



Aqua-Farms Organization

Annual report

2017/18



ENVIRONMENTAL
FRIENDLY
AQUACULTURE AND
SUSTAINABLE
FISHERIES

ABOUT US

Aqua-Farms Organization was registered on July 2017 under NGO Act No. 24 of 2002 with 13 founding members who came together with the aim of ensuring development and food security is achieved through environmental friendly aquaculture and rebuild-ed fisheries.

VISION

we envision is to be an excellent Organization in replenishing aquatic resources with community based conservation and sustainable aquaculture.

Mission

To enhance food access and income generation to community through research, trainings, workshops and collaboration



What we do!

1. we promote environmental friendly and economic competitive aquaculture;
2. we support conservation of aquatic environment and stock enhancement;
3. we support research on sustainable exploitation of aquatic resources and aquaculture;
4. we improve community health of the lacustrine and coastal communities;
5. we empower youth and women in utilization of aquatic resources and aquaculture.



AQUA- FARMS ORGANIZATION STRUCTURE

General Assembly

Board Members

Advisors and Mentors

Chair Person

General Secretary

Treasurer

Director

Administrator

*Communication and
Dissemination
Officer*

*Research and
Programm
Development officer*

Accountant

Technical Staff

OUR ENGAGEMENT PROGRAMMES

2017-2018



COMMUNITY BASED MANGROVE RESTORATION

Rise in sea level and climatic change accounts for other natural threats contributed to mangrove degradation. In 1980, remote sensing technology revealed that coastal forest of Tanzania was covered by an area of about 6724.86 Km². The area was reduced to 6336.77 Km² in 1990, with approximate loss of 388.09 Km² in a decade (FAO 2007). With this Aqua-Farms Organization in collaboration with Rotary club UDSM Mlimani, community groups of Wanawake Mbweni BMU Kunduchi and Mbweni have together been able to restore 12,000 mangroves seedling since May/June 2017. Alongside with the organization has capacity build the communities and their potential in restoration of these essential habitats, and development of a single aim approach from community CBOs

AQUACULTURE PROGRAMMES



As the capture fisheries is declining, fish farming becomes the most main source of protein globally. As it serves the the hunger problem it provides economic alternatives where improved livelihood are seen. With this potential since 2017 we have trained 400 personnel on the entrepreneurial opportunity available from fish farming, along with that we have trained 40 fish farmers of feed formulation and fish nutrition for better harvest. Established a temporary demonstration pond for training. Upon extension of the project self sustaining demo aquaculture systems will be established

OUR ENGAGEMENT PROGRAMMES

2017-2018



FISHERIES EXTENSION RESEARCHS

Through research, we get answers of understudied issues in fisheries, aquaculture and aquatic sciences at large, Since 2017, the organization has been able to establish scientific and socio-economic research in collaboration with stakeholders such as University of Dar es Salaam, being sub contracted to undertake filed supervision for quality adherence!

RESEARCHS



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OUR ENGAGEMENT PROGRAMMES

2017-2018

SAVE OUR OCEAN FROM PLASTIC POLLUTION PROGRAMME

"With a great increase in anthropocentric activists plastic production and improper dumping has resulted t increased threat from plastic pollution, through various stakeholder including a close participation of the local community, Aqua-Farms Organization conducts beach and riverine cleaning activities to reduce the accumulated plastic pollution, but along with that the programme is associated with awareness enhancement to the communities residing these important water bodies. During the course of 207/18, we have conducted 4 cleanups that have involved more than 2000 people. along with that commemorated the world ocean day with a theme Save Our Ocean Refuse Plastics



AQUATIC RESOURCES EDUCATION PROGRAMME

One amongst our organizational objective is to support conservation and management of aquatic environment for sustainability. The organization implements this through continuous Monthly program known as " Aquatic Resources education program" which started on 2017 with secondary school students taking sciences subjects, in order to expose them to wide ranges of career in aquatic environment and ecosystems and ways they could take part in management of these natural resources.



The project expanded to University Students taking water related courses, with aim of enabling them in assessing their own rivers using a rare but cost effective reliable method that uses aquatic invertebrates in determining health status of Tanzanian Rivers aquatic invertebrates in determining health status of Tanzanian Rivers. This is to ensure further management, conservation, sustainability and recommendations.

