Spire USA Inc.

"where hope transmutes into reality"

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ABCDE
Aquaculture/Agriculture Based Community Development Export City Program

Backyard Applied Macrobiotic Module (BAMM™) Technology Operated

Highlights of the Project

- **NO OF BENEFICIARIES: *2500 FAMILIES.***
- **MONTHLY REVENUE: *USD $2850.00.***
- **EMPLOYMENT: *MINIMUM TWO PERSONS OF THE FAMILY.***

OTHER BENEFITS:

- **FREE WATER.**
- **FREE ELECTRICITY.**
- **VEGETABLES.**
- **FISH.**
- **TRAINING TO MANAGE THE SELF EMPLOYMENT.**
- **FREE TECHNICAL SUPPORT 24/7 BASIS.**
- **NO FERTILIZER FOR VEGETABLES PRODUCTION.**
- **NO TRANSPORT COST TO SELL PRODUCT. (BUY-BACK AGREEMENT)**
- **INVESTMENT FOR BENEFICIARY: NO INVESTMENT.**
- **MARKETING OF FISH/VEGETABLES: BUY-BACK AGREEMENT TO BUY PRODUCE AT DOORSTEP.**

WHAT IS Backyard Applied Macrobiotic Module – BAMM™?

A BACKYARD UNIT OF 6X6 M2 FOOTPRINT THAT CONSISTS OF THE FOLLOWING -

FOUR 12,000 LITRE TANKS & ONE 5000 LITER TANK.

BIOFLOC REACTOR.

VEGETABLE GROW BEDS.

SOLAR POWERED BORE HOLE WATER PUMP.

SOLAR POWER GENERATION UNIT WITH INVERTERS.

ACCESSORIES, AERATORS, AIR PUMPS, OXYGENATORS, SENSORS & MONITORING EQUIPMENT.

WHAT DOES Backyard Applied Macrobiotic Module – BAMM™ PRODUCE?

100 KILOS OF TILAPIA FISH PER MONTH.

800 KILOS OF VEGETABLES PER MONTH.

5000 LITERS OF WATER. (DEPENDANT ON THE UNDERGROUND WATERBED OF THE LOCATION)

ELECTRICITY (TO BURN 5 X75 WATTS BULBS FOR 5 HOURS EVERYDAY)

AFTER 1ST FOUR MONTHS PRODUCTION OF FISH/VEGETABLES ON WEEKLY/MONTHLY BASIS.

EMPLOYMENT OPPORTUNITIES?

Direct Approximate Employment from 2500 families =

6000

Additional Approximate Employment within Export City =

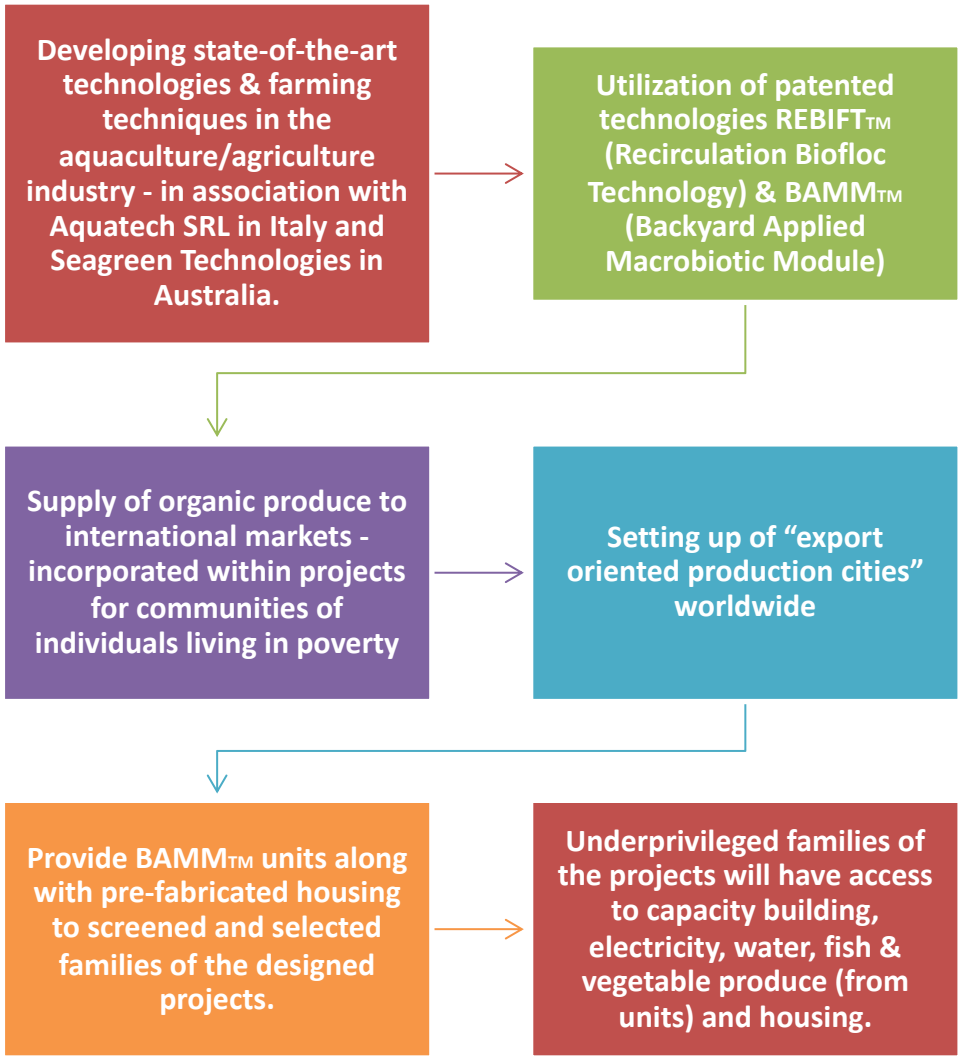
500

Total Approximate Employment =

6500

FREE TRAINING PROVIDED.

What we do…


Developing state-of-the-art technologies & farming techniques in the aquaculture/agriculture industry - in association with Aquatech SRL in Italy and Seagreen Technologies in Australia.
Utilization of patented technologies REBIFT™ (Recirculation Biofloc Technology) & BAMM™ (Backyard Applied Macrobiotic Module)
Supply of organic produce to international markets - incorporated within projects for communities of individuals living in poverty
Setting up of "export oriented production cities" worldwide
Provide BAMM™ units along with pre-fabricated housing to screened and selected families of the designed projects.
Underprivileged families of the projects will have access to capacity building, electricity, water, fish & vegetable produce (from units) and housing.

