

AQUATRAC

To Monitor the Aqua culture

User Profile

- User Name
- User Email
- Phone (verification needed)
- Address
- City
- State
- Country
- Postal Code
- Website
- Logo

Farm (default screen to this farm)

- Farm Name
- Established Year
- Address
- City
- State
- Postal Code
- Country
- GPS Location

Pond / Tank Details

- Tank Name
- ID (Alpha numeric – 3digit Alphabet)
- Type (Biofloc Round Tank , BioFloc Rectangular, Pond without liner, Pond with liner)
- Diameter – m / Length x breadth
- Height – m
- Water Volume – litre
- Effective Volume – litre
- Material – (PVC , Geomembrane)
- Tank Setup Year
- Tank Setup Cost /tank
- Tank Preparation Days

Measuring Parameters with range

- Temperature (Temp) | Range 24 to 32 degree c
- Dissolved Oxygen (DO)
- Total Dissolved Solids (TDS)
- pH
- Floc
- Ammonia
- Nitrite
- Nitrate
- TAN
- Salinity
- Alkalinity

Seed Supplier Details

- Seed Supplier Name
- Address
- City, State, Country, Postal Code
- Phone
- Email
- Date of Registration
- Item Supplied (Multi select – Tilapia, Mono Sex Tilapia, GIFT, Rohu, RoopChand etc)
- Status – Active / Inactive

Fish Details

- Fish Name
- Stock Density = number / litre
 - Biofloc Round
 - Biofloc Rectangle
 - Pond without liner
 - Pond with Liner
- Harvest Period in months
- Harvest weight – grams
- Harvest Length - cm

Buyer Info

- Buyer Name
 - Address
 - City, State, Country, Postal Code
 - Phone, Email, Date of Registration
 - Status – Active / Inactive
- Display purchase transaction / date

Operating Expenses

- Farm Name
- Number of Staff
- Total Salary - /month
- Power - /month
- Water – /month
- Land Value -(Own – Market value, Lease Cost, Rent per month)
- Lab Equipment Cost
- Chemicals Stock details

Feed Supplier Details

- Feed Supplier Name
- Address
- City, State, Country, Postal Code
- Phone, Email
- Date of Registration
- Brand Name
- Item Supplied (Multi select – Feed, Medicine)
- Status – Active / Inactive

Membership

- Free
- Bronze
- Silver
- Gold
- Payment History

User Role

- Owner
- Admin
- Operation
- Lab Assistant
- View Only

Feed Purchase

- Feed Supplier Name
- **Feed Batch ID** (1st 3 alphabet of brand with 4 auto numbering)
- Date Arrived
- **Feed size**
- Protein %
- Feed Purchase Quantity - kg
- Feed Price per Kg
- Feed Quantity available as of now

Seed Purchase

- Seed Supplier Name
- **Seed Batch ID** (S -1st 3 alphabet of brand with 4 auto numbering)
- **Fish Name**
- Date Arrived
- Seed Quantity
- Seed size – inch
- Seed Price per piece

Harvest Cycle

- **Tank ID**
- Start Date
- **Harvest ID (Tank ID and start date)**
- Target Harvest Date
- **Fish Name**
- **Seed Supplier Name**
- Seed Quantity
- Seed Average weight
- Seed Length

Feed (daily)

- **Tank ID**
- **Harvest ID (Display)**
- Number of session (follow previous day) – max 4
- Session (1,2,3,4)
- Date
- Time
- **Feed Batch ID**
- **Feed Size**
- Proposed quantity (display) – divided by above session
- Previous day session (display) = divided by above session)
- Feed quantity – kg (2 digit)
- Total quantity per day – Kg (display)
- Fasting (check box)

Note: Show all the Tank info in the bottom with Feed info in the grid which are completed for that day

Disease (random)

- **Tank ID**
- **Harvest ID (Display)**
- Date
- Disease
- Note

Note: Show all the Tank info in the bottom with past disease info in the grid

Measurement (daily)

- **Tank ID**
- **Harvest ID (Display)**
- Date
- Time
- Temperature
- Dissolved Oxygen (DO)
- Total Dissolved Solids (TDS)
- pH
- Floc
- Ammonia
- Nitrite
- Nitrate
- TAN
- Salinity
- Alkalinity

Note: Show all the Tank info in the bottom with measurement info in the grid which are completed for that day

Treatment (as needed)

- **Tank ID**
- **Harvest ID (Display)**
- Date
- Treatment Type (Carbon Source, Bio activator, Medicine)
- Note

Note: Show all the Tank info in the bottom with past treatment info in the grid

Growth (weekly)

- **Tank ID**
- **Harvest ID (Display)**
- Date
- Total number of fish
- Total Weight - grams
- Average Weight - / piece (auto calculate)
- Random Length – cm

Note: Show all the Tank info in the bottom with growth info in the grid which are completed for other Tanks

Mortality (as needed)

- **Tank ID**
- **Harvest ID (Display)**
- Date
- Number of fish
- Total Weight

Note: Show all the Tank info in the bottom with past disease info

Harvest (as needed)

- **Tank ID**
- **Harvest ID (Display)**
- Date
- Total Weight
- Buyer Name

Note: Show all the Tank info in the bottom with past disease info

Dash Board

Growth (for individual tank)

- Display the Fish Name for a tank
- X axis – days and months
- Y Axis – grams

Criteria – Tank ID, Harvest ID (show recent as default. They can change harvest ID to display History)

Feed Conversion Ratio (for individual tank)

- Display the Fish Name for a tank
- X axis – week and months
- Y Axis – Ratio

Criteria – Tank ID, Harvest ID (show recent as default. They can change harvest ID to display History)
Ratio is calculated by cumulating feed weight /actual fish weight on that day

C:N Ratio (for individual tank)

- Display the Fish Name for a tank
- X axis – day and months
- Y Axis – Ratio
- Z axis – Protein percentage

Criteria – Tank ID, Harvest ID (show recent as default. They can change harvest ID to display History)

Overall Health (for individual tank)

- Display the Fish Name for a tank
- X axis – day and months
- Y Axis – display only the day which spotted deviation against measurement with different colour code of different measurement

Criteria – Tank ID, Harvest ID (show recent as default. They can change harvest ID to display History)

Health (for each measurement)

- Display the Fish Name for a tank
- X axis – day and months
- Y Axis – display each measurement with different colour code

Criteria – Tank ID, Harvest ID (show recent as default. They can change harvest ID to display History)

