

AgwoAyiti Hog Raising Business

Report Phases 2 & 3

I. Narrative of project and construction activities:

On September 15th, 2017, I began with the second phase of the AgwoAyiti project, which is constructing the building where the pigs will live, including adding the feeding trough and putting plumbing lines in the building. The third phase was started after completion of the second phase; the third phase consists of purchasing tools and other necessary tools for operation of the hog raising project. This report includes images, expense reports, budgets, and a description of constraints encountered and lessons learned for both the second and third phases of the project. The second phase of the project took much longer than the third phase, because the third phase only consisted of purchasing materials. In other words, the second phase consisted of hiring construction foremen and laborers to complete construction tasks and to bring necessary materials to the site, including water, sand, concrete, etc. The third phase consisted simply of going to construction supply stores to purchase materials.

II. Phase 2 Images

The images included in this report were taken during all steps of Phase 2 of the project, which involves continuing construction of the pig pen or stall:



Image 1. View of the foundation and support posts taken early during Phase 2 activities.



Image 2. A second view of early construction work with the foundation and support posts.



Image 3. The middle phase of the construction project, during which blocks and wooden roof beams were laid.



Image 4. A view of the pig pen and courtyard after laying of multiple block layers.



Image 5. The end of Phase 2, after installation of the front door, roof, and covering of concrete blocks.

IV. Phase 2 Projected and Actual Expenses

1. Actual Budget

Phase 2: Construction of Corral				
Description	Unit Price	Quantity	Total in HTG	Total in USD
Steel sheets	240 HTG / sheet	2 sheets	HTG 420.00	\$ 6.63
Cement sacks	425 HTG / sack	15 sacks	HTG 6,375.00	\$ 100.57
¾ in. PVC fitting	10 HTG / fitting	4 fittings	HTG 40.00	\$ 0.63
¾ in. PVC cap	10 HTG / cap	2 caps	HTG 20.00	\$ 0.32
½ in. PVC cap	10 HTG / cap	2 caps	HTG 20.00	\$ 0.32
½ in. PVC fitting	10 HTG / fitting	4 fittings	HTG 40.00	\$ 0.63
¾ in. pipe 20	275 HTG / pipe	2 pipes	HTG 550.00	\$ 8.68
½ in. pipe 20	300 HTG / pipe	2 pipes	HTG 600.00	\$ 9.47
¼ PVC Glue	700 HTG / unit	¼ unit	HTG 175.00	\$ 2.76
¾ in. female adaptor	10 HTG / unit	6 units	HTG 60.00	\$ 0.95
¾ in. male adaptor	10 HTG / unit	6 units	HTG 60.00	\$ 0.95
¾ in. faucet	400 HTG / unit	6 units	HTG 2,400.00	\$ 37.86
Bushing ¾ x ½	10 HTG / unit	6 units	HTG 60.00	\$ 0.95
½ in. PVC connector	10 HTG / unit	7 units	HTG 70.00	\$ 1.10
Steel sheet nails	10 HTG / pound	8 pounds	HTG 80.00	\$ 1.26
3 in. nails	45 HTG / pound	5 pounds	HTG 225.00	\$ 3.55
4 in. nails	45 HTG / pound	4 pounds	HTG 180.00	\$ 2.84
Steel sheet 34	44 HTG / sheet	50 sheets	HTG 2,200.00	\$ 34.71
Slat 1x4x16	80 HTG / slat	20 pieces	HTG 1,600.00	\$ 25.24
Illegible (2 nd to last receipt)	N/A	N/A	HTG 250.00	\$ 3.94
Illegible (2 nd to last receipt)	N/A	N/A	HTG 10.00	\$ 0.16
2x4x16 wood	155 HTG / piece	16 pieces	HTG 2,480.00	\$ 39.12
2x4x12 wood	115 HTG / piece	15 pieces	HTG 1,725.00	\$ 27.21
Cement sacks	73.33 HTG/ sack	15 sacks	HTG 1,100.00	\$ 17.35
Binding wire	55 HTG / unit	20 units	HTG 1,100.00	\$ 17.35
Iron bar ¼	80 HTG / bar	30 bars	HTG 2,400.00	\$ 37.86
Iron Bar 3/8	270 HTG / bar	30 bars	HTG 8,100.00	\$ 127.78
Cement sacks	425 HTG / sack	15 sacks	HTG 6,375.00	\$ 100.57
Iron Bar ½	470 HTG / bar	15 bars	HTG 7,050.00	\$ 111.22
Sand	1,875 HTG /	6 truckloads	HTG 11,250.00	\$ 177.47
Concrete Blocks	25 HTG / block	800 blocks	HTG 20,000.00	\$ 315.51
Water	200 HTG / trip	36 trips	HTG 7,200.00	\$ 113.58
Concrete Nails	10 HTG / nail	35 nails	HTG 350.00	\$ 5.52
Construction Labor	40,000 HTG /	1 foreman	HTG 40,000.00	\$ 631.01
Construction Labor	12,000 HTG/	2 Helpers	HTG 24,000.00	\$ 378.61
Transport of Blocks	2,375 HTG /	1 unit	HTG 2,375.00	\$ 37.47
Transport equipments	4,200 HTG	1 unit	HTG 4,200.00	\$ 66.26
Gravel	325 HTG / wheelbarrow	23 wheelbarrows	HTG 7,475.00	\$ 117.92
Locks	150 HTG / lock	3 locks	HTG 450.00	\$ 7.10
Cleaning courtyard	1000 HTG	1	HTG 1,000.00	\$ 15.78
Bank fees	768 HTG / month	7 months	HTG 5,376.00	\$ 84.81
Carpenter Labor	3200 HTG	1	HTG 3,200.00	\$ 50.48
Wooden Posts	250 HTG / post	12	HTG 3,000.00	\$ 47.33
Transportation	6500 HTG	1	HTG 6,500.00	\$ 102.54
Food	6400 HTG	1	HTG 6,400.00	\$ 100.96
Total			HTG 188,541.00	\$ 2,867.11

