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# ENHANCING BELIZE RESILIENCE TO ADAPT TO THE EFFECTS OF CLIMATE CHANGE

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## Selection Report

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Title of Works: Construction of Communal  
Livestock Holding Facility

November 10, 2014

## SELECTION REPORT

**Project Title:** Enhancing Belize's resilience to adapt to the effects of Climate Change

**Project ID:** 00083646

**Title of Works:** Construction of Communal Livestock Holding Facility

**Project Description:** The “**Enhancing Belize's Resilience to Adapt to the Effects of Climate Change**” project funded by the European Union aims to increase Belize's ability to respond to the threats of climate change as a means of ensuring its goal for sustainable economic and human development. The agriculture sector is extremely important to Belize's economy and is inherently sensitive to climate change. The objective of Pilot 3 is to reduce the economic losses arising from the impacts of climate change among rural cattle producers of Belize District by 75% within the next two years. The negative impacts of warmer temperatures and shifting moisture availability have been predicted within national agriculture sector vulnerability assessments. This pilot finances small local works to help mitigate the impacts of climate change and reduce vulnerability of the livestock industry. It is anticipated that investments in farm production practices will contribute to reducing farm losses and to the enhancement of small farmers' capacities to cope with the prolonged floods and severe dry weather conditions.

The major impact of these climatic changes is reflected on the nutrition of the cattle, especially when the nutrition of the animal is solely dependent on grass or pasture. The nutrition of cattle here in Belize is based mainly on natural pasture, given that most of these are degraded or in the process of deterioration. Such situation affects the productivity of cattle, in return affecting negatively the family livelihood and the environment.

**General Responsibilities:** Construct a Communal Livestock Holding Facility

**Specifications:**

<b>General Description of Works</b>		
<b>Item</b>	<b>Quantity</b>	<b>Description</b>
1	1	<b>Site Clearing</b>
2	1	<b>150ft X 120ft Perimeter Fence including divisions made of Hardwood Lumber</b>
3	2	<b>Loading &amp; Unloading Chute made of Hardwood Lumber</b>
4	1	<b>150ft in length Corralling Pen &amp; Chute Fence made of Hardwood Lumber</b>
5	6	<b>12ft Gates made of Hardwood Lumber</b>
6	1	<b>A Roof Structure measuring 60 feet in length. The base of the roof must measure a minimum of 10ft from the ground level and is to be made of Pine Lumber or Hardwood &amp; Zinc Roof.</b>
7	1	<b>15ft X 15ft Storage Room, which is to be made of concrete.</b>
8	1	<b>A 10ft X 14ft House made of Wood or Aluminum outer walls, installing it on posts measuring 6" X 6", floor height at a minimum of 3ft from ground level with roof &amp; step</b>
9	1	<b>Concrete Floor for Corralling Pen &amp; Chute and a Portion of the Roof Structure with a thickness of no less than 3 inches</b>
10	1	<b>Installation of Scale &amp; Squeeze</b>
11	4	<b>Water Troughs</b>

## **Consideration**

### ***The process***

As per UNDP's procurement process a Request for Proposal was advertised in two nationally distributed newspapers on October 17, 2014 as is the requirement. Interested applicants were required to request a Terms of Reference package from the Ministry of Agriculture-Project Execution Unit personally or via email. After making a request for package, interested applicants were to submit applications which would include Letter of Interest, Curriculum Vitae, Bill of Quantity and a Credit Facility letter of \$30,000. A clarification period was then given to all interested applicants where the deadline to ask questions was on Wednesday, October 29, 2014 at 12.00 p.m. The application was then to be submitted via email or hand delivered to the Project Manager at the Project Execution Unit by Friday, October 31, 2014 at 12.00 p.m.

Clarifications and corrigendum to the previously sent package was made on October 30, 2014. The clarifications included:

1. \$30,000 Credit Facility requested could be made in the form of financing from a financial institution or materials from a large-scale hardware supplier.
2. In the Bill of Quantity item 1.3 spacing must be changed from 12" cc to 14" cc as prescribed in the Description of Works.
3. 3/8' nuts with 3/8" bolts (7 inch) and 3/8" washers all to be galvanized are to replace 6" Nails. Nails are to be used where necessary and are to be included in the BOQ.
4. The submersible pump under the section Water Troughs is to have a maximum of 1.5 horsepower or equivalent and must be electric.

Due to the amount of changes at such short notice the deadline date to apply was changed from Friday, October 31, 2014 to Monday, November 3, 2014 at 8.00 am.

A total of five (5) requests for Terms of Reference package for the construction of the Communal Livestock Holding Facility were made. However, by the deadline date Monday, November 3, 2014; 8.00 a.m. there were only two (2) applications submitted to the Project Execution Unit.

Bid Opening was held on October 4, 2014 at 9.00 a.m. whereby the two (2) applicants were present along with the Project Manager (Carlos Itza), Procurement Officer (Manuel Matus), and Recording Secretary (Tracey Recinos). At the bid opening the applicants were reminded that award would be given to the most technically compliant bid offering the lowest price. Each application was reviewed in order to see if the applicant was administratively compliant with project requirement. After confirming that both applicants were compliant their financial offers were stated as follows: HD Construction quoting for a total of One hundred twenty nine thousand six hundred forty two dollars and sixty cents (BZ\$129,642.60) and Irah Construction quoting for a total of One hundred thirteen thousand sixty four dollars (BZ\$113,064.00). The applicants were then asked to leave at which point the evaluation of their application continued.

Applications were then reviewed on October 4, 2014 at 9.30 a.m. where an evaluation committee was to determine capacity and compliance of proposals as outlined in the Terms of Reference package.

Evaluation Committee consisted of a chairperson, a recording secretary, three evaluators and two observers. The committee then comprised of Manuel Matus Procurement Officer – MNRA Project Execution Unit (Chairperson), Tracey Recinos - Administrative Assistant (Recording secretary), Carlos Itza Director of Projects – MNRA Project Execution Unit (Evaluator), Alistair Macpherson - CEO of Belize Livestock Producer Association (Evaluator), Abraham Gonzales – Extension Officer for MNRA Belize Agriculture Department Collin Gillett - Project Coordinator (Observer), Hector Alpuche – UNDP (Observer)

## **Short listing**

The first process was to shortlist applications to ensure that all applicants were administratively compliant with project requirements. Committee then agreed that in order to be shortlisted applicants had to submit application before deadline along with a letter of interest, curriculum vitae, bill of quantity and a letter from a financial institution or large-scale hardware to provide a credit facility of a minimum of BZ\$30,000.

The Chairperson then commenced the short listing process by reading out the administrative grid. Applications were then reviewed in order to ensure that each application included a letter of interest, curriculum vitae, bill of quantity and letter of credit facility. Additionally, the committee ensured that all applications were received before the advertised deadline and that a completion date was included. At this meeting the evaluators agreed on the criteria for the evaluation of the applications and created a table to record the information.

### **Shortlisted Candidates**

<b>Applicant envelope number</b>	<b>Applicant's name</b>	<b>Met Deadline (Yes/No)</b>	<b>Letter of Interest received (Yes/No)</b>	<b>Curriculum Vitae (Yes/No)</b>	<b>Credit Facility from Financial Institution or</b>	<b>Bill of Quantity included (Yes/No)</b>	<b>Delivery Date included (Yes/No)</b>	<b>Shortlisted (Yes/No)</b>	<b>Comments</b>
1	HD CONSTRUCTION	Y	Y	Y	Y	Y	Y	Y	
2	IRAH CONSTRUCTION	Y	Y	Y	Y	Y	Y	Y	

Upon reviewing applications the committee established that both applicants were administratively compliant.

(Completed Administrative Compliance Grid is annexed to this report)

## Evaluation

The Evaluation Committee then analyzed each application shortlisted. The approach adopted by the Evaluation Committee was to develop a table with technical criteria to see if applicants were compliant.

Applicant envelope number	Applicant's name	Experience in Construction (Yes/No)	Credit Facility of \$30,000 (Yes/No)	Bid for all items (Yes/No)	Within delivery period (Yes/No)	Compliance with technical specifications (Yes/No)	Other technical requirements in tender dossier (Yes/No/N/A)	Technical Compliance (Yes/No)	Comments
1	HD CONSTRUCTION	Y	Y	Y	Y	Y	n/a	Y	High Prices Inconsistency in the prices of line items
2	IRAH CONSTRUCTION	Y	Y	Y	Y	Y	n/a	Y	Prices are more in line with market price
<b>Recommendations:</b>									

The committee then established that both HD Construction and Irah Construction were technically compliant with project requirements. Both companies had experience in construction, a credit facility of \$30,000 from Builder's Hardware, and they bid for all items. Moreover, applicants also indicated that construction would take a maximum of seven (7) weeks which is within our time frame.

Being that applicants were technically compliant evaluating committee further evaluated based on their financial offer.

(Evaluation grids of all the applications examined are annexed to this report)

## ***FINANCIAL OFFER***

Irah Construction provided the lowest price for the construction of Communal Livestock Holding Facility to be constructed at Willows Bank. It was then recommended that contract be awarded to Irah Construction as they provided the best value for money.

<b>FINANCIAL OFFER</b>		<b>Recommendations</b>
<b>Company</b>	<b>Total Quoted \$</b>	
HD Construction	129,642.60	
Irah Construction	113,064.00	Recommended Contractor



**ANNEX 1:  
REQUEST FOR PROPOSAL  
(AS PER ADVERTISEMENT)**



European Union



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## Request for Proposal “Construction of Communal Livestock Holding Facility”

### **Project Reference: Enhancing Belize’s Resilience to Adapt to the Effects of Climate Change**

The “**Enhancing Belize’s Resilience to Adapt to the Effects of Climate Change**” project funded by the European Union aims to increase Belize’s ability to respond to the threats of climate change as a means of ensuring its goal for sustainable economic and human development. The agriculture sector is extremely important to Belize’s economy and is inherently sensitive to climate change. The objective of Pilot 3 is to reduce the economic losses arising from the impacts of climate change among rural cattle producers of Belize District by 75% within the next two years. The negative impacts of warmer temperatures and shifting moisture availability have been predicted within national agriculture sector vulnerability assessments. This pilot finances small local works to help mitigate the impacts of climate change and reduce vulnerability of the livestock industry. It is anticipated that investments in farm production practices will contribute to reducing farm losses and to the enhancement of small farmers’ capacities to cope with the prolonged floods and severe dry weather conditions.

