



CESVI ZIMBABWE

Procedure Code: CESVI-ZIMBABWE/IOT/01_2018

Projects:

- 1) CROPS - Create Opportunities for a Sustainable agriculture and livestock development to enhance the resilience of Beitbridge and Mwenezi communities
Donor: AICS- Maputo
Cesvi Code: AFZWE0036
- 2) PROGRESS - Program for Growth and Resilience
Donor: UNDP under the ZRBF program
Cesvi Code: AFZWE0037

1. Preamble

Cesvi is an International NGO with its Head office in Italy, via Broseta 68/a, 24128 Bergamo and is registered in Zimbabwe as a welfare organisation with registration number 6/2004 located at no. 57 Livingstone Avenue - Harare.

Cesvi is implementing two projects entitled "CROPS - Create Opportunities for a Sustainable agriculture and livestock development to enhance the resilience of Beitbridge and Mwenezi communities", financed by AICS-Maputo and "PROGRESS - Program for Growth and Resilience", financed by UNDP under the ZRBF program.

With the present document, we are inviting interested companies to present quotations to the following **International Open Tender** for the supply of centre pivots as indicated below;

CENTRE PIVOTS

The supply and installation of **6 Ultra high clearance fixed Centre Pivots** including electrical connections at Shashe, Domboldenje, River Ranch and Kwalu irrigation schemes, in Beitbridge district, and Murove, in Mwenezi district, as detailed below;

- a) **SHASHE Irrigation Scheme** - (22.098886°S 29.293909°E).
The scheme requires 1 x 48 HA ultra-high clearance centre pivot
- b) **DOMBOLDENJE Irrigation Scheme** (21.631630°S 29.440157°E).
The scheme requires 1 x 16 HA ultra-high clearance centre pivot.
- c) **RIVER RANCH Irrigation Scheme** (22.149721°S 29.921927°E).
The scheme requires 1 x 30 HA ultra-high clearance centre pivot
- d) **KWALU Irrigation Scheme** - (21.744659°S 29.623762°E).
The scheme requires 1 x 34 HA and 1 x 26HA ultra-high clearance centre pivot.
- e) **MUROVE Irrigation Scheme** - (21.104340°S 30.502716°E)
The scheme requires 1 x 30 HA ultra-high clearance centre pivot

*NB: The Full details on each Irrigation scheme and their requirements are listed on **Annex 1** (a – e) of this tender dossier, and Suppliers should note that the availability of spare parts and back up service in Zimbabwe will be considered first in order to maintain the products in the long run. In view of the previous development promoted by Cesvi in the same area, and in order to standardise the maintenance and management practice of the equipment, any offer in line with existing equipment will be favoured.*

2. Participation

To be eligible for participation in the tender, tenderers must provide all the asked documentation in a timely basis. Tenderers must also prove to the Contracting Authority that they comply with the necessary legal, technical and financial requirements. CESVI reserves the right to ask for additional documentation in regard to the tenderer's financial standing and capacity.

Tenderers have to declare, under their responsibility, that they do not fall under ineligibility clauses (**Annex B**), that all of the items offered have been manufactured and will be installed in accordance with international rules against exploitation of child labour and gender discrimination (**Annex C**). Participants have also to declare to hold in trust and in confidence any information or documents disclosed to this procedure (**Annex D**) and to be aware of Cesvi policies and documents as mentioned in **ANNEX E**



3. Submission of tenders

3.1. Required Documentation

Tenders must be submitted in accordance with the double envelope system, i.e. in an outer parcel or envelope containing two separate, sealed envelopes, one bearing the words "Envelope A – Technical offer" and the other "Envelope B – Financial offer".

The envelope A has to include the following documentation:

1. Technical specification
2. Company certifications
3. Tenderer's declaration (Annex A)
4. Cause of Ineligibility, Ethical Manufacturing and Confidentiality declarations, Cesvi Policy Declaration (Annex B, C, D, and E)
5. Tender guarantee

The envelope B has to include the following documentation:

6. Financial Offer

The tenderer should produce the following documentation:

ENVELOPE A

1. Technical specifications
 - A detailed description of all quoted items should be provided.
 - Technical drawings for the proposed installations/s
 - Technical drawings and details of all the preparatory works to be anticipated by the community
2. Company certifications:
 - Company registration certificate
 - A Valid Tax Clearance Certificate from ZIMRA (for Zimbabwean suppliers only), or equivalent for the country of establishment.
 - A letter of good standing from the bank
 - A Company profile (curriculum of activities and history of experience, with particular reference to similar contracts in the same or nearby districts).
 - List of maintenance/service centres closest to the project, including contact details
 - Reference letters from at least 3 similar projects
3. Annex A completely filled and signed
4. Annex B, Annex C, Annex D, and Annex E completely filled and signed
5. Tender Guarantee signed (Check article 5 and annex 3)

ENVELOPE B

6. Financial offer:
 - The price shall be expressed in USD
 - The proposed price (itemized per each product) shall include all the additional costs and charges to the final destination and installation.
 - Quoted prices shall be exclusive of customs duty
 - Transport charges should be included in the offer, itemized separately.



