C3 needs to be replaced with the adjusted one, the rest of the Tender Document remains the same.

The Department of Agriculture and Rural Development apologizes to all potential bidders for any inconvenience caused.

Regards


Dr. TJ Masiteng

Head of Department: Agriculture and Rural Development

Date: 18/11/2022

Name of Tenderer:

DARD/RFT 04/2022: RENOVATION AND REPAIRS OF EXISTING FISH PONDS AT ATDC, GARIEP DAM

INVITATION TO BID

FREE STATE DEPARTMENT OF AGRICULTURE AND RURAL DEVELOPMENT

BID DOCUMENT ADDENDUM 1

BID NUMBER: DARD/RFT 04/2022

RENOVATION AND REPAIRS OF EXISTING FISH PONDS AT ATDC, GARIEP DAM
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Name of Tenderer:

DARD/RFT 04/2022: RENOVATION AND REPAIRS OF EXISTING FISH PONDS AT ATDC, GARIEP DAM

PART C: CONTRACT

C2 PRICING DATA

C2.2 Bill of Quantities

Initial: _____

Name of Tenderer:

DARD/RFT 04/2022: RENOVATION AND REPAIRS OF EXISTING FISH PONDS AT ATDC, GARIEP DAM

DEPARTMENT OF AGRICULTURE AND RURAL DEVELOPMENT, FREE STATE

BID NO.: DARD/RFT 04/2022

THE RENOVATION AND REPAIRS OF EXISTING FISH PONDS AT ATDC, GARIEP DAM

C2.2 BILL OF QUANTITIES. (See the following: Scope of work and Applicable standardized and particular specifications and detailed Bill of Quantities)

SUMMARY OF BILL OF QUANTITIES

SECTION	DESCRIPTION	AMOUNT
1	PRELIMINARIES AND GENERAL	
2	SECTION B: FENCING, SHADE NET COVERING AND CONCRETE STRIPS OF PONDS (6&7& 8)	
3	SECTION C: FENCING, SHADE NET COVERING, SUPPLY CUSTOM MATERIALS AND CONCRETE STRIPS and ROAD SECTION OF POND (2)	
4	SECTION D: COMPLETE MULTI SPAN TUNNELS OF PONDS (9 TO 14)	
TOTAL OF PRICED ITEMS		
PLUS : 5% CONTINGENCIES (calculated on TOTAL OF PRICED ITEMS) *1		
SUB TOTAL		
PLUS : 15% VAT (calculated on SUB TOTAL)		
TOTAL (CARRIED OVER TO FORM OF OFFER & FRONT PAGE)		

Note *1 : This contract can be awarded excluding Contingencies whereby this amount may only be utilized on written instruction by the Project Manager with approval by the client.

.....
TENDERER'S SIGNATURE

.....
DATE

.....
ON BEHALF OF COMPANY

Name of Tenderer:

DARD/RFT 04/2022: RENOVATION AND REPAIRS OF EXISTING FISH PONDS AT ATDC, GARIEP DAM

Note: Failure to price any of the items will invalidate the bid. The Departmental representatives from the Department of Agriculture and Rural Development will negotiate with the successful bidder to ensure a balanced Bill of Quantities and approve the Bill of Quantities if necessary.

Name of Tenderer:

DARD/RFT 04/2022: RENOVATION AND REPAIRS OF EXISTING FISH PONDS AT ATDC, GARIEP DAM

C2.2.1 BILL OF QUANTITIES
THE RENOVATION AND REPAIR OF EXISTING FISH PONDS AT ATDC

Section A: Preliminary and General

Item No.	Payment Clause	Short Description	Unit	Quantity	Rate	Amount R c
A		Section A: Preliminary and General				
		Fixed-charge Items				
A1.1		Contractual requirements		Sum		
A1.2		Health and Safety				
A1.2.1		Health and Safety Plan		Sum		
A1.2.2		General Safety obligations		Sum		
A1.2.3		Risk assessment		Sum		
A1.3		Training in respect of Health and Safety		Sum		
A2		Site establishment		Sum		
A2.1		Environmental management				
		Work required for compliance which is not covered elsewhere		Sum		
Total Section A Carried to Summary						R

Name of Tenderer:

DARD/RFT 04/2022: RENOVATION AND REPAIRS OF EXISTING FISH PONDS AT ATDC, GARIEP DAM

Section B: Ponds(6, 7,8)

Item No.	Payment Clause	Short Description	Unit	Quantity	Rate	Amount R c
		SECTION B: FENCING, SHADE NET COVERING AND CONCRETE STRIPS OF PONDS (6&7& 8)				
B1		Remove existing Structure Remove material from site	SUM	1		
B2		Strip clearance	m ²	275		
B3		Excavation (concrete strip and posts)	m ³	57		
B4		Backfill and compaction	m ³	36		
B5		Concrete(concrete strip and posts) Strength concrete Grade 20 MPa/19 mm to all posts, stays and 1m wide concrete strip	m ³	21		
B6		New Fencing Supply and erect new fencing material: New 1.2 m high diamond mesh fence with one (1) pedestrian gate. Including all material, labour and transport.	m	130		
B7		Shade Net Covering (including sides) New Shade Net covering unit with cables, supports, anchors and one (1) entrance door of 0.9m x 2m. Including all material, labour and transport.	m ²	990 (Only top view, bidder must include costs for sides here)		
B8		Out-let sluice gates(Ponds 6,7,8) Supply and install Balua wood sluices gates to all out-lets, eight (6) in total.	SUM	1		
Total Section B Carried to Summary						R

