PROJECT FOR THE REHABILITATION OF HOMES AND HYGIENE/SANITATION INTRASTRUCTURES FOR AIDS ORPHANS IN NDU COMMUNITY



Toilet of Rumyan Bunje before construction



Constructed toilet/washroom for Rumyan's family

FINAL REPORT

NOVEMBER 2010 - JULY 2011

Funding Organisation

AIDS-Waisen International e.V

Executing Organisation

FORCE-CAM Bamenda - Cameroon

FINAL REPORT

- **1.Nature of project**: Home and Hygiene/Sanitation infrastructures Rehabilitation for Aid Orphans
- **2.Project Location:** Ndu Sub-Division, Donga/Mantung Division, North West Region of Cameroon
- **3.Beneficiaries:** 8 Orphans and their foster parents
- 4.Period Covered by this report: December 2010 to July 2011
- **5.Executing Organisation:** FORCE-CAM
- 6. Total Cost of the project: 7,552,000 FCFA
- 7.Intervention Logic:

Overview

Though initially planned for 8 orphans' families, finally the project due to some technical and updated information on the households, addresses completely, the problem of living accommodation and hygiene /sanitation infrastructures of 6 AIDS orphans families in Ndu Sub-Division under FORCE-CAM's care. They include Jerry Yakong, Nformi Safi, Nfor Believe, Randolf Bamboh; all in Ndu Village and Rumyam Bunje Nsahnyu, and Killian Ringnyu/Cendris in Ntumbaw Village. These families had their homes either rehabilitated or constructed and all had toilets/washrooms constructed.

The project is formulated to complement the efforts already being made by FORCE-CAM and her partners in the domain of education, nutritional support and clothing to ameliorate the living standards of these orphan children

• Planned Over al I Goal

To improve the living conditions of eight AIDS orphans and their foster parents in Ndu Sub-Division, through the provision of safe and improved home buildings and hygiene/sanitation facilities.

Planned Specific Objectives

To rehabilitate eight dilapidated home buildings and construct eight pit toilets/washrooms

Planned Expected results

- •Healthy homes, secured living conditions, and esthetically valued home buildings that meets up with basic engineering norms are provided to seven orphans and their foster parents.
- Adequate hygiene and sanitation facilities that involves toilet and bath rooms are provided to orphans and their foster parents

Planned Activities

- ■To complete one living room, corridor, two bed rooms, front view/veranda, windows and doors and also to replace the local pit toilet with an improved one pit toilet/bath room building block; for Rumyam Bunje Nsahyu at Njiwarr-Ntumbaw village.
- ■To rehabilitate a dilapidated two-room building and as well replaced the local pit toilet with an improved one pit toilet/bath room building block; for Cendris and Killian Ringnyu at market area Ntumbaw.
- ■To complete one living room, corridor, one bedroom, front view/veranda and also construct a one pit toilet/bath room block for Nformi Safi at Palisha Ndu Village.
- ■To rehabilitate/complete a two room home building and also to replace a locally constructed pit toilet with an improved one pit toilet/bath room building block; for Nfor Blieve at Palisha-Ndu Village.
- ■To rehabilitate/upgrade a two- room home building and as well replace a locally constructed pit toilet with an improved one pit toilet /bath room building block; for Jerry Yakong at Mbacot-Ndu Village.
- ■To rehabilitate a two room home building and also replace a locally constructed pit toilet with an improved one pit toilet/bath room building block; for Randolph Bamboh at Njiptop-Ndu Village.
- ■To rehabilitate a two room home building and also replace a locally constructed pit toilet with an improved one pit toilet/bath room building block; for Courage Mbuli at Njiptoh-Ndu Village.
- ■To complete one living room, one bed room, front view/veranda and as well replace a locally constructed pit toilet with an improved one pit toilet/bath room building block; for Gooh Blessing.