- Labour charges for each category has to be itemized separately.
- The price shall be considered fixed and valid from the moment of the offer to 30th June 2019; no change of price will be accepted unless if mutually agreed with the contracting authority during the negotiation process, provided that such changes will be duly substantiated in an updated technical proposal.
- Time of Delivery of the equipment and time taken to complete installations
- Suppliers are required to provide a Tenderer Guarantee as indicated in article 5, therefore the costs to obtain such guarantee from any financial institution should be included in the financial offer.
- Suppliers are required to provide guarantees for all products to safeguard the quality.

N.B. If an arithmetic error occurs it will be corrected by **CESVI**.

English is the language of the procedure. Supporting documents and printed literature supplied by the bidder may be in another language, provided they are accompanied by a translation into the language of the procedure. For the purposes of interpretation of the tender, the language of the procedure will prevail.

4. Tender Evaluation

After receiving all the tender offers, the contracting authority will decide the best offer according to the following criteria (from the highest to the lowest):

- Financial Offer 42%:
 - Score = $\frac{42 \times \text{Lowest Price}}{\text{Offer Price}}$
 - Quality of products 42%;
 - a) Pump 10%
 - b) Pipeline 5%
 - c) Pivot 22%
 - d) Electrics 5%
- Scores will be assigned based on the technical specification indicated in Annex 1 (a to e)
- Delivery time (Goods & Installations) 10%;
 - ≤3 months = 10
 - 3 to 6 months = 5
 - >6 months = 0
 - Professional Capacity, Trade references & back up services in Zimbabwe Max 6% (2% each);

5. Tender guarantee

- Tenderers have to obtain a guarantee in order to safeguard the faithful performance of the Contract and the fulfilment of the obligations under the Contractor which shall be provided after signing of the Contract and presented to the Contract Authority. Tender guarantee form shall be issued by a primary bank which should be acceptable to the Contracting Authority covering the amount of advance payment the tenderer wishes to receive and it shall be irrevocable. The Contractor shall use the tender guarantee form provided in Annex 3 for reference.
- The tender guarantee shall be valid for a period of up to forty five days (45) after the expiry of the signed contract or after the last delivery.

6. Deadline for the presentation of the documentation

Electronic bidding is NOT ALLOWED, failure to take heed will automatically get disqualified. All documents in sealed envelopes should reach us by the **3rd of December 2018 at 12:00 Hrs**. A field site visit can be arranged by contacting: admin@cesvizimbabwe.org between the 19th to the 23rd November 2018. **No postal delays will be entertained** the documents should strictly be delivered to CESVI office on or before the above date at the following address,
CESVI Zimbabwe Office,



Address: 14 Natal Road, Belgravia
Harare, Zimbabwe

The letter shall be sealed and bear the header "CESVI-ZIMBABWE/IOT/01_2018".

Information on the procedure can be requested by writing an email to admin@cesvizimbabwe.org, Contact Person: Never Mudzimu (CESVI Logistics & HRM Coordinator). Any additional information will be published on Cesvi website at the link: <https://www.cesvi.eu/> or <https://www.cesvi.org>

Bidding by electronic mail is only accepted provided the documentation brings an electronic signature from the bidder and a successive hardcopy is sent by surface mail within the stated deadline above.

7. Additional information during the procedure

Tenderers may submit questions in writing up to 5 days before the deadline for submission of tenders. The addition information should be addressed to admin@cesvizimbabwe.org. Cesvi will reply to all tenderers' questions at least 3 days before the deadline for receipt of tenders. For transparency and to secure the same level of information to all the participants, the submitted questions and the related answers will be published on Cesvi website at the following link: <https://www.cesvi.eu/> or <https://www.cesvi.org>

8. Opening bids procedure

The ceremony of the envelopes opening will be held on the 4th of December 2018 at 10:00; an ad hoc Committee will manage the event. The venue will be CESVI office in Harare.

- The envelopes will be opened and publicly read by the Chairman of the above mentioned Committee.
- After the opening of all the envelopes received within the deadline, the Committee will evaluate their contents behind closed doors.
- The winner will be informed by CESVI within 10 days from the opening ceremony.
- All the participants to the bid will be informed by e-mail on the results of the tender.

9. General conditions

9.1. General conditions of the contract agreement

- Payments will be done in USD only by bank transfer after the presentation of regular invoices approved by CESVI Project Coordinator.
- Payments will be made by CESVI Head Quarters in Bergamo, Italy through bank transfer.
- The successful tenderer will be informed in writing that their tender has been successful (notification of award). Before the Contracting Authority signs the contract with the successful tenderer, the successful tenderer must provide the documentary proof or statement required under the law of the country in which the company is established, to show that it does not fall into the exclusion situations listed under *Annex B & C* of this tender dossier.
- If the successful tenderer fails to provide this documentary proof or statement or if the successful tenderer is found to have provided false information, the award will be considered null and void. In such a case, the Contracting Authority may award the tender to another tenderer or cancel the tender procedure.
- If, after the tender has been awarded, a contract agreement with the winner cannot be found within 7 days after the winner has been declared, then CESVI will be authorized to consult the second bidder and so on.
- If the winner fails to respect the Contract agreement during the implementation of the project, CESVI will be authorized to consult the second bidder and so on.

