

School Survey
ATOROMA PRIMARY SCHOOL – KATAKWI DISTRICT (Northeastern Uganda)

SURVEY TYPE: Primary Survey

Names: Omara Martin & Isaac Tumuhimbise

Dates of survey: 18th Sept 2023

Name of school: Atoroma Primary School

Location: Toroma sub-county, Katakwi District

GPS coordinates: X=1.7517316 Y=33.9557734

District officials:

Name	Position/Title	Phone #	Email
Madam. Angella Atim	DEO	0772524358	Angellaatim3@gmail.com
Daniel Alileng	District inspector of schools	0782442240	
Okiror Bosco	Assistant Inspector of schools	0773226063	
Stella Amalo	Secretary to the DEO	0782649767	

School contact persons:

Name	Position	Phone #	Email
Mr. Okiror Severino	Head teacher	0782315075	
Mr. Otim John Titus	Deputy Head teacher	0775291290	
Mr. Okure moses (contact person)	Class teacher	0777157358 0754797341	

School Enrollment: 1876

Boys: **1000**

Girl: **876**

Boarding section: **200**

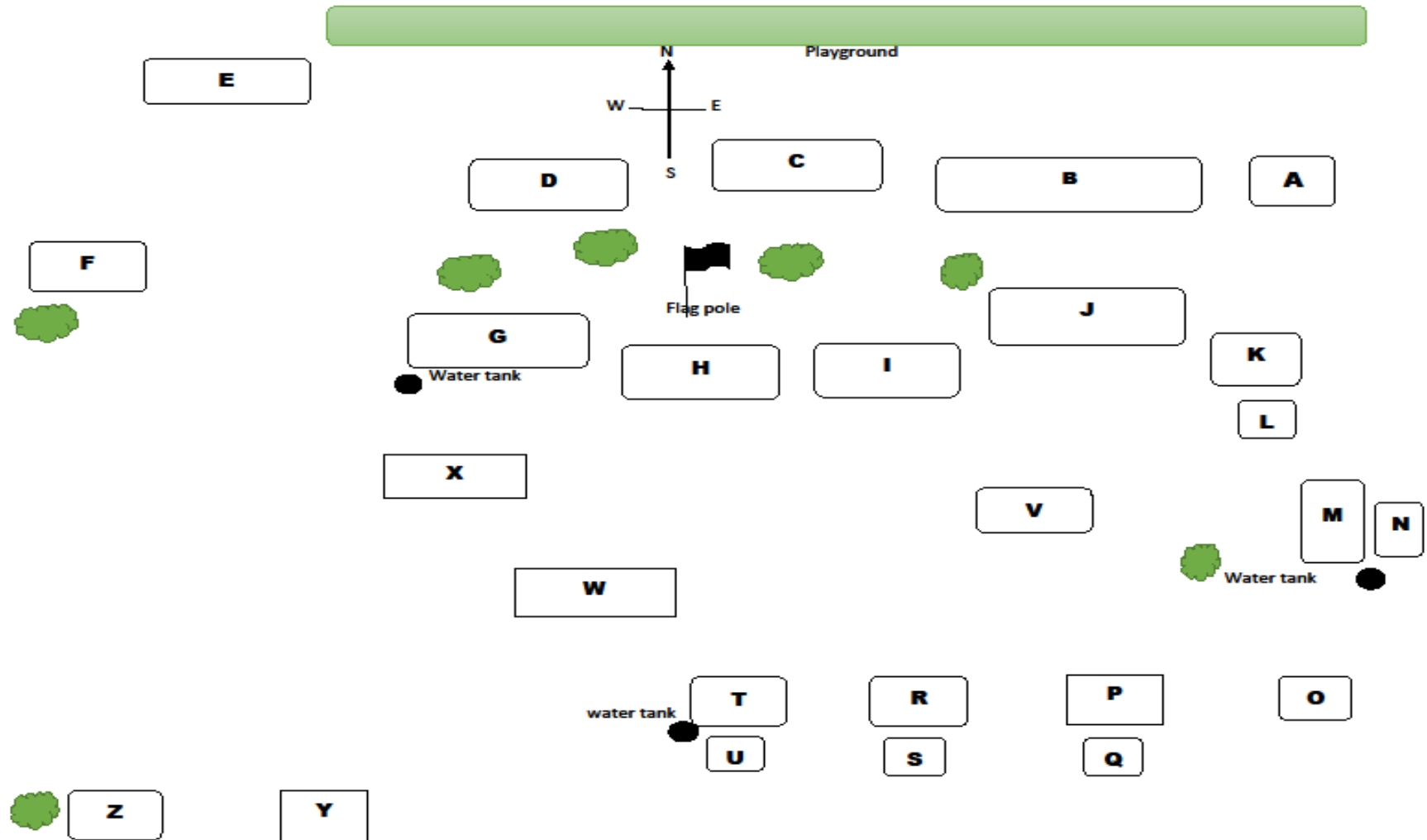
Teachers and support Staff: **22**

Other considerations and notes:

1. Atoroma Primary School is found in Toroma sub-county in Katakwi district north eastern Uganda. It is a government aided school (Christian founded under church of Uganda)
2. There are no hard rocks around the buildings in the school.
3. Sometime when it's coming to rain, many pupils run home to avoid being struck by lightning.
4. The community around the school and the district are not violent, the police station is just 200meters away from the school.
5. The government is fighting a few elements of Karamojong cattle rustlers who on rare occasions attack and raid cattle, goats and sheep and sometimes leads to loss of lives within the district.
6. The district officials, head teacher and the other teachers are so cooperative. They highly welcomed the project.
7. The community (parents and pupils) are very happy and welcoming the project.