The major impact of these climatic changes is reflected on the nutrition of the cattle, especially when the nutrition of the animal is solely dependent on grass or pasture. The nutrition of cattle here in Belize is based mainly on natural pasture, given that most of these are degraded or in the process of deterioration. Such situation affects the productivity of cattle, in return affecting negatively the family livelihood and the environment.

The project here by is requesting interested parties to submit a proposal for the construction of a communal livestock holding facility. The general description of works must include but not be limited to:

- 150ft X 120ft Perimeter Fence including divisions made of Hardwood Lumber
- Loading & Unloading Chute made of Hardwood Lumber
- Installation of scale and squeeze within chute
- 150ft in length Corralling Pen & Chute Fence made of Hardwood Lumber
- 12ft Gates made of Hardwood Lumber
- A Roof Structure measuring 60 feet in length. The base of the roof must measure a minimum of 10ft from the ground level and is to be made of Pine Lumber or Hardwood & Zinc Roof.
- 15ft X 15ft Storage Room, which is to be made of concrete.
- A 10ft X 14ft House made of Wood or Aluminum outer walls, installing it on posts measuring 6” X 6”, floor height at a minimum of 3ft from ground level with roof and steps

- Concrete Floor for Corralling Pen & Chute, Storage Room and a Portion of the Roof Structure with a thickness of no less than 3 inches

### **Submission of Application Package**

The Ministry of Natural Resources & Agriculture now invites interested parties to submit a Proposal in order to provide the project with a Communal Livestock Holding Facility. Interested parties may obtain a Request for Proposal (RFP) Package from the Office or Via Email From:

**Project Manager**  
Project Execution Unit Office  
Agriculture Show Grounds  
Belmopan, Cayo District  
Belize, Central America  
**Email:** [agriculturegcca@gmail.com](mailto:agriculturegcca@gmail.com)

The deadline for clarifications after receiving the RFP Package is October 29<sup>th</sup> 2014 at 12:00 PM.

Full Proposals must be hand delivered or submitted via email on or before October 31<sup>st</sup>, 2014 at 12:00 PM at:

**Project Manager**  
Project Execution Unit Office  
Agriculture Show Grounds  
Belmopan, Cayo District  
Belize, Central America  
**Email:** [agriculturegcca@gmail.com](mailto:agriculturegcca@gmail.com)

# **ANNEX 2: TERMS OF REFERENCE**



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## Terms of Reference

# “Construction of Communal Livestock Holding Facility”

### **Project Reference: Enhancing Belize’s Resilience to Adapt to the Effects of Climate Change**

The “**Enhancing Belize’s Resilience to Adapt to the Effects of Climate Change**” project funded by the European Union aims to increase Belize’s ability to respond to the threats of climate change as a means of ensuring its goal for sustainable economic and human development. The agriculture sector is extremely important to Belize’s economy and is inherently sensitive to climate change. The objective of Pilot 3 is to reduce the economic losses arising from the impacts of climate change among rural cattle producers of Belize District by 75% within the next two years. The negative impacts of warmer temperatures and shifting moisture availability have been predicted within national agriculture sector vulnerability assessments. This pilot finances small local works to help mitigate the impacts of climate change and reduce vulnerability of the livestock industry. It is anticipated that investments in farm production practices will contribute to reducing farm losses and to the enhancement of small farmers’ capacities to cope with the prolonged floods and severe dry weather conditions.

The major impact of these climatic changes is reflected on the nutrition of the cattle, especially when the nutrition of the animal is solely dependent on grass or pasture. The nutrition of cattle here in Belize is based mainly on natural pasture, given that most of these are degraded or in the process of deterioration. Such situation affects the productivity of cattle, in return affecting negatively the family livelihood and the environment.

The project here by is requesting a proposal for the construction and installation of a Communal Livestock Holding Facility.

Attached in the Annexes are: Description of Works, Bill of Quantity, Sketch Designs and Pictures of the site

The Contractor will have a maximum of Seven (7) Weeks, commencing at date of contract signature, to construct the Communal Livestock Holding Facility in Willows Bank.

General Description of Works		
Item	Quantity	Description
1	1	<u>Site Clearing</u>
2	1	<u>150ft X 120ft Perimeter Fence including divisions made of Hardwood Lumber</u>
3	2	<u>Loading &amp; Unloading Chute made of Hardwood Lumber</u>
4	1	<u>150ft in length Corralling Pen &amp; Chute Fence made of Hardwood Lumber</u>
5	6	<u>12ft Gates made of Hardwood Lumber</u>
6	1	<u>A Roof Structure measuring 60 feet in length. The base of the roof must measure a minimum of 10ft from the ground level and is to be made of Pine Lumber or Hardwood &amp; Zinc Roof.</u>
7	1	<u>15ft X 15ft Storage Room, which is to be made of concrete.</u>
8	1	<u>A 10ft X 14ft House made of Wood or Aluminum outer walls, installing it on posts measuring 6" X 6", floor height at a minimum of 3ft from ground level with roof &amp; step</u>
9	1	<u>Concrete Floor for Corralling Pen &amp; Chute and a Portion of the Roof Structure with a thickness of no less than 3 inches</u>
10	1	<u>Installation of Scale &amp; Squeeze</u>
11	4	<u>Water Troughs</u>

Please make note that Proposals must be made out to: **UNDP/GCCA/Agriculture**  
Clarifications can be made on or Before October 29<sup>th</sup> 2014 at 12:00pm via email or at our office.  
The applicant MUST bid for ALL items.  
The Applicant MUST include Completion Period  
Contract will be awarded to the most technically compliant bid offering the lowest price.

**Submission of Application Package:**

Quotations must be submitted along with the following documents:

- Detailed Bill of Quantity(not limited to the quantity/items in the attached BOQ)
- Credit facility letter from a financial institution of no less than \$30,000
- Letter of Interest
- Brief Curriculum Vitae of work experience.

This may be hand delivered or submitted via email on or before October 31<sup>st</sup>, 2014 at 12:00 PM at:

The Project Manager  
Project Execution Unit Office  
Agriculture Show Grounds  
Belmopan, Cayo District  
Belize, Central America  
Email: [agriculturegcca@gmail.com](mailto:agriculturegcca@gmail.com)

**ANNEX 1**  
**DESCRIPTION OF WORKS**

# **COMMUNAL LIVESTOCK HOLDING FACILITY**

## **DESCRIPTION OF WORKS**

### **Site Clearing**

This includes Site clearing, removal of existing trees and clearing of site after completion of works.

### **150ft X 120ft Perimeter Fence including divisions made of Hardwood Lumber**

This includes the perimeter fence and the internal/division fence. It is for Supply and Installation of Fence Posts and Rails made of Hardwood Lumber with divisions. Posts are to measure 4" X 6" X 9' spacing 8feet(ft) c/c, Rails are to measure 2" X 6" X 8' spacing 14" c/c, Posts for Hinge gate are to measure 6" X 6" X 9' and to all be joined with 6" Galvanized Nails. The top of the post is to measure a minimum of 6ft from ground level and should be inserted a minimum of 3ft below ground level. Refer to Diagram.

### **Loading & Unloading Chute made of Hardwood Lumber**

This includes One Loading and One Unloading Chute and must be attached at the entrance section of the Corral. It is for the Supply and Installation of Posts measuring 4" X 4" thick hardwood, Rails measuring 2" X 6" thick hardwood with spacing 12" c/c, Decking to use 2" X 6" thick hardwood lumber. Top & Floor Joist to be fixed using 2" X 6" thick hardwood.

### **150ft in length Corralling Pen & Chute Fence made of Hardwood Lumber**

This includes Fence for the Corralling Pen & Chute, Pedestrian Gate, Cutting Gate and Locking (Slide) Gate. It is for the Supply and Installation of Posts measuring 6" X 6" X 9' spacing 6ft c/c, Upper Rails measuring 2" X 6" X 6' spacing 12" c/c, Lower Rails measuring 2" X 10" X 6', Posts for Hinge gate are to measure 6" X 6" X 9' and to be joined with 6" Galvanized Nails. Refer to Diagram

#### **Locking Gate**

Supply and install One 1.5" Galvanized Metal Pipe Gate in Chute measuring 32" W X 6' H with metal handle, latch, frame and rollers. Spacing is to be made at a minimum of 8 inches.

#### **Cutting Gate**

Supply and install One 1.5" Galvanized Metal Pipe Gate in Chute as per drawing with two heavy duty metal Hinge & Latch. Spacing is to be made at a minimum of 8 inches.

#### **Pedestrian Gate**

Supply and install Pedestrian Metal Pipe Swinging Gate 30" Wide X 6' in the chute with two heavy duty Metal Hinges & Latch. Spacing is to be made at a minimum of 8 inches.

### **12ft Gates made of Hardwood Lumber**

Supply and Install Six standard 5 bar gates. The gates are to measure 12ft long X 62" high wide swing made of 2" X 6" hardwood at 8" spacing with two heavy duty metal hinges and a latch on each. The gates are to be joined and installed using 6" galvanized nails, nut and bolts.



**A Roof Structure measuring 60 feet in length. The base of the roof must measure a minimum of 10ft from the ground level and is to be made of Pine Lumber or Hardwood & Zinc Roof.**

Roof Structure is to include but not be limited to posts, purling, beams, rafters, supports, roofing and ridging. To supply and install Posts measuring 4" X 4" thick X 12' in height at 10ft spacing, Purling to measure 1" x 4" thick, Beams and Rafters to measure 2" x 4", Supports to measure 2" X 4" thick hardwood or treated pine lumber to be joined using galvanized nails and nuts & bolts if necessary. Roofing sheets are to be R Panel unpainted with a minimum thickness of 28G. It must also include galvanized roof ridging to properly cover 60ft of roofing with eaves of a minimum of 12 inches. Roof Ridging and Roofing Sheets to be securely fastened with roofing screws.

**15ft X 15ft Storage Room, which is to be made of concrete.**

Storage room is to include Floor, Foundation, Walls and Belt Beam. Supply and construct Concrete Foundation to be made with 3/8" diameter Rebar (4"X4"), 1/4" diameter Rebar and Concrete Mix with a minimum PSI of 3500. Foundation must be a Raw Foundation with beams having a measurement of no less than 6"W X 10"H which must be attached to the floor slab. 1/4" Rebar Binder for the foundation must be a maximum of 16" apart. Walls are to be made of concrete blocks measuring 16" X 8" X 6" to have cavity fills and 3/8" rebar every 4ft center to center. Storage Room floor is to be made of concrete mix with a minimum PSI of 3500 with BRC 66 Steel Fabric to be set at the center of the concrete mixture to cover a minimum of 225 sq-ft. The concrete mix must measure no less than 3" from ground level. Belt Beam to be used at the top level where the wall meets the roof is to be constructed using Concrete Mix with a minimum of 3500 PSI, 3/8" diameter Rebar (3"X3") with 1/4" diameter Rebar (binder). Belt Beam to Measure 7"W X 8"H with Binder spacing of no more than 16". Must also supply and install a double door 1-3/4" thick made of hardwood with locks, faucet with piping on the outside and a double outlet. Outlet must be to the breaker box.