9.2. Language of the tender

All correspondence and documents related to this tender procedure, contracts and reporting shall be written in English.

9.3. Cancellation of the tender

In no circumstances CESVI will be liable for damages, whatever their nature (in particular damages for loss of profits) or connection to the cancellation of the negotiated procedure, even if CESVI has been



advised of the possibility of damages. The invitation to a procurement does not commit CESVI to implement the project announced, and the sign of the contract is bound by the donor financing

9.4. Dispute settlement

Any dispute shall be referred to the Bergamo Court (Italy), provided however that CESVI at its own discretion, may elect to waive the competence of the Italian law and the Bergamo Court to bring an action against the bidder before any court of competent jurisdiction, in the domicile of the bidder itself, the applicable law being the law of the Country of the bidder's domicile.

This invitation to negotiated procedure has been written in English. In case it will be translated in any other language than English, then the English version shall prevail in case of difference of interpretation.

9.5. Liabilities

The DONORS will establish the final amount of the grant and will liquidate it to CESVI on completion of the operation on the basis of the expenses presented and declared eligible. No party other than CESVI shall derive any rights from the grant or have any claim to its proceeds. Under no circumstances or for no reason whatsoever will UNDP & AICS - Maputo entertain any request for indemnity or payment directly submitted by CESVI contractors.

10. Information about the contracting authority

CESVI, international, secular, independent organisation based in Italy, is working for global solidarity in 23 different countries overseas with about 30 million Euro as total operating charges during the year 2017. CESVI is a member of "Alliance 2015" and is recognised as recommended NGO for consultative status to ECOSOC; it has a differentiated portfolio of donors among which are the European Communities and UN, with a remarkable share from fundraising. Further information is available from the following sources: <http://www.cesvi.eu> , <http://www.alliance2015.org/> (Alliance 2015 web-site). An annual report is available, in English language, at: https://www.cesvi.eu/wp-content/uploads/2018/06/Annual_Report_Cesvi_2017.pdf

11. Policy of Fraud and Corruption

Private and public donors demand that Cesvi uses the funds entrusted to it impartially, justly, and in accordance with the specified purposes. This applies also to the partners' projects supported by Cesvi. Personal relationships or personal advantages should not influence the decisions of Cesvi's employees and its partners.

Corruption undermines the trust of target groups and of the public in the correct fulfilment of responsibilities, and inhibits the best-possible use of accessible funds.

In order to effectively prevent corruption and avoid any suspicion of corrupt behaviour, Cesvi has developed a set of Guidelines for the prevention of Corruption and Fraud, which has to be respected by the employees of the organization as well as the partner organizations with which it is contractually bound.

The consequent transparent application of the regulations and procedures protects Cesvi's public image, defends the organization against unjustified accusations and generalizations and averts violations.

The parties signing this contract/memorandum undertake to follow the mentioned Guidelines and to communicate them firmly to other contractual partners (suppliers, service providers etc.).

Harare, 12th November 2018


Loris Parentini
CESVI
Head of Mission





CESVI ZIMBABWE

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Donor: AICS- Maputo
Cesvi Code: AFZWE0036
- 2) PROGRESS - Program for Growth and Resilience
Donor: UNDP under the ZRBF program
Cesvi Code: AFZWE0037

ANNEX A

TENDERER'S DECLARATION

In response to the invitation to tender for the above contract, we, the undersigned, hereby declare that:

- 1 We have examined and accept in full the content of the dossier for invitation to tender on **CESVI-ZIMBABWE/IOT/01_2018** procedure. We hereby accept its provisions in their entirety, without reservation or restriction.
- 2 We offer to deliver, in accordance with the terms of the tender dossier and the conditions and time limits laid down, without reserve or restriction:

Lot no#: **6 x Centre Pivots**

- 3 The price of our tender **excluding** spare parts and consumables, if applicable [*excluding the discounts described under point 4*] is:

Lot No: [.....]

- 4 We will grant a discount of [.....%], or [.....] [*in the event of our offer being awarded the tender to supply*].
- 5 This offer is valid for a period of [.....] days from the final date of submission of tenders.
- 6 If our tender is accepted, we undertake to provide a performance guarantee as required by Article 5 of the Tender Notice above.
- 7 We are making this tender in our own right (**as a member in the consortium** led by (name of the leader)). We confirm that we are not tendering for the same contract in any other form. We confirm, as a member in the consortium, that all members are jointly and severally liable by law for the execution of the contract, that the lead member is authorised to bind, and receive instructions for and on behalf of, each member, that the execution of the contract, including payments, is the responsibility of the lead member, and that all members in the joint venture/consortium are bound to remain in the joint venture/consortium for the entire period of the contract's execution.
- 8 We are not in any of the situations excluding us from participating in contracts that are listed in Annex B & C of the invitation to tenderers. We undertake to provide the signed proof required of these Annexes (B & C) together with our tender bids. We also understand that if we fail to provide this proof after receiving the notification of award, or if the information provided is proved false, the award will be considered null and void.