Community Development Project

The *ABCDE City Project* meets

17/17

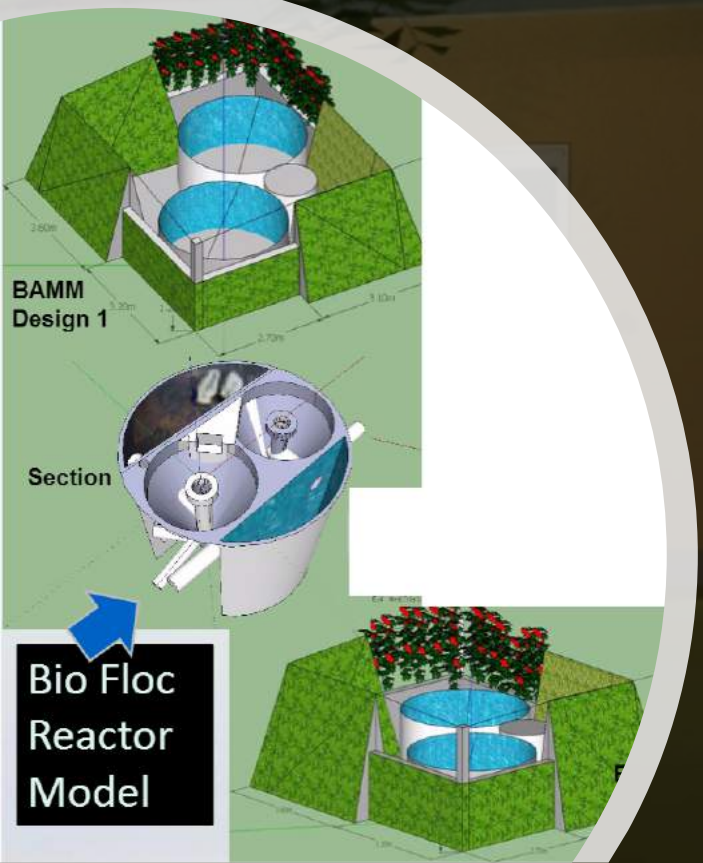
of the Sustainable Development Goals

Community Development Project

Amenities within the gated community development project site:

- A vocational training and educational center
- A recreational club with an auditorium
- A daycare center and a primary school
- Medium sized supermarket
- A Bank Branch
- A center for religious activities
- Primary health care unit with medical supplies
- Security and project office
- A hatchery
- A fish feed mill
- A seedlings nursery
- Vegetable and fish processing plant along with a cold room
- Logistics office to provide transportation within the project site
- Roads and public safety features

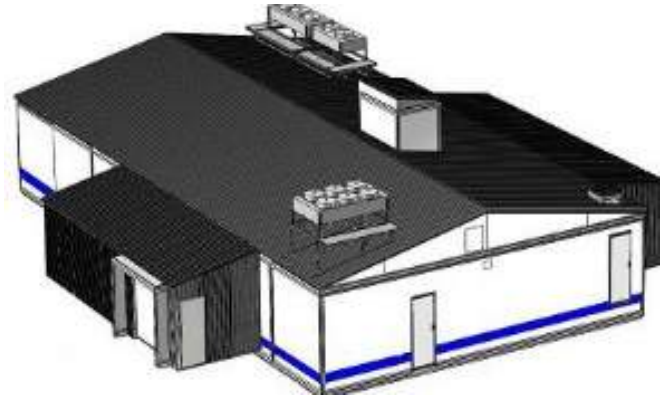
What is the Project City Comprised Of?



2500 BAMM™ Units & Houses

Pre-Fabricated Housing

Community Recreation/Education/Training Centre



Processing Plant, Hatchery, Feed Mill, Seedlings Nursery

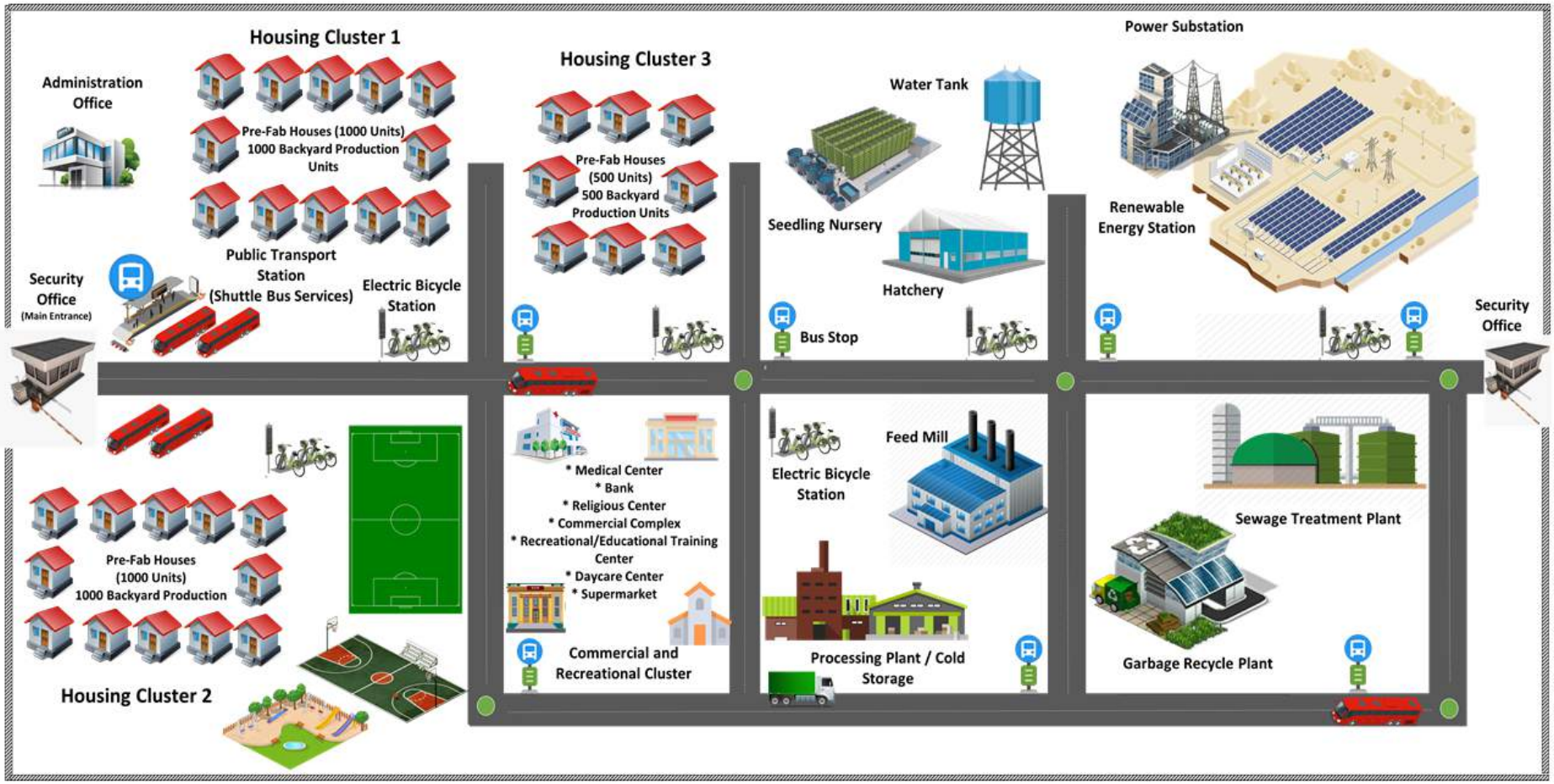
Day Care Centre

Garbage Recycle Plant

Sewerage

Security Offices

Sample of Export City Layout



List/Key of Features in Project City – Within 607,000 M2

- Admin Office
- Security Office (2)
- BAMM Houses & Units (2500)
- Community Recreation/Education/Training Center
- Park/Playground
- Bank
- Medical Centre
- Centre for Religious Activities
- Commercial Complex
- Supermarket
- Daycare Centre
- Solar Power Plant
- Water Tower
- Processing Plant
- Hatchery
- Fish Feed Mill
- Seedlings Nursery
- Sewerage
- Garbage Recycle Plant