**A 10ft X 14ft House made of Wood or Aluminum outer walls, installing it on posts measuring 6" X 6", floor height at a minimum of 3ft from ground level with roof & steps**

Supply and install a 10' X 14' X 10ft High Wooden or Aluminum House. It is to include fully functioning electrical fixtures to BEL standards: 3 light fixtures, 3 switches, 3 electrical double outlets, 1 breaker box 120 amp, 1-3/4" hardwood door with locks, aluminum windows, medium duty bathroom faucet, electrical wires. House to include a roof made of galvanized roofing, roof ridging, supported with hardwood lumber securely fastened with roofing nails. House to be securely fastened with galvanized nails or screws where necessary. Supply & Install fully functioning plumbing fixtures of High Quality Standards: 1 Water Closet with 1 set shower head, 1 flush toilet, 1 ceramic sink & 2 faucets, 1 stainless steel double sink with supporting shelf and drawers along with PVC pipes, drain pipes & fittings. The house is to also include 3 Standard size aluminum storm guard windows (1 small for the bathroom and two double) and steps to the door. Supply and Install new 1/8"

thick celotex ceiling with all joint works and allow for external eaves surfaces. Location of the house is to be determined by the client.

**Concrete Floor for Corralling Pen & Chute and a Portion of the Roof Structure with a thickness of no less than 3 inches**

Supply and Install Concrete Mix with a minimum PSI of 3500 and BRC 66 Steel Fabric to cover an area of no less than 1,400 sqft. The floor is to have a thickness of no less than 3" from the ground level and the BRC 66 Steel Fabric to be at a cover of 1.5" within the Mix. The Concrete Mix of the Chute and Corralling Pen is to cover all that area from inner post to inner post. The Chute, Corralling Pen and a portion of the roof's Floor must have a rough finish. All other Concrete Mix must have a smooth finish. The Concrete Mix must be in accordance with the drawings found in the attached diagrams.

**Scale & Squeeze**

The Scale & Squeeze will be provided by the project. It is the responsibility of the contractor to install them within the Chute as shown in the attached Floor Plan Diagram. The Squeeze is to be installed at the point where it meets the Post of the Pedestrian Gate. The Scale is to be installed directly in front of the Squeeze. The Chute Fence is to be built to accommodate the Cattle Scale & Squeeze.

**Water Troughs**

Supply and Install Water Troughs, PVC pipes, valves and fittings. Water Troughs are to be for Livestock use, made of Heavy Duty Plastic, Minimum Capacity of 100 gallons and Black in color. The PVC pipes are to be ¾" & 1.5" schedule 40 which are to be connected from the water well to four water troughs. The layout of the pipes is to be determined by the client. Floating Valves are to be properly fixed on all troughs. Supply and Install a 2" electronic submersible pump to have a minimum Horsepower of 10 or equivalent.

**Additional Information:**

All items must be New and made of High Quality Material. Items that may not appear in the attached Bill of Quantities (BOQ) must be inserted. A detailed Bill of Quantities must be sent in along with proposal. Quantities of a few line items in the BOQ have been intentionally omitted and bidder must state the amount necessary to execute the job. Please refer to diagrams for measurements.

**ANNEX 2**  
**BILL OF QUANTITY**

<b>Bill of Quantities for Livestock Communal Holding Facility</b>				
<b>Item</b>	<b>Description of Works</b>	<b>Quantity</b>	<b>Unit Price</b>	<b>Total</b>
<b>1A</b>	<b>Site Clearing</b>	<b>1</b>		
	Site clearing, removal of existing trees and clearing of site after completion of works.			
<b>1</b>	<b>150ft X 120ft Perimeter Fence including divisions made of Hardwood Lumber</b>	<b>1</b>		
<b>1.1</b>	<b>Perimeter/Internal Fence</b>			
<b>1.2</b>	Posts measuring 4" X 6" X 9' spacing 8ft c/c			
<b>1.3</b>	Rails measuring 2" X 6" X 8' spacing 12" c/c			
<b>1.4</b>	Posts measuring 6" X 6" X 9' for hinge gate			
<b>1.5</b>	Galvanized 6" Nails			
<b>2</b>	<b>One Loading &amp; One Unloading Chute made of Hardwood Lumber</b>	<b>2</b>		
<b>2.1</b>	Posts measuring 4" X 4"			
<b>2.2</b>	Rails measuring 2" X 6" spacing 12" c/c			
<b>2.3</b>	Decking measuring 2" X 6"			
<b>2.4</b>	Top & Floor Joist 2" X 6" (fixed)			
<b>2.5</b>	Galvanized 6" Nails			
<b>3</b>	<b>150ft in length Corraling Pen &amp; Chute Fence made of Hardwood Lumber</b>	<b>1</b>		
<b>3.1</b>	Posts measuring 6" X 6" X 9' spacing 6ft c/c			
<b>3.2</b>	Upper Rails measuring 2" X 6" X 6' spacing 12" c/c			
<b>3.3</b>	Lower Rails measuring 2" X 10" X 6'			
<b>3.4</b>	Posts for Hinge gate 6" X 6" X 9'			
<b>3.5</b>	Galvanized 6" Nails			
<b>3.1A</b>	<b>Locking Gate</b>	<b>1</b>		
	Provide 1.5" Galvanized Metal Pipe Gate in Chute. 32" W X 6' H with 8" spacing in rails metal handle, frame and rollers.			
<b>3.2A</b>	<b>Cutting Gate</b>	<b>2</b>		
	Provide 1.5" Galvanized Metal Pipe Gate with 8" spacing in rails in Chute as per drawing with two heavy duty metal Hinge & Latch			
<b>3.3A</b>	<b>Pedestrian Gate</b>	<b>1</b>		
	Provide Pedestrian Metal Pipe Swinging Gate 30" Wide X 6' in the chute with 8" spacing in rails & two heavy duty Metal Hinges & Latch			
<b>4</b>	<b>12ft Gates made of Hardwood Lumber</b>			

	Provide 12ft Long X 62" High Wide Swing Gate made of 2'X6" hardwood at 8" spacing with two heavy duty Metal Hinges and Latch(Standard 5 Bar Gate)	6		
4.1	2" X 6" X 10'			
4.2	2 x 6 x 14'			
4.3	2 x 6 x 12'			
4.4	Heavy duty Metal Hinge			
4.5	Nut & Bolt			
4.6	Galvanized Nail			
	<b>A Roof Structure measuring 60 feet in length. The base of the roof must measure a minimum of 10ft from the ground level and is to be made of Treated Pine Lumber or 5 Hardwood &amp; Zinc Roof.</b>	1		
5.1	Posts measuring 4" X 4" X 12' at 10ft spacing			
5.2	Purlin 1" x 4"			
5.3	Beams 2" x 4"			
5.4	Rafters 2" x 4"			
5.5	Roof Sheeting 28G R Panel Unpainted			
5.6	Roof Ridging			
5.7	Roofing Screws			
	<b>15ft X 15ft X 10ft in height Storage Room, which is to be made of concrete.</b>	1		
6.1	<b>Foundation/Floor</b>			
6.1.1	3/8 diameter Rebar			
6.1.2	1/4 diameter Rebar			
6.1.3	BRC 66 steel fabric			
6.1.4	Concrete Mix 3,500 PSI			
6.2	<b>Wall/Belt Beam</b>			
6.2.1	6" Concrete Blocks			
6.2.2	3/8 diameter Rebar			
6.2.3	1/4" diameter Rebar			
6.2.4	Mortar Mix	1		
6.2.5	Concrete Mix 3,500 PSI Cavity Fill/Beam	1		
6.2.6	Double Door Complete 1-3/4" Wood	1		
6.2.7	Faucet (Installed)	1		
6.2.8	Double Outlet	1		

	<b>A 10ft X 14ft House made of Wood or Aluminum outer walls, installing it on posts measuring 6" X 6", floor height at a minimum of 3ft from ground level with roof &amp; steps</b>			
7				
7.1	Supply & Install Light Fixture and switch	3		
7.2	Supply & Install electric outlets (Double)	3		
7.3	breaker box 120amp Complete	1		
7.4	Bathroom Complete	1		
7.5	Kitchenette Complete	1		
7.6	Windows	3		
7.7	Door with locks	1		
7.8	Ceiling	1		
8	<b>Concrete Floor for Corralling Pen &amp; Chute, Storage Room and a Portion of the Roof Structure with a thickness of no less than 3 inches</b>	1		
8.1	Concrete Mix 3,500 PSI (min of 1,400sqft)			
8.2	BRC 66 Steel Fabric @ 1.5" cover (min of 1,400sqft)			
8.1A	<b>Scale &amp; Squeeze</b>	1		
	Installation of Scale & Squeeze			
8.2A	<b>Water Troughs</b>			
	Supply & Install 4 Water Troughs,	4		
	¾ " schedule 40 PVC water pipe,	300ft		
	1.5" Schedule 40 PVC water pipe,	500ft		
	Floating Valves &	4		
	Submersible Pump	1		
9	<b>Miscellaneous Items</b>			
	Form Board			
	Nails			
	Tying Wire			
	Pipe Fittings			
	Other			
	<b>TOTAL</b>			
<b>Total in words:</b>				