We also undertake, if required, to provide evidence of the financial and economic standing and the technical and professional capacity according to the selection criteria for this call to tender specified in the tender dossier.

We also understand that if we provided false information which can be proved false, the award may be considered null and void.

9 We will inform the Contracting Authority immediately if there is any change in the above circumstances at any stage during the implementation of the contract. We also fully recognise and accept that any inaccurate or incomplete information deliberately provided in this application may result in our exclusion from this and other future contracts.

10 We note that the Contracting Authority is not bound to proceed with this invitation to tender and that it reserves the right to award only part of the contract. It will incur no liability towards us should it do so.

Place and date:

Name and First name:

Signature:

Duly authorised to sign this tender on behalf of:

.....

Stamp and/or Name of the Company



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ANNEX B

INELIGIBILITY DECLARATION

To be completed and signed by the bidder

We declare that we are not in any of the situations excluding us from participating in contracts which are listed below.

Cause of ineligibility*
Bankruptcy*
Judgement for non-professional conduct*
Guilt of professional misconduct*
Non fulfilment of obligations relating to the payment of social security contributions and/or of taxes*
Judgement for fraud, corruption, involvement in criminal organisations or any other illegal activity*
Failure to comply with the contractual obligations of previous contracts financed by the Budget of the Donor*

Name and first name:

Duly authorised to sign this tender on behalf of:

.....

Place and date:

Stamp of the firm/company:

Signature:.....



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ANNEX C

ETHICAL AND MANUFACTURING DECLARATION

To be completed and signed by the bidder (including one from each partner in a consortium)

In response to your letter of invitation to international open tender for the above contract, we, the undersigned, hereby declare that the offered supplies are not produced with exploitation of child labour and respect the basic social rights and working conditions.

Name and first name:

Duly authorised to sign this tender on behalf of:

.....

Place and date:

Stamp of the firm/company:

Signature:



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ANNEX D

CONFIDENTIALITY DECLARATION

To be completed and signed by the supplier

The Tenderer agrees to hold in trust and confidence any information or documents disclosed to it, discovered by it or prepared by it in the course of or as a result of its participation in the above-mentioned procurement procedure, and agrees that it shall be used only for the purposes of this procedure.

Name and first name:

Duly authorised to sign this tender on behalf of:

.....

Place and date:

Stamp of the firm/company:

Signature:



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ANNEX 1 (a)

IRRIGATION SPECS FOR SHASHE IRRIGATION SCHEME

IRRIGATION EQUIPMENT

a) PUMP UNIT

The pump fitted to the existing 37 kw booster pump unit is to be upgraded to a KSB pump that can pump +- 220m³/hour into the existing irrigation network.

Tenders to specify

Δ Pump make, size and impeller trimming if necessary

Δ Suction pipe size and configuration

Δ Delivery pipe size and configuration

b) PIPELINE

Suppliers to quote on the supply of 1020m x 250mm PVC piping plus all necessary air/vacuum valves and fittings to connect from the pivot 3 position to the pivot 5 centre pivot position

Tenders to specify

Δ Pipe class

Δ Pipe manufacturing standard

Δ ALL STEEL FITTINGS TO BE EITHER COPON COATED OR GALVANISED

c) CENTRE PIVOT

1 x 390m Ultra High clearance (Minimum clearance 4.85m) fixed centre pivot installed with a 12mm package.

The centre pivot must include the following features;

- ❖ Triple Lip Seal and Stainless Nipple – Provide long, leak-free life at low and high operating pressures
- ❖ Lateral and Radial Welds – Spread loads over wide area for maximum durability
- ❖ Drive Unit Legs – Four braces on each side ensure stable operation in hilly conditions
- ❖ Wrap-Around Leg Attachment Brackets – Cradle the pipe to create added strength. Heavy-duty gussets eliminate pipeline twist.
- ❖ Optimized Span – Offers more machine strength and stability as a result of evenly loaded truss angles and forge-formed truss rods.
- **Ball-And-Socket Hitch – The single piece, forged steel ball ensures smooth span movement in all directions, minimizing stress on the pipeline for longer machine life**
 - ❖ Sprinkler Outlet – The welded coupler strengthens the pipeline around the water outlet, minimizes pressure loss and provides better support for the sprinkler pack.
- **Gearbox – Longer output shaft and offset rim provide clearance between gearbox and tyre to reduce mud build up**

Tenderers are requested to include the following information;

- ❖ Crop clearance
- ❖ Number of existing customers within the area



- ❖ Location of nearest backup centre
- ❖ Wheel speed of last tower
- ❖ Time to do full revolution at maximum speed
- ❖ Maximum power requirement
- ❖ Average power requirement
- ❖ Gear box warranty
- ❖ Control panel details and specifications
- ❖ Control panel functions and capabilities
- ❖ Flow rate of the centre pivot
- ❖ Sprinkler make and type
- ❖ Pressure regulator make, size and type
- ❖ Main pipe internal diameter
- ❖ Operating pressure required at the centre assuming flat ground with 12mm package
- ❖ Pipe wall thickness
- ❖ Pipe flange thickness
- ❖ Number of bolts per flange
- ❖ Details of span combinations

d) ELECTRICS

a) Pivot Electrics

Tenders are to include required cable and electrical fittings from the transformer situated at pivot 3 to the Centre Pivot positions P5. Cables should be sufficient to run high speed pivots plus a Fertigator and agitator all simultaneously.

