

JICA ETHIOPIA

Activity Report

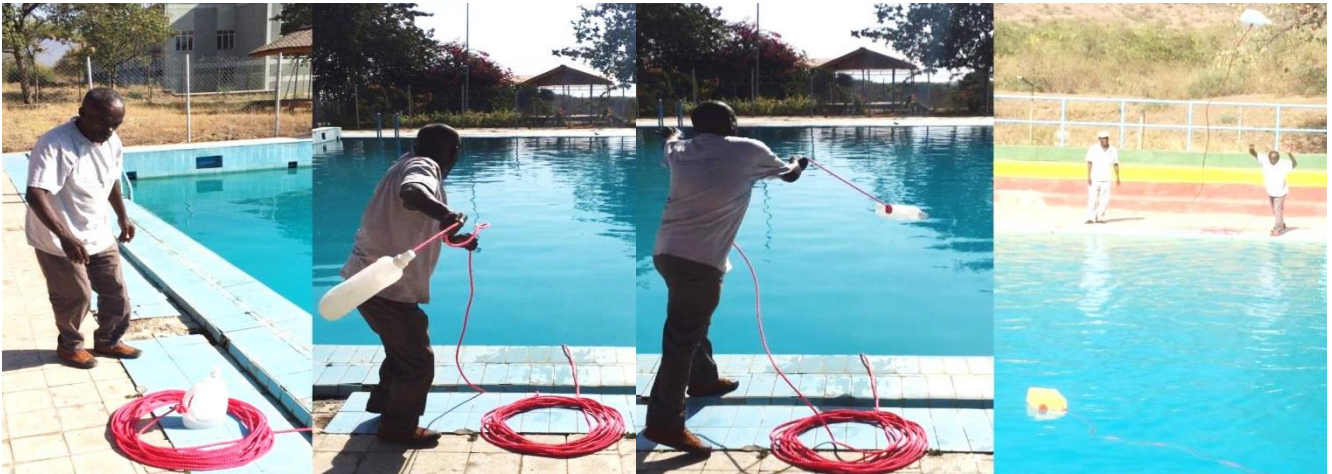
Vol 2

Kotaro Shinchi
2017Feb~Mar

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1. Rescue skill training



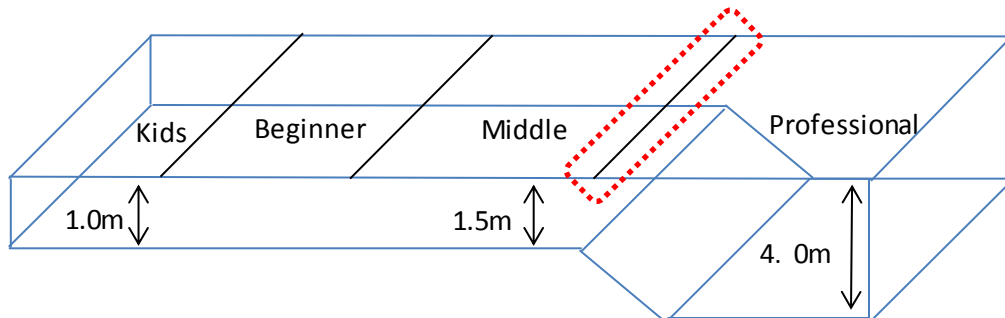
~Point of improvement~

The staff thought of how to connect the floating material to the rescue rope. And then they practice throwing the rope to the target. So I advised them how to set up the rope and position of the rope.

~Result~

As we were able to throw the rope correctly and quickly the patient can catch the rope with the floating material.

2. Arranging the course rope



~Cause~

We set up the red color rope at the deepest point for the customer to show the depth easily. But the rope color was changed to white by chemical.

~Solution~

The staff thought of how to tie the course rope on plastic bottle.