Our Success story in detailed

Programmes

Conservational programmers

1. Mangrove restoration Kunduchi- Dar es Salaam

As we celebrated the World Environment Day in 2017, Aqua-Farms Organization With aid of cooperation from Beach Management Unit (BMU) at Kunduchi- Dar es Salaam, restored 1000 seedlings of mangroves in areas where were bare lands in the mangrove. On progress the mangroves have responded well also some seeds, alongside with the restoration a community awareness extension serve on the potential of mangroves was done.

2. Aquatic Resources Education Programme- 1000 students 4 schools of Dar es Salaam

The programme aimed at reaching out, train, and share experiences with young scientists in advanced secondary schools by providing them with materials to enhance their understanding and appreciation towards potentiality of aquatic resources. It was carried on in a monthly basis, started from September – May 2018 spreading out opportunities concerning aquatic life so as to take part in protection and proper utilization of the resources for their self-reliance and career development, reaching 1200 students at four schools in Dar es Salaam

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3. Mangrove restoration Mbweni

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4. Save Our Ocean, Plastic Pollution Programme

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close participation of the local community, Aqua-Farms Organization conducts beach and riverine cleaning activities to reduce the accumulated plastic pollution, but along with that the programme is associated with awareness enhancement to the communities residing these important water bodies. During the course of 2017/18, we have conducted 4 cleanups that have involved more than 2000 people. Along with that commemorated the world ocean day with a theme Save Our Ocean Refuse Plastics

Aquaculture Programmes

All services were done for free, following an ordinary meeting sat in August 2017 it was agreed that all services on aquaculture shall be offered for free in the course of the year.

1. 1- Training on Feed formulation and nutrition

As Aquaculture is growing fish feed is a growing challenge that has made many farmer to fail in there venture, by observing this potential AFO in collaboration with Green Aquaculture hosted a training May 2018 at American Corner- Tanzania National Library, where 30 fish farmers and 10 Newbies we trained on Fish feed and nutrition.

2. 2- Trainings of integrated aquaculture

Through the community based economization of Wazo hill Quarry, We have trained 400+ interested participants in different time through 2018, through this we have been able to train military officers, Industrial workers, Community groups around Tegeta- Kinondoni, and University Students

3. Demonstration farm at Wazo Hill Quarry

A temporary demonstrational integrated fish farm was constructed with support from Tanzania Portland Cement Company TPCC, Where the ponds are stocked with tilapia and catfish, alongside associated with a poultry farm and horticulture garden planted with Amaranthas, Pumpkins and Chinese cabbages.

4. Consultancy Services-

As most people need aquaculture service and advice for the year 2017/18 AFO has been doing fish farming consultancy for free, with this we have attended 20 office visit clients, and have assisted 3 clients in fully establishment of aquaculture structures and farm management.

Outreach Programmes

1. On Commemoration of the World Environment Day 2017 3rd– 4th June AFO members participate on the environmental at Kijitonyama grounds. The aim of this outreach was to create awareness to people on environmental friend aquaculture and responsible fisheries. Aqua-Farms booth was visited by 237 attendees
2. On Commemoration of the World Oceans Day 2018, June 8, AFO hosted a summit for Tanzania in collaboration with Western Indian Ocean Early career Scientist Network

(WIOECSN) and Western Indian Ocean Marine Science Association (WIOMSA), the summit was Themed Save the Ocean refuse Plastic. There were 80 attendees at the summit from different universities, Research Institutes, NGO's and WIOECSN Members

Research

Since we organization started we have been featured by supplying technical assistance from our staff to 2 research projects and 1 subcontract as follows;

Technical assistance support;

1. AESA East Africa a study on “Enterprises Survey for the Fisheries sector in the United Republic of Tanzania, Tanzania Mainland and Zanzibar” for the Ministry of Livestock and Fisheries.
2. TAFIRI Responses Of Biological Productivity And Fisheries To Changes In Atmospheric And Oceanographic Conditions In The Upwelling Region Associated With The East African Coastal Current, On the Component of Zooplankton

Sub Contract

1. In collaboration with Seoul Nation University (SNU), University of Dar es Salaam (UDSM) we are conduction a Research study "Adapting to climate change in coastal livelihoods in Ghana, Tanzania, Thailand and the Philippines" Funded by Nation Research Foundation South Korea. The aims of the research are to investigate how coastal communities in developing countries adapt to the impact of climate change challenges and to investigate how Korean and foreign aid agencies can improve their programs and activities to provide solutions in coastal areas in the developing world.