Distance to pivot 5 from pivot 3 is = +-1030m

Tenders must include all connections and must specify the following;

- ❖ Cable size
- ❖ Number of cores
- ❖ Transformer sizes if used

e) TRANSPORT

The cost of transport of all equipment to site must be included in tenders. The site is +/- 100 km from Beit Bridge on the **Beit Bridge Tuli Circle road** (22.098886°S 29.293909°E).

f) INSTALLATION

The cost of installation of the Centre Pivots and electrics must be included in the tender.



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ANNEX 1 (b)

IRRIGATION SPECS FOR DOMBOLIDENJE IRRIGATION SCHEME

IRRIGATION EQUIPMENT

a) PUMP UNIT

1 x KSB centrifugal pump unit is to be installed below the dam wall that has a capacity of 133m³/hour to a 33m head. Pump speed to be 1460rpm or less.

Tenders to include the following information

Δ Pump make and size

Δ Motor make, size, speed and all other details

Δ Starter details – **THESE NEED TO BE ABLE TO WORK WITH SOLAR PANELS WHICH DO NOT HAVE BATTERIES (VSD REQUIRED)**

Δ Suction pipe size and configuration

Δ Delivery pipe size and configuration

b) PIPELINE

Suppliers to quote on the supply of 1248m x 200mm PVC piping plus all necessary air/vacuum valves and fittings to connect the existing pipeline to the new centre pivot.

Tenders to specify

Δ Pipe class

Δ Pipe manufacturing standard

Δ **ALL STEEL FITTINGS TO BE EITHER COPON COATED OR GALVANISED**

c) CENTRE PIVOT

1 x 228m Ultra High clearance, (Minimum clearance 4.85m) fixed centre pivot installed with a 20mm package. **The use of end sprinklers or end guns is not permitted.**

The centre pivot must include the following features

- ❖ Triple Lip Seal and Stainless Nipple – Provide long, leak-free life at low and high operating pressures
- ❖ Lateral and Radial Welds – Spread loads over wide area for maximum durability
- ❖ Drive Unit Legs – Four braces on each side ensure stable operation in hilly conditions
- ❖ Wrap-Around Leg Attachment Brackets – Cradle the pipe to create added strength. Heavy-duty gussets eliminate pipeline twist.
- ❖ Optimized Span – Offers more machine strength and stability as a result of evenly loaded truss angles and forge-formed truss rods
- **Ball-And-Socket Hitch – The single piece, forged steel ball ensures smooth span movement in all directions, minimizing stress on the pipeline for longer machine life**
- ❖ Sprinkler Outlet – The welded coupler strengthens the pipeline around the water outlet, minimizes pressure loss and provides better support for the sprinkler pack



➤ **Gearbox – Longer output shaft and offset rim provide clearance between the gearbox and tyre to reduce mud build up**

Tenderers are requested to include the following;

- ❖ Number of existing customers within the area
- ❖ Location of nearest backup centre
- ❖ Wheel speed of last tower
- ❖ Time to do full revolution at maximum speed
- ❖ Maximum power requirement
- ❖ Average power requirement
- ❖ Gear box warranty
- ❖ Control panel details and specifications
- ❖ Control panel functions and capabilities
- ❖ Sprinkler make and type
- ❖ Pressure regulator make, size and type
- ❖ Details of span combinations

d) PIVOT ELECTRICS

Tenders are to include required cable and electrical fittings and necessary equipment from the solar panels to the centre pivot. The power requirement will be approximately 7 amps

Distance to the pivot from solar panels is = +/-250metres

Tenderers must include all connections

Tenderers are requested to specify the following;

- ❖ Cable sizes
- ❖ Number of cores
- ❖ All cables to be armoured

e) TRANSPORT

The cost of transport of all equipment to site must be included in tenders. The site is +/- 134 km from Beit Bridge in the Bulawayo direction (21.631630°S 29.440157°E).

f) INSTALLATION

The cost of installation of the Centre Pivots, and electrics must be included in the tender bid.



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ANNEX 1 (c)

IRRIGATION SPECS FOR RIVER RANCH IRRIGATION SCHEME

IRRIGATION EQUIPMENT

a) PUMP UNITS

i) FLOATING RIVER PUMP

1 x KSB centrifugal pump unit with sand abstraction abilities is to be mounted onto a floating platform that also has wheels and a draw bar such that it can be towed into the river area. The capacity is 150m³/hour to a 35m head. Pump speed to be 1460rpm or less. The delivery pipe needs to be 102m long, HAVE A QUICK COUPLING MECHANISM and must be able to be laid above ground.