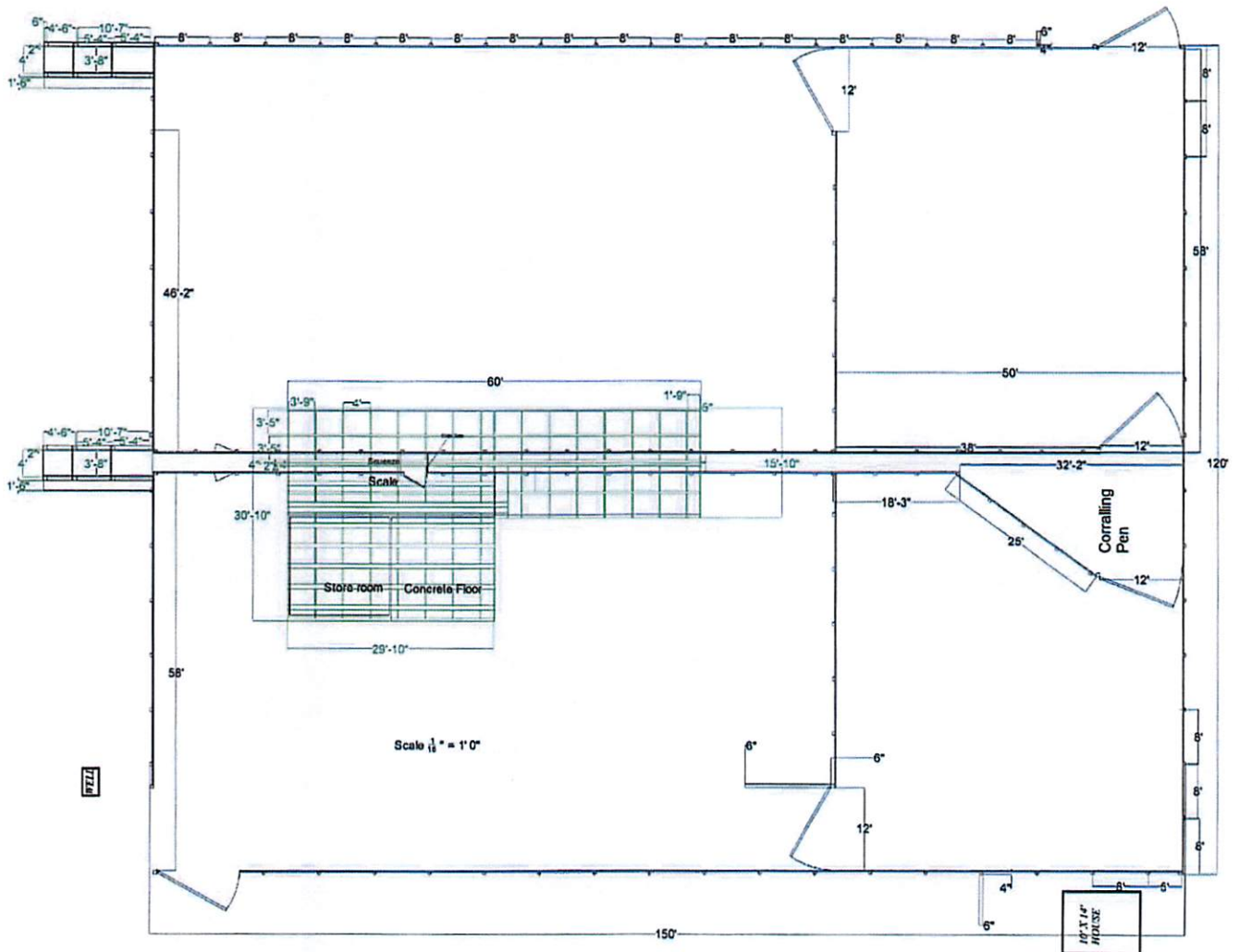
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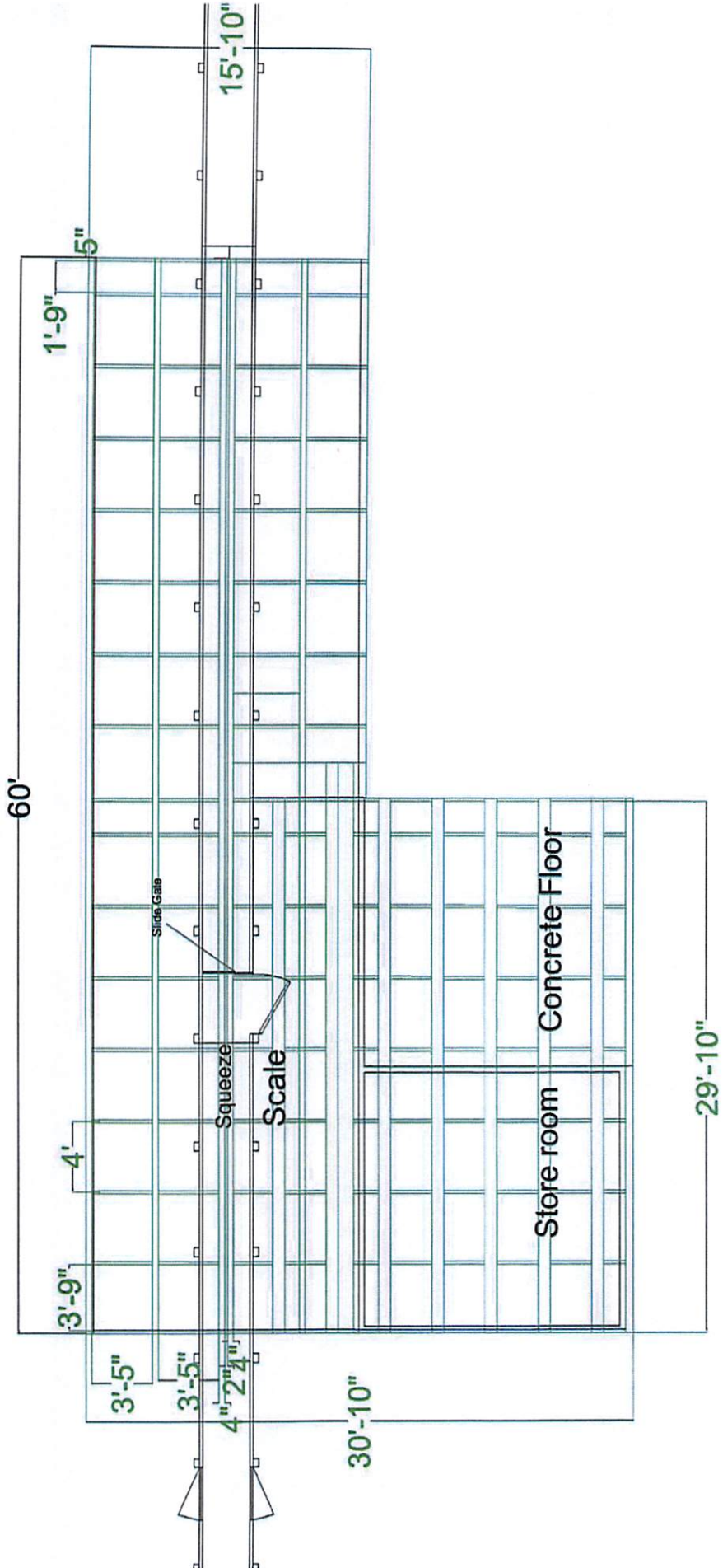
## **ANNEX 3**

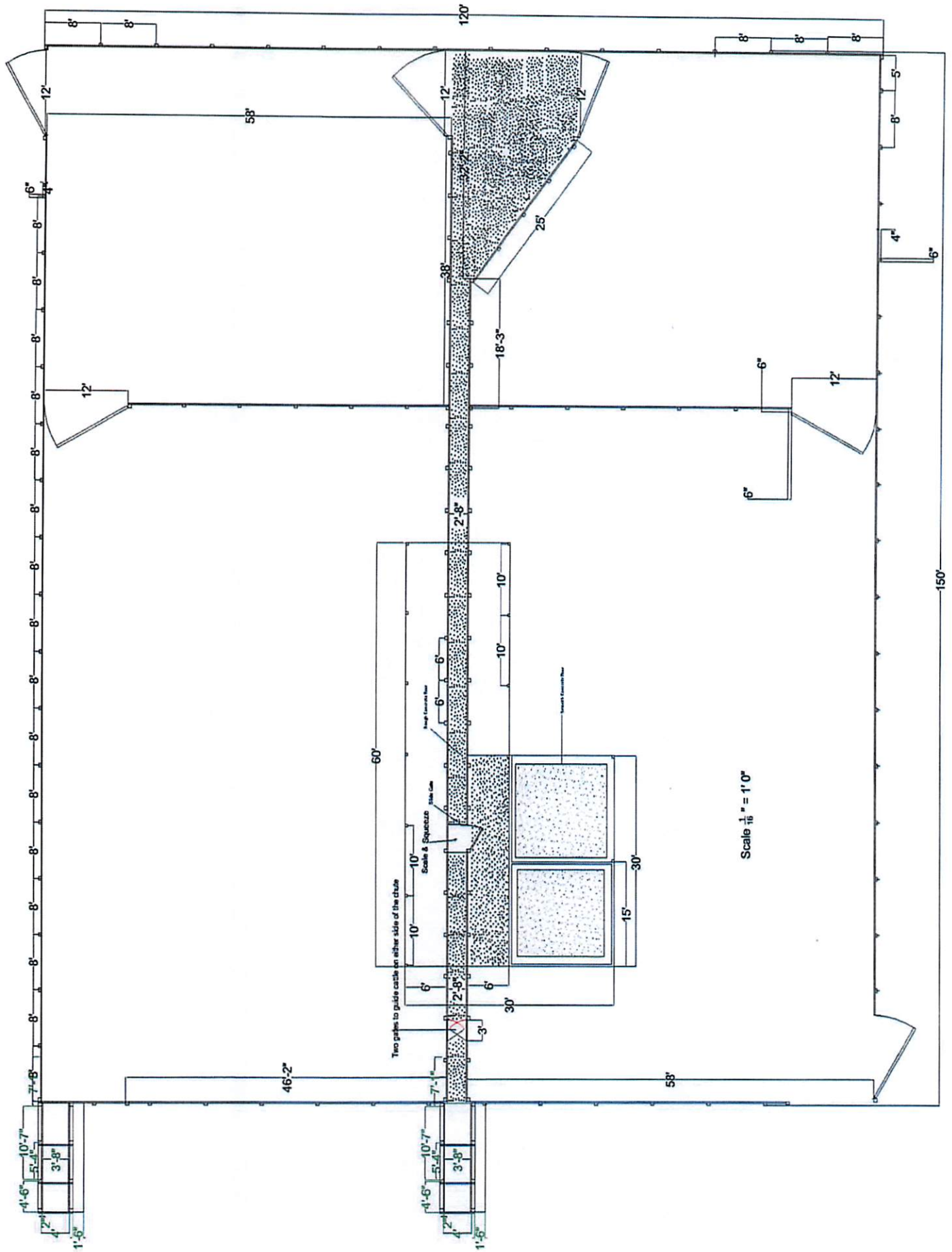
# **DESIGN OF HOLDING PEN LIVESTOCK FACILITY**











150'

120'

60'

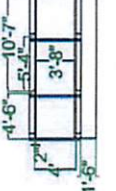
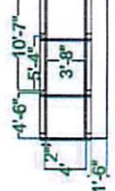
Two gables to guide cattle on either side of the chute