Partners

During our pace of implementing our objectives we have been able to develop partners who we work in cooperation

Organization	Role/ Area of partnership
Rotary Club Mlimani	Partner in mangrove restoration programme, through mission green
University of Dar es Salaam	Research
FIDEC	Fisheries Extension services
Tanzania Forest Services	Partnered in Phase 2 of the mangrove restoration

Capacity building of the team

1. 4 staff attended a workshop on Proposal Write-up and Fundraising, Conducted by geography department University of Dar es Salaam

2. 4 staff participated in International Indian Ocean Capacity building cruise Under International Indian Ocean Expedition 2 for 2017 & 2018
3. 2 staff participated in the Fridjov Nansen cruise on April this 2018.
4. General secretary of Aqua- Farms Organization, attended a 2 month training in International Ocean Institute (IOI) Dalhousie University- Canada
5. Alongside with that we have supported our key staff in attaining there Masters studies to the moment we have 7 with Msc. Scholarship.
 - a. Msc. At University of Dar es Salaam
 - i. Jerry Mang'ena – Food Security- Fish Post Harvest Losses
 - ii. Fadhili Malesa- Marine Science - Aquaculture
 - iii. Nancy Iraba – Marine Science - Mariculture
 - iv. Valeli Joseph- Marine Science – Fisheries
 - b. Msc Abroad
 - i. Cretus Joseph- Msc. Lactustrine and marine science- Universitet
 - ii. John Praygod kimaro – Msc. Marine Science – Zheijang Ocean University- China
 - iii. Edwin Superius – Msc. Marine Science- Zheijang Ocean University- China

Awards

1. Our staff Nancy Iraba won an award Eco Hero- through a programme named Aquatic Resoucrs Education programme (AREP) hosted by Samsung Engineering's Tunza eco generation
2. Nomination; Fadhili Malesa, Jerry Mang'ena and Alex are in Quarry Life Awards 2018 with a project named Community Based Economization Of Rehabilitated Fish Ponds At Wazo Hill Quarry the project involves community based entrepreneurship through integrated fish farming in wazo hill (COBEF) by using existed rehabilitated quarry pits.

OUR TEAM

ADVISORY COMMITTEE

Dr. Lulu Tunu Kaaya

Fresh water Ecologist &
Director of Internationalization UDSM

Dr. Blandian Lugendo

Marine Biologist

Dr. Siajali Pamba

Physical oceanographer

Administration staff

Mr. Jerry Mang'ena

Director & Chairman

Mr. Cretus Mtonga

Executive Secretary

Mr. Valeli Joseph

Treasurer

Ms. Nancy Iraba

Communication and Dissemination
Manager

Mr. Fadhili Malesa

Research & programme development
manager

Technical Staff

Mr. Edwin Superius

Mr. John Kimaro

Mr. Alex Mafuru

Ms. Prisca Issangya

Ms. Elizabeth Meta

Mr. Mbonea Assery



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OUR GALLERY

Aqua-Farms Organization

A group photo at the World Ocean Day. At the middle is a Director General of NIMR Prof. Yunus Mgaya, to his right Director of Sea Sense Miss Lindsey West, Lecturer University of Dodoma Mr. Bahati Mayoma and Mr. Jerry Mang'ena, Director of AFO, to the right from the center is Dr. Daniel Shila, Head of department aquatic sciences and fisheries, Edward Senkondo General Secretary WIOECSN



Seminar on modern fish farmin

A TALK ON MODERN FISH FARMING; At Best Western Peninsula Hotel, Dar es Salaam to Rotary club Dar North



Mangroves restoration

A group photo after the activity. About 2000 seedlings of mangroves planted in an effort of restoring the lost mangrove ecosystem, March 2018.



Exhibition

Exhibition during the World Environment Day 2017.

Training on the potential of aquatic resources

At Kisutu ngirls secondary school in Dar es Salaam



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