



**30<sup>th</sup>**  
**YEARS**  
CELEBRATION

# ARUN AQUACULTURE

A complete solution under one roof for  
**AQUACULTURE EQUIPMENTS**

Take Ride On Advanced Technology

An Iso 9001 : 2015 Certified Company



## Welcome to **ARUN AQUACULTURE**

**Arun Aquaculture** Product Manufacturing By Amul Pump Industries.

Amul Pump Industries Was Formed in the year of **1989** as Sadguru Electrical Industries in Rajkot. Initially Company has to manufacturing of V4 Submersible Pump Set. The Prime Objective was to Produce Various type of Submersible Pump Set to the demanding in Agriculture Market. The Company is successfully run under the able guidance of Chief of Organization Mr. Mansukhbhai Patel. The Tremendous efforts put by him in developing the infrastructure has helped the company in greater way of satisfy the need and expectation of customer.

Amul Pump Industries has achieved a remarkable manufacturing Submersible Pump Set by performance, precision workmanship, constant development and after sales services. Our works is a most care and under strict & rigid quality controls, raw-material selection to various kind of rigorous tests, left spread to make the product performance perfect believe in entire satisfaction for quality as well as for cost. Our products fulfills all the requirements of IS 8034.

Amul pump Industries Wishes to meet the present and future needs of customers by developing, manufacturing and marketing quality products. Company's aims are to care are quality products than the more products. Company strongly believes that to satisfy the customer needs up gradation of subcontractor is equally important and hence company wishes it's subcontractor as a part of success.

One the 30 Years Celebration We are introducing our innovative (deep water aerator) with many novel features like increased efficiency, increased oxygen level at bottom of pond, less energy consumption, safety of aqua culture, cost effective with improved efficiency. This product is developed by understanding the problems of farmers and doing research on those problems which resulted in this product which is first time in world. Don't believe in us, Ask to our happy customers...!!!

**DO(Dissolve oxygen)** level at the Surface water is comparatively high. This System takes the water from the surface of pond and delivers to the bottom along with small air bubbles. due to this flow of water in forward direction so sludge is taken to center of pond. **small bubbles** are produced by this device will be injected into bottom of the pond. The bubbles will have more time to dissolve in water due to flow of oxygen is from the bottom of pond. by this system DO level in water increases in less time with very low electricity consumption. it will also help in removing toxic gases from the water and create safe environment for aquaculture species.

**DEEP WATER AERATOR** System is designed such a way that no shrimp will be harmfully / damage as the shrimp can not enter inside the system. Automatic Flap system is installed so during non-working condition aquaculture species can not enter inside the system.

भारत में अभी तक झींगा उत्पादन का कार्य प्राकृतिक स्त्र से समुद्र के खारे पानी से किया जाता था, लेकिन कृषि में हुए तकनीकी विकास और अनुसंधान के चलते झींगा का सफल उत्पादन मीठे पानी में भी सम्भव हो चला है। देश में लगभग ४ मिलियन हेक्टेयर मीठे जल क्षेत्र के रूप में जलाशय, पोखर, तालाब आदि उपलब्ध हैं। इन जल क्षेत्रों का उपयोग झींगा पालन के लिये बखुबी किया जा सकता है। झींगा पालन का कार्य कृषि और पशुपालन के साथ सहाकाय व्यवसाय के रूप में किया जा सकता है। इस व्यवसाय से ग्रामीणों को छोटे से जल क्षेत्र से अच्छी ख़ासी कमाई हो जाती है। खेती संग इस व्यवसाय को अपनाकर खेती को और लाभकारी बनाया जा सकता है।

वर्तमान में देश में झींगा पालन एक बहुत तेजी से बढ़ने वाले व्यवसाय के रूप में उभरा है। पिछले दो दशकों में मत्स्य पालन के साथ-साथ झींगा पालन व्यवसाय प्रतिवर्ष ६ फीसदी की दर से बढ़ रहा है। आज घरेलू बाजार के साथ विदेशी बाजार में झींगा की काफी मांग बढ़ी है। हमारे देश में झींगा निर्यात की भरपूर संभावनाएं मौजूद हैं। व्यवसायिक रूप से झींगा पालन के लिए निम्नवत तकनीकी पहलुओं को ध्यान में रखना चाहिए।

- स्थान का चुनाव व तालाब का निर्माण
- स्थल को तालाब के मध्य में लाना
- पानी में ओक्सीजन की मात्रा (DO)
- पानी में जहरीले (TOXIC) गैस निकालना
- आहार

ये सब मुद्दे को ध्यान में रखते हुए ARUN AQUACULTURE ने कम खर्च में ज्यादा पैदावार कैसे ला सके उस पर गहरा संसोधन किया और सही तकनीकी मदद से पानी में ज्यादा ओक्सीजन डालना और जहरीले वायु का निकालने का यंत्र बनाया।

विज्ञानीक नियम के अनुसार पानी में ओक्सीजन की मात्रा ओक्सीजन के छोटे छोटे बुलबुले पर निर्भर करते हैं। जीतने बुलबुले छोटे उतनी ओक्सीजन की मात्रा पानी में ज्यादा होगी। पानी के तल से ओक्सीजन प्रवाह करने से ओक्सीजन के बुलबुले पानी में ज्यादा समय रहेगा। इस तरह पानी में ओक्सीजन की मात्रा कम समय में ज्यादा होगी इस से बिजली की ज्यादा बचत होगी। पानी के तल पर रहे जहरीले वायु भी आसानी से निकलते हैं।

पानी के तल पर रहे जहरीले वायु इस यंत्र से आसानी से निकलता है। यह यंत्र द्वारा पानी का प्रवाह तल से बहने के कारण तल पर पड़े स्लज को आसानी से तालाब के मध्य में लेजाता है। इससे झींगा को रहने की जगह किनारे साफ रहेते हैं। जब कि जीगा पानि के तल पर हि रहेते हैं। यह सब मुद्दे को ध्यान में रखते हुए यह यंत्र झींगा के लीये उत्तम अनुकुण परिस्थिति उत्पलब्ध करता है। और कम समय में ज्यादा उत्पादन देते हैं।

