

The **Sagar**®
 —good care of growth—

We Provide
 Improved
 Sustainable
 Aquaculture



www.sagarbiocare.com





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Improved
Sustainable
Aquaculture**

Corporate Close-up

From the year 2001, the journey of **Sagar Aquaculture Pvt. Ltd.** started with the manufacturing of **Fishing Floats** and **Long Arm Impeller**, to overcome the hurdle of parts unavailability and service issues of imported **Paddle Wheel Aerator**, we decided to start manufacturing complete Aerator in India. **Sagar Aquaculture Pvt. Ltd.** provided innovative products to aquaculture industries, by 2022 **Sagar Aquaculture Pvt. Ltd.**, become India's No. 1 Aerator Manufacturing Company with network in 25+ country world-wide.

In our quest to expand our reach in aquaculture Industries in year 2015 we decided to start prawns culture to gain new insight about aquaculture. Since 2015 our qualified team is continuously analysing problems faced by aqua farmers. To overcome limitations of the solutions provided by aquaculture equipments we started working on biological solutions in 2019.

To satisfy the needs of new era aqua farmers in 2022, **Sagar Biocare Pvt. Ltd.** A new venture has formed to fulfil our mission to be the premier provider of exclusive and innovative technologies that will help to improve animal care worldwide by providing solutions for aquaculture and veterinary professionals, animal producers and pet owners. Our customer centric approach from last two decades has helped us constantly innovate; design products and solutions in a quality-driven and technology-led environment and distributed through a national and international network of partners.



About us



Sagar Biocare Pvt. Ltd. is firmly committed to address the emerging local and global challenges to provide farmers with custom products with custom solutions, improving products and processes by development and evolution.

Sagar Biocare Pvt. Ltd. invests the sum of its knowledge, resources and experiences in aquaculture production to keep livestock healthy and safe .

Sagar Biocare Pvt. Ltd. researches, develops, manufactures and markets a specialized product package for both Animal Health and Aquaculture; in particular Drug Formulations, Feed Supplements, Premixes, Biotechnology Formulations, Toxin Binders and Toxin Control Products and wide range of Biosecurity Formulations.

The key competitive strengths of **Sagar** are its highest standards for scientific research excellence, business ethics, work ethic and customer service with an aid of an experienced management team, which has a record of accomplishment in the animal health industry.

We as a process for continuous development undertake field trials of new and existing products to validate and support future development, which is increasingly, research driven.





SAGAR min

Marine mineral supplement for balancing minerals in pond water



Minerals are the essential elements to maintain the proper metabolism to humans as well as in veterinary, poultry and also in aquaculture, especially crustacean family species like lobsters and shrimps accumulate required minerals from wild water bodies like rivers, oceans for their body metabolism.

In cultured ponds, like inland shrimp ponds the requirement of these minerals should be supplemented artificially, which traditional mineral supplements cannot be fulfilled.

Microorganisms like zoo plankton and phytoplankton's like algae, spirulina also required minerals supplements which are most important in shrimp food chain in the pond water.

Particularly in low salinity water the requirement of minerals is more. When shrimp molts then these micro and macro minerals could play a key role.

Traditionally farmer uses normal minerals, which could not contribute the basic requirements of shrimps in the pond water.

To fulfill the complete required amount of the minerals **SAGAR BIOCARE PVT. LTD.** introduces Sagar Min as a great source which helps the farmers to make more productivity from the pond.

Composition

Complex mixture of essential micronutrients in inert form with Calcium, Phosphorus, Sodium and Potassium. Enriched with Amino Acids and high quality growth promoters.

Dosage

1. 20 g/Kg of feed at regular interval.
2. For water preparation: 20 Kg/Ha (1 m water depth).
3. 15-20 Kg/Ha during culture (1 m water depth upon stocking density and culture conditions).

Presentation: 20 Kg Bucket

Storage and Caution :

Keep in cool and dark place

Benefits

- Protects from mineral deficiencies in shrimp/fish.
- Helps to develop immune response and defense mechanism.
- Ensures efficient osmoregulation mechanism.
- Supports in proper molting of crustaceans.
- Optimizes FCR and maximizes productivity.
- Enriches primary and secondary productivity of pond water.
- Maintains optimum pH of pond water.
- Prevents from loose shell, white muscle, muscle cramp, etc in shrimp.



DEOLITE

High quality mineral zeolite with highest cation exchange capacity



Benefits

- Excellent Cation Exchange Capacity (CEC).
- Improves water quality by adsorption of suspended solids, organic waste and dissolved toxic gases.
- Cleans pond bottom and bad odour by its active elements.

Composition

SiO₂ – 60-65%, AL₂O₃ – 20-22%, CAO -15-18%,

MGO – 2-5%, FE₂O₃ – 2-3%, NA₂O – 1-2%

Dosage:

For pond preparation - 50 Kg/Ha.

During culture - 25 Kg/Ha. OR as advised by aquaculture expert

Presentation: 20 Kg Packs.

The successful shrimp farming depended on the proper pond management, especially water and pond bottom management. The demand of seafood is growing day by day as the production capacity continues traditional ways.

In these current situations farmers are interested to stock more shrimps per square meter in the same pond, unlike the feeding practices also applying the same way.

When the density increase all other parameters also make major impacts like animal litter, feed wastage, and also molted shrimp shells, all these substances could reach under the pond bottom, these organic matters start decomposing by the presence of microorganisms, when decomposing start it release gases like hydrogen sulphide (H₂S), ammonia & nitrite which are extremely hazardous to shrimps as well as to the planktons.

