



Aquaculture Production Project.

For India, 350 KLD, ETP water source.



W E R A H
Technologies Ltd.





Wekah Technologies Ltd. Introduction:

Projects and technology integrators with 30 years of experience in a variety of Agriculture projects, aquaculture projects conducted in Ecuador, Colombia, Angola , South Sudan, and integration of technologies to fisheries in Israel



An Aquaculture Project is defined by the following factors:

- **Market capacity and expected price –return.**
- **Consumption habits and demand – sometimes the same specie is consumed in different varieties and forms. Traditional habits are difficult to change.**
- **Industrialization potential and elaborated products.**
- **Existing infrastructure , ambient conditions and water status and capacity.**

Modern technologies enable to grow almost anything any where successfully but the costs of productions should be compensated by the market!!

Left to right : Extensive , Semi –Intensive , Intensive

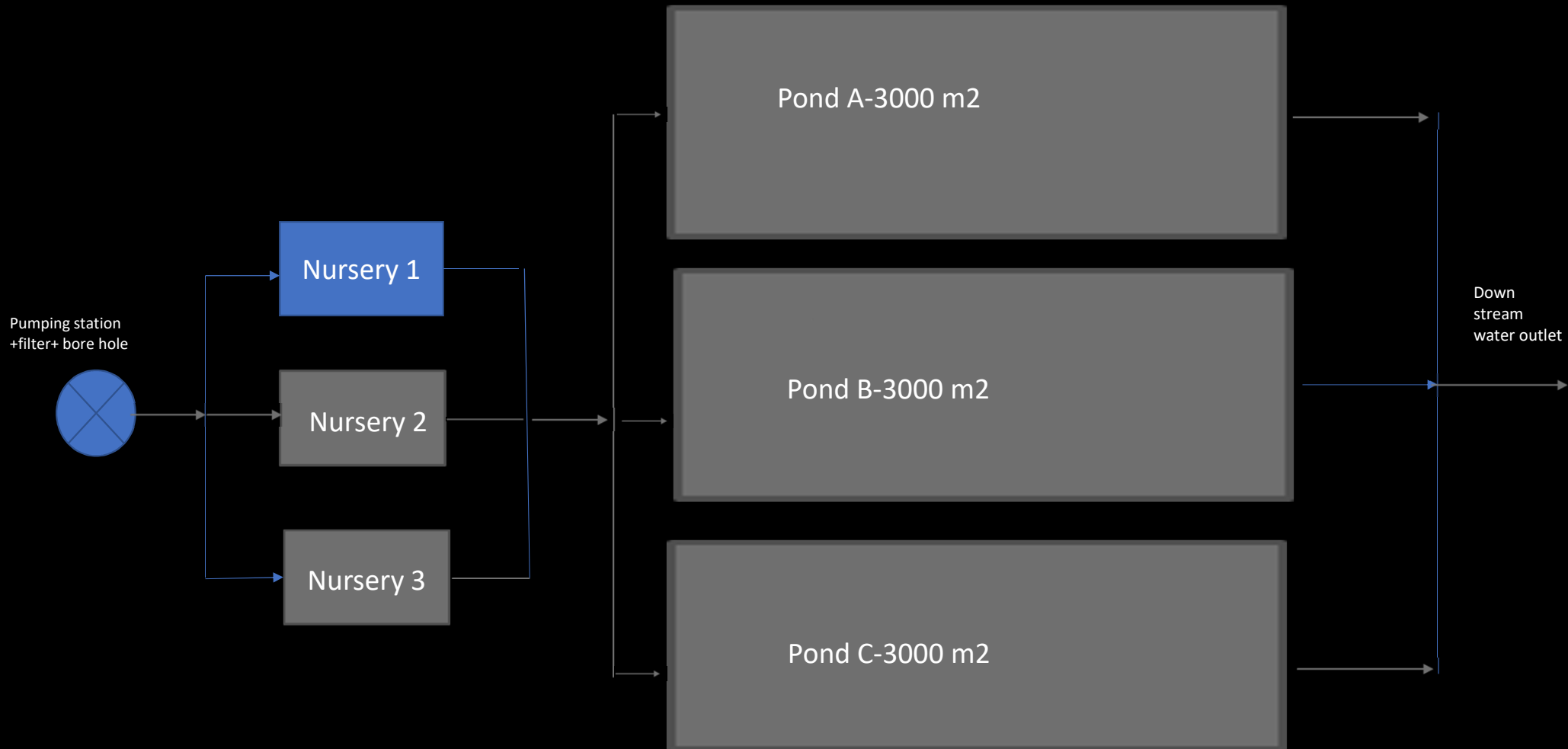


Indication of costs in 3 options for fish project

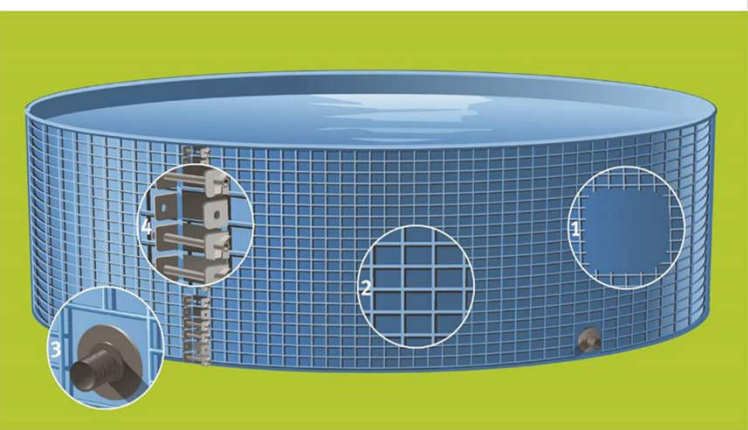
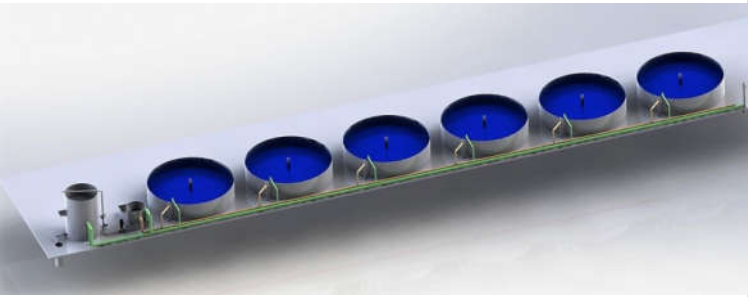