**Total Area of 300,000 M2 @ 120 M2 Required for Each House + BAMM Unit*

***Rest of the Land Space I.E. 307,000 M2 is Allocated for All Other Buildings/Amenities*


FOOD FIRST WITH
"BAMM™"
BACKYARD APPLIED MACROBIOTIC MODULE™
SELF-SUFFICIENCY
&
SELF-EMPLOYMENT
THROUGH
AQUACULTURE & AGRICULTURE

THIS IS TRULY A BACKYARD SYSTEM

WHAT DOES IT DO FOR A FAMILY?

IT PROVIDES:




***ELECTRICITY*: 500 Watt standalone solar unit.**

***WATER*: 20,000 liters initially, & 5000 liters per day.**

***FISH*: 100 Kilos per month.**

***VEGETABLES*: 800 Kilos per month.**

WHAT IS *"BAMM™"* BACKYARD APPLIED MACROBIOTIC MODULE?

A SYSTEM THAT:

- HAS 02 TANKS + 01 BIO-FLOC REACTOR
- CAN HOLD 1200 FISH FINGERLINGS

  (TILAPIA – CATFISH or BARRAMUNDI)
- INCORPORATES VEGETABLE GROW BEDS.
- REQUIRES NO SOIL AND NO FERTILIZER.

HOW DOES *"BAMM™"* WORK?

- THE SYSTEM IS POWERED BY A SOLAR UNIT.
- SOLAR SYSTEM POWERS A BORE HOLE WATER PUMP TO SUPPLY WATER AND ELECTRICITY REQUIRED FOR THE SYSTEM TO RUN.
- EXCESS ELECTRICITY AND WATER ARE BEING USED FOR HOUSEHOLD DAILY NEEDS.
- WHEN THE FISH ARE BEING FED, THE FISH WASTE IS DRAINED THROUGH THE BIO-FLOC REACTOR TO VEGETABLE BEDS FEEDING THE PLANTS WITH NUTRITION FROM FISH TANKS AND THEN FILTERED WATER IS CIRCULATED BACK TO THE FISH TANK WHERE FISH WILL BREED COMFORTABLY.

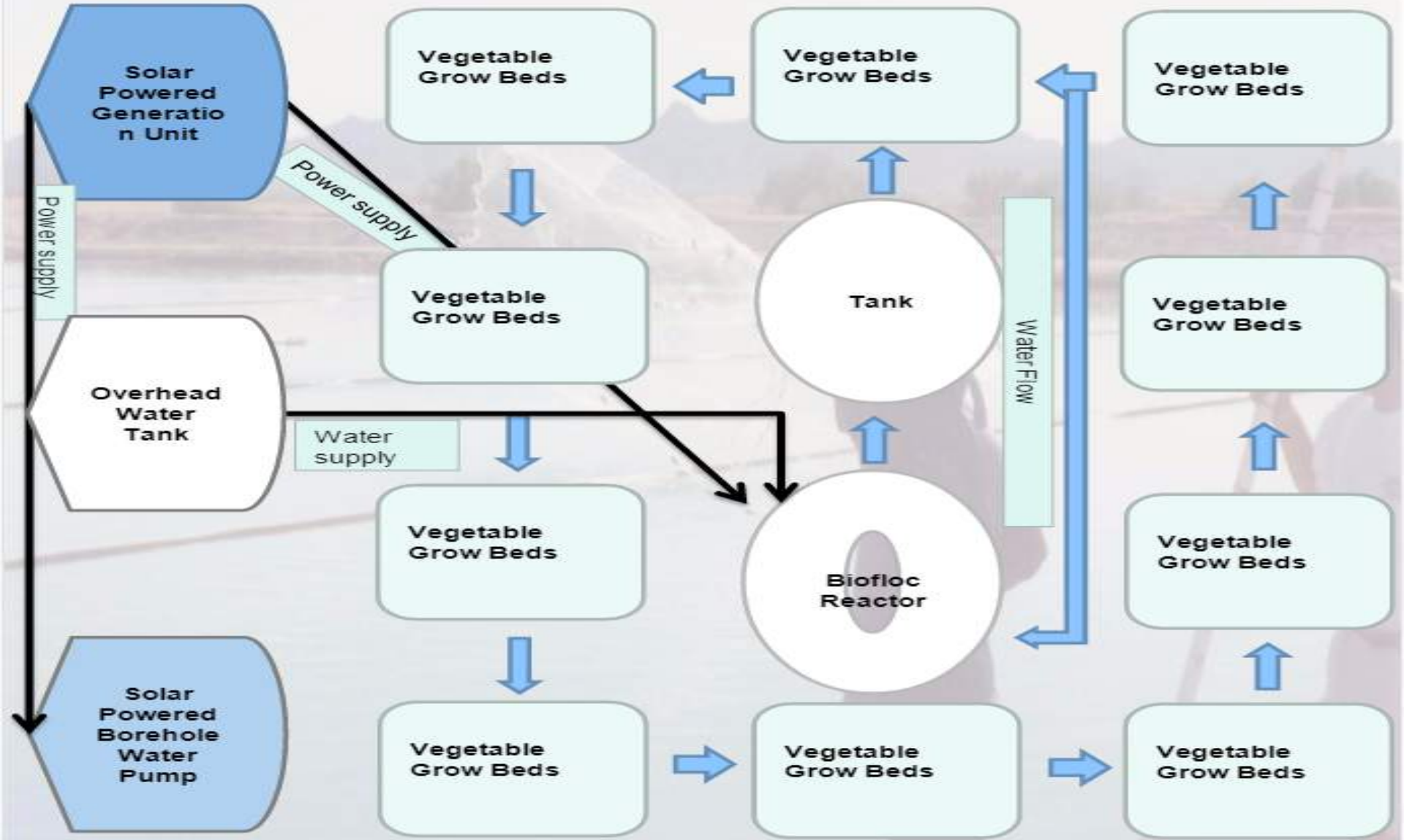
Major benefits of BAMM™ food production:

- **Sustainable and intensive food production system.**
- **Two agricultural products (fish and vegetables) are produced from one nitrogen source (fish food) in a symbiotic system.**
- **Extremely water-efficient.**
- **Does not require soil.**
- **Does not use fertilizers or chemical pesticides.**
- **Higher yields and qualitative production.**
- **Organic production system.**
- **Higher level of biosecurity and lower risks from outer contaminants.**
- **Higher control on production leading to lower losses.**
- **Can be used on non-arable land such as deserts, degraded soil or salty, sandy islands.**
- **Creates little waste.**
- **Daily tasks, harvesting and planting are labour-saving and therefore can include all genders and ages. System somewhat automated. Remote-controlled feeding system + automatic water quality monitoring system**
- **Economical production of cash crops in many locations.**

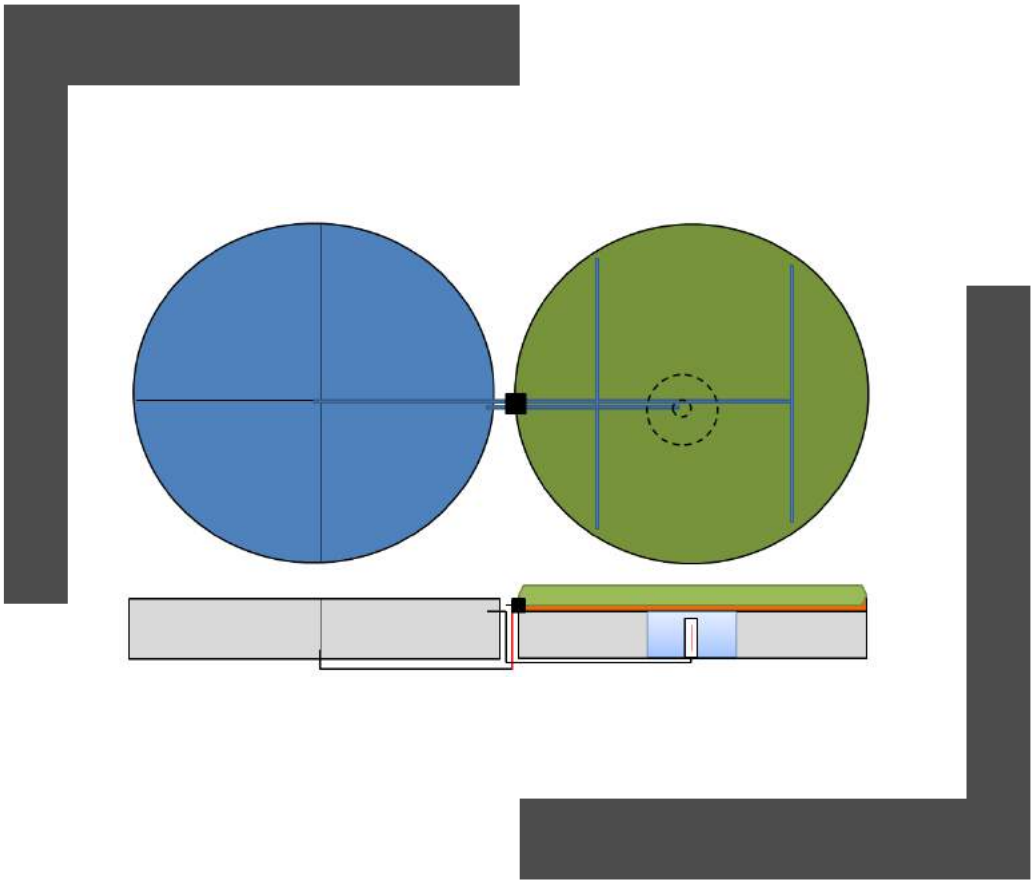
IS THIS A SUSTAINABLE SYSTEM?

- ANYTHING THAT ADDS TO AND IS IN COORDINATION WITH NATURE IS SUSTAINABLE - THIS SYSTEM EMPLOYS AND INCORPORATES WHAT NATURE PROVIDES WITHIN A SYMBIOTIC ECO-SYSTEM.
- NO CHEMICAL IS USED FOR VEGETABLE PLANTATIONS HENCE THE ENTIRE PRODUCTION IS CERTIFIED “ORGANIC”.
- THERE IS NO CARBON EMISSION OF THE PRODUCTION THEREFORE IT IS ENVIRONMENTALLY FRIENDLY.

Project Design

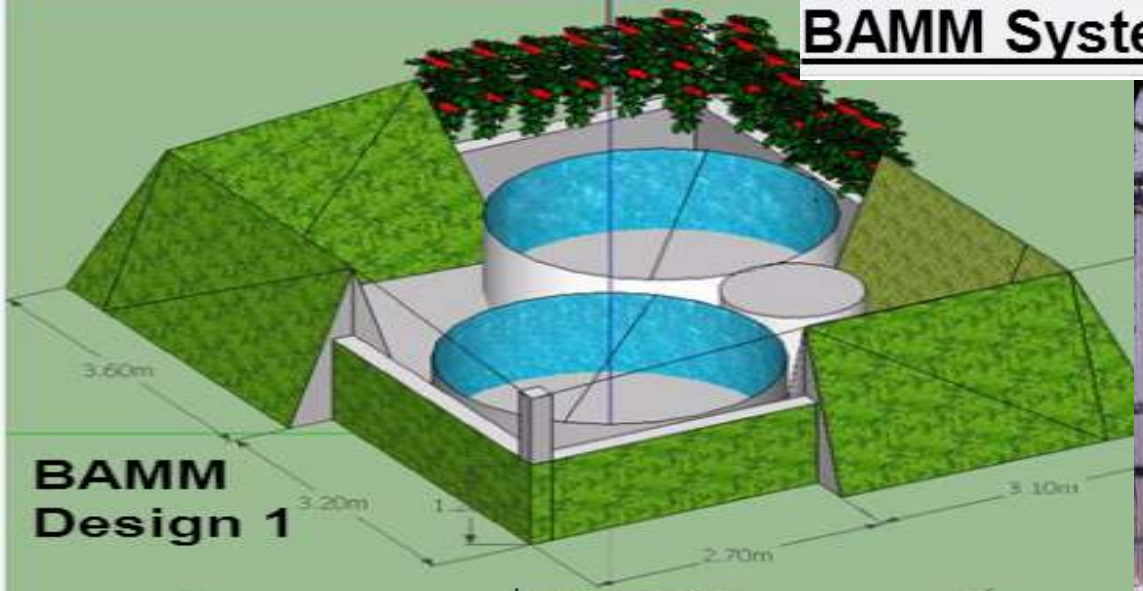


WHAT FOOTPRINT IS REQUIRED FOR BACKYARD APPLIED MACROBIOTIC MODULE™?



