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# **Transportation of Seed**

Do you know **Finding good quality** fingerlings (seed), Transportation & Stocking are necessary for ensuring good production?





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Yes Baideo, but how to prepare seed for transportation at packing place?

Stop feeding fingerlings 24 -48 hours prior to transportation.

Condition the fingerlings minimum of 2 hours before packing, i.e. remove excreta & keep the fish in clean water. Remove any dead & weak fish. Keep all the packing material ready (container, oxygen cylinder, etc.) Count or weigh the fingerlings and pack during cool hours (very early morning or late evening)

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There are 2 methods of seed transportation.

## 1. Open system

Where fish seed in transported in an open container fitted in a vehicle with equipment for continuous oxygen supply. This is normally used when large quantities are to be transported over a short distance

### 2. Closed system

In closed system, fingerlings are transported in polythene bags filled with water & pure oxygen and made leak-proof by either sealing or tying with rubber bands.

This method is safe for transporting fingerlings up to 24 hours in healthy condition with no or minimal death (< 5%)

Now lets see these methods in details

# Here's how to prepare for transportation



## **Open system transportation**

Bikes, vans, trucks are used for transportation like shown here. We need to change the water partially every 200 km for long distance travel.







# Here's how to prepare for closed system transportation



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# **Closed system transportation**





Oh, thank you for sharing that Baideo. How much seed can we transport safely using these methods? Good question. We measure the seed density by length and weight of the fingerling.

For convenience, we count the fingerlings using cups with perforation or tea strainers; and the capacity of the cup is counted manually.

**Suggested density of Fish Seed per bag based on the fish length.** Size of the bag 65-75cm X4—50cm with 30-50 microns thickness 16-18 ltr capacity.

Size of the Fish	Number per Bag	Transport Duration
8-15 mm	1000-1500	Up to 24 hours & the number packed is determined by the size distance and also the number of travel hours
15-25 mm	300-500	
25-50 mm	250-400	
50-100 mm	100-250	
Suggested density of Fingerlings based on weight		
Seedling weight in grams	Number per Bag	Transport Duration
1-5	2000	12 hours
1-5	1000	24 hours
5-30	500	12 hours
30-60	20-30	8 hours
60-100	8-10	8 hours

Here's a table you can refer to for suggest density of fish seed



1. Fingerlings from hatchery



2. Disinfect the fingerlings by dipping in KMn04 solution 3. Transfer the

fingerlings to the bucket

to release in hapa net

Immediately after arrival, adjust the packed fish to pond temperature by letting the closed bags float on the water preferably in a shaded area for 15 Minutes.

During this period prepare KMnO4 solution using pond water.

Open the bag and crimp the edge several times to have a floating bowl and now mix with pond water by allowing the pond water into bag and slowly replace bag.

Catch fish in a net and dip them in a disinfectant solution prepared and release the fish into a happa.

Condition the fish for about 1 hour, remove dead fish if any and then release the fish into pond slowly.