These detritus matters use more dissolved oxygen which is available in the pond water and it fluctuates the DO levels. in the same pond it impacts the pond heterotrophic conditions Like plankton development, and also alters shrimp feeding habitual and molting cycle, it also slows down the shrimp's metabolism and effects the pond productivity.

To eliminate these substances which impacts shrimp culture **SAGAR BIOCARE PVT. LTD.** introduced a scientifically formulated product called **Deolite**.

Deolite is an excellent cation exchange capacity which converge with toxic gases like hydrogen sulphide (H₂S), ammonia & nitrite and breaks down to eliminate into atmosphere.

Deolite helps to decrease the biological oxygen demand in the pond.

Deolite helps to reduce the unwanted bacterium growth from bottom levels.

Deolite helps to increase the pond water quality.

Deolite helps to maintain optimum pH levels in the pond.

Deolite helps to grow healthy plankton by absorbing unwanted gases.



DEOLITE Plus

Zeolite Granules Enriched with High Quality Yucca & Enzymes



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To eliminate these substances which impacts shrimp culture **SAGAR BIOCARE PVT. LTD.** introduced a scientifically formulated product called **Deolite Plus**.

Benefits

- Controls ammonia in the water column of aquaculture pond.
- Granules helps to reach pond bottom and act properly
- Inhibits enzyme urease and curbs ammonia formation.
- Binds any preformed ammonia.
- Provides instant relief from ammonia stress in shrimp/fish.
- Controls off flavour in shrimp/fish.

Presentation: 15 Kg Pack.

Application

Pre Stocking	25 kg / ha
0 - 60 (DOC)	10 kg / ha / 10 Days
60 - 90 (DOC)	20 kg / ha / Week
>90 (DOC)	25 kg / ha / Week

Composition:

Contains high (CEC) zeolite granules coated with natural extracts of Yucca schidigera, enzymes and flavours.



HEALTHYGUT

(Aquatic Feed Supplement)

**Aquatic feed supplement
reduces whitegut gradually**



One of the major challenge in shrimp farming is white fecal matter, after several years where farmers has adopted to control white spot disease now the shrimp industry is facing the white fecal matter or whitegut disease which leads financial losses to shrimp farming sector. Several pathogenic organisms are main causes to occur white gut in the farming ponds.

This is caused by mainly poor pond water conditions and feed management as well as unhygienic laboring practices. When the disease occurs slowly shrimps stop the feed intake and got stress conditions which leads to weaken the shrimp's immunity system and to growth reversal.

Using harsh chemicals to treat these gram negative bacterial infections will leads negative impact on the cultured ponds like feed stoppage, loose shell syndrome and growth reversal.

The farmers get exhausted after trying several inputs to treat white gut disease in their shrimp ponds.

After many years of research at our shrimp farming research centers in India we **SAGAR BIOCARE PVT. LTD.** introduced a prestigious organic product named **Healthygut** to prevent and to treat whitegut syndrome where farmers can use without hesitation until end of the culture.

Benefits

- Stable and lyophilized product
- Prevent/treat white gut & white feces
- Improves non-specific immune responses in shrimp against pathogens
- Makes shrimp disease resistant and increases its survival rates
- Improves feed intake, FCR and overall performance
- Increases digestion and nutrient uptake
- Improves productivity

Composition:

An unique combination of natural organic ingredients Lactic acid, Ascorbic acid, Paprika extract, Cinnamon extract, Tocopherols, Bioflavonoids and natural plant extracts.

Dosage:

- 5 ml/Kg of feed once a day continuously for 5 days at regular intervals on preventive basis.
- 10 ml/Kg of feed in all meal continuously 5 days during white faecal infection and to control white gut disease.

Presentation: 500 ml / 1 lit Pack



NUTRO gel

(Aquatic Feed Supplement)

A unique binder with all essential qualities



To deliver the vitamins, minerals and other supplements like micro and macro nutrients up to the shrimp's intestine is a difficult task to add with feed, farmer cannot fulfill the supply with normal and unhygienic gel preparation.

The selection of suitable gel is more critical job to find and procure to the farmers. To overwhelm this scenario SAGAR BIOCARE PVT. LTD. has been introduced an unique binder gel!

What if farmer gets multi purpose binder gel with numerous minerals and vitamins ?

Now with the availability of many vitamins & minerals farmer has an ultimate gel option in the Indian market which helps to bind all kind of nutrients along with feed and does not dissolve easily in the water when applied to the feed.

Composition:

Protein as free amino acids 100 mg
Cholesterol – 25mg
Calcium -10 mg
Vit D3 – 20 -25mcg
Carotenoid – 40mcg

Dosage:

10-15 ml/Kg of feed for Shrimp/Fish.

Nutro gel should be mixed thoroughly with feed supplement as per the recommended dosage. Apply this mixture gel to the feed pallets and allow it to dry under shade. Use the gel coated feed on the same day and do not store it.

Consult your aquaculture specialist for specific usage and directions.

Benefits

- Nutro Gel has an excellent binding capacity with multiple vitamins and minerals with maximum absorbing agents.
- Nutro Gel attracts shrimps towards feed with its finest reeking substances.
- Nutro Gel helps to consume the feed with its sloppy and gliding texture.
- Nutro Gel helps to flow the shrimp bloodstream (hemolymph) to carry substances to all over the body tissues.
- Nutro Gel helps to prevent white muscle and loose shell and to form proper shell after molting.