Name of Tenderer:

DARD/RFT 04/2022: RENOVATION AND REPAIRS OF EXISTING FISH PONDS AT ATDC, GARIEP DAM

Section C: Pond (2)

Item No.	Payment Clause	Short Description	Unit	Quantity	Rate	Amount R c
		SECTION C: FENCING, SHADE NET COVERING, SUPPLY CUSTOM MATERIALS AND CONCRETE STRIPS and ROAD SECTION OF POND (2)				
C1		Remove existing steel poles Material to be stored on site	SUM	1		
C2		Strip clearance	m ²	225		
C3		Excavation (concrete strip and posts)	m ³	47		
C4		Backfill and compaction	m ³	30		
C5		Concrete(concrete strip and posts) Concrete, Strength 20 MPa/19 mm to all posts, stays and 1m wide concrete strip	m ³	17		
C6		New Fencing Supply and erect new fencing material: New 1.2 m high diamond mesh fence two (2) pedestrian gates and one (1) double (2) service gates. Including all material, labour and transport.	m	150		
C7		Shade Net Covering (including sides) New Shade Net covering unit with cables, supports, anchors and two (2) pedestrian gates and one (1) double (2) service gates. Including all material, labour and transport.	m ²	1 130 (Only top view, bidder must include costs for sides here)		
C 8		Access Roads (3.5m) From existing roads to service gates one (1) with pipe over earth channel. Including excavation and backfilling, all material labour and transport.	m	30		
Carried forward / ...						R

Name of Tenderer:

DARD/RFT 04/2022: RENOVATION AND REPAIRS OF EXISTING FISH PONDS AT ATDC, GARIEP DAM

Section C: Pond (2)

Item No.	Payment Clause	Short Description	Unit	Quantity	Rate	Amount R c
C9		SECTION C: FENCING, SHADE NET COVERING, SUPPLY CUSTOM MATERIALS AND CONCRETE STRIPS OF POND and ROAD SECTION (2) Out-let sluice gates and walk ways.(Ponds 2,3,4,5) Supply and install Balua wood sluices gates to all out-lets, eight (8) in total. Supply and install Balua wood covering for existing walk way frames with non-slip surface finish, four(4) in total	SUM	1		
Total Section C Carried to Summary						R

Name of Tenderer:

DARD/RFT 04/2022: RENOVATION AND REPAIRS OF EXISTING FISH PONDS AT ATDC, GARIEP DAM

Section D: Ponds (9 to14)

Item No.	Payment Clause	Short Description	Unit	Quantity	Rate	Amount R c
		SECTION D: COMPLETE MULTI SPAN TUNNELS OF PONDS (9 TO 14)				
D1		Clearance	SUM	1		
D2		Excavation/preparation	SUM	1		
D3		Multi span tunnels (completely closed) Complete multi span tunnels with ventilation flaps, doors. Including supply and installation of all material, labour and transport.	each	2		
D4		Out-let sluice gates and walk ways.(Ponds 9 to 14) Supply and install Balua wood sluices gates to all out-lets, eight (12) in total.	SUM	1		
Total Section D Carried to Summary						R

Name of Tenderer:

DARD/RFT 04/2022: RENOVATION AND REPAIRS OF EXISTING FISH PONDS AT ATDC, GARIEP DAM

PART C: CONTRACT

C3 SCOPE OF WORK

C3 Scope of Work

Initial: _____

C3 Scope of Work**1. SCOPE OF WORK**

The project entails the repair and refurbishment of the Gariep Hatchery ponds.
A summary of the works to be executed are as follows:

- Installation of fencing and shade netting to prevent fish predation
- Gravel road for removal of fish and handling.
- Concrete strips to prevent digging under the fencing
- Tunnels to cover specific existing ponds.
- Other miscellaneous works such as:
 - Supply custom made components and Installation of sluices gates (made to fit) and covering of existing walk way frames.

2. APPLICABLE STANDARDIZED AND PARTICULAR SPECIFICATIONS

2.1 The following Acts and Codes of practice are applicable to the Specifications included in this Bid Document:

- Standardized Specifications for Civil Engineering Construction – SANS 1200.
- National Building Regulations S.A.N.S. 0400.
- Building Regulations of Act 1977 (Act 103 of 1977).
- Occupational Health and Safety Act (83 of 1993)
- SANS 1200 AA :General (Small works)
- SANS 1200 C :Site clearance
- SANS 1200 DA :Earthworks (Small)
- SANS 1200 GA :Concrete (Small works)
- SANS 1083 :Aggregates from natural source
- SANS 457 :Timber column structures (If applicable)
- SANS1288 :Treatment of timber poles (If applicable)
- SANS 2408 :Wire and Cables
- Act for Health and Occupational Safety
- Specific regulations and requirements of the local authority must be adhered to.