ARUN AQUACULTURE द्वारा बनाया यंत्र का इस्तेमाल करके दिसेम्बर की कालित ठंडी (0.४ सें.तापमान) में भी जीगा का जिवित रखके रेकोर्ड बनाया है। और एक एकड में ४ लाख की पैदावार करके पुरे देश में हरियाणा के प्रदिपकुमार मिसाल बनके उभरे हैं। उसकी न्यु तकनीकी यंत्र और पैदावार की नौध न्युजपेपर में हुइ है।

In India so far, shrimp production was done naturally with salt water of the sea, but due to technical development and research in agriculture, successful production of shrimp has also become possible in sweet water. There are reservoirs, puddles, ponds, etc. in the form of about 4 million hectares of sweet water in the country. These water areas can be used for prawn rearing. Shrimp farming can be done as a subsidiary business with agriculture and animal husbandry. From this business villagers earn a lot of money from the small water sector. Farming can be made more productive by adopting this business with farming.

Currently, shrimp farming has emerged as a very fast growing business in the country. In the past two decades, along with fishery, shrimp farming is increasing at the rate of 6% per annum. Today there is a lot of demand for shrimp in the foreign market with the domestic market. There are plenty of possibilities for shrimp exports in our country. The following technical aspects should be kept in mind.

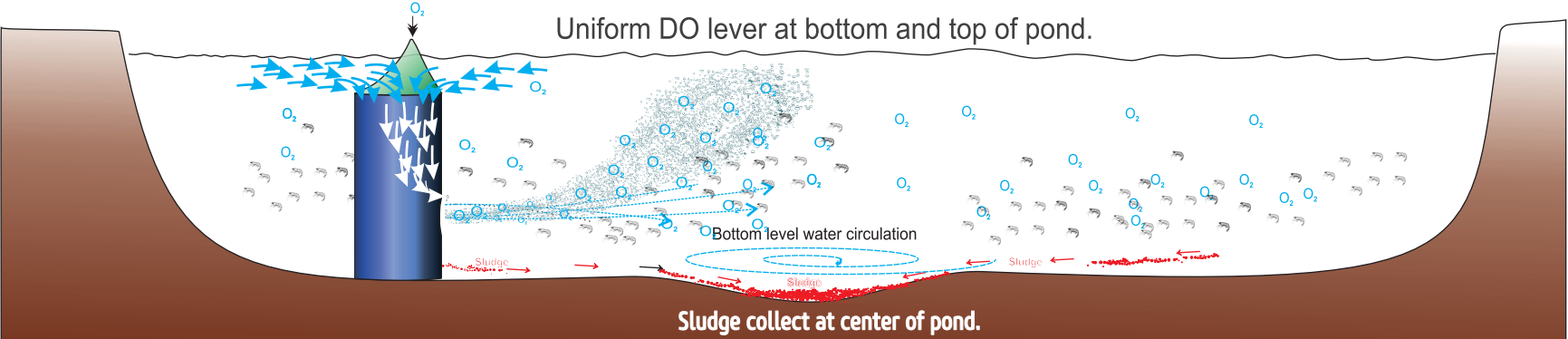
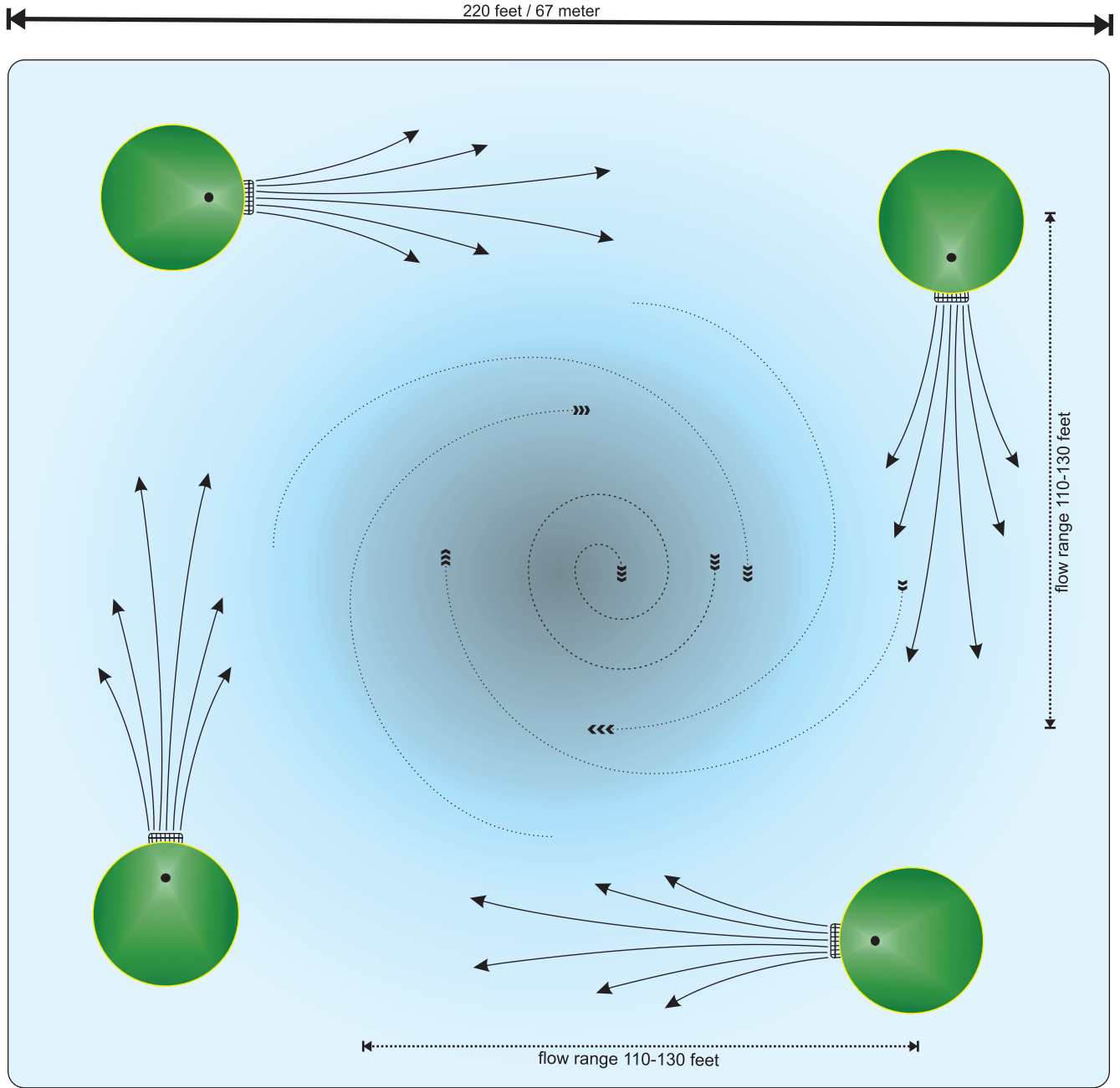
- Selection of location and construction of pond
- Bring sluts to the middle of the pond
- Amount of oxygen in the water (DO)
- Remove of toxic gas from the water
- Food (Diet)