Presentation: 5 and 20 Kg Packs.



BLUE CEE

concentrated and stable vitamin C along with mos and electrolyte

Vitamin C is an essential dietary ingredient for fish, prawn and shrimp. Fish, prawn and shrimp are unable to biosynthesize Vitamin C. Vitamin C is essential in prawn and shrimp for disease resistance, rapid growth, high survival and moulting. Vitamin C has also been linked to improving immune response, hormone production, mineral absorption and metabolism, and plays an important role in shell development and protein metabolism of prawn and shrimp. Vitamin C has also been shown to help detoxification of toxins, chemicals, pesticides and drugs.

One of the important functions of Vitamin C is in the collagen synthesis, which is an important aspect in muscle development of fish prawn and shrimp. In prawn and shrimp, Vitamin C has also been reported to influence the alkaline phosphatase activity during the synthesis of chitin and sclerotization of the epicuticle.

Deficiency symptoms of Vitamin C Prawn and Shrimp Deficiency of ascorbic acid in the diet of prawn and shrimp results in reduced feed intake, poor conversion of food and protein, high incidence of post-molt deaths, dystrophy of muscle and hepatopancreas, blackening of gills and in extreme cases black death disease, whitened or blackened lesions and high rates of mortality. In prawn and shrimp vitamin C deficiency led to the inhibition of alkaline phosphatase activity resulting in poor chitin synthesis and sclerotization of the epicuticle.



Benefits

- ✓ Improves growth rate
- ✓ Improves nutrient uptake and FCR
- ✓ Maintains moulting frequency
- ✓ Controls post moulting mortality and general mortality
- ✓ VITAMIN-C in most stable, insoluble and highly bio available form
- ✓ Helps reduce stress
- ✓ Reduces susceptibility to bacterial infections and helps build up immunity

Dosage and usage

- The requirement for ascorbic acid is related to growth rate and size of fish, prawn and shrimp as well stress, as to the other nutrients present in the diet.
- BlueCee is a concentrated and stable form of Vitamin C and has to be used at 3-5 grams per kg of feed regularly for getting good results.
- or as advised by Aquaculture consultant.

Composition

Each gram of BlueCee Contains:
L- ascorbyl -2- phosphate (Vitamin C)
MOS and Electrolyte - Qs

Presentation: 500 gm HDPE containers.



SIZER

Potassium monopersulphate power



The global shrimp production has been a successful and profitable enterprise for many years.

However, In shrimp farming industry from the past four decades has been facing losses of around 40% production due to diseases.

The manifestation of the disease depends on the interaction including their species, nutrition, Genetics, and PL quality.

Later the environment part also occurs which includes water quality parameters. This type of system adopted like stocking density and the weather as well as the location of the farming land, Whether if it close or far from the other farms.

Then we have the pathogenic organisms, here we have to consider their species their virulence their genetic characteristics. All these factors will reduce the shrimp productivity and profitability.

To overcome these pathogenic infections SAGAR BIOCARE PVT. LTD. has been invented Sizer is an unique, bio degradable and an eco-friendly broad spectrum disinfectant which eradicates all kind infectious pathogens like bacterial, viral and fungal infection.

Benefits

- Sizer is a broad spectrum disinfectant which adds an impermeable layer to your aquaculture system's biosecurity. Sizer helps in reducing the risk of majority of the devastating diseases in shrimp culture like Vibriosis, White Feces Syndrome and WSSV.
- Sizer is a blend of unique and premium ingredients which does not interfere with your aquaculture pond's vital parameters. Sizer also ensures that the bloom in aquaculture system would not be crashed after its application which leads to stress free environment for shrimp and fish.
- Sizer in your aquaculture pond leads to disease free and stress free environment to the fish and shrimp which help them grow faster and healthier.

- Sizer when diluted can also be used as a biosecurity measure in the form of foot dip and hand dip before entering in an aquaculture farm. Aquaculture equipments can also be sanitized and cleaned using Sizer powder with prescribed concentrations.

Dosage:

1 Kg/Acre at every 10 days (depending on stage of culture).

Use with sand for proper application.

Consult aquaculture specialist for specific usage and directions.

Presentation: 1 Kg



CLAROXY

Enriched oxygen granules



Benefits

- **Claroxy** immediately increases the required amount of dissolved oxygen in the pond after application.
- **Claroxy** helps the pond eco system by dissolving more oxygen into the pond water.
- **Claroxy** immediately helps to get more oxygen availability to shrimps as well as to the planktons and to benthos.
- **Claroxy** will help to reduce stress on the shrimp in molting period by dissolving more oxygen into the pond water.
- **Claroxy** rapidly dissolves oxygen in fluctuated weather conditions & helps planktons to sustain along with shrimps.

Oxygen, Is the life for almost every living organism on the earth or in the water bodies.

Now a days in intensive or super intensive shrimp culture, dissolved oxygen demand is decidedly high.

The maintenance of dissolved oxygen will determine aquatic animal health and survival rate as well as good production in aquaculture.

At the time of molting period, shrimps require more oxygen.

The shrimps will get more stress when the dissolve oxygen levels reaches to low.

The pond dissolved oxygen levels became low, When the weather conditions are poor like cloudy conditions or like rainy weather or like more atmospheric moisture conditions could also drop the dissolved oxygen levels dangerously to low.