~Result~

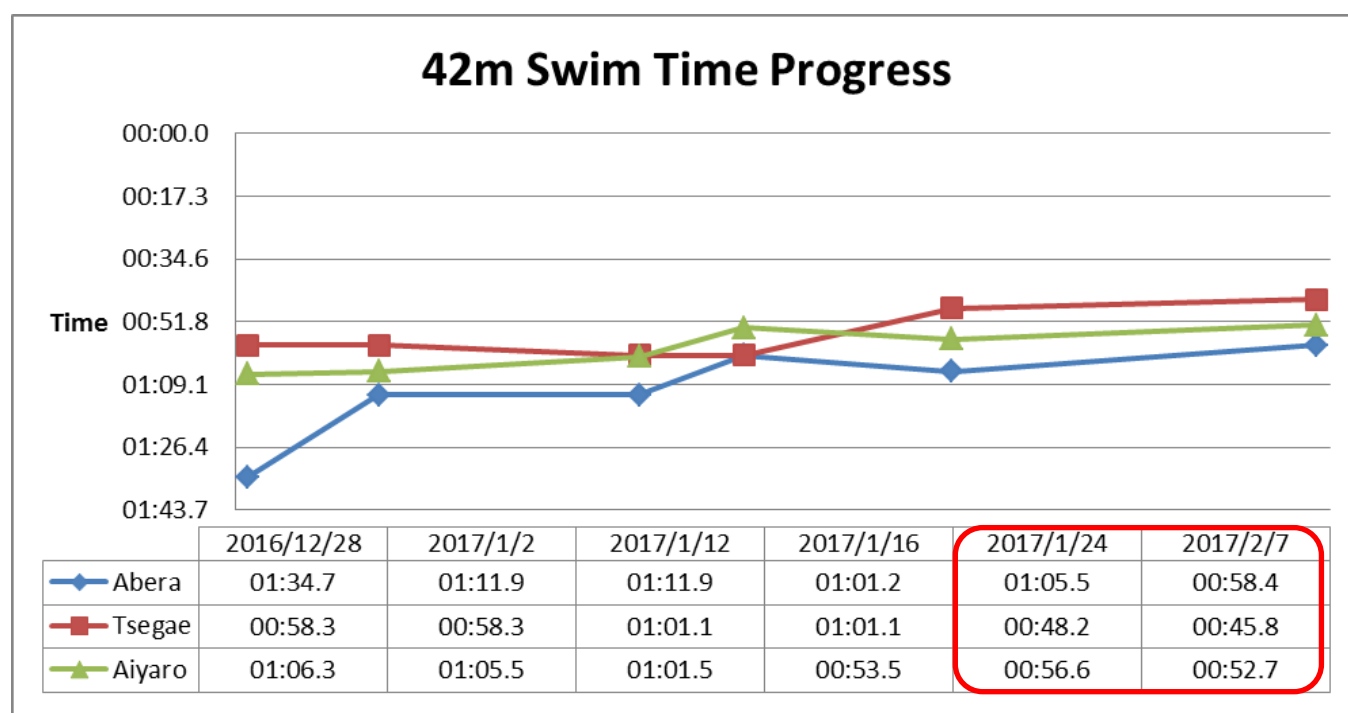
We did not need to buy additional rope. And the customer can realize the depth easier than previous.



3. Swimming lesson for the staff

From 24th Jan 2017 up to 4th Feb 2017. I left AMU (ArbaMinch University) to attend some JICA meeting .So before I left AMU, I pointed out their weak aspects and gave the task / advice as below.

Name	Weak point and Teaching point
Abera	Because of his stiff ankle, he is not good at flutter kick. Kick movement is important to swim efficiently So I tell how to stretch of ankle in order to move his ankle flexibility.
Tsegae	He always loses the time in the latter part because he becomes tired in the latter part with his strained stroke. I tell the way of stroke movement and how to roll the body for recovery.
Aiyaro	He can not put strength into his abdominals therefore He always swims in a zigzag. So I tell core training to get good stroke.



~Result~

Abera : He achieved his best record by 7 second. For the reason He improved flatter kick. So he decreased resistance of the water and then he could swim efficiently.

Tsegae: He achieved his best record by 3 second. For the reason His recovery became smoothly therefore he could keep swimming in the latter part.

Aiyaro: He achieved his best record by 4 second. For the reason he could swim shortest distance.

~Round up ~

The staff kept training by themselves from 24th Jan 2017 up to 4th Feb 2017.

They understood their problem therefore their swimming ability is improving.

✘The swimming lesson stopped in order to remove the pool water from 8th Feb 2017.

2. Observing and recording water quality.

We kept using the pool water for 2 months and more.

(1) To Instruct chemical

According to the observed record, rain and over capacity of the customer are factor of the water pollution. If it is rain, algae spore increase in the water and then pool water color become green. And also if around 100 customers get into the pool at once, the pool water color become milky. We usually sprinkle the chlorine 3 times in a week. But if the water quality became deterioration like green and milky it is difficult to improve water quality. We needed to sprinkle with chlorine 5 times at normal amounts. If so we understand that we have to sprinkle with chlorine before water became deterioration to keep the water quality.

(2) To decide the day of the remove water(Deadline)

Sprinkled chemical (cooper sulfate) are accumulated in the pool and also fallen leaves and dust accumulated in the pool because our swimming pool has outside and surrounded by plants. So if the customer swims and walks in the pool the deposition are raised from the floor. It is difficult to avoid the deposition without the circulate system to filter the water. Therefore we decided to remove the pool water.