Keeping all these point in mind, ARUN AQUACULTURE revised on which it could bring more yields, and with the help of technical help, to add more oxygen to the water and to remove the poisonous air.

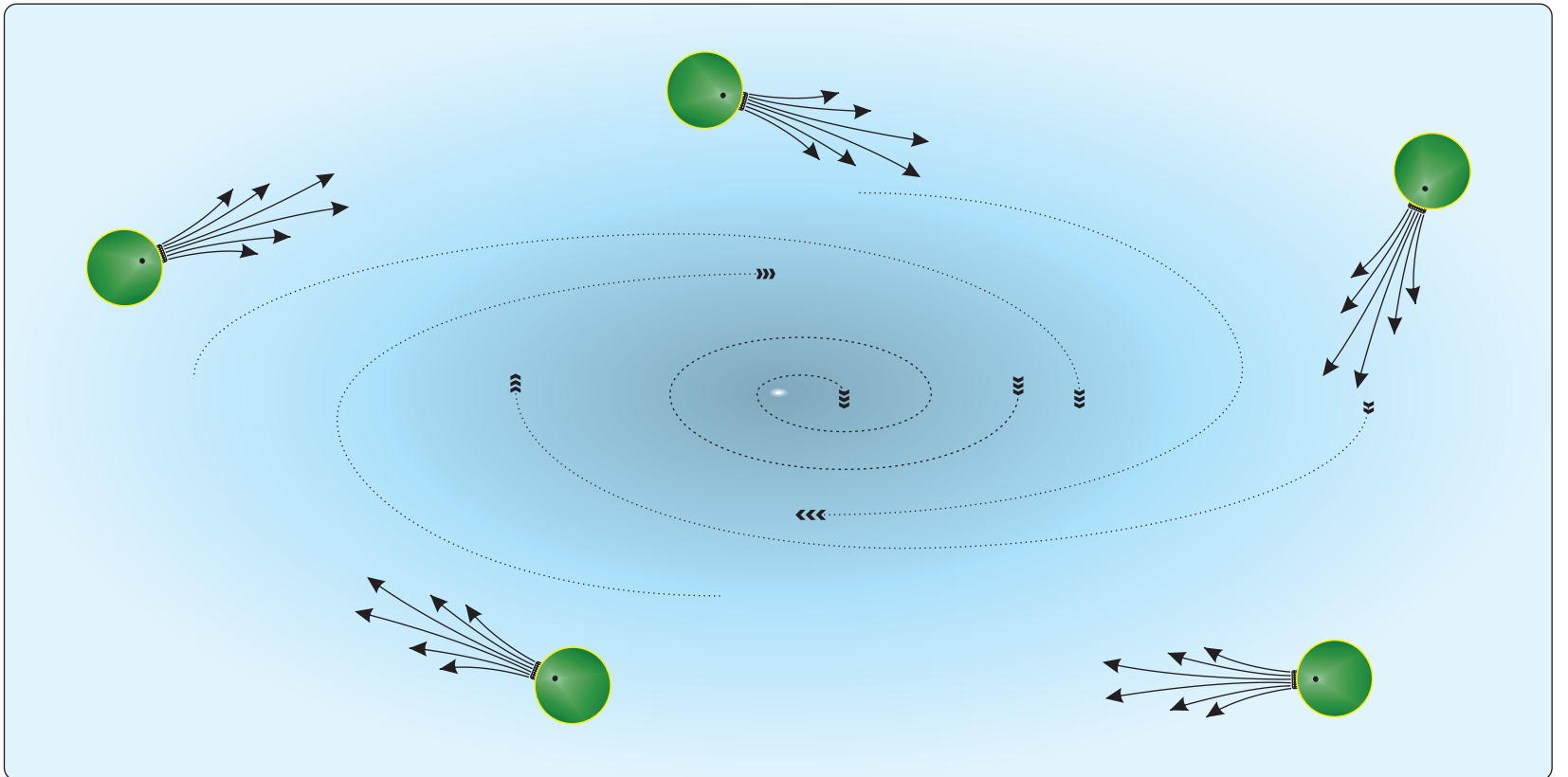
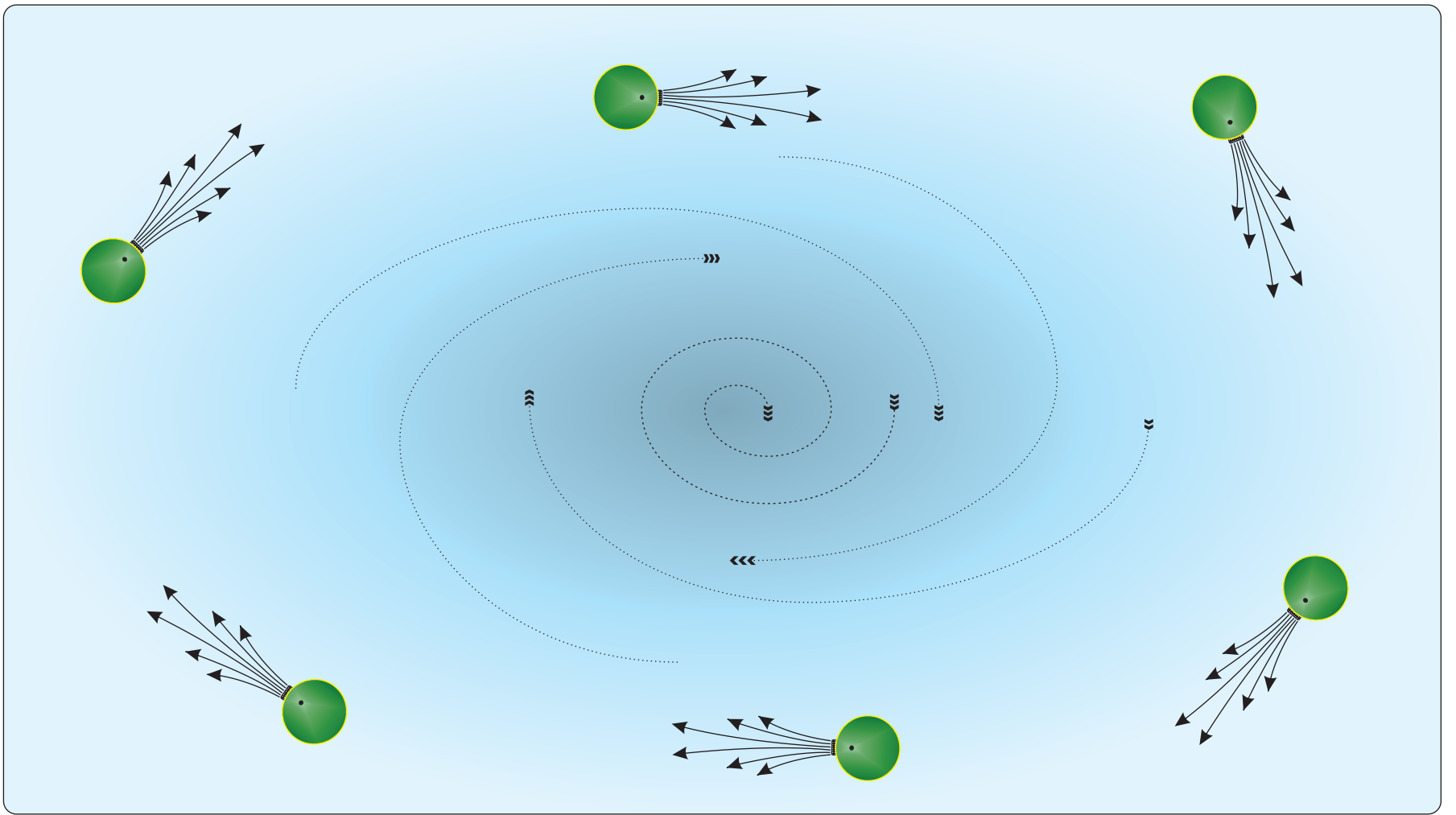
According to the scientific rule, the amount of oxygen in water depends on the small bubble of oxygen. Small bubbles will be of much Dissolved oxygen in water. Oxygen bubbles will have more time in the water due to flow of oxygen from the bottom of the water. Thus, the amount of oxygen dissolved in the water in less time, which will save much of the electricity. The toxic air that is on the bottom of the water can also easily remove.