When the oxygen levels became low the shrimp will become weak & decrease survival rate & also reduce productivity from the pond.

Particularly in excessive humid conditions the dissolved oxygen levels get poor and it leads to mass mortality.

When the dissolve oxygen levels became low the risk of disease outbreaks also occurs more and more.

Sometimes even with proper aeration system the dissolved oxygen demand will not be sufficient due to poor pond management systems.

Also with unexpected weather conditions. The microorganisms like planktons and benthos are also requires Dissolved Oxygen along with shrimps.

When the pond dissolved oxygen levels decreases these blooms will get crashed, when these blooms are crashed the pond water condition will be more critical to maintain.

To dissolve the required oxygen amount in pond water Claroxy will be the great choice.

Presentation: 10 Kg



AMOSORB

The natural solution to control ammonia



Oxidative stress is one of the major concerns in shrimp culture.

The accumulation of inorganic ammonia & nitrogen compounds resulting from the faeces of shrimps, organic matter and the leftover feed affects the growth and lead shrimps to a stressful condition.

More specifically, intensive conditions produce large amounts of ammonia emissions, which induce oxidative stress, immune suppression and inflammatory features in the shrimp's body metabolism.

The addition of **Amo Sorber** improves the quality of aquaculture water and reduces the accumulation of ammonia in shrimp farming practices.

The reduced levels of accumulated ammonia would result in the balance of protein metabolism in the shrimps body and a reduction in energy consumption.

Additionally, the application of **Amo Sorber** extract is also recognized as a powerful tool for reducing the ammonia levels in shrimp culture ponds.

Amo Sorber is applied mainly to reduce the levels of ammonia emissions in aquaculture ponds due to its content of steroidal saponin fractions, which has surface-active properties and can bind to ammonia via glycol-component fractions.

Hence, the feed utilization, growth performance, and physiological status of Shrimps can be improved by **Amo Sorber** application.

Amo Sorber is an alternative approach to overcoming the excessive use of antibiotics for eco-friendly Aquaculture.

Dosage

- AMOSORB is recommended at the rate of 1-2 Kg/Ha, depending on the stocking density and days of culture.
- Apply the mixture of AMOSORB with DEOLITE, sand and a little water uniformly to cover the complete pond area.
- Repeat the application once in ten days.

Presentation: 500gm pack

Benefits

- Controls ammonia in the water column of the aquaculture pond.
- Inhibits enzyme urease and curbs ammonia formation.
- Binds any preformed ammonia.
- Provides instant relief from ammonia stress in shrimp/fish.
- Controls off flavor in shrimp/fish farming ponds.

Composition:

Contains natural extracts of *Yucca schidigera*, ammonia binding agents and flavours.



PROVA+

A synergistic formulation of unique bacterial strains

Accumulation of uneaten feed, excreta, dead plankton create a sludge on the pond bottom and turbid water in ecosystem. Digestion of sludge by indigenous microorganisms is slow and consumes more dissolve oxygen from the pond ecosystem. This process may help to lead and form ammonia, nitrites and other toxic gases. Therefore, to improve the aquatic environment there must be a reduction in accumulation of these substances. It is well known fact that chemical and physical methods are costly and are temporarily beneficial. The reduction of sludge is best possible by BIO-AUGMENTATION or BIOREMEDIATION process, which helps to reduce aquaculture ponds to degrade these unwanted gases and harmful bacteria like vibrio.

Regular addition of biologically active seed cultures PROVA+ maintains the pond ecology and culture system stable.

Composition

PROVA+ contains special mixture of non-pathogenic microbial cultures which are adapted to produce large amounts of waste degrading enzymes like amylases, proteases, lipases and celluloses. It contains bacteria that oxidize ammonia to form nitrites and nitrates.

Bacterial strains > 10 billion cfu/ml

Dosage and Application

Feed Application :5 Gms. per kg of feed.

Pond Application :250 gm/acre of one Metre Depth

Presentation: 500 gms (250gm x 2 each water soluble pouches)

- Works in aerobic and anaerobic condition.



Benefits

- Reduces BOD and COD.
- Works efficiently in wide range of PH (3-9.5) and Salinity (0-50).
- Reduces sludge and maintains Water quality.
- Regulates ph and stabilizes bloom.
- No tedious process such as brewing and aeration required.
- Highly concentrated and produces huge amounts of digestive enzymes.



LIQPRO - PS

concentrated liquid soil probiotic for aquaculture



LIQPRO-PS comprises of photoheterotrophic bacteria. Selected from marine environment, the robust bacteria can proliferate even under aerobic and anaerobic condition, and helping to decompose organic matter and to reduce hydrogen sulfide (h₂s) in pond water.

LIQPRO-PS secretes various hydrolytic enzymes and digest complex organic substances into CO₂, water vapour and other volatile gases and thereby promote a healthy environment for Shrimp, Prawn and Fish, grown in fresh, brackish and marine waters by improving water quality.

LIQPRO-PS provides concentrated viable bacteria for sludge control and plankton stabilisation in aquaculture ponds; helps in prevention and treatment of Vibrio and other bacterial diseases in aquaculture. LIQPRO-PS has very high ability for Biodegradation and Mineralisation towards different contaminations is very high and works as a preventative strategy. LIQPRO-PS should be used from the beginning of the crop cycle to achieve best results.

LIQPRO-PS produce different types of enzymes, including high levels of intracellular enzyme malate dehydrogenase, to degrade heavy loads of organic waste developed at the pond bottom during the progress of crop.