2. Projected Budget

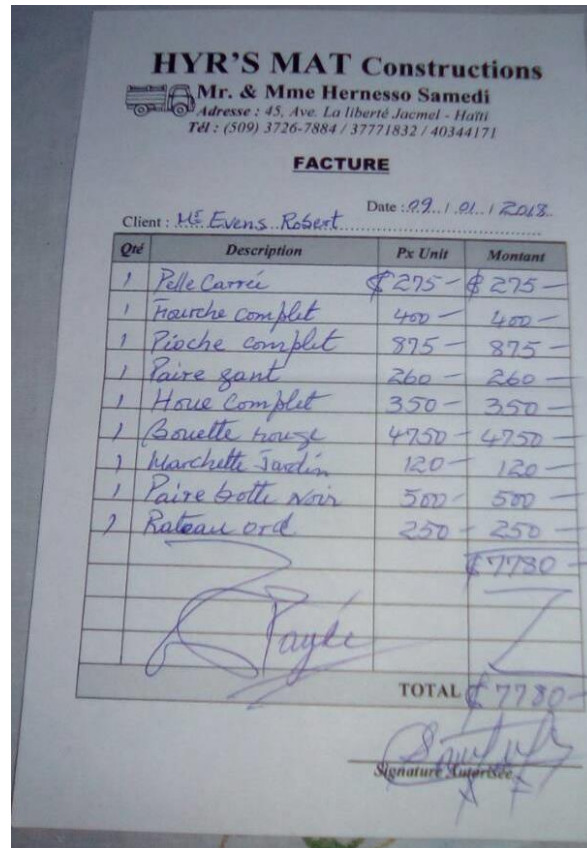
Phase 2: Construction of Corral				
Description	Unit	Quantity	Unit Price	Total Price
Tuff Tank 500 gallons	tanks	1	\$ 762.30	\$ 762.30
Rebar 1/2	bars	8	\$ 9.24	\$ 73.92
Rebar 1/4	bars	15	\$ 1.79	\$ 26.80
Blocks 20	blocks	450	\$ 1.17	\$ 526.68
Rebar 3/8	bars	8	\$ 5.39	\$ 43.12
Cement	sacks	35	\$ 12.32	\$ 431.20
Corrugated sheet metal: 13 canal	sheets	16	\$ 6.16	\$ 98.56
2x4x16 wooden beams	wooden beams	15	\$ 15.40	\$ 231.00
Standard nails	pounds	7	\$ 1.42	\$ 9.92
Wooden planks	wooden planks	8	\$ 5.88	\$ 47.06
Delivery of water to site	drums	30	\$ 3.53	\$ 105.80
Nails for cement	pounds	8	\$ 1.54	\$ 12.32
Sand	truck	1	\$ 117.55	\$ 117.55
Gravel	wheelbarrows	10	\$ 1.77	\$ 17.71
1" PVC pipe	bars	6	\$ 10.78	\$ 64.68
Female adapter	adapters	6	\$ 0.62	\$ 3.70
Male adapter	adapters	6	\$ 0.62	\$ 3.70
Transportation	transportation	1	\$ 308.00	\$ 308.00
Construction foreman	construction foreman	2	\$ 475.00	\$ 950.00
1/2 inch plywood	plywood	8	\$ 31.85	\$ 254.78
Unforeseen cases	circumstantial	5.00%	\$ 4,088.78	\$ 204.44
Total Price				\$ 4,293.22