The Standardized and Particular Specifications are deemed to form part of the Bid document. The Bidder must make his own arrangements for obtaining the Specifications and keep copies of all listed Specifications on site during the construction period. Health and Safety records and registers must be kept on the site during construction.

2.2 General Specifications for all groups

- All materials used must be new.
- All rubble / building materials must be removed from the building site after completion of the building.
- All construction work to be carried out in compliance with the S.A.N.S. codes of practice and strictly to plans and specifications.
- The Bidder must inform the Representative of the Department at least 48Hrs, in writing beforehand about construction inspections to be done.

2.3 Detail Specifications

A. The following is the minimum specifications for all the fencing:

1. Fence Height = 1.2m
2. Maximum spacing of straining posts = 30m
3. Spacing of y-standard posts = 3m
4. Utilize stays on all corner, gate, and straining posts.
5. Cast 0.3m x 0.3m x 0.3m, 20MPa concrete foundations for all corner, straining and gate posts and stays. Use 0.5m x 0.5m x 0.5m foundations for service entrances.
6. Use 3.15mm Fully Galvanised straining wire
7. Use 3 strands of straining wire
8. Use fully galvanised 2mm binding wire to fix mesh to straining wire.
9. Position of the fencing is in the center of the 1 m concrete strip.
10. Concrete strip and fence are on the inside of the netting structure.

Material Details:

1. Mesh-Fully Galv. Diamond mesh 1200mm x 75mm x 2.5mm
2. Corner, straining and gate posts - Galv. Posts with caps 1.8m x 50mm x 2mm
3. Stays – Galv. stays 1800mm x 38mm x 2mm
4. Pedestrian Gates: Galv. security gates 0.9m x 1.2m x OD 50mm x 2mm
5. Service Gates: Galv. security gates 2.4m x 1.2m x OD 50mm x 2mm
6. Fix stays to posts with M12x150mm bolts, nuts and washers, HDG

B. The following is the minimum specifications for all the concrete strips:

1. Use 20 Mpa concrete
2. Concrete thickness = 100mm
3. Width = 1m
4. Excavate 300mm
5. Backfill and compact "berggruis" to layer of 200mm.

C. The following is the minimum specifications for all the shade net covering structures:

1. Use 20% Allnet black shade net.
2. Maximum spacing of 6m for support coulombs
3. Minimum height of structure is 2m at eave.
4. Provide turn buckles for all staining cables (for adjusting of tension in future)
5. Minimum cable diameter is 8mm.
6. Cable Tension = 1 830kg / 18.3kN (Min. = 1739kg / 17.39kN; Max. 1 922kg / 19.22kN)
7. All components should have a minimum lifespan of 25 years.
8. Maximum allowable gaps are 3mm for the total structure, including shade net doors and channels.
9. Use double (2) service gates of 2.4m each
10. Use 0.9m pedestrian gates. (position will be indicated on site)

D. The following is the minimum specifications for all the access roads:

1. Width = 3.5m
2. Use concrete pre-cast kerb blocks for sides

3. Excavate 200mm
4. Use similar gravel as for existing roads and compact in 100mm layers
5. Install pipes where roads cross existing channels.

E. The following is the minimum specifications for tunnels

1. Multi span tunnels (32m – 34m) x 45m x 4m
 2. Tunnels must be manufactured by a reputable tunnel manufacturer (confirm and obtain written approval from Departmental project manager before ordering)
 3. Covered with 200 micron UV stabilized plastic.
 4. Use strapping on all covering.
 5. Ventilation flaps for temperature control (Manual or mechanically supported)
 6. Minimum of 6 Entrance doors
 7. Must have bracing or stays for wind support.
 8. Include gutters for drainage.
 9. If mild steel frames are used, use painted finish with corrosive resistant paint.
- See Bill of Quantities (C2.2.1), and tender document for additional specifications.
 - Bidders must confirm dimensions during briefing session and obtain additional measurements required.
 - During implementation the Contractor will be requested to submit proposals for some of the items specified, which will have to be approved by the department before procurement.

Group 1 (Section B)

Remove existing covering and associated structures (Remove old Material from site) and supply and installation of new fencing and shade net covering with supports, support cabling and anchoring. Casting of concrete strips under fencing and on islands. Supply and installation of sluice gates for out-lets :

Pond 6 (30 m x 20 m each)

Pond 7 (30 m x 20 m each)

Pond 8 (30 m x 20 m each)

Shade net and fencing must cover group as a single unit.

Group 2 (Section C)

Remove existing Y-standards (Iron poles) and associated structures (old Material will be stored on site for future use) and supply and installation of new fencing and shade net covering with support cabling and anchoring. Casting of concrete strip under fencing and on islands. Construct gravel road to service gates. Supply and installation of sluice gates for out-lets and covering of walkways:

Pond 2 (40 m x 25 m each)

Name of Tenderer:

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Shade net and fencing must cover group as a single unit.

Group 3 (Section D)

Supply and install two complete multi span tunnels to cover existing ponds.

Ponds 9 to 14 (30m x 10m)

Initial: _____