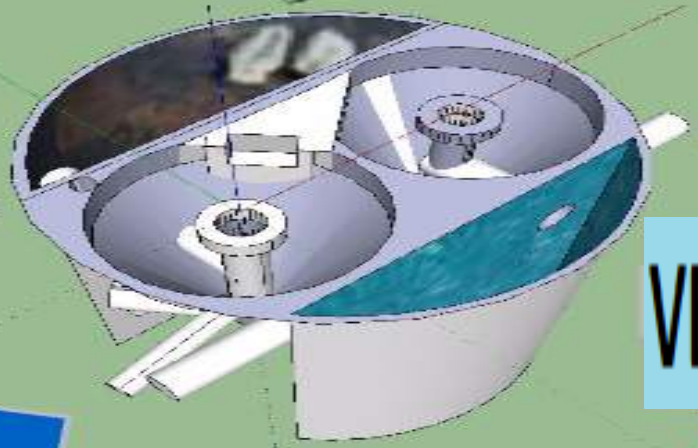
A 6 M X 6 M (36 m2) OPEN OR CLOSED AREA IS REQUIRED.

BAMM System & Technology Overview



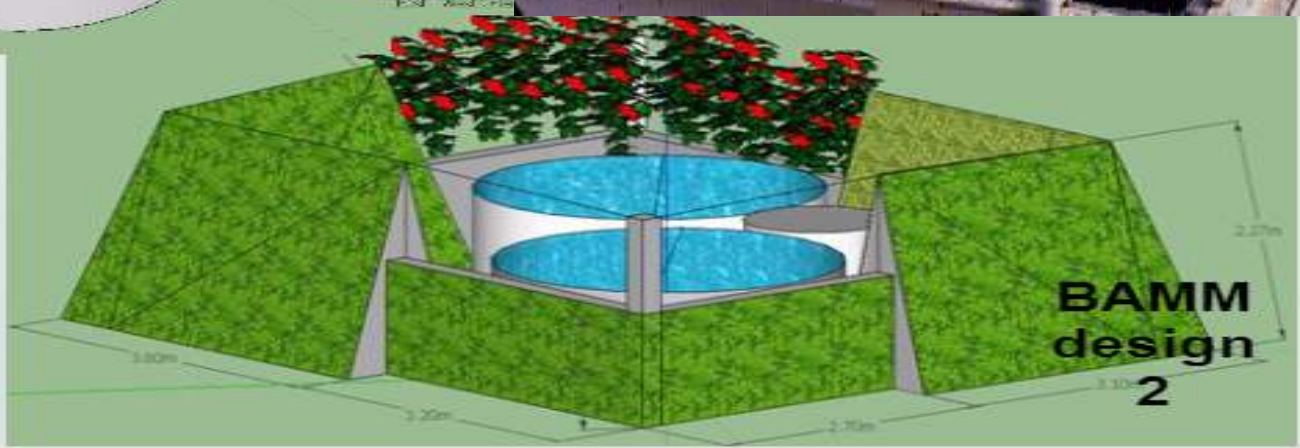
BAMM Design 1

Section



VEGETABLE GROW BEDS

Bio Floc Reactor Model



BAMM design 2

HOW DOES THE SYSTEM PRODUCE 100 KILOS OF FISH/MONTH?

STOCKING DENSITY: 60/m3

60/5m3= 300 fingerlings -25% mortality rate = 225 fingerlings x 450 grams = 101

VOLUME OF WATER IN ONE TANK: 12,000 liters

FEEDING RATE: 0.75% of body weight maximum.

MORTALITY: 25%

Assumptions:		Description & Comments:	2500
	3,000	*50gm Fingerlings Per Yr (Ex Hatchery @ 375# x 8/ yr)*	7,500,000
$	0.14	*~Approx USD/ 50 gm Fingerling*	$ 0.14
$	420.00	*$USD Cost Fingerlings/ Yr*	**$ 1,050,000.00**
		Tank Stocking Demand (42 day intervals)	937,500
		Quarterly Annual Demand	1,875,000
		Weekly Demand	144,231
	89%	*Survival Rate per Yr*	89%
	1200	*Kg Fish Biomass Harvest per Yr*	3000000
	0.45	*Kg Avg Biomass / Fish*	0.45
	2667	*Avg # Fish Harvested per Yr*	6,666,667
	1.33	*Feed Conversion Ratio (FCR - Estimated)*	1.33
	1596	*Kg Feed utilised per Yr*	3990000
$	0.50	***Cost Estimate $USD/ Kg Feed***	**$ 1,995,000.00**
	33%	*Kg - Fillet Yield (Tilapia)*	990000
$	1.40	***Avg Whole Revenue $/Kg Market Price $USD***	**$ 4,200,000.00**
$	4.24	***Avg Fillet Revenue $/Kg Market Price $USD***	**$ 4,200,000.00**
$	27.30	***USD $/Kg @ UK RRP Fillet (Waitrose @ $4.49GBP/ 200gm)***	**$ 27,027,000.00**
	6	***m2 Footprint per system - Fish Production***	**15000**
$	280.00	***$USD Revenue/ m2 Footprint - Fish Production***	**$ 280.00**
	36	***m2 Footprint per system - Total Production System***	**90000**
	200	***Kg- Fish Yield/m2 Footprint per Year***	**200**
	2,000,000	***Kg- Fish Yield/Hectare Equivalent Hectare Footprint per Year***	

HOW DOES THE SYSTEM PRODUCE 800 KILOS OF VEGETABLES/MONTH?

LAND = 6M X 6M FOOTPRINT CONSISTING OF 10 A FRAME VEGETABLE BEDS PLUS VEGETABLES BEDS EMBEDDED ON ALL 4 WALLS: 36x4 = 144 plus 10 A-frames (4x3) = 120 = total 264 m2

Traditional Farming vs BAMM

	Traditional farming	BAMM
Eggplants	• 36m2 Yield = 144 Plants ≥ 720kg	• 36m2 Yield = 1,000 Plants ≥ 5,000kg*
Iceberg Lettuce	• 36m2 Yield = 1,400 Heads ≥ 140kg	• 36m2 Yield = 10,000 Heads ≥ 1,000kg
Tomatoes	• 36m2 Yield = 40 Plants ≥ 150kg	• 36m2 Yield = 315 Plants ≥ 1,100kg
Bell Peppers	• 36m2 Yield = 230 Transplants ≥ 115kg	• 36m2 Yield = 1700 Transplants ≥ 800kg

*Refer to slide 51

Assumptions:	Description & Comments:	2500
2400	~ Avg Plants # per System - Mixed Crop	6,000,000
187	Estimate KG Yield - Greens / Month	467500
2244	Estimate KG Yield - Greens per Yr	5610000
520	Estimate KG Yield - Micro/ Herbs/ Month	1300000
6240	Estimate KG Yield - Micro/ Herbs/ Yr	15600000
156	Estimate KG Yield - Fruiting Crops/ Month	390000
1872	Estimate KG Yield - Fruiting Crops/ Yr	4680000
863	Estimate KG Yield - Month	2,157,500
10356	Estimate KG Yield - Yr	25,890,000
$ 2.00	Avg Revenue $ / Kg Plant production $USD	$ 51,780,000.00
	Total Revenue: $/kg USD per Yr	$ 55,980,000.00
	USD Total Revenue/ m2 Footprint:	$ 622.00
30	m2 Footprint per system - Plant Production	75000
$ 690.40	$USD Revenue/ m2 Footprint - Plant Production	$ 690.40
36	m2 Footprint per system - Total Production System	90000
345	Kg - Plant Crop Yield / m2 Footprint per Year	345
3,452,000	Kg - Plant Crop Yield / Equivalent Hectare Footprint per Year	

HOW MUCH REVENUE IS EXPECTED FROM THE MONTHLY OUTPUT?