A. Extensive, B. Semi - Intensive , C. Intensive

	A.EXTENSIVE	B.SEMI- INTENSIVE	C.INTENSIVE
Production System	Earthen Pond Big earthen pond. <u>Extensive low density</u>	Earthen Pond Big earthen pond. <u>semi intensive</u> <u>Airation , water circulation , artificial feeding</u>	Concrete/Plastic Tank Small concrete/Plastic Tank. <u>Intensive high density</u> <u>Oxygen injection , constant water change, intensive balanced concentrate fededing.</u>
Production per Ha	Up to 5,000kg/ha	Up to 10,000kg/ha	Up to 200,000kg/ha
Use of electricity	NO	Yes	Yes
Investment costs per kg/fish	3US\$-4US\$ per Kg of fish produced	3US\$-4.5US\$ per Kg of fish produced	3US\$-4.5US\$ per Kg of fish produced
Operating costs *estimated for tilapia	1.5US\$- 2 US\$ per Kg of fish produced	2US\$-2.5US\$ per Kg of fish produced	2US\$-2.5US\$ per Kg of fish produced
Amortization	10-20 years	10-20 years	10-20 years

Example of semi intensive array in ponds



Since the project is limited to 350 KLD of water ,probably intensive hi-tech growing will be recommended, and ETP water will need Biological Filtering + additional sterilizing and minerals control.