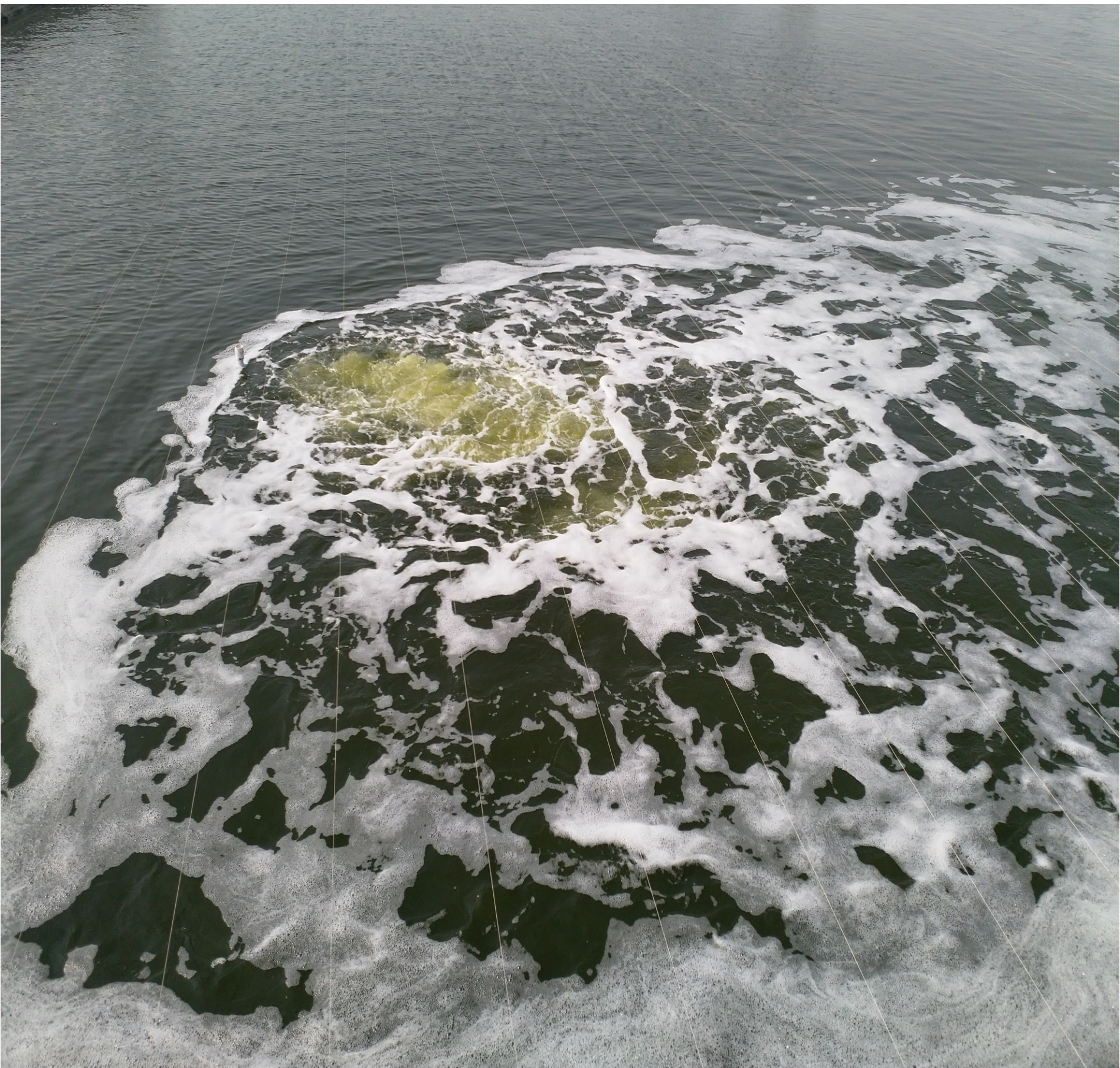
The toxic air that is at the bottom of the water comes out easily from this device. Due to the flow of water through this instrument, it is easily taken sludeg to the center of the pond with the help of flow water. From this, While the remain space to clean at the bottom of the pond. Keeping all this in mind, this instrument provides excellent impeccable conditions for shrimp. And give more production in less time.