DATE	Dec	Jan				Feb
Provision	(coopersuphet)	sprinkle chemical chlorine		chlorine		Remove water
Water quality	Green	Clear	Green	Clear	Milky	Clear
						Deposition (chemical/dust)

※Warning of Cooper sulfate

Cooper sulfate is used for cleaning heavily discolored water. But after cleaning the water, cooper sulfate is accumulated on the floor like ash. Cooper is one of the iron. If the iron was ingest into human body it will be never evacuated from human body. I don't know how danger it is for our health. But in 1960's Japan had a pollution disease problem / issue relating to mercury. So we know that iron had a bad effect on our health.

~Next term mission~

We will be able to analysis chlorine lever and pH level at the AMU water quality laboratory. So I hope we are going to get a sure method to control water quality.

3. Making cleaning equipment with scrap fan

~Cause~

There were many fallen leaves and dust accumulated in the pool floor. So we need to remove these dusty.



~Result~

We made two removing dust net using scrap fan and mosquito net. I expect we will be able to improve the water quality through this net.

4. Removing the water

~Our plan~

- ① Remove the water and cleaning swimming pool for one week.
- ② Maintain the part of the broken tile for a few days.
- ③ Apply the chlorine to the tile of the whole swimming pool for prevent algae.
- ④ Flow the additional water in the pool.

~Problem~

- (1) The drainpipe construction had not finished yet. So we could not remove the water soon.
- (2) The water leak from the pipe although the drainpipe completed.

~Solution~

We supported to build the drainpipe line with worker.

~Result~

We completed to make drainpipe soon. So we could began to clean the swimming pool.



~Solution~

We considered that the water leak. So we cleaned the pool as the water drain little by little.

~Result~

We have finished cleaning the swimming pool.

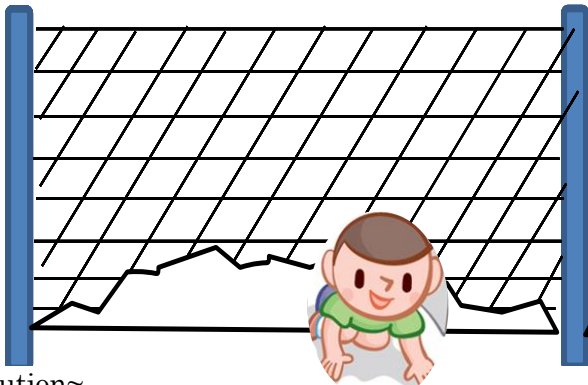
※But the maintenance was delayed. So we did not apply the chlorine to the tile.



6. Repairing the fence

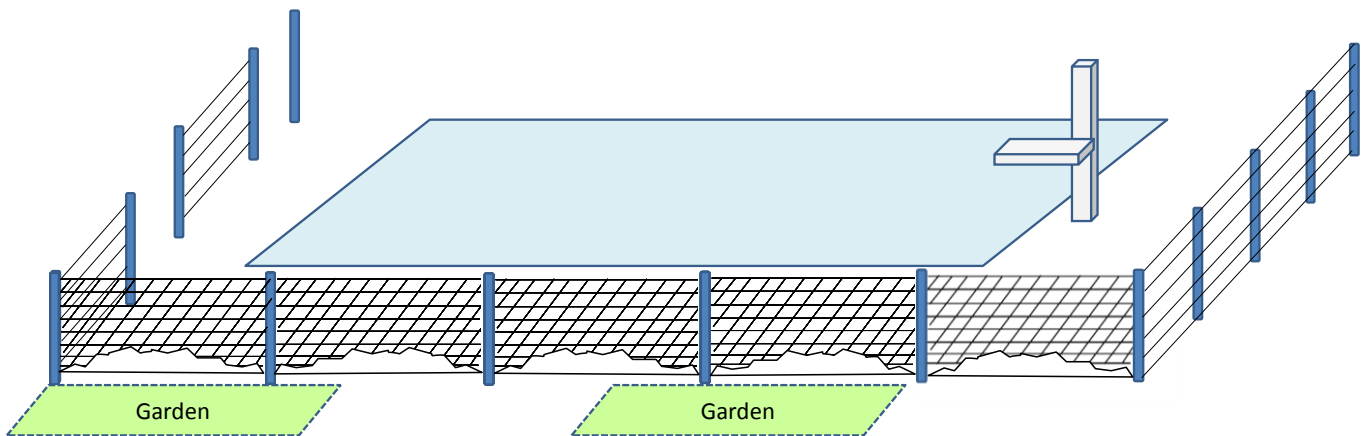
~Cause~

Before 2 months, three children entered into the swimming pool from the broken fence after most of worker went back home. Fortunately, I was there. So I admonished the children to get out from the swimming pool. If I were not there, the children would be drowned in the pool.