8. Planned summary budget and actual realization

S/N	Project	PLANNED BUDGET	EXECUTED BUDGET
1	Rumyam Bunje Nsahyu	1,030,000	751,900
2	Cendris and kilian Ringnyu	1,285,000	1,563,100
3	Nformi Safi	680,000	680,000
4	Nfor Believe	680,000	680,000
5	Jerry Yakong	1,180,000	2,455,000
6	Randolph Bamboh	680,000	1,337,000
7	Courage Mbuli	1,315,000	40,000
8	Gooh Blessing	702,000	45,000
	Total	7,552,000	7,552,000

9. Actual realization of activities

a) Rumyan Bunje Nsahnyu

i. **Main tasks of the project:** Rehabilitating/completing four room home building and constructing a pit toilet and bath room building block.

ii. Works carried out

- Plastering/flooring of one living room, corridor, two bed rooms, front view/veranda
- Construction of ceiling in the parlour/corridor and in one bed room
- Purchase of materials and repair of two single windows, three doors and fixing of facia board
- Construction of one pit toilet and bath building block
- Rumyan Bunje Nsahyu's home building activities were realized 100% as planned, toilet/washroom constructed.

iii.Expenditures effected

S/N	Description	Unit	Q'ty	U.P	Amount
1	Sand -cargo load	trips	4	25,000	100,000
2	Gravel - 6 wheel barrow	Lumpsum	1	9,000	
3	Cement	bags	25	5,700	142,500
4	Cement	bags	10	6,000	60,000
5	2x6" wood for ceiling joist, window sashes & door				0
	frame	pcs	30	1,000	30,000
6	1x8" wood for facia board	pcs	9	1,100	9,900
7	Sawing, plaining, rebuting, & moulding	Lumpsum	1	14,400	14,400
8	Wood due	fin	2	2,000	4,000
9	Wood nails	kg	6	1,000	6,000
10	Ceiling nails	p'ket	1	2,000	2,000
11	Ply wood	sheets	13	3,700	48,100
12	2x 3" wood for toilet roof	pcs	8	400	3,200
13	1x12" wood for toilet doors	pcs	3	1,500	4,500
14	Toilet door frames	no	2	7,000	14,000
15	Roof sheets for toilet	pcs	10	4,500	45,000
16	Zinc nails	p'ket	1	4,000	4,000
17	Bolts	Lumpsum	1	1,200	1,200
18	Reinforcement rods Ø8mm	pcs	8	3,700	29,600
19	Binding wire	Roll	1	1,500	1,500
20	Transport of material	Lumpsum	1	17,000	17,000
21	Digging of toilet pit	Lumpsum	1	30,000	
22	Carpenter Labour	Lumpsum	1	66,000	
23	Mason Labour	Lumpsum	1	110,000	110,000
	Total		l		751,900

iv. Photographs



Final state of the building



Interior of the building



Sample of toilet/baths rooms

b) Kilan Ringnyu and Cendris

i. Main tasks of the project: Demolishing a dilapidated two room building and constructing a new one including a pit toilet / bath room building block.

ii. Works carried out

- •Demolition of the dilapidated building and construction of a new two room building consisting of foundation in stone masonry, walls of silt/clay earth blocks and the roof of eucalyptus wood and aluminium roof sheets.
- •Plastering/flooring of the two rooms, front /end views view ands the veranda
- Construction of ceiling joist
- ■Construction of a pit toilet and bath room block.
- •Installation of wooden window frames, sashes and glasses
- •Installation of wooden door frames and panel doors
- **Cendris and killian Ringnyu's** home building activities were modified because the building was later realized during execution to be beyond rehabilitation state and thus a new two-room home building was finally constructed, and involving plastering/flooring and ceiling. The toilet and bath rooms were realized 100% as planned.

iii. Expenditures effected

SIN	Description	Unit	Q'ty	U.P	Amount
1	Sand - Cargo load	trip	4	25,000	100,000
2	Stones - Cargo load	trip	6	9,000	54,000
3	Earth blocks moulding	no	2000	50	100,000
4	Transport of blocks	Lumpsum	1	44,000	44,000
5	Cement	bags	46	5,800	266,800
6	Gravel -wheel barrow	Lumpsum	1	9,000	9,000
7	Digging of toilet pit	Lumpsum	1	30,000	30,000
8	2x4" wood for roof trusses	pcs	66	1,000	66,000
9	2x3" wood for roof purlins & ceiling joists	pcs	58	600	34,800
10	Transport of roof wood	Lumpsum	1	10,000	10,000
11	1x8" cypress wood for facia board	pcs	20	2,000	40,000
12	Aluminium 2m roof sheets	sheets	58	4,500	261,000
13	Transport of roof sheets	Lumpsum	1	4,000	4,000
14	Zinc nails	p'ket	1	4,000	4,000
15	Zinc nails	kgs	2 1/2	1,000	2,500
16	Wood nails - assorted sizes	p'ket	15	4,000	60,000
17	4 Door and 2 window frames/ Door/window shutters	Lumpsum	1	188,000	188,000
18	Transport of frames/door shutters from ndu	Lumpsum	1	20,000	20,000
19	Door locks, staples, hinges, bolt, crews and glasses	Lumpsum	1	37,500	37,500
20	Reinforcement rods Ø8mm	pcs	10	2,300	23,000
21	Toilet roof sheets	sheets	10	4,500	45,000
22	Toilet roof 2x3 wood 1x10" facia board	Lumpsum	1	20,000	20,000
23	Ply wood	sheets	20	4,000	80,000
24	Carpenter Labour for demolish old roof, main bui				0
25	Iding roof construct, ceiling and toilet roof	Lumpsum	1	78,000	78,000
26	Mason labour for demolish old building, contruct	•			0
	new one and toilet	Lumpsum	1	210,000	210,000
	Total				1,787,600