Using the device made by the ARUN AQUACULTURE, in the black cold (0.4 c°) the shrimp live track record was made. And by producing 4 lakhs in one acre, the entire PradiPkumar of Haryana has emerged as an example. His new technical equipment and production records are in the newspaper.

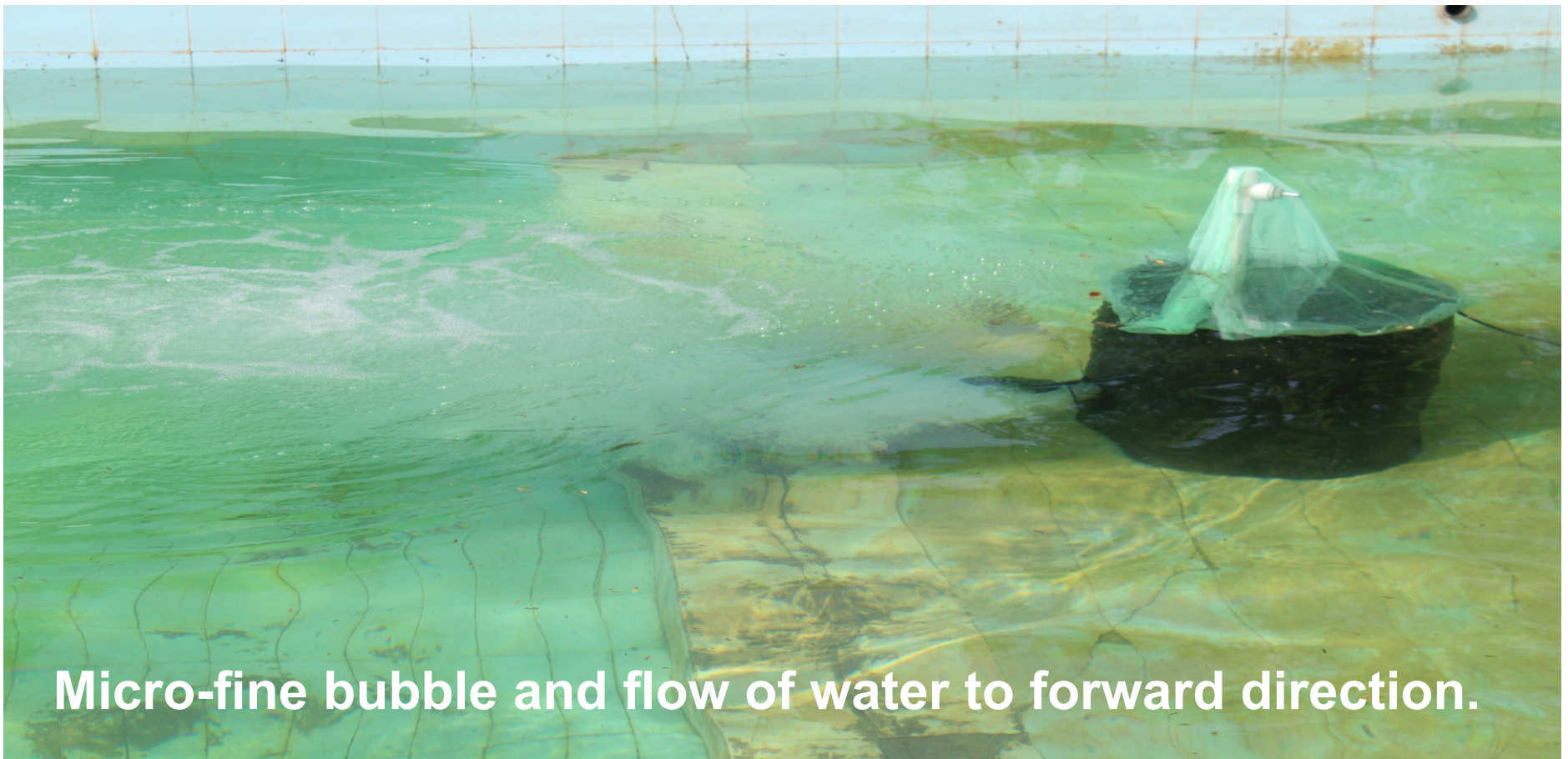


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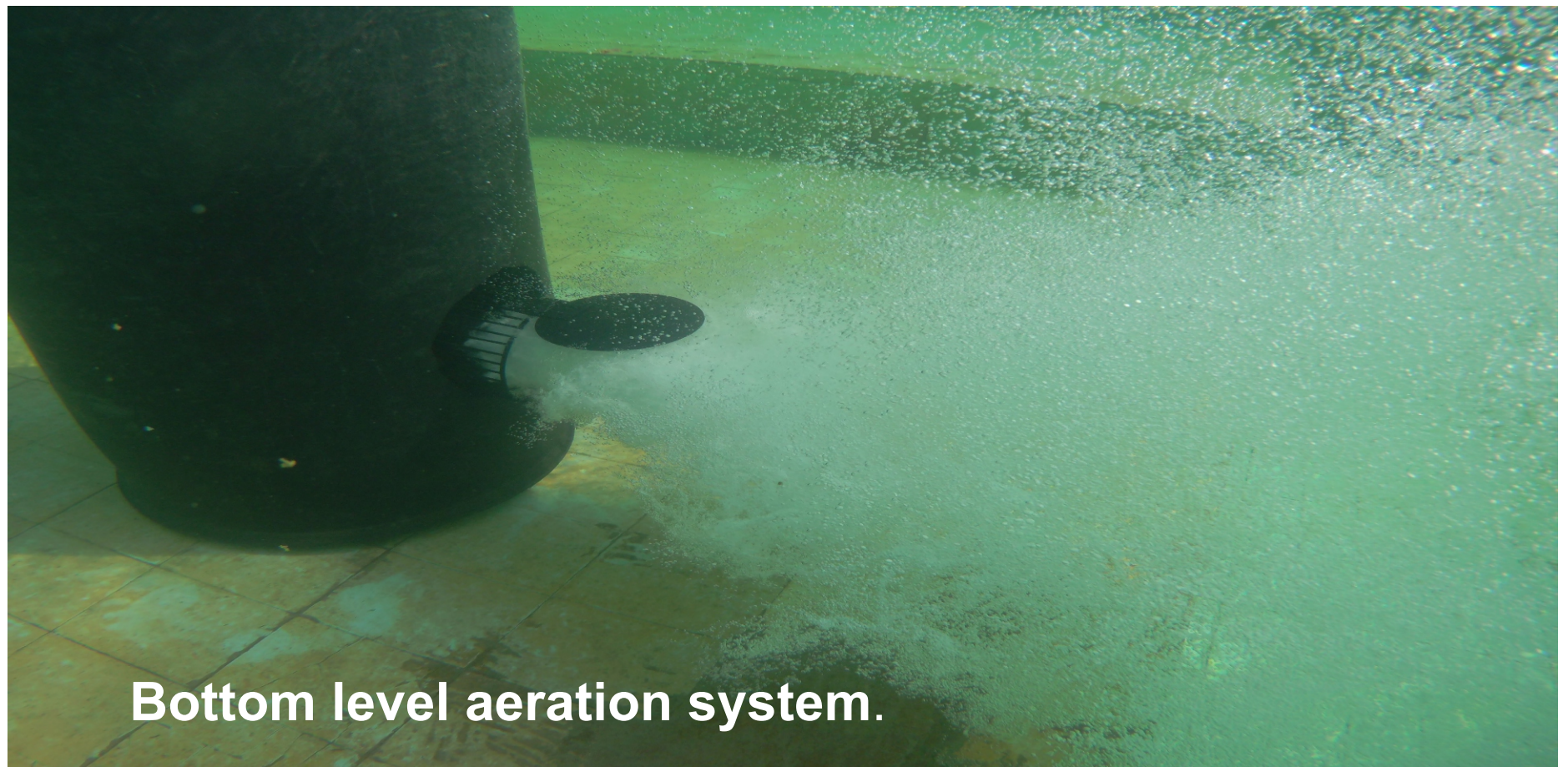