Scale & Squatzer

Hand Concrete Box

Hand Concrete Box

Scale & Squatzer



6"

12'

7'-8"

10'-7"

4'-6"

1'-5"

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46'-2"

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10'-7"

4'-6"

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10'-7"

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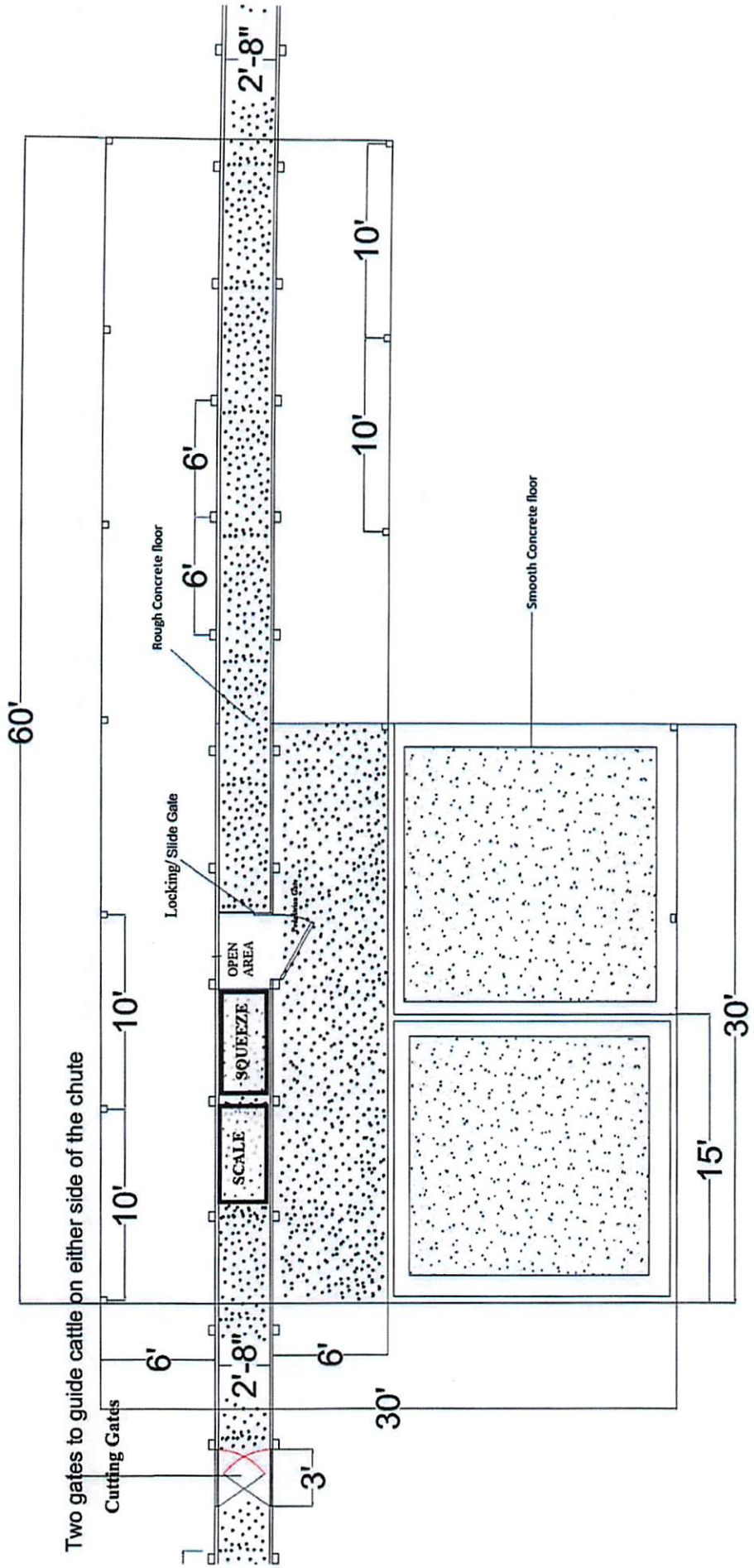
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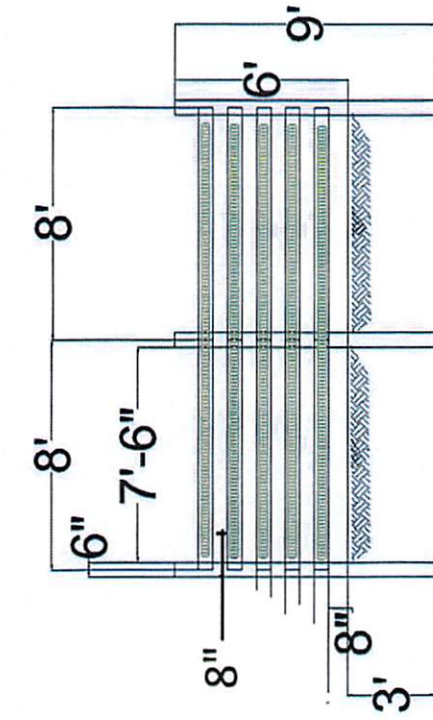
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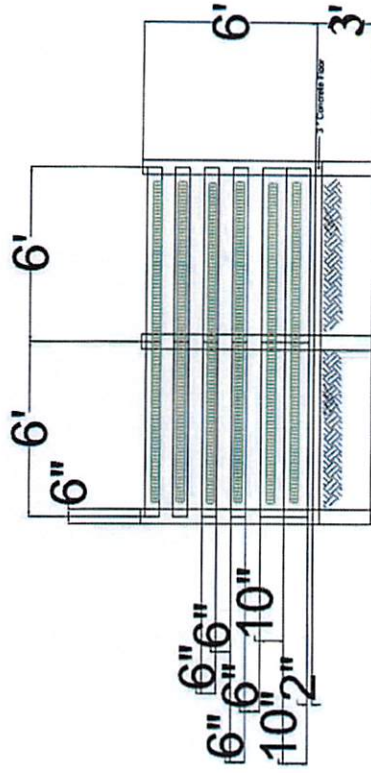
# FLOOR PLAN