Tenders to include the following information

- Δ Pump make and size
- Δ Motor make, size, speed and all other details
- Δ Starter details –
- Δ Suction pipe size and configuration
- Δ Delivery pipe size and configuration

ii) BOOSTER PUMPS

1 x KSB centrifugal pump unit is to be installed at the night storage dam. The pump unit must have a capacity of 150m³/hour to a 55m head. Pump speed to be 2960rpm or less. *The pumps needs to be installed so that they are connected to the existing suction manifolds that come from the reservoirs. All of the above is to be included in the tender.*

Tenders to include the following information

- Δ Pump make and size
- Δ Motor make, size, speed and all other details
- Δ Starter details –
- Δ Suction pipe size and configuration
- Δ Delivery pipe size and configuration

b) PIPELINE

Suppliers to quote on the supply of 1402m x 200mm PVC piping plus all necessary air/vacuum valves and fittings to connect from the pump unit to the centre pivot.

Tenders to specify

- Δ Pipe class
- Δ Pipe manufacturing standard
- Δ **ALL STEEL FITTINGS TO BE EITHER COPON COATED OR GALVANISED**

c) CENTRE PIVOT

1 x 309.5m Ultra High clearance, (Minimum clearance 4.85m) fixed centre pivot installed with a **direct under canopy and a direct inter row spray package capable of delivering 12mm per day over the whole**



area . Every sprinkler should be fitted with an isolation valve. **The use of end sprinklers or end guns is not permitted.**

The centre pivot must include the following features;

- ❖ Triple Lip Seal and Stainless Nipple – Provide long, leak-free life at low and high operating Pressures
- ❖ Lateral and Radial Welds – Spread loads over wide area for maximum durability
- ❖ Drive Unit Legs – Four braces on each side ensure stable operation in hilly conditions
- ❖ Wrap-Around Leg Attachment Brackets – Cradle the pipe to create added strength. Heavy-duty gussets eliminate pipeline twist.
- ❖ Optimized Span – Offers more machine strength and stability as a result of evenly loaded truss angles and forge-formed truss rods
- **Ball-And-Socket Hitch – The single piece, forged steel ball ensures smooth span movement in all directions, minimizing stress on the pipeline for longer machine life**
 - ❖ Sprinkler Outlet – The welded coupler strengthens the pipeline around the water outlet, minimizes pressure loss and provides better support for the sprinkler pack
- **Gearbox – Longer output shaft and offset rim provide clearance between gearbox and tire to reduce mud build up**

Tenders to include the following information;

- ❖ Crop clearance
- ❖ Number of existing customers within the area
- ❖ Location of nearest backup centre
- ❖ Wheel speed of last tower
- ❖ Time to do full revolution at maximum speed
- ❖ Maximum power requirement
- ❖ Average power requirement
- ❖ Gear box warranty
- ❖ Control panel details and specifications
- ❖ Control panel functions and capabilities
- ❖ Sprinkler make and type
- ❖ Pressure regulator make, size and type
- ❖ Details of span combinations

d) PIVOT ELECTRICS

Tenders are to include required cable and electrical fittings from the MCB in the pump house to the Centre Pivot positions P1. The cable must be sized to accommodate a **high-speed pivot, Fertigator and agitator.**

Distance to the pivot from pump house = +-1420m

Tenders must include all connections.

Tenders to include the following information;

- ❖ Cable sizes
- ❖ Number of cores
- ❖ All cables to be armoured

e) TRANSPORT

The cost of transport of all equipment to site must be included in tenders. The site is +/- 25 km from Beit Bridge in the Shashe direction (22.149721°S 29.921927°E).

f) INSTALLATION

The cost of installation of the Centre Pivots, and electrics must be included in the tender.



CESVI ZIMBABWE

Procedure Code: CESVI-ZIMBABWE/IOT/01_2018

Projects:

1) CROPS - Create Opportunities for a Sustainable agriculture and livestock development to enhance the resilience of Beitbridge and Mwenezi communities

Donor: AICS- Maputo

Cesvi Code: AFZWE0036

2) PROGRESS - Program for Growth and Resilience

Donor: UNDP under the ZRBF program

Cesvi Code: AFZWE0037

ANNEX 1 (d)

IRRIGATION SPECS FOR KWALU IRRIGATION SCHEME

IRRIGATION EQUIPMENT

a) PUMP UNITS

i) FLOATING RIVER PUMP

1 x KSB centrifugal pump unit with sand abstraction abilities is to be mounted onto a floating platform that also has wheels and a draw bar such that it can be towed into the river area. The capacity is 130m³/hour to a 12m head. Pump speed to be 1460rpm or less. The delivery pipe needs to be 102m long, HAVE A QUICK COUPLING MECHANISM and must be able to be laid above ground.