8. Most Trees around the school are more than 10 meters high
9. There are electricity line poles around the school.
10. Building X was struck by lightning yet it was installed by Government. It has one air termination as you can see in the picture below.



Layout of buildings at Atoroma primary school



Sketch map showing. Soil tests shown in site photo.



Total number of buildings

5 kitchens, 10 staff quarters, 1 block with office and classroom, 1 church, 1 reverend house, 1 classroom block and serving as an office also, 1 dormitory, 6 classroom blocks giving us a total of 26 buildings, 1 block serving as classroom and kitchen

MEASUREMENTS of buildings (metres)

Building #	Corner height	Centre height	Width	Length	Front Verandah	Side Veranda	Front Balcony length	Front Balcony width	Protruding wall behind width	Protruding wall behind length	walkway
A	3.3	4	5	6.2	1.8						
B	3.2	4.9	7.8	38.9							
C	3.2	4.6	6.7	20.5							
D	3	4.4	6.5	20.4	1						2
E	3.8	5.4	8.2	16.7	0.5						
F	3	3	6.78	13	0.4		4.9	1.6	4.3	4.4	
G	3.2	3.6	6.5	16.3	1.1	0.6					2
H	3.2	4.7	6.4	18	1	0.6					
I	3.3	4.7	6.4	16.1	1	0.6					
J	3.2	4.8	6.4	16.3	1	0.6					
K	3.6	4.5	4.6	11.7		0.6	6.2	2.1			
L	3.2	4.2	3.5	4	1	0.6					
M	4	6.3	7.1	14.1	1	0.5					2.5
N	3.7	4.1	3.3	5.5	0.6						
O	3.1	3.9	4.2	9	0.4						
P	3.2	4.2	4.35	9.5							
Q	2.7	3.2	2.3	3.3							
R	3.2	4.2	4.35	9.5							
S	2.7	3.2	2.3	3.3							
T	3.2	4.2	4.35	9.5							
U	2.7	3.2	2.3	3.3							
V	3.3	4.8	5.05	9.06	0.4	0.4					
W	3.4	6	8.6	11.1	0.6	0.6					
X	3.4	4.8	6.7	16.4	0.6	0.6					2
Y	3.4	4.4	4.6	8	0.4	0.4					
Z	3.5	4.1	4.6	9.05	0.6	0.6			6.15	3	

Dimensions of water tank

Block	Height of tank (cm)	Diameter (cm)	Capacity (ltrs)	Distance from building wall (Meters)	Base height of the water tank (meters)	Material made of
G	271	239	10,000	1.1	0.6	Plastic
M	205	186	5,000	1	1.3	Plastic
T	205	186	5,000	1	0.6	Plastic