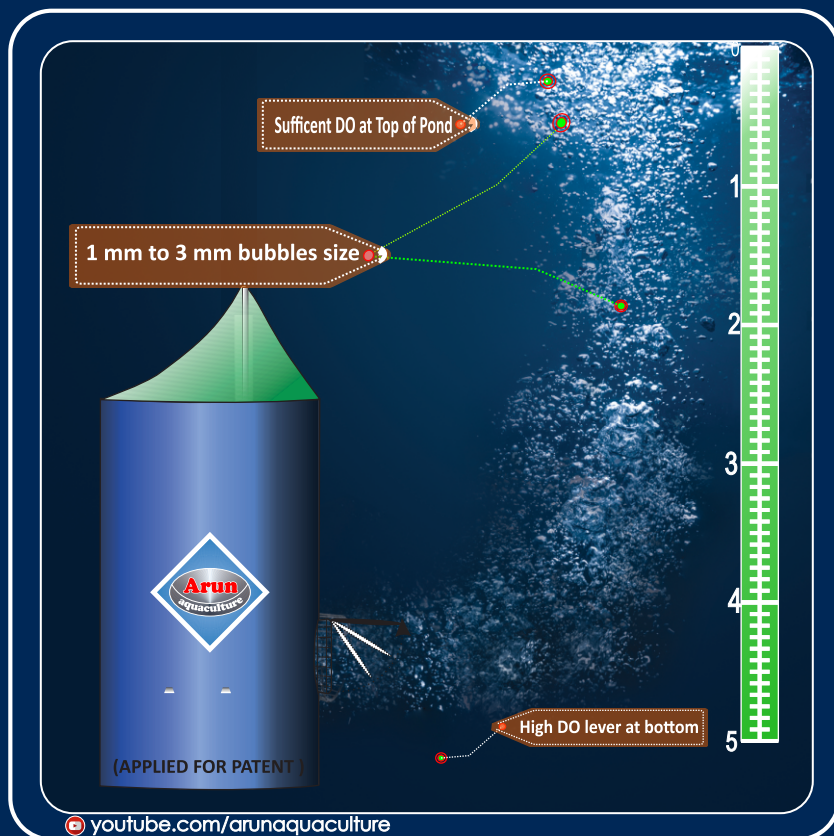


**Micro-fine bubble and flow of water to forward direction.**

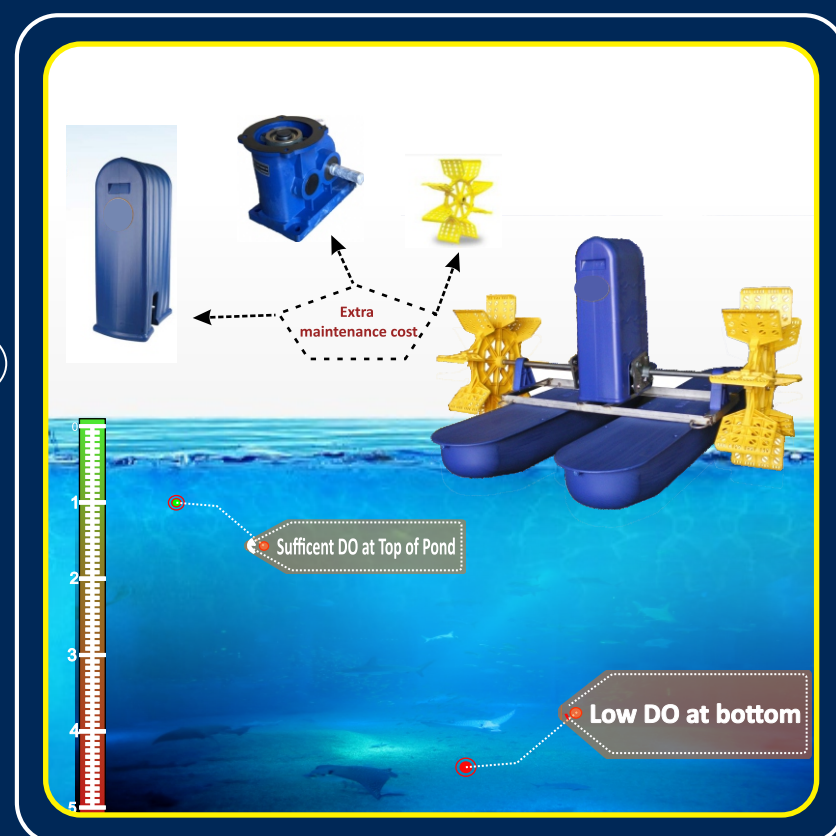


**Bottom level aeration system.**





V/S



## Arun Aerator

## Paddle Wheel Aerator



Arun Aerator	Parameter	Paddle Wheel Aerator
Less	Initial cost	More
Maintenance Free	Maintenance	Require High Maintenance
Neglected	Maintenance cost	High
High	Dissolved oxygrn rate	Less
Less	Operating time	More
less	Operating cost	More
Small	Investment	Large
Fast	Growth of shrimp	Slow
Most Of Harmful Gases	Removing toxic gases	Not Sufficient
Excellent And More Weight	Shrimp quality	Worst
Easy	Installation	Hard
Large	Profit/benifits	Less

PARAMETER	1 HP AERATOR	2 HP AERATOR
Voltage Range	230(Single phase)/420(Three phase) Volt	230(Single Phase) / 420(Three Phase) Volt
Frequency Range	50 Hz / 60 Hz	50Hz / 60Hz
Ampere Range	6 Amp(Single Phase) / 1.8 amp (Three Phase)	12Amp(single Phase) / 3.3 Amp(Three Phase)
Water Flow Range	70-80 Feet long	110-125 Feet long
Qmax of Air intake	200 m <sup>3</sup> /h	250 m <sup>3</sup> /h

### Paddle wheel aerator

- It is surface aeration system . it can't supply & maintain sufficient DO at bottom of pond.
- It is good for circulation of surface water which good for shrimp physical activity.
- Flow rang is around 30-50 feet.
- Initial price and installing is high.
- Maintenance : Flot-gear box-paddle wheel-moter due to heating.
- Operating hour is more to maintain sufficent DO level.
- It can't create micro-fine air bubbles.
- It can't remove easly toxic gas from bottom of pond.