Newly constructed 2 room house and a constructed toilet/washroom

c) Nformi Safi

i. Main tasks of the project: Completing one living room, a corridor and one bed room of a home building and also construction of a new pit toilet / bath room building block.

ii. Works carried out

- ■Construction of a pit toilet an bath room building block
- •Plastering /flooring of the living room, corridor, one bed room and front view/veranda.
- Execution of the ceiling in the stated three rooms
- ■Nformi Safi's home building activities were realized 100% as planned, toilet/washroom constructed.

vi. Expenditures effected

SIN	Description	Unit	Q'ty	U.P	Amount
1	Sand	trips	3	60,000	180,000
2	Transport of earth from mbacot		1	12,000	12,000
3	Digging of toilet pit	Lumpsum	1	30,000	30,000
4	Cement	bags	50	6,000	300,000
5	Transport of cement to site	Lumpsum	1	16,500	16,500
6	Reinforcement rods Ø8mm	pcs	8	2,300	18,400
7	Binding wire	roll	1	1,800	1,800
8	Gravel crushing	Lumpsum	1	9,000	9,000
9	Rafters/purlins wood	Lumpsum	1	24,000	24,000
10	Ceiling joists 2x2"	no	40	1,000	40,000
11	Ply wood	sheets	38	4,200	159,600
12	Roof sheets	sheets	10	4,500	45,000
13	Door frames/shutters	no	2	34,000	68,000
14	Wood nails of assorted sizes	kgs	5	1,000	5,000
15	Zinc nails	Lumpsum	1	4,000	4,000
16	Zinc nails gasket	p'ket	2	500	1,000
17	Ceiling nails	p'ket	1	2,000	2,000
18	Transport of rafters, purlins, zinc	Lumpsum	1	5,000	5,000
19	Mason labour (garther stone from surrandings)	Lumpsum	1	130,000	130,000
20	Carpenter labour	Lumpsum	1	26,000	26,000
				Total	1,077,300

viii. Photographs





Final state of the rehabilitated building and constructed toilet/washroom

d) Believe Nfor

i. Main tasks of the project: Rehabilitation/completion of a two room building and also construction of a new pit toilet / bath room block.

ii. Works carried out

- Construction of the verandah to control the drainage
- ■Extension of the roof
- Construction of ceiling in the two rooms
- •Plastering/flooring of the two rooms, front view and part of the veranda
- Construction of a pit toilet and bath room block
- ■Nfor Believe's home building activities were realized 100% as planned, toilet/washroom constructed.

iii. Expenditures effected

\$/N	Description	Unit	Q'ty	U.P	Amount
1	Sand	Lumpsum	1	60,000	60,000
2	Stones -7 tonne tipper load	trip	1	25,000	25,000
3	wheel barrow of crushed gravel	no	8	1,000	8,000
4	Cement	bags	38	6,000	228,000
5	Transport of cement	Lumpsum	1	7,000	7,000
6	Digging of toilet pit	Lumpsum	1	30,000	30,000
7	Wood for roof rafter and purlins, facia board	Lumpsum	1	24,000	24,000
8	Wood for ceiling joist	Lumpsum	1	8,000	8,000
9	Transport of roof wood	Lumpsum	1	10,000	10,000
10	Aluminium 2m roof sheets	sheets	15	4,500	67,500
11	Zinc nails	p'ket	1	4,000	4,000
12	Wood nails - assorted sizes	kgs	6	1,000	6,000
13	Doors and window sashes, glasses	no	2	62,000	124,000
14	Toilet door hinges, staples and locks	Lumpsum	1	7,200	7,200
15	Transport of frames from Mbacot	Lumpsum	1	4,000	4,000
16	Reinforcement rods Ø8mm	pcs	8	2,300	18,400
17	Purchase of ply wood	sheets	18	4,000	72,000
18	Ceiling nails	p'ket	1	2,000	2,000
19	Carpenter labour	Lumpsum	1	32,000	32,000
20	Mason labour	Lumpsum	1	70,000	70,000
	Total				807,100

e) Jerry Yakong

i. Main tasks of the project: Replacing the old and dilapidated building by constructing of a new three room building and new pit toilet / bath rooms.