Distances between buildings (meters):

1. A to B – 15.3
2. B to C – 8
3. C to D – 5.7
4. D to E – 23.8
5. E to F – 60
6. F to G --80
7. D to G – 45.2
8. G to H – 6.2
9. H to I – 7.6
10. I to J – 5.7
11. A to K – 38
12. J to K – 8.2
13. K to L – 2
14. L to M – 19.2
15. M to N – 5
16. M to O – 26.9
17. O to P – 9.1
18. P to Q – 5
19. P to V -- 30
20. P to R – 11.9
21. R to S – 5
22. R to T – 11.9
23. T to U – 5
24. X to H – 25.9
25. T to W -- 25
26. V to W – 16.4
27. W to X – 15.7
28. Y to Z – 20.9

OCCUPANCY

Building/purpose	Students or family members	Comments
A, (staff quarter)	Used by one teacher	Used from Monday to Sunday
B, (currently temporarily used as a school kitchen) awaiting renovation	Used by 2 cooks	It's Used from Monday to Sunday by 2 cooks
C, classroom, office block	Used by over 150 pupils and head teacher plus other teachers	It's Used from Monday to Friday by pupils and teachers
D, classroom	Used by over 200 pupils	It's Used from Monday to Friday by pupils and teachers
E, church	Used by over 200 worshipers	It's Used on Saturday and Sundays
F, Reverends home	Used by reverend and his family members	It's Used from Monday to Sunday by reverend and his family members
G, classroom	Used by over 200 pupils	It's used from Monday to Friday by pupils and teachers
H, classroom	Used by over 200 pupils	It's used from Monday to Friday by pupils and teachers
I, classroom	Used by over 200 pupils	It's used from Monday to Friday by pupils and teachers
J, classroom	Used by over 200 pupils	It's used from Monday to Friday by pupils and teachers
K, staff quarter	Used by 1 teacher and his family	Used every day (Monday to Sunday)
L, kitchen	Used by 1 teacher and his family	Used every day (Monday to Sunday)
M, staff quarters	Used by 2 teachers and their families	Used every day (Monday to Sunday)
N, kitchen	Used by 2 teachers and their families	Used every day (Monday to Sunday)
O, staff quarter	Used by 1 teacher and her family	Used every day (Monday to Sunday)
P, staff quarters	Used by 2 teachers and their families	Used every day (Monday to Sunday)
Q, kitchen	Used by 2 teachers and their families	Used every day (Monday to Sunday)
R, staff quarters	Used by 2 teachers and their families	Used every day (Monday to Sunday)
S, kitchen	Used by 2 teachers and their families	Used every day (Monday to Sunday)
T, staff quarters	Used by 2 teachers and their families	Used every day (Monday to Sunday)
U, kitchen	Used by 2 teachers and their families	Used every day (Monday to Sunday)
V, staff quarter	Used by 1 teacher and her family	Used every day (Monday to Sunday)
W, Dormitory	Used by over 200 pupils and matrons	Used every day (Monday to Sunday)
X, classroom	Used by over 200 pupils	Used from Monday to Friday

Y, staff quarter	Not in use yet still under construction	Not in use yet, still under construction
Z, staff quarter	Used by 1 teacher and his family	Used every day from Monday to Sunday

General Pictures

BUILDING A - Staff quarters



western side of building A (staff quarter)



southern side of block A



Eastern side of building A



Northern side of building A

BUILDING B – Classroom block w Kitchen



Northern side of block B



Eastern side of block B



Southern side of block B



Western side of block B

BUILDING C – Classroom Block with Admin Office



Southern side of building C



Northern side of building C



Western side of building C



Eastern side of building C

BUILDING D – Classroom Block



Northern side of building D



Southern side of building D



Western side of building D



Eastern side of building D

BUILDING E - CHURCH



Northern side of building E



Southern side of building E



Eastern side of building E



western side of building E (church)

BUILDING F – Reverend's home



Northern side of building F



Eastern side of building F



Northern side of building F (reverend home)



Southern side of building F

Building G – Classroom Block



Northern side of building G



Western side of building G



Eastern side of building G



southern side of building G

BUILDING H – Classroom Block



Northern side of building H



Western side of building H



southern side of building H



eastern side of building H

BUILDING I – Classroom Block



Eastern side of building I



Western side of building I



Southern side of Building I



Northern side of building I

BUILDING J - Classroom BLock



Northern side of buiding J



Eastern? (Southern) side of building J



Western side of building J



southern side of building J

Buildings K & L - Staff Quarters w Kitchen



Eastern side of building K & L



Northern side of building K

SOUTHERN PICTURE??