Tenders to include the following information

Δ Pump make and size

Δ Motor make, size, speed and all other details

Δ Starter details –

Δ Suction pipe size and configuration

Δ Delivery pipe size and configuration

ii) BOOSTER PUMPS

2 x KSB centrifugal pump units are to be installed at the night storage dam. Each pump unit must have a capacity of 130m³/hour to a 33m head. Pump speed to be 1460rpm or less. *The pumps need to be installed so that they have a flooded suction and are to be fed by 1 inlet manifold and 1 supply pipe which will be sufficiently long to go through the night storage dam wall. All of the above is to be included in the tender.*

Tenders to include the following information

Δ Pump make and size

Δ Motor make, size, speed and all other details

Δ Starter details –

Δ Suction pipe size and configuration

Δ Delivery pipe size and configuration

b) PIPELINE

Suppliers to quote on the supply of 420m x 250mm PVC piping and 648m x 200mm PVC piping plus all necessary air/vacuum valves and fittings to connect from the pump units to the 2 centre pivot positions.

Tenders to specify

Δ Pipe class

Δ Pipe manufacturing standard

Δ ALL STEEL FITTINGS TO BE EITHER COPON COATED OR GALVANISED

c) CENTRE PIVOTS

1 x 329m Ultra High clearance, (Minimum clearance 4.85m) fixed centre pivot installed with a **direct under canopy and a direct inter row spray package capable of delivering 10.6mm per day over the whole area.** Every sprinkler should be fitted with an isolation valve. **The use of end sprinklers or end guns is not permitted.**



1 x 289m Ultra High clearance, (Minimum clearance 4.85m) fixed centre pivot installed with a 12mm package

The centre pivot must include the following features

- Δ Triple Lip Seal and Stainless Nipple – Provide long, leak-free life at low and high operating pressures
- Δ Lateral and Radial Welds – Spread loads over wide area for maximum durability
- Δ Drive Unit Legs – Four braces on each side ensure stable operation in hilly conditions
- Δ Wrap-Around Leg Attachment Brackets – Cradle the pipe to create added strength. Heavy-duty gussets eliminate pipeline twist.
- Δ Optimized Span – Offers more machine strength and stability as a result of evenly loaded truss angles and forge-formed truss rods
- Δ **Ball-And-Socket Hitch – The single piece, forged steel ball ensures smooth span movement in all directions, minimizing stress on the pipeline for longer machine life**
- Δ Sprinkler Outlet – The welded coupler strengthens the pipeline around the water outlet, minimizes pressure loss and provides better support for the sprinkler pack
- Δ **Gearbox – Longer output shaft and offset rim provide clearance between the gearbox and tire to reduce mud build up**

Tenders to include the following information

- Δ Crop clearance
- Δ Number of existing customers within the area
- Δ Location of nearest backup centre
- Δ Wheel speed of last tower
- Δ Time to do full revolution at maximum speed
- Δ Maximum power requirement
- Δ Average power requirement
- Δ Gear box warranty
- Δ Control panel details and specifications
- Δ Control panel functions and capabilities
- Δ Sprinkler make and type
- Δ Pressure regulator make, size and type
- Δ Details of span combinations

d) Pivot Electrics

Tenders are to include required cable and electrical fittings from the MCB in the pump house to the Centre Pivot positions P1 & P2. The cable must be sized to accommodate a **high-speed pivot, Fertigator and agitator.**

Distance to the first pivot from pump house = +-430m

Distance to the second pivot from first pivot = +-650m

Tenders must include all connections.

Tenders to include the following information

- Cable sizes
- Number of cores
- All cables to be armoured

e) TRANSPORT

The cost of transport of all equipment to site must be included in tenders. The site is +/- 95 km from Beit Bridge in the Bulawayo direction (21.744659°S 29.623762°E).

f) INSTALLATION

The cost of installation of the booster pumps, mainlines, Centre Pivots, and electrics must be included in all tenders.



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Donor: AICS- Maputo
Cesvi Code: AFZWE0036
- 2) PROGRESS - Program for Growth and Resilience
Donor: UNDP under the ZRBF program
Cesvi Code: AFZWE0037

ANNEX 1 (e)

IRRIGATION SPECS FOR MUROVE IRRIGATION SCHEME

IRRIGATION EQUIPMENT

a) PUMP UNIT

i) BOOSTER PUMP

1 x KSB centrifugal pump unit is to be installed at the night storage dam. The pump unit must have a capacity of 150m³/hour to a 28m head. Pump speed to be 1460rpm or less. **The pumps needs to be installed so that they have a flooded suction and the suction manifold must be designed to accommodate 2 additional pumps of similar size for the future. The suction manifold arrangement must be such that the canal system can be supplied simultaneously**

Tenders to include the following information

- Δ Pump make and size
- Δ Motor make, size, speed and all other details
- Δ Starter details –
- Δ Suction pipe size and configuration
- Δ Delivery pipe size and configuration

b) PIPELINE

Suppliers to quote on the supply of 432m x 200mm PVC piping plus all necessary air/vacuum valves and fittings to connect from the pump unit to the centre pivot position.

Tenders to specify

- Δ Pipe class
- Δ Pipe manufacturing standard
- Δ **ALL STEEL FITTINGS TO BE EITHER COPON COATED OR GALVANISED**

c) CENTRE PIVOT

1 x 309.5m Ultra High clearance, (Minimum clearance 4.85m) fixed centre pivot installed with a 12mm standard sprinkler package.