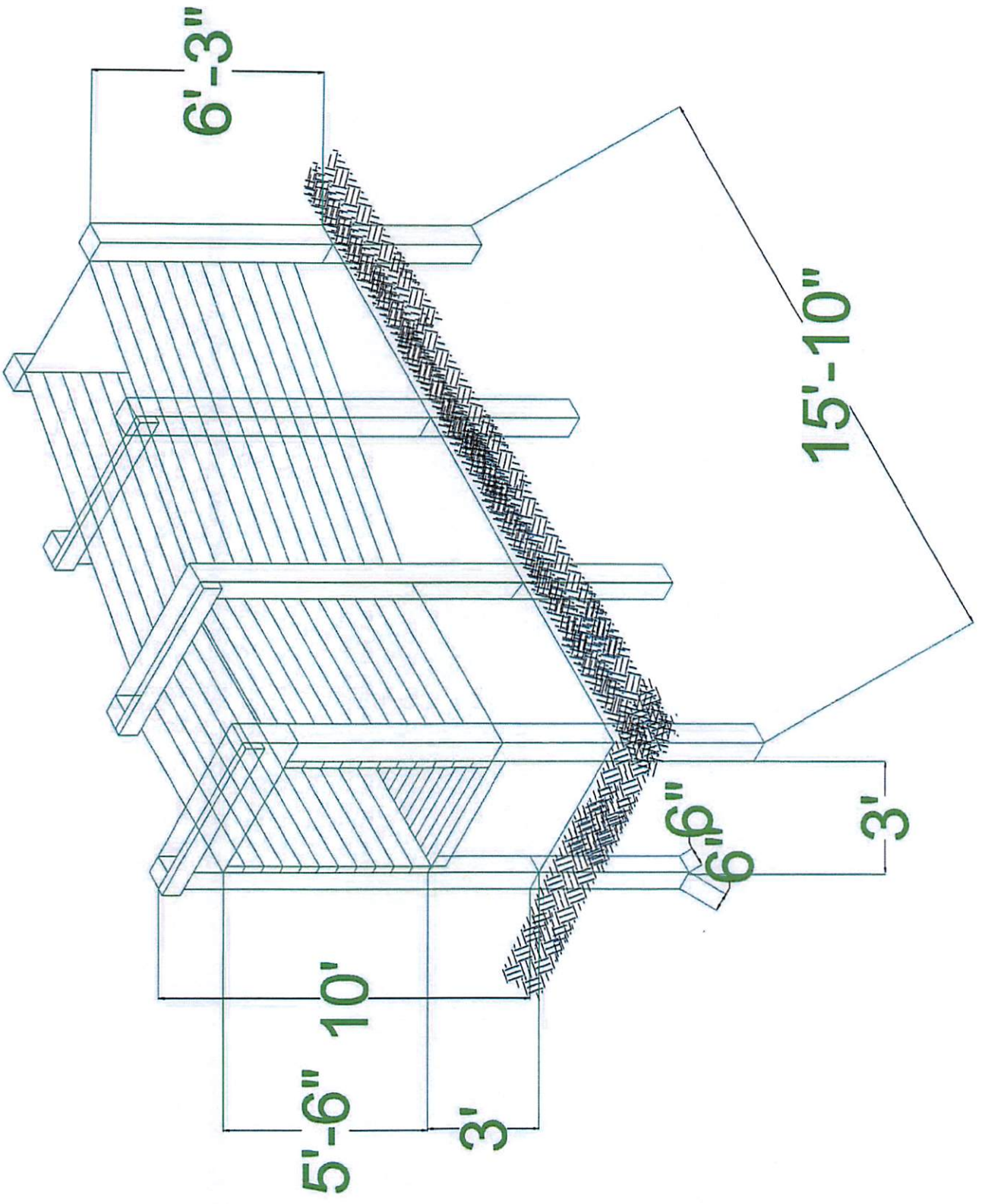


Perimeter Fence  
&  
Internal Fence

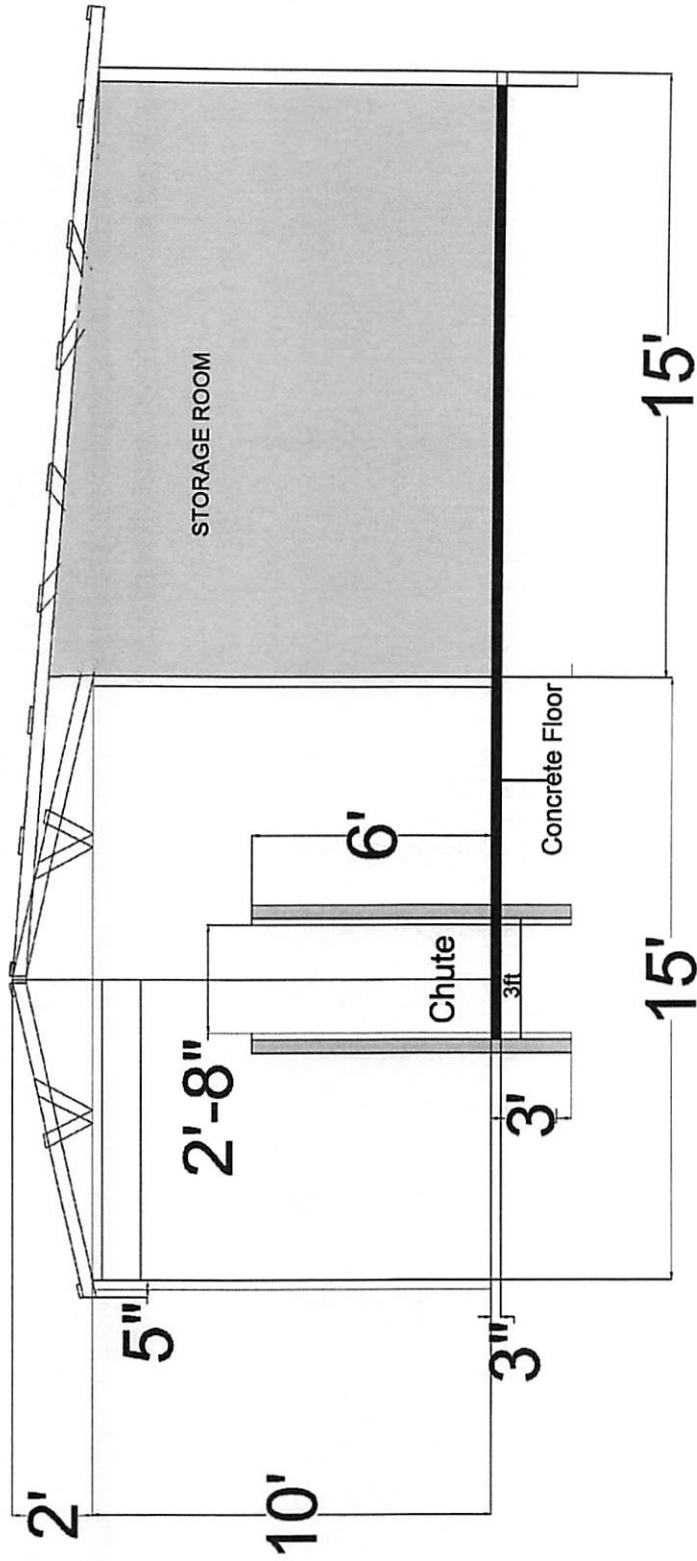


Chute Fence





FRONT VIEW OF CORRAL & ROOF STRUCTURE



Cross section A

**ANNEX 4**

**IMAGES OF SITE**





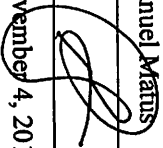


**ANNEX 3:  
ADMINISTRATIVE COMPLIANCE  
GRID**

### ADMINISTRATIVE COMPLIANCE GRID

<b>Project title :</b>	“Enhancing Belize’s resilience to adapt to the effects of Climate Change”	<b>Project Number :</b>	00083646
------------------------	---	-------------------------	----------


Applicant envelope number	Applicant's name	Met Deadline (Yes/No)	Letter of Interest received (Yes/No)	Curriculum Vitae (Yes/No)	Credit Facility from Financial Institution or Hardware (Yes/No)	Bill of Quantity included (Yes/No)	Delivery Date included (Yes/No)	Shortlisted (Yes/No)	Comments
1	HD CONSTRUCTION	Y	Y	Y	Y	Y	Y	Y	
2	IRAH CONSTRUCTION	Y	Y	Y	Y	Y	Y	Y	

<b>Chairperson's name</b>	Manuel Matius
<b>Chairperson's signature</b>	
<b>Date</b>	November 4, 2014

**ANNEX 4:  
INDIVIDUAL SCORE SHEETS  
(EVALUATION GRID)**


## EVALUATION GRID

Contract title:		Construction of a Communal Livestock Holding Facility							
Tender envelope N°	Tenderer's name	Experience in Construction? (Y/N)	Credit Facility of \$30,000? (Y/N)	Bid for all Items? (Y?N)	Within Delivery Period? (Y/N)	Compliance with Technical Specifications? (Y/N)	Other technical requirements in tender dossier? (Yes/No/NA)	Technical compliance? (Yes/No)	Observations
1	HD Construction	Yes	Yes	Yes	Yes	Yes	NA	Yes.	high prices & inconsistency in the prices of live items.
2	IRAH Construction	Yes	Yes	Yes	Yes	Yes	NA	Yes	Clarification on the prices of some items.
Recommendation		I recommend IRAH construction to be awarded contract, if Budget permissible. Clarification of item required with contract negotiation after budget is clarified.							

Evaluator's name	Carlos A. Itza
Evaluator's signature	
Date	Nov. 4 <sup>th</sup> 2014.


# EVALUATION GRID

Contract title:		Construction of a Communal Livestock Holding Facility								
	Tenderer's name	Tender envelope N°	Experience in Construction? (Y/N)	Credit Facility of \$30,000? (Y/N)	Bid for all Items? (Y?N)	Within Delivery Period? (Y/N)	Compliance with Technical Specifications? (Y/N)	Other technical requirements in tender dossier? (Yes/No/NA)	Technical compliance? (Yes/No)	Observations
1	HD Construction		Yes	Yes	Yes	Yes	Yes	N/A	Yes	\$129,642.60 Some prices seem high and inconsistent
2	<del>HD</del> Construction Iraq		Yes	Yes	Yes	Yes	Yes	N/A	Yes	\$113,064.00 Seems in order
Recommendation		Recommend that Iraq Construction be awarded tender								

Evaluator's name	Allister Macpherson
Evaluator's signature	
Date	14/10/14

## EVALUATION GRID

Contract title:		Construction of a Communal Livestock Holding Facility								
Tender envelope N°	Tenderer's name	Experience in Construction? (Y/N)	Credit Facility of \$30,000? (Y/N)	Bid for all Items? (Y?N)	Within Delivery Period? (Y/N)	Compliance with Technical Specifications? (Y/N)	Other technical requirements in tender dossier? (Yes/No/NA)	Technical compliance? (Yes/No)	Observations	
1	HD Construction	yes	yes	yes	yes	yes	yes N/A	<del>yes</del> N/A	Prices are too high	
2	Trach Construction	yes	yes	yes	yes	yes	N/A		Prices are more in line with the market Recommended as my contractor of choice	
Recommendation										

Evaluator's name	A. Abraham Gonzales
Evaluator's signature	
Date	4 <sup>th</sup> November 2014



# **ANNEX 5: ATTENDANCE SHEETS**





# **ANNEX 6: SUPPORTING DOCUMENTS**

**HD Construction**  
**14 Baldy Beacon St, Belmopan, Belize**  
**Tel. Nos: 822 2549, 610 1383 Email: [cubat2010@hotmail.com](mailto:cubat2010@hotmail.com)**

Project Manager  
Project Execution Unit Office  
Agriculture Show Grounds  
Belmopan, Cayo District  
Belize

31<sup>st</sup> October, 2014

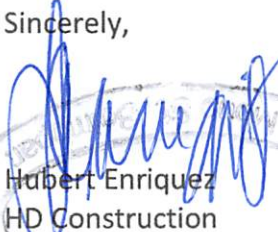
Sir/Madam;

**Letter of Interest/Offer**

Having read the tender documents and examined the Bills of Quantities for the construction of the Communal Livestock Holding Facility in Willows Bank, and considered the clarifications submitted by the Project Execution Unit dated 31<sup>st</sup> October, 2014, I hereby offer to construct the said facility for the sum of **One Hundred Twenty Nine Thousand Six Hundred and Forty Two Dollars and Sixty Cents ( \$ 129642.60 BZE).**

The facility shall be constructed within a period of seven weeks from the date of signature of contract.

Sincerely,

  
Hubert Enriquez  
HD Construction

*(Faint circular stamp of HD Construction is visible behind the signature)*

**HD Construction**  
**14 Baldy Beacon St, Belmopan, Belize**  
**Tel. Nos: 822 2549, 610 1383 Email: [cubat2010@hotmail.com](mailto:cubat2010@hotmail.com)**

**CURRICULUM VITAE**

**STAFF**

Managing Director/Owner: Hubert Enriquez  
Construction Economist  
University of Salford, UK

Project Supervisor: Isani Enriquez  
Construction Engineer  
University of Technology, Jamaica

Consulting Architect: LAR Architect  
Luis Alberto Ruiz  
Floriana Ave, Belmopan

Site Foreman: Dimas Zapeta  
San Martin  
Belmopan

**FIELD OF EXPERTISE**

HD Construction has over 25 years of experience in the Building and Civil Engineering field and has undertaken a variety of design and build residential construction projects in all areas of the country, construction of school buildings, municipal market and water towers.