- 100 KILOS OF FISH WILL HAVE A MARKET PRICE OF US$ 450.00 per month.
- 800 KILOS OF ALL THE VEGETABLES IN ASSORTED FORM WILL HAVE AN AVERAGE MARKET VALUE OF US$ 2400.00 per month.
- ***TOTAL MONTHLY REVENUE:***

  US$: 2850.00.

SHOULD A FAMILY OF FIVE PERSONS CONSUME 30 KILOS OF FISH AND 100 KILOS OF VEGETABLES PER MONTH –

70 KILOS OF FISH AND 700 KILOS OF VEGETABLES FOR SALE SHALL REMAIN

LEADING TO A COMBINED TAX-FREE REVENUE OF **US$2415.00 PER MONTH.**

CASH FLOW

2500 units program	
Assumptions:	US$
Price of Live Tilapia Fish per kilo ex-farm (Aquatech buying price)	4.50
Price of assorted vegetables ex-farm (Aquatech buying price)	3.00
Kilo of Fish Feed	0.21
One piece of fish fingerlings	0.10
Price of assorted vegetable seedlings	0.0625
Kilos of fish per BAMM P/Mo	100.00 kgs
Kilos of assorted vegetables per BAMM p/Mo	800.00 kgs
Self- consumption quantity fish p/mo kgs	10.00 kgs
Self- consumption quantity Vegetables p/mo kgs	60.00 kgs
FCR	.80>1.00
Quantity feed required for 100 kgs	80.00 kgs
Stoking density per tank of 3000 liters p/mo	300.00 pcs
Insurance cost on Value	1.50%
Savings (Mandatory)	2.50%
Loan repayment (Deducted when buying the produce by Aquatech)	65.00%
Interest per annum	6.00%
BAMM Unit + prefab house value IN US$	US$ 38,800.00
Total Project cost for 2500 prefab houses + BAMM units	US$97,000,000.00
Revenue	US$
Live Fish	US$ 450.00
Fresh Vegetables	US$ 2400.00
	US$ 2850.00
Operational Expenses:	
Fish feed	17.50
Vegetable seedlings	50.00
Fish fingerlings	28.00

Salaries	312.00
Self- Consumption:	
Cost of Fish	45.00
Cost of Vegetables	180.00
	633.12
Administrative Expenses:	
Insurance 1.5% of stock value	42.75
Interest	147.50
Savings	71.25
Communication	0.32
Maintenance	0.32
Loan repayment	1852.50
	2114.65
Grand total of expenses	2747.75
Balance per month cash on hand to continue purchase of feed etc	102.25
# of months to recoup the investment	24
At the end of each calendar month benefits	
for the BAMM operator:	
Value of food	
Fish	45.00
Vegetables	180.00
Salary	312.50
Mandatory saving	71.25
Cash on Hand for continuation of purchases etc	102.25
Total gross revenue	711.00

WHEN COULD THE FIRST HARVEST OF FISH AND VEGETABLE BE EXPECTED?

FIRST HARVEST DEPENDS ON THE SPECIES OF FISH AND VEGETABLES, HOWEVER, AT THE MOST IN 04 MONTHS TIME THE MONTHLY HARVESTS OF FISH AND VEGETABLES SHOULD BE POSSIBLE CONTINUING FOR EVERY MONTH OF THE YEAR THEREAFTER.

WHAT SPECIES OF FISH?

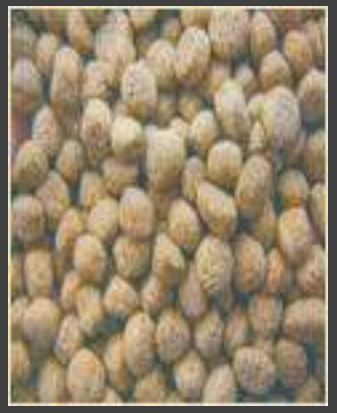
- TILAPIA
- BARRAMUNDI
- CAT FISH
- OTHER FRESHWATER SPECIES OF FISH

HOW DO WE FEED THE FISH?

FISH CAN BE FED WITH USUAL FISH FEED AVAILABLE IN THE MARKET (25% - 50% REDUCED FCR)

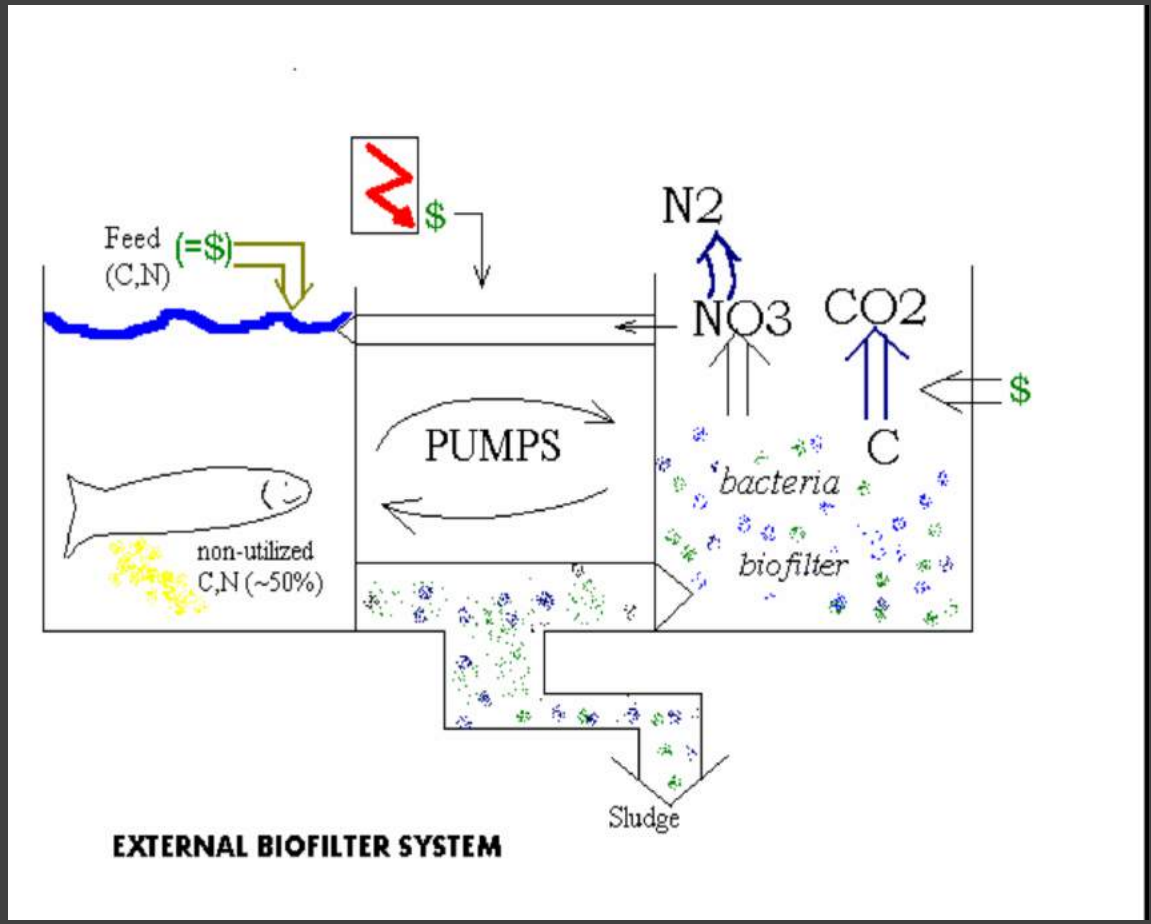
HOW DO WE FERTILIZE THE VEGETABLE?