Western side of
building K & L

BUILDING N – Kitchen (out of order, see M next)



Northern side of building N



Western side of building N



Eastern side of building N



Southern side of building N

BUILDING M - Staff Quarters



southern side of building M



Western side of building M



Eastern side of building M



Northern side of building M

BUILDING O - Staff Quarters



Eastern side of building O



Southern side of building O



Western side of building O



Northern side of building O

BUILDING P – Staff Quarters



Eastern side of building P



Northern side of building P



Western side of building P



Southern side of building P

BUILDINGS Q, S, U - Kitchens



Southern side of buildings Q, S, U



Northern side of building Q,S,U



Eastern side of Buildings Q, S, U



western side of buildings Q, S, U

BUILDINGS T, R, P - See water tank by R next page



Northern side of buildings T, R, P



view of buildings P, R and T



Northern side of
building R



western side of building R.



water tank on the western side of building R

BUILDING V - Staff Quarters



Northern side of building V



Eastern side of building V



western side of building V



southern side of building V

BUILDING X – Classroom Block



Northern side of building X



southern side of building X



Western side of building X



Eastern side of building X

BUILDING W - Dormitory



Eastern side of building W



Southern side of building W



Northern side of building W



Western side of building W

BUILDING Y - Staff Quarters



Northern side of building Y



Southern side of building Y



Eastern side of building Y



Western side of building Y

BUILDING Z – Staff Quarters



Northern side of building Z



Southern side of building Z



Western side of building Z



Eastern side of building Z

Purpose of the Building with Building Materials

Building and purpose	Roof material and condition	Floor materials and condition	Wall materials and condition	Other special features (verandas, etc)
A staff quarter	Sheet iron, extensively rusted	Concrete chipped and broken	Mud but burnt bricks	2 M wide veranda in front
B. Classroom block./ Kitchen	Sheet iron, extensively rusted	Concrete chipped and broken	Mud but burnt bricks with plaster – not in good condition	no veranda
C, classroom block/ Administration office	Iron sheet in good condition	Concrete floor in good condition	Mud but burnt bricks with plaster good condition	1M wide veranda in front
D, classroom block	Iron sheet in good condition	Concrete floor in good condition	Mud but burnt bricks with plaster good condition	1M wide veranda in front
E, Church	Iron sheet in good condition	Concrete floor in good condition	Mud but burnt bricks with plaster good condition	1M wide veranda in front
F, Reverend house	Iron sheet in good condition	Concrete floor in good condition	Mud but burnt bricks with plaster good condition	1M wide veranda in front
G, classroom block	Iron sheet in good condition	Concrete floor in good condition	Mud but burnt bricks with plaster good condition	1M wide veranda in front
H, classroom	Iron sheet in good condition	Concrete floor in good condition	Mud but burnt bricks with plaster good condition	1M wide veranda in front
I, classroom block	Iron sheet in good condition	Concrete floor in good condition	Mud but burnt bricks plastered in good condition	1M wide veranda in front
J, classroom	Iron sheet in good condition	Concrete floor in good condition	Mud burnt bricks plastered in good condition	1M wide veranda in front
K, staff quarters	Iron sheet in good condition	Concrete floor in good condition	Mud but burnt bricks plastered	1M wide veranda in front