V. Phase 3 Images



Images 6 and 7. Materials purchased for Phase 3 of the project.

VI. Phase 3 Receipts



VII. Phase 3 Projected and Actual Expenses

1. Actual Budget

Phase 3: Materials for Functioning						
Description	Unit Price		Quantity	Total in HTG		Total in USD
Square shovel	HTG	1,375.00	1	HTG	1,375.00	\$ 21.69
Pitchfork	HTG	2,000.00	1	HTG	2,000.00	\$ 31.55
Pick	HTG	4,375.00	1	HTG	4,375.00	\$ 69.02
Gloves	HTG	1,300.00	1	HTG	1,300.00	\$ 20.51
Hoe	HTG	1,750.00	1	HTG	1,750.00	\$ 27.61
Wheelbarrow	HTG	23,750.00	1	HTG	23,750.00	\$ 374.66
Machete	HTG	600.00	1	HTG	600.00	\$ 9.47
Boots	HTG	2,500.00	1	HTG	2,500.00	\$ 39.44
Rake	HTG	1,250.00	1	HTG	1,250.00	\$ 19.72
Total				HTG	38,900.00	\$ 613.66

2. Projected Budget

Phase 3: Necessary Materials for Corral Functioning				
Description	Unit	Quantity	Unit Price	Total Price
Boots	pairs	2	\$ 10.70	\$ 21.39
Rain Jackets	rain jackets	2	\$ 21.38	\$ 42.76
Gloves	pairs	3	\$ 2.10	\$ 6.30
Rakes	rakes	2	\$ 9.80	\$ 19.60
Picks	picks	2	\$ 11.20	\$ 22.40
Pitchforks	pitchforks	2	\$ 12.82	\$ 25.65
Machetes	machetes	2	\$ 7.00	\$ 14.00
Veterinary service	month	6	\$ 30.00	\$ 180.00
Detergent	sacks	1	\$ 10.00	\$ 10.00
Chlorine	packets	1	\$ 5.00	\$ 5.00
Delivery of water to site	drums	10	\$ 3.53	\$ 35.30
Workers	workers per month	2	\$ 137.41	\$ 274.82
Flashlight	flashlights	2	\$ 7.00	\$ 14.00
Buckets	buckets	4	\$ 2.30	\$ 9.20
Unforeseen cases	circumstantial	5.00%	\$ 680.42	\$ 34.02
Total Price				\$ 714.44

VIII. Phases 2 and 3: Challenges and Constraints

The biggest challenge encountered during this phase was time. It was difficult to keep the schedule that we had set in the MOU for a number of reasons. The biggest reasons was that some of the steps in the phase required the work of construction foreman and other specialists, and it was often difficult to establish set schedules with these individuals. There were not many available construction foreman in the area, so I had no choice but to use the few specialists that I could find – this means that I was sometimes at the mercy of their schedules. Another problem that caused us to be late was the rainy season. On multiple dates, I had planned to work, but then because of rain we had to cancel the workday and reschedule it for another day. These two factors together resulted in being late.

IX. Phases 3 and 4: Lessons Learned

One lesson that I learned was that it is important to have a contract with any construction foremen or other people who will be working on the project. Next time, I will sit down with the individual beforehand, make sure we are both on the same page in terms of pay, schedule, and working conditions, and have the individual sign a contract so as to ensure that the job happens in a timely manner. Another adjustment that I will make is with scheduling itself – for example, if I think a certain task will take two weeks to complete, I will allow three weeks in case there are unforeseen cases or delays. This way, I will not be behind schedule.