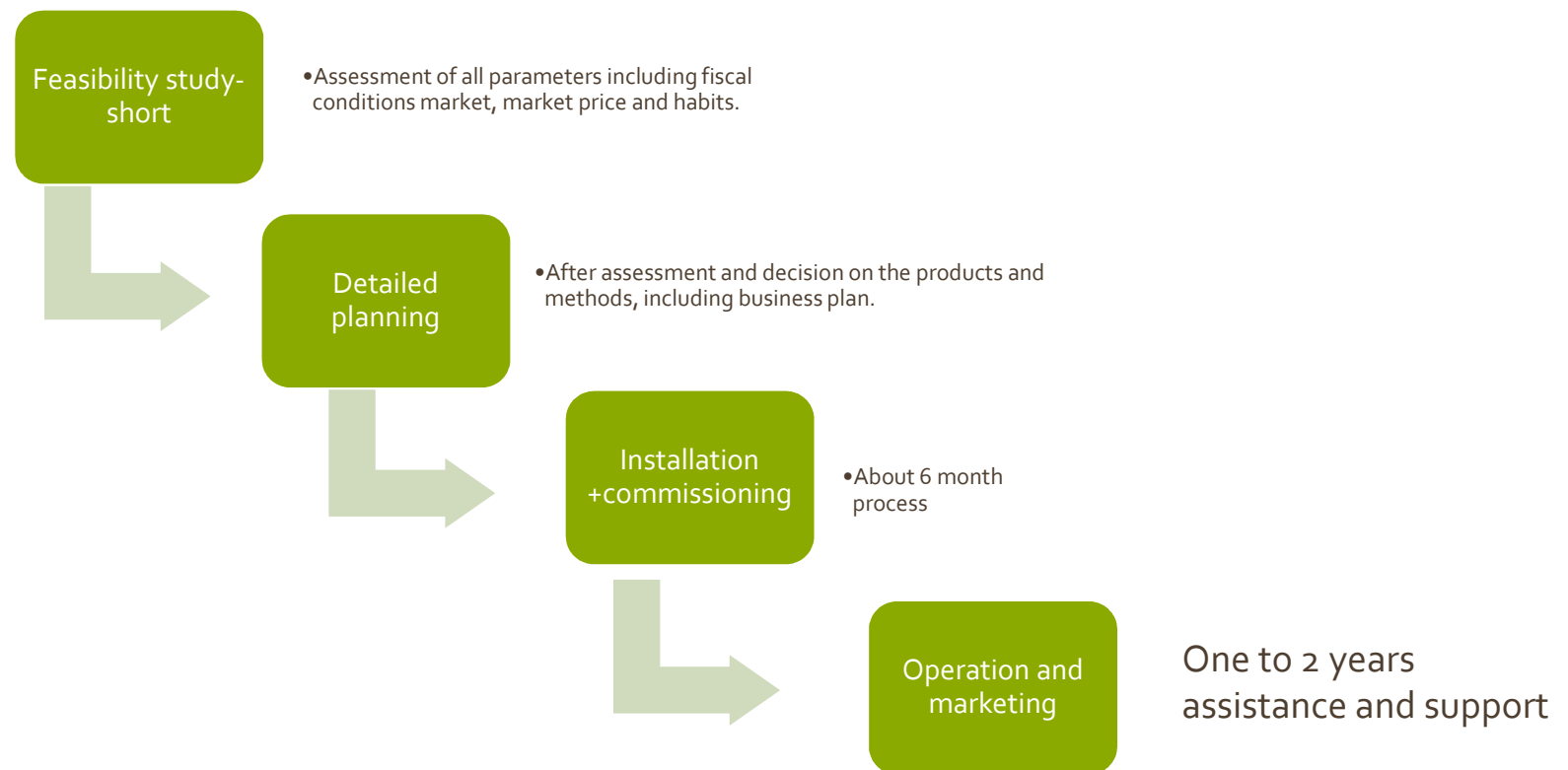


Nurseries and breeding

In some cases it is convenient to combine Aquaculture with Agriculture using the down stream exceeding water.



Flow diagram of Aquaculture Project.





Thank You !

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