**LOT 5: Supply of Irrigation Equipment and Tools to the Integrated Polytechnic Regional College (IPRC) Gishari.**

*Bidders are expected to examine carefully and comply with all instructions and specifications.*

**Date: \_\_\_\_\_\_/\_\_\_\_\_\_/\_\_\_\_\_\_\_\_\_**

**Bidder Information**

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| --- | --- | --- | --- |
|  |  |  |  |
| Bidder’s Legal Name |  |  |
|  |
| TIN Number |  |  |
|  |  |  |
| Country/ies of Registration/Operation |  |  |
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Bidder’s Authorized Representative |
|  |  |  |  |  |
| Title |  |  Telephone |  |  |
|  |
| Email |  |  |
|  |

**Descriptions and Specifications of required Irrigation Equipment and Tools to be supplied to IPRC Gishari.**

1. **Drip irrigation kit**

| **SN** | **Item name** | **Specifications** | **Quantity** | **Unit** | **Unit Cost (Frw)** | **Total Cost (Frw)** |
| --- | --- | --- | --- | --- | --- | --- |
|  | Tank outlet | HDPE pipe PN 10, 32 mm dia, M-M | 4 | Pc |  |  |
|  | Drip tapes | 14mm diameter | 2300 | m |  |  |
|  | Elbow | HDPE pipe PN 10, 32 mm dia, F-F | 5 | Pc |  |  |
|  | Pipes  | HDPE pipe PN 10, 32 mm dia | 500 | M |  |  |
|  | Plastic Filter | 32 mm dia, HDPE,M-M | 6 | Pc |  |  |
|  | Plastic end caps | 32 mm dia, HDPE | 4 | Pc |  |  |
|  | Goof plug with drip line connector | 14 mm dia. | 200 | Pc |  |  |
|  | Grommet (rubber) | 14 mm dia. | 200 | Pc |  |  |
|  | Drip tape End caps | 14 mm dia. | 200 | Pc |  |  |
|  | Drip union | 14 mm dia. | 50 | Pc |  |  |
|  | Plastic valve | 32 mm dia, HDPE with internally threaded connectors  | 5 | Pc |  |  |
|  | Plastic tank | HDPE TANK with 5m3 capacity | 2 | Pc |  |  |
|  | Irrigation drip lines puncher  | Creates a precise 14mm hole suitable for connecting tube adaptors, drip emitters. | 2 | Pc  |  |  |

1. **Solar Water Pump Kit**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **No.** | **Item Description** | **Item Specifications** | **Units** | **Quantity** | **Unit Price (Frw)** | **Total Price (Frw)** |
|  | Pump  | Solar pump surface irrigation. TDH=90m, QC=23m3/hour, Power=3KW with control power. Inlet=2” & Outlet=2”with a cart | Pc | 2 |  |  |
|  | Solar panel | Solar panels of 3.4KW with a converter | Pc | 2 |  |  |

1. **Water pond sheet with shade and installation activities**

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| --- | --- | --- | --- | --- |
| **No.** | **Item Description** | **Item Specifications** | **Unit Price (Frw)** | **Total Price (Frw)** |
|  | Irrigation dam/water pond  | Geomembrane for dam sheet, Puncture Resistance, Impact Resistance, Tear Resistance, Waterproof, Black,HDPE, From 0.8mm to 1 mm thickness |  |  |
| Dam Excavation 17/17-12/12, 3 m depth, with 1m wide Spreaded Gravel and 1m wide Grass Planting |  |  |
| Installation work and connection to rainwater harvesting facilities. |  |  |
| **Fencing and shading**1. Stone foundation of 40cm wide,50cm deepx84m long
2. RC Concrete Column : 40cm widex40cmx100cm deep in hard soil
3. Metallic Column Trusses Support : 60 X 40 X 1.5 tube
4. Middle Column : 60 x 40 x 1.5 tube
5. Horizontal metallic Tube : 40 x 40 x 1.5
6. Entrance Door : 90 x 210 ( Metallic Sheet on 60 X 40 X 1.5 Metallic tube frame )
7. . Truss in 60 x 40 x 1.5 Metallic Tube
8. Purlins in 40 x 40 x 1.5 metallic Tube
9. Cover in Autoportant Iron sheet 28 BG
10. Metallic U Shape Gutter at Both Side
11. 110 Dia PVC Pipe Down Pipe.
12. walls of 3m above ground and 3.8m in middle roof with a standard barza
13. 110mm dia spillway
 |  |  |

1. **Pipes& rain guns**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **No.** | **Item Description** | **Item Specifications** | **Units** | **Quantity** | **Unit Price (Frw)** | **Total Price (Frw)** |
|  | Rain guns | Medium Rain gun with stands, Q=10M3/Hr, 22m wetted radius, G.I | Pc | 2 |  |  |
|  | Quick Coupling(QC) HDPE-pipes | HDPE rigid Pipes, 75mm diameter, 10 PN, 6m long  | Pc | 30 |  |  |

**NOTE:**

1. Kilimo Trust Rwanda, in a fair and transparent manner, will select companies that fulfill all requirements.
2. If necessary, interested bidders can visit the site any time before **28th February 2022**.
3. For items that need to be installed or assembled, the bidder should include installation and assembling cost in the bid.