LIQPRO-PS is positively correlated with the concentration of sulfate in aquaculture ponds to eliminate the toxic gases such as hydrogen sulfide and is capable of fast degradation of the Cellulose material present in the decaying organic matter of earthen ponds.

Consequently, the probiotics in LIQPRO-PS is important in biodegradation of organic waste in the earthen ponds and aquaculture tanks.

LIQPRO-PS is able to biosynthesis alpha-amylase that is more thermally stable than the wild-type enzyme and is more effective in its performance to biodegrade organic waste compounds in the aquaculture ponds.

Benefits

- Regular Application: Apply 5 ltr per acre at 1 m water depth. Mix 5 ltr of LIQPRO-PS in 5 ltr of water and spread evenly in the pond. No brewing needed. Apply once in 7 days.
- Treatment Application: Before Stocking PL: 3 days prior to stocking, apply 15 ltr per acre at 1m water depth to promote healthy water quality.
- Black Soil Treatment During Crop: 15 ltr per acre at 1 m water depth for first application followed by 10 ltr per acre at 1 m water depth after 7 days and continue with regular dosage of 5 ltr once in 7 days.
- After Harvest: Reduce pond water depth to 30 cm and apply 30 ltr per acre as a first dosage followed by 2nd application of 15 ltr per acre after 5 days of first application.

Application Method:

- ✓ Apply between 08:00 – 11:00 am (sunny day)
- ✓ Mix with zeolite or dolomite to help settling down the microbes to the pond bottom.
- ✓ Mix with shrimp feed to increase appetite and shrimp health.

Composition

Bacterial species mainly Rhodospirillaceae, Chromataceae Rhodobacter sp. Rhodococcus sp.
The bacterial concentration is 1x10¹⁰ CUF/ML

Presentation: 20lt



MIN FLOW

(Aquatic Feed Supplement)

A novel moult inducer with multi vitamins & minerals



The metabolism of living organisms always depends on the proper feeding.

Particularly the crustaceans like shrimps has required more and unique micro & macro elements like minerals and vitamins.

Specially shrimps require certain amounts of minerals and vitamins for daily metabolism and to formation of proper fluids like Hemolim, healthy muscle and good shell formation.

Shrimps cannot accumulate these multi nutrients only with the feed, these vitamins and minerals should be supplemented along with feed.

Especially in the period of molting, these micro nutrients requirement would be more.

Shrimps got multiple disorders like loose muscle, loose shell, white muscle, muscle bends and cramps when these micro nutrients not available in the functional feed.

Mainly the requirement of the micro nutrients are in two forms like vitamins and minerals.

Most required vitamins and minerals for the shrimps are Vitamin A, B2, B6, B12, D3, E, Calcium Pantothenate & Cobalt, Copper, Selenium, Zinc, Magnesium, Manganese, Calcium, Iodine.

Min Flow is an exceptional feed supplement packed with all required macro and micro vitamins and minerals which are in highly available formation developed by **SAGAR BIOCARE PVT. LTD.**

Dosage and Application

Feed Application: 5gm/kg feed or as advised by aquaculture expert

Benefits

Vitamin A, Vitamin D3, Vitamin B2, Vitamin B6, Vitamin B12, Vitamin E, Calcium pantothenate, Cobalt, Selenium, Copper, Zinc, Magnesium, Manganese, Calcium, Iodine

Benefits

- **Min Flow** helps to regulate body metabolism of the shrimp.
- **Min Flow** helps to strengthen the inner tissues of the shrimps.
- **Min Flow** provides muscle strength to the shrimp by soluble calcium sources.
- **Min Flow** helps to condense muscle buildup and enhance a grade texture of shrimp muscle.
- **Min Flow** helps to relieve from stress & supports to strengthen the central nerves system and helps to fight against several diseases.
- **Min Flow** helps to relieve from bends & helps to rebuild the teared muscles reduce muscle cramps and to shell formation after molting.



RAIGO

(Aquatic Feed Supplement)

A premium growth promoter



The proteins in the feed will play a key role to build up the muscle part in animal's body. Especially in shrimp culture the growth will depend on the protein availability in the feed.

The digestibility of the proteins will decide the shrimp muscle buildup and to gain weight. Shrimps lose the muscle mass in stress conditions and get muscle tears in the body like white muscle and muscle cramps.

Due to the less utilization of proteins and other nutrients from the feed, Shrimps will not get the proper muscle growth and the weight gain. Also shrimps will utilize only 60% nutrients from the feed, as the remaining will become the feed wastage or the animal litter.

To maximize the utilization from the feed, Shrimps require unique enzymes which help to synthesize the proteins from the feed and help to build the proper muscle formation.

To set right these negative growth conditions.

SAGAR BIOCARE PVT. LTD. invented **Raigo** which has stuffed with amazing nutritional benefits and helps to the shrimps to release more digestible enzymes which help to build up strong body muscle parts by maximizing the nutrient utilization from the feed.

So farmer can get more profitability from the shrimp farming.

Dosage and Application

Feed Application: 5gm/kg feed or as advised by aquaculture expert

Benefits

- **Raigo** helps to stimulate the pancreas to release more enzymes which are essential for digestion and also helps the shrimps to convert the feed into energy.
- **Raigo** helps to breakdown the fats, proteins and carbohydrates and to use those nutrients for growth and for cell repair.
- **Raigo** has a unique formulated nutrients combination that help the animals to convert maximum feed into proper muscle buildup.
- **Raigo** also helps to shrimp to reduce stress conditions, proper body metabolism and to gain amazing growth during the culture period.
- **Raigo** helps to stop the using unnecessary chemicals in the shrimp culture and help to attract towards feed.
- **Raigo** helps to reduce total feed wastage and helps to convert maximum feed into muscle parts.