~Solution~

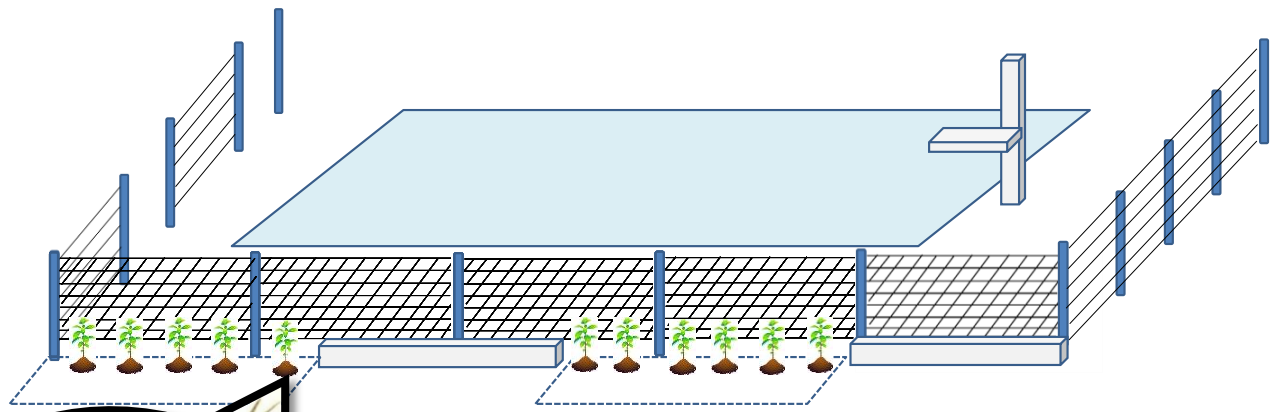
At first I asked Gymnasium security guard to watch the invader more carefully. But only this solution is not enough to prevent accident. The prime cause of this problem is broken fence. So we were going to repair the fence.



As you can see a problem from the picture, there are many broken parts. So I suggested a plastic bottle brick for repair the fence. When I attended the JICA meeting I got this idea. At that time one of the JICA environmental volunteer presented this idea who was Suzuka Muraoka. She works in environmental education sector in Kaffa. She made flower garden using it as a part of environmental service. I think we also have environmental problem because there are many garbage at the public space in AMU. So I would like to use this idea for not only repairing the fence but also improving the environmental service.



At the beginning, I planned to repair the whole broken fence with plastic bottle brick. But the staff and I discussed how to solve this problem. Mr. Abera also had better idea. It was foresting the plant at the part of garden of these broken fences. So we adopted our idea.



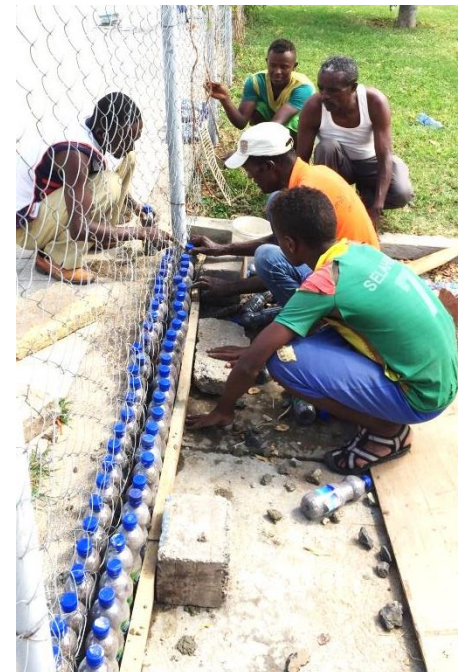
He chose the best type of plants for preventing children going through the broken fence because the plant had stings. I thought we forested the normal plants. So I was surprised. I do not have any reasons to refuse his idea.



Correcting the plastic bottle
We could correct three hundred plastic bottles for two hours in AMU.



Making plastic bottle bricks
At this time we packed gravel in the bottle.



Repairing the broken part
We set up the bottle bricks at the broken fence and attached the part of the broken fence from both sides.

~Result~

We did not need any cost but we could repair these fences by plastic bottle brick and plants. And then we succeeded in not only solving problem but also reusing three hundred plastic bottle garbage.



~Problem~

- (1) Most of plants which we planted were withered by strong sunshine
- (2) We found the additional broken fence around the swimming pool

~Next approach~

- (1) We will try to forest plants again. And then we will grow sapling with plastic bottle pot. After growth we are going to forest there.
- (2) We are going to repair the additional part of fence with plastic bottle bricks.