VEGETABLE BEDS REQUIRE NO FERTILIZER AS THE WATER FROM FISH TANKS THROUGH BIO-FLOC REACTOR CARRIES CONTROLLED & SUFFICIENT NUTRIENTS.



WHAT IS BFT?

- LIMITS WATER EXCHANGE
- ORGANIC RESIDUES ACCUMULATE
- MIXES AND AERATES
- IDEAL CONDITIONS FOR BACTERIA
- BACTERIA CONTROLS WATER QUALITY
- FISH EAT BACTERIA
- FEED IS RECYCLED



BFT Composition

Table 5 Biochemical composition (dry weight basis) of biofloc in different treatments and control (means ± SE, $n = 9$)

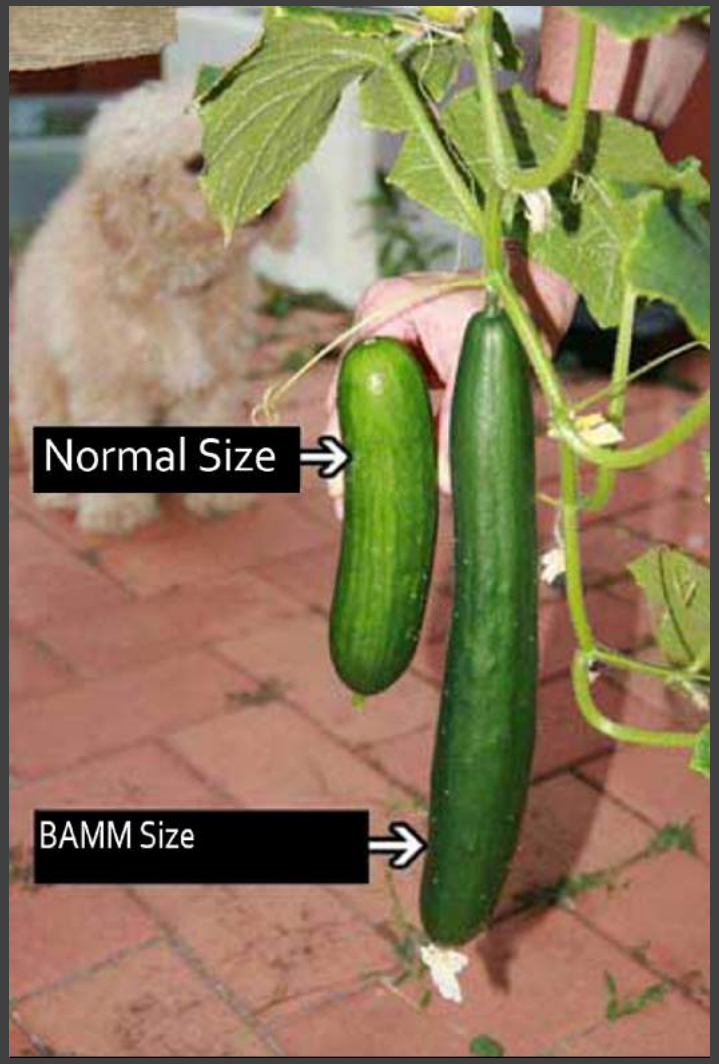
Parameter (mg kg^{-1})	Control	Treatment		
		BFT_S	BFT_T	BFT_W
Iron	4918.33 ± 69.17^{b}	4417.33 ± 45.04^{c}	11200 ± 179.50^{a}	4479 ± 204.86^{bc}
Zinc	161.5 ± 0.43^{b}	146.2 ± 0.40^{c}	200.77 ± 0.26^{a}	200.63 ± 0.58^{a}
Magnesium	3537 ± 7.77^{d}	7315 ± 61.582^{b}	6302.33 ± 10.14^{c}	12300 ± 124.23^{a}
Potassium	5773.87 ± 60.84^{c}	6162.7 ± 75.51^{b}	6057.21 ± 66.93^{b}	7982.96 ± 58.83^{a}
Phosphorous*	14 ± 2.00^{b}	23.8 ± 1.20^{ab}	27 ± 3.0^{a}	31.5 ± 3.50^{a}
Calcium*	18.9 ± 1.04^{c}	23.9 ± 3.78^{b}	37.1 ± 3.66^{a}	22.7 ± 2.070^{b}
Sodium*	15.45 ± 2.73^{b}	16.52 ± 1.91^{a}	15.71 ± 1.81^{b}	16.81 ± 1.82^{a}

Plants grown in BAMM™ vs. in Soil

Summary table comparing soil-based and soil-less plant production

Category		Soil-based	Soil-less
Production	Yield	Variable, depending on soil characteristics and management.	Very high with dense crop production.
	Production quality	Dependent on soil characteristics and management. Products can be of lower quality due to inadequate fertilization/ treatments.	Full control over delivery of appropriate nutrients at different plant growth stages. Removal of environmental, biotic and abiotic factors that impair plant growth in soil (soil structure, soil chemistry, pathogens, pests).
	Sanitation	Risk of contamination due to use of low quality water and/or use of contaminated organic matter as fertilizer.	Minimal risk of contamination for human health.
Nutrition	Nutrient delivery	High variability depending on the soil characteristics and structure. Difficult to control the levels of nutrients at the root zone.	Real time control of nutrients and pH to plants at the root zone. Homogeneous and accurate supply of nutrients according to plants' growth stages. Needs monitoring and expertise.
	Nutrient use efficiency	Fertilizers widely distributed with minimum control of nutrients according to growth stage. Potentially high nutrient loss due to leaching and runoff.	Minimal amount used. Uniform distribution and real time adjustable flow of nutrients. No leaching.
Water use	System efficiency	Very sensitive to soil characteristics, possible water stress in plants, high dispersal of nutrients.	Maximized, all water loss can be avoided. Supply of water can be fully controlled by sensors. No labour costs for watering, but higher investment.
	Salinity	Susceptible to salt build up, depending on soil and water characteristics. Flushing salt out uses large amounts of water.	Depends on soil and water characteristics. Can use saline water, but needs salt flush-out that requires higher volumes of water.
Management	Labour and equipment	Standard, but machines are needed for soil treatment (ploughing) and harvesting which rely on fossil fuels. More manpower needed for operations.	Expertise and daily monitoring using relatively costly equipment are both essential. High initial set-up costs. Simpler handling operations for harvest.