Presentation: 1 kg



POND SHADE

Water colorant for aquatic pond



Healthy "plankton blooms (populations of microscopic plants and animals)," established early in the spring, can turn pond water a green or brown color which will help inhibit the development of rooted aquatic vegetation and filamentous algae.

If plankton blooms do not develop after repeated attempts, are not desired, or are not practical to produce; the use of POND SHADE may help prevent unwanted plant growth. POND SHADE are used to impart a blue or blue-green color to water when added to ponds.

POND SHADE may also be added to decorative fountains, industrial cooling towers, and industrial ponds which have little or no water exchange. POND SHADE are supposed to "shade" the aquatic plants from sunlight while producing a more aesthetically pleasing color. According to our research and constant trials in aquaculture eco system, POND SHADE reduce sunlight penetration into the water column and reduce plant growth by inhibiting photosynthesis.

The dye consists of approximately 26% food dyes (acid blue, 23.63% and acid yellow #23, 2.39%). This product is designed to screen the red-orange and blue-violet light rays which the plants and algae require for growth. POND SHADE is applied from the container to the pond's surface at the rate of 1 mg/l (1 ppm), of dye to 4 acre feet of water.

As per the trials run at Sagar Biocare Pvt Ltd. trial ponds, this concentration should prevent the development of pondweeds, chara, naiads, water milfoil, or filamentous and blue green algae. A 2 mg/l dye application is recommended to prevent Eurasian milfoil and hydrilla in freshwater. POND SHADE may also be added to ponds during the summer in an effort to control established plant growth. Dye treatments may remain effective for 4 weeks or longer

Benefits

- ✓ POND SHADE assimilates light intensity in transparent pond and reduce light stress on Shrimp and Fish.
- ✓ POND SHADE control Phytoplankton bloom & pH Fluctuation.
- ✓ POND SHADE reduces Algae (including Benthic Algae) Content in ponds.
- ✓ POND SHADE prevent extreme temperature fluctuation.

Composition

Consists of mixture of blue and green powder dye

Application dose

- 250 gm/acre pond with 1 meter depth.
- Each 100gmx5 water suitable pouches

Presentation: 500 gm



BIOCLEAN 80

Special water treatment & conditioner for aquaculture



BIOCLEAN 80 is a unique formulation that reduces the requirement of harmful Antibiotics in Aquaculture through improved hygiene. It has exceptional microbicidal properties used for Water Treatment, General Site Disinfection, Fish Parasite Removal, and prevention of Infectious Disease In Fish & Shellfish. It has effective to prevent & control bacterial, protozoan, and monogenic infections. It controls bacterial, fungal, and algal diseases and certain protozoans, like Zoothamnium. It De Odourizes and purifies pond water.

BIOCLEAN 80 is a Quaternary Ammonium Compounds (QACs) used as a strong microbicide, disinfectant, algaecide and sanitizer in Aquaculture.

BIOCLEAN 80 is a cationic surfactant used as "topical disinfectant" to remove ectoparasites from fish, prawn and shrimp. It has detergent and antibacterial activity and is effective to treat bacterial, protozoan and monogenean infections. It is also recommended as bactericides and fungicides in shrimp hatcheries. Widely used in shrimp ponds to control infections.

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Benefits

- ✓ Eliminates tail and fin rot, fungal disease, dropsy and any others bacterial, viral and algal derived diseases.
- ✓ Removes black gail disease, soft shell disease, yellow head disease, and malnutrition disease. Excellent both in saline and fresh water.
- ✓ Bioclean is advocated for effective control of antenna rot, tail rot, gill rot, red gill, black spot, red discoloration and muscle necrosis in Prawn and Shrimp.
- ✓ Bioclean is advocated for prophylactic treatment of surface ulcers, wounds and lesions in fish culture.
- ✓ Bioclean suppress algae from over reproduction, and stabilize algae colour.

Composition

Alkyl Dimethyl Benzyl Ammonium Chloride: 80% with suitable stabilizers and activators.

Application dose

Dilute and mix required quantity (80: 375 ml to 650 ml/acre/m in water) of Bioclean 80 in water outside the pond and then spray uniformly throughout the pond.

Apply Bioclean 80 in daytime and turn on all the paddle wheel aerators for uniform distribution.

Presentation: 1lt



SOFTER

**water softner and chelating substance
for use in aquaculture.**

Applying softer to pond water causes the particles to stick to each other, creating larger particles that settle quickly so that the pond water doesn't become turbid.

The use of softer neutralizes the toxicity of ammonia, detoxifies toxic iron levels in borehole water, and prevents frequent collapse of plankton in aquaculture ponds by improving water quality.

For protection and elimination of hazardous matters from heavy metals (iron) and can reduce poison of insecticide and others fish poison solution such as Green Force in pond water.

softer also promote good alkalinity in pond water which easily helps to promote plankton growth.

Heavy metal (iron) will causes :

- Unstable growth of plankton
- Low survival rate during stocking of Post Larva due to external fouling problems
- Yellow gill in shrimp
- Always encounter plankton collapse (Lab-lab)
- Large accumulation of sludge in pond

Suggested usage :

- Treating normal iron pond :
500 gram / 2000 m² Once a week.
- Treating Heavy Metal / High Iron pond :
1.0 kg / 2000 m² Once every 5 days.

