Important micronutrients in Aquaculture For IBPS AFO By agriguru.in



Important micronutrients in Aquaculture

- **Micronutrients are essential for aquaculture productivity as well as water health management .**
- **Apart from the primary elements (Nitrogen , Phosphorus ,Potassium) , 4 micronutrients are mostly required for fish health management n water fertilization .**
- **These four are → Zinc , Cobalt , Manganese , Copper .**

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Quantitatively ,Iron and zinc are important .

Zinc

A. **For beneficial growth of fish ,e.g. Silver carp catla.**

B. **_Essential for synthesis of DNA & RNA.**

C. **Essential for cell proliferation.**

D. **Zinc dependent enzymes are Carbonic anhydrase, Alkaline phosphate ,Alcohol dehydrogenase .**

Cobalt

A. Essential for Nitrogen fixation in Rhizobium.

B. Constituent of Vitamin B 12. Responsible for absorption of B12 .

C. In the culture of Silver carp and Mrigal 10 kg of Cobalt chloride / hectare has been proved beneficial in polyculture practices .

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D. Using cobalt chloride in hatchery practice, improves spawn survivability .

Manganese

A. Helps in photosynthesis in phytoplankton.

B. _Involved in mucopolysaccharide formation ,needed for healthy joint membrane .

C. It also act as an enzyme inhibitor.



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Copper

A. Useful for controlling algal blooms ,e.g. $CuSO_4$ for blue green algae bloom control.

B. Acts as the co-factor of many proteins .e.g. superoxide dismutase .

C. Both ,Fe & Cu important in cellular respiration .

D. Copper is essential for activation of enzyme Cytochrome C- Oxidase.

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