The centre pivot must include the following features

- Δ Triple Lip Seal and Stainless Nipple – Provide long, leak-free life at low and high operating pressures
- Δ Lateral and Radial Welds – Spread loads over wide area for maximum durability
- Δ Drive Unit Legs – Four braces on each side ensure stable operation in hilly conditions
- Δ Wrap-Around Leg Attachment Brackets – Cradle the pipe to create added strength. Heavy-duty gussets eliminate pipeline twist.
- Δ Optimized Span – Offers more machine strength and stability as a result of evenly loaded truss angles and forge-formed truss rods
- Δ **Ball-And-Socket Hitch – The single piece, forged steel ball ensures smooth span movement in all directions, minimizing stress on the pipeline for longer machine life**
- Δ Sprinkler Outlet – The welded coupler strengthens the pipeline around the water outlet, minimizes pressure loss and provides better support for the sprinkler pack
- Δ **Gearbox – Longer output shaft and offset rim provide clearance between the gearbox and tire to reduce mud build up**



Tenders to include the following information

- Δ Crop clearance
- Δ Number of existing customers within the area
- Δ Location of nearest backup centre
- Δ Wheel speed of last tower
- Δ Time to do full revolution at maximum speed
- Δ Maximum power requirement
- Δ Average power requirement
- Δ Gear box warranty
- Δ Control panel details and specifications
- Δ Control panel functions and capabilities
- Δ Flow rate of the centre pivot
- Δ Sprinkler make and type
- Δ Pressure regulator make, size and type
- Δ Main pipe internal diameter
- Δ Operating pressure required at the centre assuming flat ground with 12mm package
- Δ Pipe wall thickness
- Δ Pipe flange thickness
- Δ Number of bolts per flange
- Δ Details of span combinations

d) ELECTRICS

b) Pivot Electrics

Tenders are to include required cable and electrical fittings from the pump point situated at the night storage dam to the Centre Pivot position. Cables should be sufficient to run a high speed pivot plus a Fertigator and agitator all simultaneously.

Distance to pivot from pump house is +-432m

Tenders must include all connections and must specify the following

Cable size

Number of cores

Transformer sizes if used

e) TRANSPORT

The cost of transport of all equipment to site must be included in tenders. The site is +/- 30 km from Neshuro growth point (Mwenezi district) (21.104340°S 30.502716°E).

f) INSTALLATION

The cost of installation of the booster pumps, mainlines, Centre Pivots, and electrics must be included in all tenders.



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ANNEX 3

TENDER GUARANTEE FORM

Supply and Works contract

(To be completed on paper bearing the letterhead of the financial institution)

For the attention of
Cesvi Fondazione ONLUS
Via Broseta 68/a
24128 Bergamo
Italy

referred to below as the "Contracting Authority"

Title of contract: CESVI-ZIMBABWE/IOT/01_2018

Identification number:

We, the undersigned, [name and address of financial institution], hereby irrevocably declare that we will guarantee, as primary obligor, and not merely as a surety on behalf of [*Tenderer's name and address*], the payment to the Contracting Authority of [*amount of the tender guarantee*], this amount representing the guarantee referred to in article 6 of the Procurement Notice (CESVI-ZIMBABWE/IOT/01_2018).

Payment shall be made without objection or legal proceedings of any kind, upon receipt of your first written claim (sent by registered letter with confirmation of receipt) if the Tenderer does not fulfil all obligations stated in its tender. We shall not delay the payment, nor shall we oppose it for any reason whatsoever. We shall inform you in writing as soon as payment has been made.

We note that the guarantee will be released at the latest within 45 days of the expiry of the tender validity period, including any extensions, in accordance with article 6 of the Dossier to Tenderers [and in any case at the latest on (1 year after the deadline for submission of tenders)]¹.

The Italian law shall be applicable to this guarantee. Any dispute arising out of or in connection with this guarantee shall be referred to the court of Bergamo.

The guarantee will enter into force and take effect from the submission deadline of the tender.

Done at/../..

Name and first name: On behalf of:

Signature:

[*stamp of the financial body providing the guarantee*]

¹ This mention has to be inserted only where the law applicable to the guarantee imposes a precise expiry date



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ANNEX E DECLARATION FORM

I, the undersigned, _____, [please identify your full name and position] on behalf of _____ [please identify your Organization/Entity full name] have read:

1. Cesvi Ethical Code;
2. Cesvi Protection from sexual exploitation and Abuse (PSEA) Policy;
3. Cesvi Policy to prevent corruption and fraud (2018)

(all documents available at: www.cesvi.org)

and I understand them in full and I agree to

I hereby represent and warrant that I am well aware that it is my obligation to act in a manner which promotes the best interests of Cesvi and that I commit to avoid any violations when making decisions and taking actions on behalf of Cesvi.

Should a possible violations arise in future, I recognize that I have the obligation to notify, based on my position, the appropriate person as established in cesvi Policies and Procedures or to report the situation in other relevant manner as described in listed documentation and related policies.

If any changes to the information or responses provided on this form occur, the declarant is required to update the information on this form in writing, and submit the update to his/her line manager or other authorized person of Cesvi.

Signature

Date