#### **Advisory to Aqua-farmers**

#### **Better management practices in Aquaculture**



# Hydrogen sulphide formation in aquaculture farm and its problems

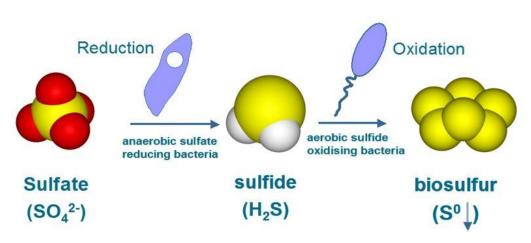


Results from decay of excessive feed, faecal matter dead and decaying

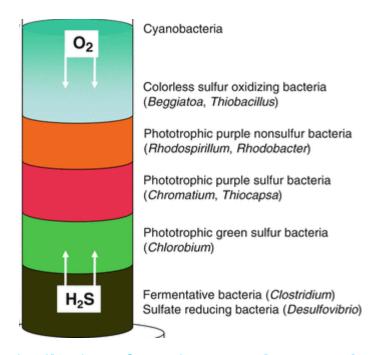
Form layeponthersolserface with black color and bad smell (rotten egg)

It is highly toxic at very low levels causing 100% mortality

### **Sulphur oxidizing bacteria (SOB)**

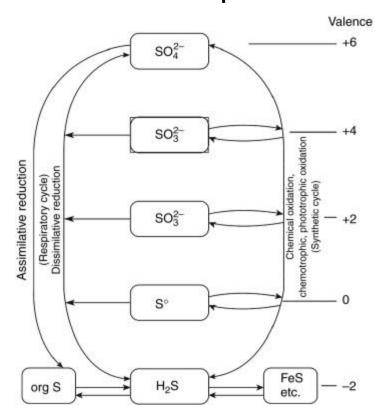


# Sulphur oxidizing bacteria metabolizes sulphide to elemental sulphur and sulphate which is non-toxic



#### **Distribution of SOB in aquaculture pond**

## Beneficial role of SOB in aquaculture



Participates in the assimilative and dissimilative reduction of sulphur compounds in the pond bottom

They are having capability of utilizing toxic H<sub>2</sub>S in their metabolism

They can be applied as beneficial bacteria for improving water quality either in liquid or lyophilized form

They promotes better environmental conditions for growth of aquatic animals

**Adopt BMP in aquaculture** 

**Use of SOB as Bio-inoculants** 

Provide congenial environment for animal growth

Improved productivity in Aquaculture systems