Application :

Mix softer with pond water and spread evenly in pond, aerate vigorously.

Presentation: 500 gm



Benefits

- ✓ Advanced formulation to reduce toxin compounds.
- ✓ Stabilizes alkalinity and balances pH fluctuations.
- ✓ Effective separation of solids from liquids.
- ✓ Minimizes free ammonia in pond water.
- ✓ No residue and is environmental friendly.
- ✓ Works in fresh and salt water.



YODINE

Unique And Powerful Sterilizer Lethal To Bacteria, Virus, Fungi And Protozoa



Iodophores are stabilised forms of iodine and are used worldwide as disinfectants for aquaculture practices. They also are used to disinfect fish eggs, shrimp eggs and nauplei and are effective against a wide range of bacteria, fungi and viruses. It is important that the eggs are not penetrated by the disinfectant.

YODINE is a unique and powerful Sterilizer lethal to Bacteria, Virus, Fungi and Protozoa. Very safe to Fish, Prawn and Shrimp in culture ponds.

Unique features of YODINE

- Organic matter, hardness, wide range of pH and varied salinity of water in aquaculture practices do not effect.
- Retention of biocidal activity is very high.
Controlled release of Iodine ensures long lasting effect.
- Non-toxic and non-corrosive for Aquaculture at user dilutions.
- Actively bactericidal, fungicidal with moderate virucidal and sporicidal effects.
- Absence of development of resistance by the microorganisms
- To kill pathogens rapidly by reacting the inner cell contents (nucleic acids)
- To treat antennal cuts, gill rot, black gills, brown gills, red gills, black spots, tail rot, broken legs, swollen gills, necrosis in prawn and shrimp.

Unique features of YODINE

- To control water pollution in Aquaculture.
- To control all Bacterial, Fungal, Viral and Protozoal infections in Aquaculture.
- To control secondary infections in Aquaculture and for general infections.
- High stability on storage.

Composition

Nonyl Alkyl Phenoxy Poly Etheylene Oxide Iodine Complex

Providing Available Iodine : 20%

Dosage and Usage

- YODINE is to be used based on the total volume of the water body.
- Fish, Prawn and Shrimp Ponds Dilute the required quantity in 100 litres of water and apply throughout the pond.

Viral and Fungal Infections

Use 100 ml to 250 ml per Acre/metre water depth.

Protozoan Infections

Use 100 ml to 250 ml per acre/foot water depth or Consult your Aquaculture Specialist for specific usage directions.



QQUICK

Unique Formulation For Quick Binder Gel



QQUICK is a first of its kind and type of instant making binder which helps to bind feed supplement with feed. Scientific feeding of shrimp through pellet feed is a part of Aquaculture. The shrimp's survival rate, growth rate, FCR values are to a great extent dependent on good feed and proper water management. QQUICK is the most advanced formulation for use as a binding agent to pelleted feeds.

QQUICK is an excellent binding agent to use feed additives in powder form, for supplementation along with pelleted feeds to achieve growth promotion, higher efficiency in F.C.R, and to prevent stress and disease in Aquaculture.

QQUICK provides necessary binding for the supplemented feed additives preventing any wastage or leaching of active ingredients.

QQUICK as a binder has excellent water stability and ensures efficient feed consumption and reduces feed wastage.

QQUICK produced after extensive research and field trials under strict quality control has excellent stability in water by not polluting the water quality or aggravating the pond bottom

QQUICK has attractive taste, flavour and palatability, so that the pelleted feed can be consumed quickly with minimum loss of nutrients.

Usage Indications

- ✓ Take 10-12 gram or a table spoon of QQUICK powder in 1 litre of freshwater.
- ✓ Use twice the capacity vessel for mixing (e.g. For making 1 litre of binder gel use 2 litre of vessel for proper mixing)
- ✓ Use whisker or hand blender for proper mixing
- ✓ Mix QQUICK powder slowly into the water by one hand simultaneously start mixing with other
- ✓ Keep mixing the solution for 1 minute
- ✓ Use the prepared gel on feed pellets along with feed additives, shade dry and broadcast. 20 to 30 ml of on feed pellets along with feed additives, shade dry and broadcast.

Presentation

300 gram dry powder

For use in Aquaculture Industry (Including Academic and Research Institutions & Universities etc)



PROYEAST



It is widely demonstrated that farmed fish, prawn and shrimp are more susceptible to disease agents than their wild counterparts due to the artificial conditions posed by intensive rearing. The immune system of aquatic organisms, such as fish, prawn and shrimp is continuously affected by periodic or unexpected changes of their environment. Adverse environmental situations may acutely or chronically stress the fish, prawn and shrimp altering some of their biochemical parameters and suppressing their innate and adaptive immune responses. Nonspecific defense mechanisms play an important role at all stages of infection. Fish, prawn and shrimp particularly, depend more heavily on these non-specific mechanisms than do mammals. Hence, there has been increasing interest in the modulation of the non-specific immune system of fish, prawn and shrimp as both a treatment and prophylactic measure against disease. When infectious outbreaks appear they may be fought by means of chemotherapeutants, vaccines or immunostimulants.

More recently, the administration of probiotics to fish, prawn and shrimp through the diet and to the pond has appeared as a very promising control measure in fish, prawn and shrimp farms.