ii. Works carried out

- •Replacing the old and dilapidated building by constructing a new three room building, consisting of foundation in stone masonry, walls of silt/clay earth blocks and the roof of eucalyptus wood and aluminum roof sheets
- •Plastering/flooring of the three rooms, front view and the veranda
- Construction of ceiling
- •Construction of a pit toilet and bath room building block.
- **Jerry Yakong's** home buildings activities were modified because the building was at an advance state of dilapidation and hence an attempt to rehabilitate will cost more than the cost of constructing a new three room home building. In this regard, a new three room building was constructed, plastered/floored and ceiling executed as well. The toilet and bath rooms were realized 100% as planned.

v.Expenditures effected

S/N	Description	Unit	Q'ty	U.P	Amount		
1	Sand -7 tonne tipper load	trip	3	60,000	180,000		
2	Stones - 7 tonne tipper load	trip	5	25,000	125,000		
3	Gravel	trip	1	10,000	10,000		
4	Transport of stones from njiptop	Lumpsum	1	10,000	10,000		
5	Reinforcement Steel rod Ø 8mm	pcs	8	2,500	20,000		
6	Earth blocks moulding	no	1800	50	90,000		
7	Cement	bags	78	5,900	460,200		
8	Digging of tollet pit	Lumpsum	1	30,000			
9	back of eucalyptus trees for slab formwork	pcs	10	800	8,000		
20	2x4" wood for roof trusses	pcs	90	1,000	90,000		
21	2x2" wood for roof purlins & ceiling joists	pcs	102	800	81,600		
22	1x12" cypress wood for facia board	pcs	10	2,000	20,000		
23	Aluminium 2m roof sheets	sheets	122	4,500	549,000		
24	Transport of roof sheets/roof wood	Lumpsum	1	5,000	5,000		
25	Zinc nails	p'ket	4	4,000	16,000		
26	Zinc nails gasket	sachet	8	500	4,000		
27	Wood nails - assorted sizes	p'ket	11	4,000	44,000		
28	3 Door and 3 window frames	Lumpsum	1	108,000	108,000		
29	Doors and window sashes	Lumpsum	1	110,000	110,000		
30	Toilet door frames/shutters	no	2	34,000	68,000		
31	Purchase of ply wood	sheets	20	4,000	80,000		
32	Purchase of glasses, locks, hinges, and staples	Lumpsum	1	34,200	34,200		
33	Carpenter Labour for roof and ceiling	Lumpsum	1	76,000	76,000		
34	Mason labour	Lumpsum	1	140,000			
	Total :						

v. Photographs





Constructed 3 room building and toilet/washroom (doors fitted after picture was taken)

f) Randolph Bamboh

i. Main tasks of the project: Replacing the old/ dilapidated building by constructing a new two room building and a new pit toilet / bath room building block.

ii. Works carried out

- Replacing the old/dilapidated building by constructing a new two- room home building, consisting of foundation in stone masonry, walls of silt/clay earth blocks and the roof of eucalyptus wood and aluminium roof sheets
- Plastering /flooring of two rooms and at the front view/verandah
- Construction of ceiling
- Construction of a pit toilet and bath room building block
- •Installation of wooden window frames, sashes, and glasses.
- Installation of wooden window frames and panel doors
- •Randolph Bambo's home building activities were modified because the existing two room building too small and also the earth blocks that was us in construction were of poor soil. Thus a new two room building was constructed and involving plastering/flooring and ceiling. The pit toilet and bath were realized at 100% as planned.