L, staff kitchen	Iron sheet in good condition	Concrete floor in good condition	Mud but burnt bricks with plaster not in good condition	No Veranda
M, staff quarters	Iron sheet in good condition	Concrete floor in good condition	Mud but burnt bricks with plaster good condition	1M veranda
N, Kitchen	Iron sheet in good condition	Concrete floor in good condition	Mud but burnt bricks with plaster good condition	Veranda in front is not more than 1M
O, staff quarter	Sheet iron, extensively rusted	Concrete floor in good condition	Mud but burnt bricks not plastered in good condition	No veranda
P, staff quarters	Iron sheet in good condition	Concrete floor in good condition	Mud but burnt bricks with plaster good condition	Veranda not more than 1M
Q, Kitchen	Iron sheet in good condition	Concrete floor in good condition	Mud but burnt bricks with plaster good condition	Veranda not more than 1M
R, staff quarters	Iron sheet in good condition	Concrete floor in good condition	Mud but burnt bricks with plaster good condition	Veranda not more than 1M
S, kitchen	Iron sheet in good condition	Concrete floor in good condition	Mud but burnt bricks with plaster good condition	Veranda not more than 1M
T, staff quarters	Iron sheet in good condition	Concrete floor in good condition	Mud but burnt bricks with plaster good condition	Veranda not more than 1M
U, kitchen	Iron sheet in good condition	Concrete floor in good condition	Mud but burnt bricks with plaster good condition	Veranda not more than 1M
V, staff quarters	Iron sheet in good condition	Concrete floor in good condition	Mud but burnt bricks not plastered good condition	Veranda not more than 1M
W, Dormitory	Iron sheet in good condition	Concrete floor in good condition	Mud but burnt bricks with plaster good condition	1M Veranda in front
X, classroom block	Iron sheet in good condition	Concrete floor in good condition	Mud but burnt bricks with plaster good condition	1M Veranda in front
Y, staff quarters	Iron sheet in good condition	No concrete floor (still under construction)	Mud but burnt bricks not plastered good condition	No Veranda

Z, staff quarters	Iron sheet in good condition	Concrete floor in good condition	Mud but burnt bricks other parts plastered others not plastered good condition	Veranda not more than 1M
-------------------	------------------------------	----------------------------------	--	--------------------------

RESISTIVITY TESTS AT ATOROMA P SCHOOL-KATAKWI DISTRICT

Take readings at several locations around the area, preferably at each building, and note these on the sketch or describe the location; see layout map sketch page 3 and photo page 4

X=1.7517316

Y=33.9557734

Resistivity tests

Site	Site description	Location	TEST No.	SPACING (meters)	RESISTANCE (ohms)	ρ (Ω m)
SITE I	Readings taken in Front side of block B (North side of Block B) X=1.7520311 Y=33.9558856	A	1	1	40.2	253
			2	2	28.1	353
		B	1	1	36.1	227
			2	2	25.2	317
		C	1	1	33.5	210
			2	2	23.2	292
SITE II	Readings taken behind the church (south side of the church) X=1.7519678 Y=33.9551291	A	1	1	43.3	272
			2	2	33.6	422
		B	1	1	40.5	254
			2	2	31.0	390
		C	1	1	46.1	290
			2	2	32.9	413
SITE III	Readings taken in front of p.2 Block (North side of p.2 Block) X=1.7514467	A	1	1	16.25	102
			2	2	14.19	178
		B	1	1	17.19	108
			2	2	14.66	184
		C	1	1	10.37	65

	Y=33.9554826		2	2	8.46	106
SITE IV	Readings taken between new block and DOS Quarter (East side of Dos quarter block) X=1.7506008 Y=33.9554005	A	1	1	50.1	314
			2	2	29.9	378
		B	1	1	44.8	281
			2	2	31.2	392
		C	1	1	43.2	271
			2	2	29.6	372
SITE V	Readings taken in front of staff quarters (North side) X=1.751214 Y=33.956416	A	1	1	25.5	160
			2	2	17.1	215
		B	1	1	24.3	153
			2	2	18.2	229
		C	1	1	26.6	167
			2	2	16.0	201

$$\rho = 2\pi R A$$

Site	Location A	Location B	Location C	Average
I (1m)	253	227	210	230
I (2m)	353	317	292	320
II (1m)	272	254	290	272
II (2m)	422	390	413	408
III (1m)	413	108	65	195
III (2m)	178	184	106	156
IV (1m)	314	281	271	289
IV (2m)	378	392	372	380
V (1m)	160	153	167	160
V (2m)	215	229	201	215