HD Construction also undertakes construction design work and supervision

<b>Recent Construction Projects Undertaken</b>	<b>Value</b>	<b>Date of Completion</b>
Residence for Mr Peter Avila Bachelors Ave, Belize City	\$452500.00	July, 2014
Residence for Alberita Martinez Moho St., Belmopan	\$ 317317.00	Ongoing
Residence for Mr Rudy Garbutt Dangriga Town	\$215000.00	January, 2014

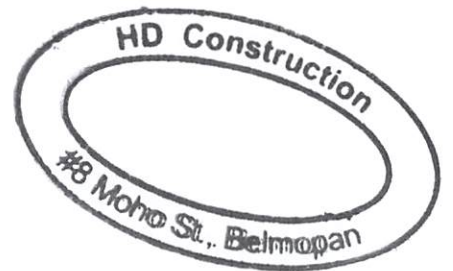


**Bankers:** Scotia Bank of Belize  
Constitution Drive  
Belmopan

Belize Bank  
Constitution Drive  
Belmopan

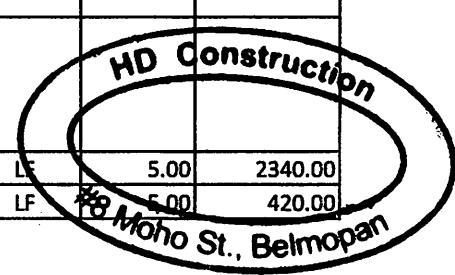
References: Mr. Luis Alberto Ruiz  
Architect  
Floriana Ave, Belmopan, Tel 822 3532

Mr. Alberto Rosado  
Structural Engineer  
28 Sapodilla St, Belmopan, Tel 822 0682



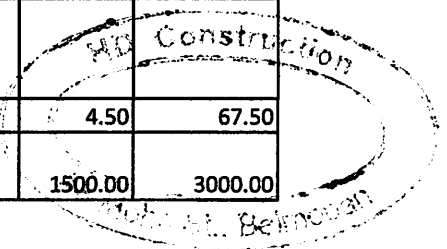
**Bill of Quantities for Livestock Communal Holding Facility**

Item	Description of Works	Quantity	Unit	Unit Price	Total
<b>1A</b>	<b>Site Clearing</b>	#####			
	Site clearing, removal of existing trees and clearing of site after completion of works. <b>Work shed and bench, temporary storage facilities, Insurance for workmen, transportation and accomodation</b>				9000.00
<b>1</b>	<b>150ft X 120ft Perimeter Fence including divisions made of Hardwood Lumber</b>	1			
<b>1.1</b>	<b>Perimeter/Internal Fence</b>				
<b>1.2</b>	Posts measuring 4" X 6" X 9' spacing 8ft c/c	780	LF	10.00	7800.00
<b>1.3</b>	Rails measuring 2" X 6" X 8' spacing 12" c/c	3180	LF	5.00	15900.00
<b>1.4</b>	Posts measuring 6" X 6" X 9' for hinge gate	100	LF	15.00	1500.00
<b>1.5</b>	Galvanized 6" Nails				500.00
<b>2</b>	<b>One Loading &amp; One Unloading Chute made of Hardwood Lumber</b>	2			
<b>2.1</b>	Posts measuring 4" X 4"	192	LF	6.50	1248.00
<b>2.2</b>	Rails measuring 2" X 6" spacing 12" c/c	320	LF	5.00	1600.00
<b>2.3</b>	Decking measuring 2" X 6"	64	LF	5.00	320.00
<b>2.4</b>	Top & Floor Joist 2" X 6" (fixed)	192	LF	5.00	960.00
<b>2.5</b>	Bolts, nuts and washers				500.00
<b>3</b>	<b>150ft in length Corralling Pen &amp; Chute Fence made of Hardwood Lumber</b>	1			
<b>3.1</b>	Posts measuring 6" X 6" X 9' spacing 6ft c/c	400	LF	15.00	6000.00
<b>3.2</b>	Upper Rails measuring 2" X 6" X 6' spacing 12" c/c	1072	LF	5.00	5360.00
<b>3.3</b>	Lower Rails measuring 2" X 10" X 6'	546	LF	11.00	6006.00
<b>3.4</b>	Posts for Hinge gate 6" X 6" X 9'	110	LF	15.00	1650.00
<b>3.5</b>	Bolts, nuts and washers				1000.00
<b>3.1A</b>	<b>Locking Gate</b>				
	Provide 1.5" Galvanized Metal Pipe Gate in Chute. 32" W X 6' H with 8" spacing in rails metal handle, frame and rollers.	1	Nr	1000.00	1000.00
<b>3.2A</b>	<b>Cutting Gate</b>				
	Provide 1.5" Galvanized Metal Pipe Gate with 8" spacing in rails in Chute as per drawing with two heavy duty metal Hinge & Latch	2	Nr	1000.00	2000.00
<b>3.3A</b>	<b>Pedestrian Gate</b>				
	Provide Pedestrian Metal Pipe Swinging Gate 30" Wide X 6' in the chute with 8" spacing in rails & two heavy duty Metal Hinges & Latch	1	Nr	1000.00	1000.00
<b>4</b>	<b>12ft Gates made of Hardwood Lumber</b>				
	Provide 12ft Long X 62" High Wide Swing Gate made of 2"X6" hardwood at 8" spacing with two heavy duty Metal Hinges and Latch(Standard 5 Bar Gate)	6			
<b>4.1</b>	2" X 6" X 10'	468	LF	5.00	2340.00
<b>4.2</b>	2 x 6 x 14'	84	LF	5.00	420.00





4.3	2 x 6 x 12'	144	LF	5.00	720.00
4.4	Heavy duty Metal Hinge	6	Prs	200.00	1200.00
4.5	Nut & Bolt				250.00
4.6	Bolts, nuts and washers				250.00
5	<b>A Roof Structure measuring 60 feet in length. The base of the roof must measure a minimum of 10ft from the ground level and is to be made of Treated Pine Lumber or Hardwood &amp; Zinc Roof.</b>	1			
5.1	Posts measuring 4" X 4" X 12' at 10ft spacing	132	LF	7.00	924.00
5.2	Purlin 1" x 4"	1300	LF	2.00	2600.00
5.3	Beams 2" x 4"	120	LF	4.00	480.00
5.4	Rafters 2" x 4"	1108	LF	4.00	4432.00
5.5	Roof Sheeting 28G R Panel Unpainted	864	LF	8.40	7257.60
5.6	Roof Ridging	60	LF	7.50	450.00
5.7	Roofing Screws				300.00
6	<b>15ft X 15ft X 10ft in height Storage Room, which is to be made of concrete.</b>	1			
6.1	<b>Foundation/Floor</b>				
6.1.1	3/8 diameter Rebar	10	Lgth	45.00	450.00
6.1.2	1/4 diameter Rebar	7	Lgth	10.00	70.00
6.1.3	BRC 66 steel fabric	225	SF	2.50	562.50
6.1.4	Concrete Mix 3,500 PSI	5	CY	40.00	200.00
6.2	<b>Wall/Belt Beam</b>				
6.2.1	6" Concrete Blocks	800	Nr	6.00	4800.00
6.2.2	3/8 diameter Rebar	6	Lgth	45.00	270.00
6.2.3	1/4" diameter Rebar	8	Lgth	10.00	80.00
6.2.4	Mortar Mix	1			
6.2.5	Concrete Mix 3,500 PSI Cavity Fill/Beam	2.5	CY	500.00	1250.00
6.2.6	Double Door Complete 1-3/4" Wood	1	Nr	850.00	850.00
6.2.7	Faucet (Installed)	1	Nr	75.00	75.00
6.2.8	Double Outlet	1	Nr	150.00	150.00
7	<b>A 10ft X 14ft House made of Wood or Aluminum outer walls, installing it on posts measuring 6" X 6", floor height at a minimum of 3ft from ground level with roof &amp; steps</b>				10000.00
7.1	Supply & Install Light Fixture and switch	3	Nr	175.00	525.00
7.2	Supply & Install electric outlets (Double)	3	Nr	175.00	525.00
7.3	breaker box 120amp Complete	1	Nr	650.00	650.00
7.4	Bathroom Complete	1	Nr	3500.00	3500.00
7.5	Kitchenette Complete	1	Nr	3500.00	3500.00
7.6	Windows	3	Nr	450.00	1350.00
7.7	Door with locks	1	Nr	850.00	850.00
7.8	Ceiling	5	Shts	80.00	400.00
8	<b>Concrete Floor for Corraling Pen &amp; Chute, Storage Room and a Portion of the Roof Structure with a thickness of no less than 3 inches</b>	1			
8.1	Concrete Mix 3,500 PSI (min of 1,400sqft)	15	CY	4.50	67.50
8.2	BRC 66 Steel Fabric @ 1.5" cover (min of 1,400sqft)	2	Rlls	1500.00	3000.00



8.1A	<b>Scale &amp; Squeeze</b>	1			
	Installation of Scale & Squeeze				75.00
8.2A	<b>Water Troughs</b>				
	Supply & Install 4 Water Troughs,	4	Nr	400.00	1600.00
	¾ " schedule 40 PVC water pipe,	300	LF	3.00	900.00
	1.5" Schedule 40 PVC water pipe,	500	LF	4.50	2250.00
	Floating Valves &	4	Nr	150.00	600.00
	Submersible Pump	1	Nr	4500.00	4500.00
9	<b>Miscellaneous Items</b>				
	Form Board				750.00
	Bolts, nuts and washers				0.00
	Tying Wire				300.00
	Pipe Fittings				575.00
	Other				0.00
	<b>TOTAL</b>				129642.60

**Total in words: One Hundred Twenty Nine Thousand Six Hundred Forty Two dollars and Sixty Cents**

SIGNATURE

Hubert Enriquez  
For HD Construction

3st October, 2014





160 Constitution Drive  
PO Box 427  
Belmopan, Cayo  
Belize, Central America

Tel: (501) 822-1071  
(501) 822-0501  
Fax: (501) 822-1458  
Email: [info@buildershardwarebelize.com](mailto:info@buildershardwarebelize.com)

30<sup>th</sup> October 2014

**Project Execution Unit  
Ministry of Agriculture  
National Agriculture Showgrounds  
Belmopan**

Dear Sirs:


**Re. Hubert Enriquez/HD Construction**

We are pleased to confirm the revolving credit facilities that our company is extending to Mr. Hubert Enriquez in the amount of Bz \$30,000.00.

We have had an excellent business relationship with Mr. Enriquez over the years and advise that he has always paid his bills timely.

We look forward to continue working with Mr. Hubert Enriquez.

Sincerely  
For an on behalf of  
**Builders' Hardware Limited**

  
**Eric V. Waight**

CERTIFICATE NO: 6268  
THE GENERAL REGISTRY  
BELIZE CITY  
BELIZE

THE BUSINESS NAMES ACT  
CHAPTER 204 OF THE LAWS

CERTIFICATE OF REGISTRATION

# HD CONSTRUCTION

**I HEREBY CERTIFY THAT** a statement furnished by **HUBERT DENNIS ENRIQUEZ** of #8  
**Moho Street, Belmopan City, Cayo District, BELIZE** pursuant to Section 5 (1) of the above-  
mentioned Act was registered on the 13th day of March, 2001.

**G I V E N** under my hand and the seal of the General Registry, Belize City, Belize this 13th day  
of March, 2001.

  
**E. O. PENNIL**  
**DEPUTY REGISTRAR GENERAL**



IRAH Construction Limited  
19 Montalvo Street  
Las Flores, Belmopan  
Belize C.A  
Phone:501-610-1002  
E-mail:  
[manuel.iraheta@yahoo.com](mailto:manuel.iraheta@yahoo.com)

## CONTRACTOR'S BID

3<sup>RD</sup> November, 2014

To:

**Project Execution Unit**

**Ministry of Agriculture**

**National Agriculture Showgrounds**

**Belmopan**

We offer to execute the **Construction of Communal Livestock Holding Facility** in accordance with the conditions of the contract accompanying this bid for the contract price of **one hundred and thirteen thousand, sixty four dollars (BZ \$113, 064.00)** which is to be completed **within a seven week period.**

The advance payment required is **Twenty Percent (20%)** of the actual bid price.