iv. Expenditures effected

S/N	Description	Unit	Q'ty	U.P	Amount
1	Sand -12 tonne tipper load	trip	2	60,000	120,000
2	Stones - 7 tonne tipper load	trip	3	25,000	75,000
3	Cernent	bags	52	6,000	312,000
4	Rods Ø8mm	pcs	8	2,300	18,400
5	Digging of toilet pit	Lumpsum	1	30,000	30,000
6	Back of eucalyptus trees for slab formwork	рсз	8	1,000	8,000
7	Transport of Cernent to site	Lumpsum	1	12,000	12,000
8	2x4" wood for roof trusses	рсз	80	1,000	80,000
9	2x2" wood for roof purlins & ceiling joists	рсз	84	800	67,200
10	2x3" roof wood for toilet	рсз	16	900	14,400
11	1x12" cypress wood for facia board	рсз	18	2,000	36,000
12	Aluminium 2m roof sheets	sheets	108	4,500	486,000
13	Transport of roof sheets/roof wood	Lumpsum	1	11,000	11,000
14	Ply wood	sheets	18	4,000	72,000
15	Ceiling nails	p 'k et	1	2,000	2,000
16	Zinc nails	p 'k et	4	4,000	16,000
17	Zinc nails gasket	sachet	8	500	4,000
18	Wood nails - assorted sizes	p 'k et	5	4,000	20,000
19	2 Door and 2 window frames/ part shutters	Lumpsum	1	124,000	124,000
20	Locks, staples, and hinges	Lumpsum	1	16,600	16,600
21	Carpenter Labour for roof and ceiling joists	Lumpsum	1	118,000	118,000
22	Mason labour	Lumpsum	1	134,000	134,000
	Total				1,776,600

g) Gooh Blessing (Works suspended as explained above)

- **i. Main tasks of the project:** Completing two rooms from an uncompleted four room building and also constructing a new pit toilet / bath room building block.
- ii. Works carried out
- ■Excavation of the toilet pit
- ■Supply of 1.5m3 of stones
- Arrangement for supply of blocks
- •Blessing Gooh's home activities were suspended because further investigations at the start of the project realized that they are living in a borrowed house and follow ups to acquire a piece of land where a

new home could be constructed failed. Thus the budget was used to complement the modifications that were made for Jerry and Randolph's home buildings.

iv. Expenditures effected

SIN	Description	Unit	Q'ty	U.P	Amount
1	Digging toilet pit	Lumpsum	1	30,000	30,000
2	Payment for stones	Lumpsum	1	10,000	10,000
3	Advance for blocks	Lumpsum	1	5,000	5,000
					0
Tota					45,000

h) Courage Mbuli (Works suspended as explained above)

- i. Main tasks of the project: Constructing a new two room building and new pit toilet / bath rooms.
- ii. Works carried out
- Supplying of one trip 12tonne load of stones.
- Silt/clay blocks (sundry) already moulded
- Courage Mbuli's homebuilding activities were suspended because she and her foster parents live in a borrow building and there were insufficient funds to construct a new building for them. Thus the budget was used to complement the cost of modifications that were made on Jerry and Randolph's home buildings.

iv. Expenditures effected

SIN	Description	Unit	Q'ty	U.P	Amount
1	Purchase of stones	Lumpsum	1	40,000	40,000
					0
	Total				40,000

10. Difficulties encountered

- •Though initially planned to start in October 2010, the unusually long rainy season experienced during the 2010 season delayed the commencement of the rehabilitation works which was to use mainly sun dried bricks.
- •The realization of these activities took place during a period that most of the earth block building activities are usually carried out in the area and thus there was scarcity of skilled and unskilled workers and also vehicles for transportation and supply of materials such as stones and sand. These therefore greatly slowed down the work speed and as a result affected the time frame.

- •The coincidence of project activities with the peak period of farming season also greatly affected the speed of works under execution through the beneficiaries' labour contributions to the project.
- •Breakdown of the lone public woodwork machine in the Ntumbaw Village also delay project activities.
- •Mobil phone communication lines exists only at some points in Ntumbaw Village and thus was difficult to get in contact with workers even while in the project area

11.CONCLUTION

Of the eight orphans families identified, only six homes (excluding Gooh Blessing and Courage Mbuli) were done due to some difficulties faced during execution such as highly dilapidated structures than envisaged, non-availability of a permanent structure belonging to the orphan family. During execution, a total of four houses were newly constructed, two rehabilitated and six toilets/washrooms constructed.

The families are very happy and appreciative of this wonderful support by AWI in providing them with these highly needed infrastructural rehabilitations. During rehabilitation, we were particularly appreciative too of the active participation of the assisted orphans' families as they did all in their power to contribute their own share in the rehabilitation process; some provided sun dried bricks and unskilled labour.

The decision for AWI to support the rehabilitation of orphans' homes is a highly welcome initiative. We pray that this initiative should continue as the status of most of the homes of these orphans' families are really deplorable.

As resources would permit and on AWI's decision, we can acquire land and build a small house for Courage Mbuli whose family is basically nomadic relying on charity to be housed.