Plants grown in BAMM™ vs. in Soil



Our BAMM™ A Frames

Our BAMM™ A Frames & Walls

Swiss chard (*Beta* sp.) suspended on a polystyrene raft in a deep water culture canal

A nutrient film technique unit using vertical space

Our BAMM™ A Frames & Walls

Our BAMM™ A Frames & Walls

HOW DOES THE SYSTEM PRODUCE 800 KILOS OF VEGETABLES/MONTH?

LAND = 6M X 6M FOOTPRINT CONSISTING OF 10 A FRAME VEGETABLE BEDS PLUS VEGETABLES BEDS EMBEDDED ON ALL 4 WALLS.

WHAT KIND OF VEGETABLES?

- SPINACH
- OKRA
- CHILIES
- TOMATOES
- GREEN AMARANTH
- BELL PEPPERS
- BROCCOLI
- EGGPLANT
- CHINESE PAKCHOI.
- & various additional Herbs & vegetables…….

BAMM™ Vegetable Varieties

EGGPLANT pH: 5.5–7.0 Plant spacing: 40–60 cm (3–5 plants/m2) Germination time and temperature: 8–10 days; 25–30 °C Growth time: 90–120 days. Light exposure: full sun

Growing eggplant in **BAMM**™ units: Eggplant is a summer fruiting vegetable that grows well in media beds owing to the deep growth of the root systems. **Plants can produce 10–15 fruits for a total yield of 3–7 kg.**

BAMM™ Vegetable Varieties

BASIL pH: 5.5–6.5 Plant spacing: 15–25 cm (8–40 plants/m2) Germination time and temperature: 6–7 days with temperatures at 20–25 °C Growth time: 5–6 weeks. Light exposure: Sunny or slightly sheltered

BAMM™ Vegetable Varieties

CUCUMBERS pH: 5.5–6.5 Plant spacing: 30–60 cm (depending on variety; 2–5 plants/m2) Germination time and temperature: 3–7 days; 20–30 °C Growth time: 55–65 days.Light exposure: full sun

BAMM™ Vegetable Varieties

TOMATO pH: 5.5–6.5 Plant spacing: 40–60 cm (3–5 plants/m2) Germination time and temperature: 4–6 days; 20–30 °C Growth time: 50–70 days till first harvest; fruiting 90–120 days up to 8–10 months (indeterminate varieties). Light exposure: full sun

BAMM™ Vegetable Varieties

PARSELY pH: 6–7 Plant spacing: 15–30 cm (10–15 plants/m2) Germination time and temperature: 8–10 days; 20–25 °C. Growth time: 20–30 days after transplant. Light exposure: full sun

BAMM™ Vegetable Varieties

SWISS CHARD pH: 6–7.5 Plant spacing: 30–30 cm (15–20 plants/m2) Germination time and temperature: 4–5 days; 25–30 °C optimal Growth time: 25–35 days Light exposure: full sun

BAMM™ Vegetable Varieties

BROCCOLI pH: 6–7 Plant spacing: 40–70 cm (3–5 plants/m2) Germination time and temperature: 4–6 days; 25 °C Growth time: 60–100 days from transplant. Light exposure: full sun; can tolerate partial shade but will mature slowly.

BAMM™ Vegetable Varieties

BEANS & PEAS pH: 5.5–7.0 Plant spacing: 10–30 cm dependent on variety (bush varieties 20–40 plants/m2, climbing varieties 10–12 plants/m2) Germination time and temperature: 8–10 days; 21–26 °C Growth time: 50–110 days to reach maturity depending on variety. Light exposure: full sun

High Value **BAMM**™ Crops

Vegetable	USD Value/SF
Cilantro	$ 21.20
Arugula-Roquette	$ 20.92
Green Salad Mix	$ 17.55
Chives	$ 16.40
Dill	$ 16.40
Lettuce	$ 16.20
Tomato, Cherry, small & medium	$ 15.57

DOES A PERSON REQUIRE A PARTICULAR TRAINING?

- YES, A BASIC TRAINING AND A KNOWLEDGE OF AQUACULTURE AND AGRICULTURE, INCLUDING A STRONG APTITUDE TO THE JOB IS NECESSARY.

- WE PROVIDE ON THE JOB TRAINING AS PART OF THE ASSEMBLY OF THE UNIT.

TRAINING OF FARMERS

TRAINING AND CAPACITY BUILDING BY OUR TRAINING TEAM IN-

- EDUCATION OPERATING BAMM SYSTEM
- UNDERSTANDING OF UTILIZING THE APP, BASIC BOOKKEEPING, KNOWLEDGE & COMPETENCE RUNNING A SUCCESSFUL, PROFITABLE INDEPENDENT ENTERPRISE.

THE SMARTPHONE APP

- CONNECTS FARMERS, TECHNICAL TEAM & ADMINISTRATION
- INTEGRATED SYSTEM BRINGING EVERYONE ON ONE PLATFORM FOR:
- TECHNICAL DIFFICULTIES, MALFUNCTIONS, MONITORING FAMILIES/CROPS/FISH/SALES, ETC.
- FUNCTIONS AS A LOGBOOK FOR FARMER TO RECORD ALL ASPECTS OF OPERATION

TECHNICAL SUPPORT

- 24 HOUR TECHNICAL SUPPORT SERVICE THROUGH APP
- ASSISTANCE AND SUPPORT BY ON SITE TEAM IF ISSUES UNSOLVED ONLINE.
- CCTV MONITORING OF EACH FISH & VEG PRODUCTION UNIT

MARKETING

- BUY BACK AGREEMENT BUYS FARMERS EXCESS FISH & VEG PRODUCE AT GUARANTEED PRICE.
- FARMERS GIVEN SEEDS TO PRODUCE VEGETABLES IN ACCORDANCE WITH OUR MARKET RESEARCH & DEMAND.

BAMM™
BACKYARD APPLIED MACROBIOTIC MODULE™

SELF-SUFFICIENCY
&
SELF-EMPLOYMENT

THROUGH
AQUACULTURE & AGRICULTURE