This bid and your written acceptance of it shall continue a binding contract between us. We understand that you are not bound to accept the lowest or any bid you receive.

We hereby confirm that this bid complies with the validity required by the bidding documents and specified in the bidding data.

Authorized Signature:  \_\_\_\_\_

Name and Title of Signatory: Manuel Iraheta, Shareholder & Managing Director

Name of Bidder: IRAH Construction Limited

Address: 19 Montalvo Street, Las Flores, Belmopan City, Belize C.A

## MANUEL IRAHETA

19 Montalvo Street . Las Flores . Belmopan City . Belize C.A. . 501-610-1002 . [manuel.iraheta@yahoo.com](mailto:manuel.iraheta@yahoo.com)

Offering land clearing, land filling, general landscaping, sheet rock work, wall texturing and professional estimates

### HIGHLIGHTS OF QUALIFICATIONS

- Familiarity with construction industry in a Building Contractor capacity.
- Knowledge of inspections, floor plans, subcontractor sourcing/hiring, contract negotiations/development, and materials / supply procurement.
- Proven ability to read and interpret blueprints
- Hard-working professional skilled at cross-functional collaboration
- Reputation for superior problem solving and customer relationship management skills
- Prime contractor of works of a similar nature and volume

### CONSTRUCTION INDUSTRY EXPERIENCE

Building Contractor, IRAH CONSTRUCTION LIMITED, 19 Montalvo Street, Las Flores, Belmopan City

Built three residential homes and two business buildings, from scratch to completion and successfully completed these works with professionalism. Recruited and managed personnel for masonry, electrical, plumbing, carpentry, insulation, drywall / sheetrock and painting. Worked with financial institutions to secure financing.

### RESIDENTIAL AND BUSINESS PROJECT HIGHLIGHTS

PROPERTY #1: Florence Phillips, one bungalow concrete dwelling house. Built on budget of \$125, 000.00. Self-financed 50% and owner 50%.

PROPERTY #2: Shirley Middleton, bungalow concrete dwelling house. Built on budget of \$40, 000.00. Self-financed 50% and owner 50%

PROPERTY #3: Belize Coast Guard, construction of concrete building. Built on budget of \$2, 300, 000.00. Self-financed 50% and owner 50%

PROPERTY #4: Matthew Hulse, two storey concrete apartment building. Supervision of construction of building, Special arrangements with owner

PROPERTY #5: Matthew Hulse, 8 Storey concrete mansion. Supervision for construction of building, special arrangements with owner.

- Consistently achieved on-time project completion through effective planning and organization.
- Devised and executed marketing and tactics to fit demographical region.

Bill of Quantities for Livestock Communal Holding Facility				
Item	Description of Works	Quantity	Unit Price	Total
1A	<b>Site Clearing</b>	1		
	Site clearing, removal of existing trees and clearing of site after completion of works.			1,200
1	<b>150ft X 120ft Perimeter Fence including divisions made of Hardwood Lumber</b>	1		
1.1	<b>Perimeter/Internal Fence</b>			
1.2	Posts measuring 4" X 6" X 9' spacing 8ft c/c	80	50	4000
1.3	Rails measuring 2" X 6" X 8' spacing 12" c/c	375	20	7500
1.4	Posts measuring 6" X 6" X 9' for hinge gate	10	75	750
1.5	Galvanized 6" Nails			800
			Total	13,050
2	<b>One Loading &amp; One Unloading Chute made of Hardwood Lumber</b>	2		
2.1	Posts measuring 4" X 4" X 1 1/2'	16	54	864
2.2	Rails measuring 2" X 6" spacing 12" c/c	50	20	1000
2.3	Decking measuring 2" X 6"	18	20	360
2.4	Top & Floor Joist 2" X 6" (fixed)	14	20	300
2.5	Galvanized 6" Nails			250
			Total	2774
3	<b>150ft in length Corraling Pen &amp; Chute Fence made of Hardwood Lumber</b>	1		
3.1	Posts measuring 6" X 6" X 9' spacing 6ft c/c	52	75	3900
3.2	Upper Rails measuring 2" X 6" X 6' spacing 12" c/c	300	15	4500
3.3	Lower Rails measuring 2" X 10" X 6'	86	25	2150
3.4	Posts for Hinge gate 6" X 6" X 9'	6	75	450
3.5	Galvanized 6" Nails			600
3.1A	<b>Locking Gate</b>	1	Total	11,600
	Provide 1.5" Galvanized Metal Pipe Gate in Chute. 32" W X 6' H with 8" spacing in rails metal handle, frame and rollers.			600
3.2A	<b>Cutting Gate</b>	2		
	Provide 1.5" Galvanized Metal Pipe Gate with 8" spacing in rails in Chute as per drawing with two heavy duty metal Hinge & Latch			575
3.3A	<b>Pedestrian Gate</b>	1		
	Provide Pedestrian Metal Pipe Swinging Gate 30" Wide X 6' in the chute with 8" spacing in rails & two heavy duty Metal Hinges & Latch			550
4	<b>12ft Gates made of Hardwood Lumber</b>			

	Provide 12ft Long X 62" High Wide Swing Gate made of 2'X6" hardwood at 8" spacing with two heavy duty Metal Hinges and Latch(Standard 5 Bar Gate)			
			6	
4.1	2" X 6" X 10'	24	25	600
4.2	2 x 6 x 14'	24	33	792
4.3	2 x 6 x 12'	48	30	1440
4.4	Heavy duty Metal Hinge			120
4.5	Nut & Bolt			240
4.6	Galvanized Nail			120
			total	3552
5	A Roof Structure measuring 60 feet in length. The base of the roof must measure a minimum of 10ft from the ground level and is to be made of Treated Pine Lumber or Hardwood & Zinc Roof.		1	
5.1	Posts measuring 4" X 4" X 12' at 10ft spacing	14	40	560
5.2	Purlin 1" x 4" X 10'	66	850	561
5.3	Beams 2" x 4" X 10'	16	16.60	265.60
5.4	Rafters 2" x 4" X 16'	30	26.65	799.50
5.5	Roof Sheeting 28G R Panel Unpainted	2000'f	6	12,000
5.6	Roof Ridging	9	35	315
5.7	Roofing Screws	20.16	16	320
				14,821
6	15ft X 15ft X 10ft in height Storage Room, which is to be made of concrete.		1	
6.1	<b>Foundation/Floor</b>			
6.1.1	3/8 diameter Rebar	16	24	384
6.1.2	1/4 diameter Rebar	18	6	108
6.1.3	BRC 66 steel fabric	50'f	6	300
6.1.4	Concrete Mix 3,500 PSI	4 Yd.	190	760
6.2	<b>Wall/Belt Beam</b>			
6.2.1	6" Concrete Blocks	700	1.60	1,120
6.2.2	3/8 diameter Rebar	18	24	432
6.2.3	1/4" diameter Rebar	16	6	96
6.2.4	Mortar Mix	3.yd.	1	190
6.2.5	Concrete Mix 3,500 PSI Cavity Fill/Beam	3.yd	1	190
6.2.6	Double Door Complete 1-3/4" Wood		1	900
6.2.7	Faucet (Installed)		1	150
6.2.8	Double Outlet		1	300
			total	5,690



	A 10ft X 14ft House made of Wood or Aluminum outer walls, installing it on posts measuring 6" X 6", floor height at a minimum of 3ft from ground level with roof & steps			
7.1	Supply & Install Light Fixture and switch	3		
7.2	Supply & Install electric outlets (Double)	3		
7.3	breaker box 120amp Complete	1		
7.4	Bathroom Complete	1		
7.5	Kitchenette Complete	1		
7.6	windows	3		
7.7	Door with locks	1		
7.8	Ceiling	1		
	<i>10x14 House complet</i>		<i>total</i>	<i>14,500</i>
8	Concrete Floor for Corraling Pen & Chute, Storage Room and a Portion of the Roof Structure with a thickness of no less than 3 inches	1		
8.1	Concrete Mix 3,500 PSI (min of 1,400sqft)	<i>16.yd.</i>	<i>190</i>	<i>3040</i>
8.2	BRC 66 Steel Fabric @ 1.5" cover (min of 1,400sqft)	<i>127.2</i>		
8.1A	<b>Scale &amp; Squeeze</b>	1		
	Installation of Scale & Squeeze			<i>300</i>
8.2A	<b>Water Troughs</b>			
	Supply & Install 4 Water Troughs,	4	<i>250</i>	<i>1000</i>
	¾" schedule 40 PVC water pipe,	300ft	<i>15</i>	<i>300</i>
	1.5" Schedule 40 PVC water pipe,	500ft	<i>25</i>	<i>700</i>
	Floating Valves &	4	<i>40</i>	<i>160</i>
	Submersible Pump	1	<i>1 1/2</i>	<i>2000</i>
			<i>total</i>	<i>8,400</i>
9	<b>Miscellaneous Items</b>			
	Form Board			<i>800</i>
	Nails			<i>150</i>
	Tying Wire			<i>200</i>
	Pipe Fittings		<i>total</i>	<i>1,150</i>
	Other			
	<b>TOTAL material</b>			<i>78,462</i>
	<b>total Labour</b>			<i>34,602</i>
	<b>Total in words:</b>			<i>113,064</i>





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Belize, Central America

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31<sup>st</sup> October 2014

**Project Execution Unit  
Ministry of Agriculture  
National Agriculture Showgrounds  
Belmopan**

Dear Sirs:

**Re. Construction of Communal Livestock Holding Facility**

We are pleased to confirm the revolving credit facilities that our company extends to Messrs. IRAH Construction Ltd. in the amount of Bz \$30,000.00.

We have had an excellent business relationship with this customer over the years and advise that they have always settled their accounts timely.

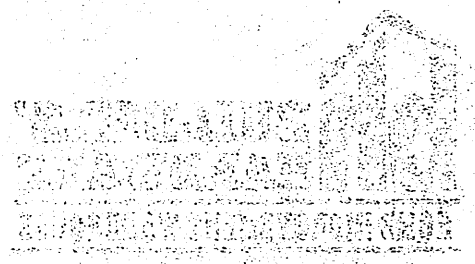
We look forward to continue working with Mr. Manuel Iraheta/IRAH Construction Ltd.

Sincerely  
For an on behalf of  
**Builders' Hardware Limited**

  
**Eric V. Waight  
Financial Controller**

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