ProYeast is a novel probiotic formulation of Yeast and Bacillus sp. to provide improved performance of commercially important aquaculture species in aquaculture ponds.

ProYeast formulation providing Saccharomyces cerevisiae and Bacillus sp. is well designed for maintenance and balanced growth rate of Shrimp, Prawn and Fish.

ProYeast has potential benefits to improve the non-specific immune response which reflected on the stimulation of macrophage cells and increasing their phagocytic activity. ProYeast could provide healthy and safe fish production from aquaculture replacing antibiotics for both fish and fish consumers.

Benefits

- Improved feed conversion.
- Enhanced survival rate.
- Reduction in feed cost.
- Reduced duration of the cycle to achieve target weight.
- Increased average weight and corresponding market value.
- Improved resistance against disease.
- Ability to adhere to and colonize the gut.
- To antagonize with other organisms notably putative pathogens.

Pond Application

- ✓ Allows higher stocking densities.
- ✓ Improved pond conditions with good plankton and beneficial bacterial density.
- ✓ Reduced water exchange.
- ✓ Enhances aquatic ecosystem.

Composition

ProYeast is a mixture of dense probiotic formulation of Saccharomyces cerevisiae and Bacillus sp.

Application dose

Feed supplement: 1-2 kg / ton of feed
Pond application: 1-2 kg / acre.
or as advised by Aquaculture Consultant.



VIT FLO



VIT FLO is an enhanced product specially developed for aquaculture to enhance the growth and overall health of fish. Vit flo contain a combination of natural and synthetic compounds, including vitamins, minerals, amino acids, and other nutrients that can help support the fish's growth and immune system.

Vitamins are essential nutrients that play a vital role in the growth and development of fish. Vitamin C, for example, can help improve immune function and reduce stress levels in fish, while vitamin E can help protect the fish from oxidative damage.

Minerals like calcium, phosphorus, and magnesium are important for bone growth and development in fish. Other minerals like iron and zinc are essential for metabolic functions and enzyme activities.

Amino acids are the building blocks of protein, which is essential for muscle growth and tissue repair in fish. Some amino acids like lysine and methionine are limiting amino acids, which means that they need to be supplemented in the diet to support optimal growth.

Probiotics are beneficial bacteria that can help improve gut health and nutrient absorption in fish. They can also help reduce the risk of disease and improve overall health and performance.

Vit flo can be an effective tool for improving the growth and health of fish in aquaculture systems.

Dosage / usage

5-10 gm per kg feed

Mix vit flo with sufficient quantity of binder gel and then apply on feed.

Mode of action

It improves the distribution of fat and protein in to the body, that will help fish for better feed intake and converting it in to muscle formation.

Benefits

- EFFICIENT FEED CONVERSION
- Improves growth rate
- Helps to maintain osmoregulation
- Helps fish for faster growth and muscle building



CLAROXY TAB



Any life in the world requires oxygen to live and exist except for few Bacteria called anaerobes and virus. The living beings on earth take oxygen of the air where as the once in the water takes from the dissolved oxygen (D.O) of the water by gills. This D.O. parameters are great importance as it is a critical factor for their existence. The most ideal level for shrimp & fish will be 6mg. /lit of water. If this level goes down the shrimp will go in to stress for want of oxygen but fish may with stand.

The dissolved oxygen of the water is maintained by the phytoplankton during photosynthesis by photolysis of water and by carbohydrate synthesis during the daytime by sun light. But during night culture species together with Bacteria, Protozoa, plants etc., demand oxygen for breathing and the D.O. load comes down drastically. During such situation of low D.O. levels fish more so shrimp goes in the stress and come to edges of the pond for fresh air and aerated water. These stress leads to drop in feed consumption, immunity, restlessness, irregular swimming etc., When moderate plankton is there in the pond, the D.O. levels go as high as 8 to 9 by about 4-5 PM (Evening) and come down to as low as 2 or even less by 4-5 AM (Morning).

Any chemical used to improve the oxygen in the pond (D.O.) will produce or release nascent and atomic oxygen only (O). But molecular oxygen (O₂) in the one which is required and consumed by the animal. Nascent/atomic oxygen is an oxidizing agent as a detonator but cannot improve the D.O. level. It requires a certain sequestering agent and buffers to convert the nascent/atomic oxygen – O to O₂ which only can oxygenate the blood and carry oxygen to all parts in the animal.

To solve this ticklish problem of converting nascent / atomic oxygen to molecular oxygen which in reality required by the species CLAROXY -TAB is developed. it contains very important sequestering agents and buffer to convert the nascent / atomic oxygen – O to molecular oxygen (O₂) (O+O=O₂). CLAROXY -TAB releases molecular oxygen that improves the D.O. of the pond water and save the species from stress and other breathlessness.

Benefits

- Releases dissolved oxygen levels instantaneously up to 8 hours.
- Relieves animal from stress.
- Helps to reduce anaerobic condition at pond bottom and optimizes fish and shrimp production.
- Helps to reduce nitrite and hydrogen sulphide.

Application dose

Take the recommended quantity of tablets and distribute all over the pond

Dosage

Low oxygen level: 1 kg/ hectare
Oxygen deficiency : 3-5 kg/ hectare
For detaching Zoothamnium
After moulting : 1kg / hectare

Method Of Application

apply required quantity of claroxy -tab over the waterbody to uniformly cover the pond area.



The **Sagar**®
—good care of growth—

Manufactured & Marketed By

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