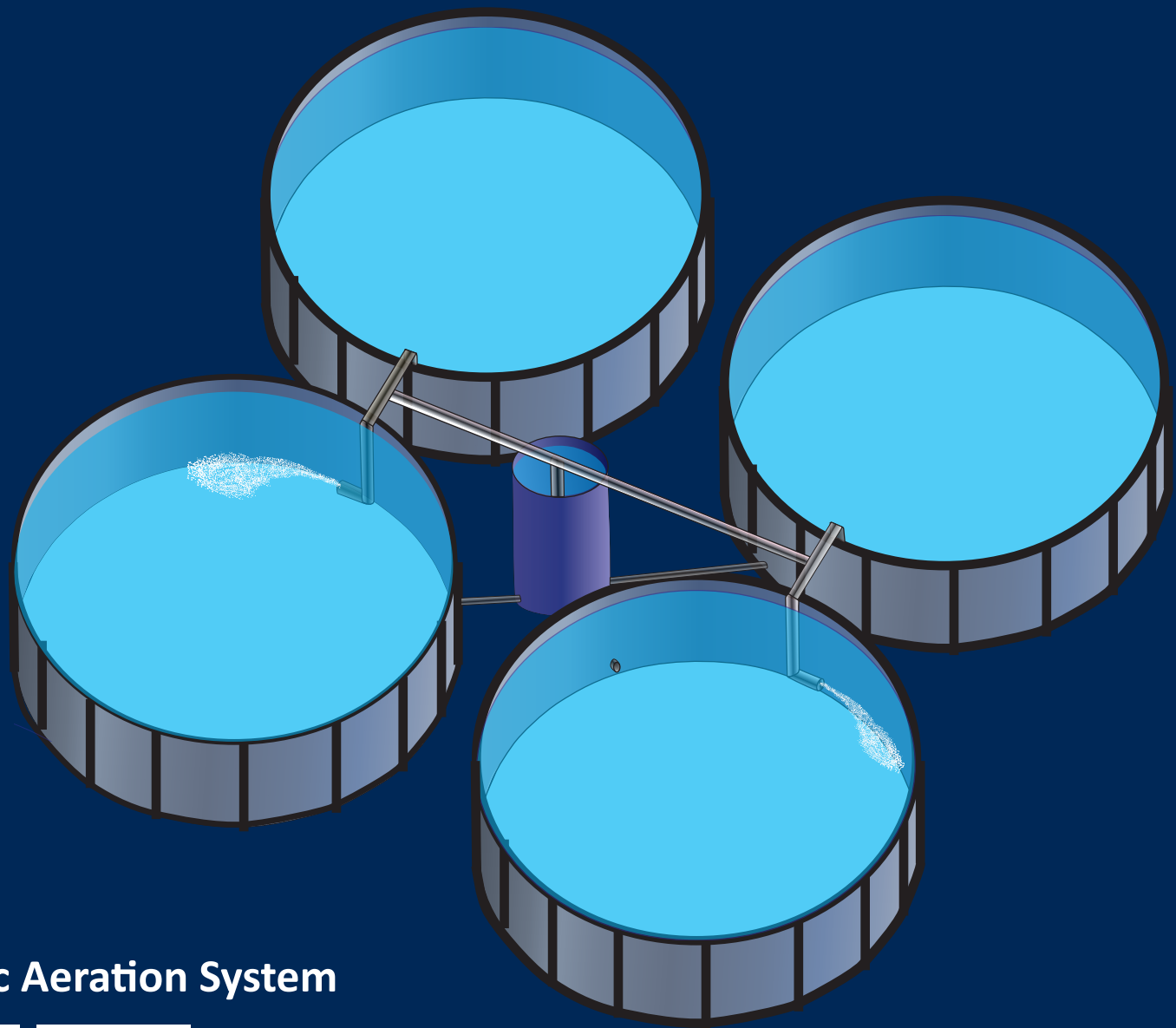
### Root blower

- It is bottom level aeration system which help for maintain sufficient DO at bottom of pond.
- It is not circulation of water so requirement of other system for water circulation.
- There is not flow rang.
- Initial price and pipe line cost is high.
- Maintenance: blower and pipe line due to high temperature and pressure.
- Operating hour is less to maintain sufficent DO level.
- It can create micro-fine air bubbles.
- It can easly remove toxic gas due to air bubble traveling bottom to top.

### Arun Aerator

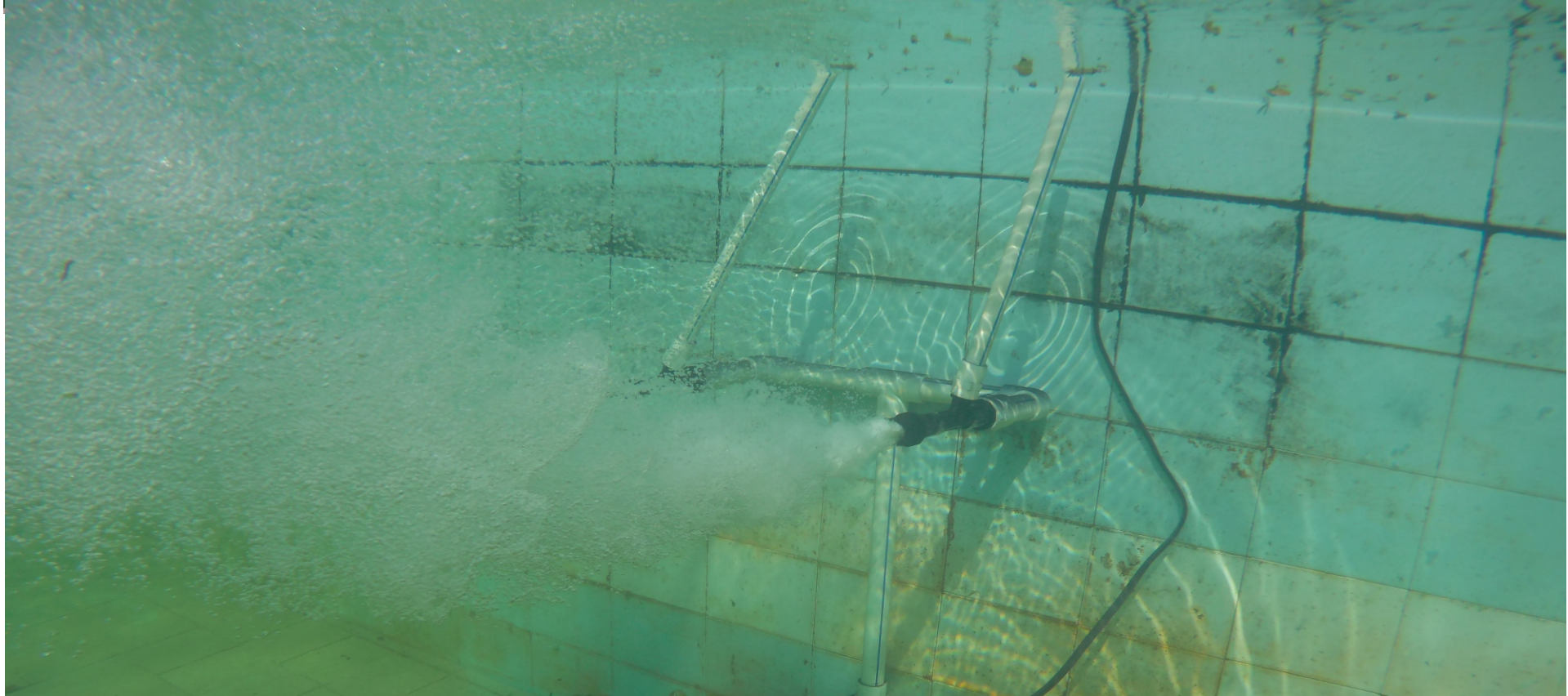
- It is give **bottom level aeration** which help for maintain sufficient DO at bottom of pond .
- It is good for **circulation of bottom lever water** which help to collect sludge at center of pond.
- Flow rang is **100-120 feet**.
- Initial price and installing is low and easy.
- Maintenance: Neglected. self cooling due to under-water.
- Operation Hour is less to maintain sufficent DO level.
- It can create **micro-fine** air bubbles.
- It can easly remove toxic gas due to air bubble traveling bottom to top.

# Bio-floc Aeration System



## Bio-floc Aeration System

PARAMETER	1 HP
Voltage Range (dải điện áp)	230/420
Frequency Range (Dải tần số)	50 Hz/ 60 Hz
Ampere Range (Phạm vi ampe)	6 Amp/1.7 Amp
Number of outlets (số lượng cửa hàng)	4-5 Tank
Q <sub>max</sub> of Air intake (Lượng không khí tối đa)	200 m <sup>3</sup> /h





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## Arun Aquaculture

MFG. SUBMERSIBLE PUMPS & AERATOR

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