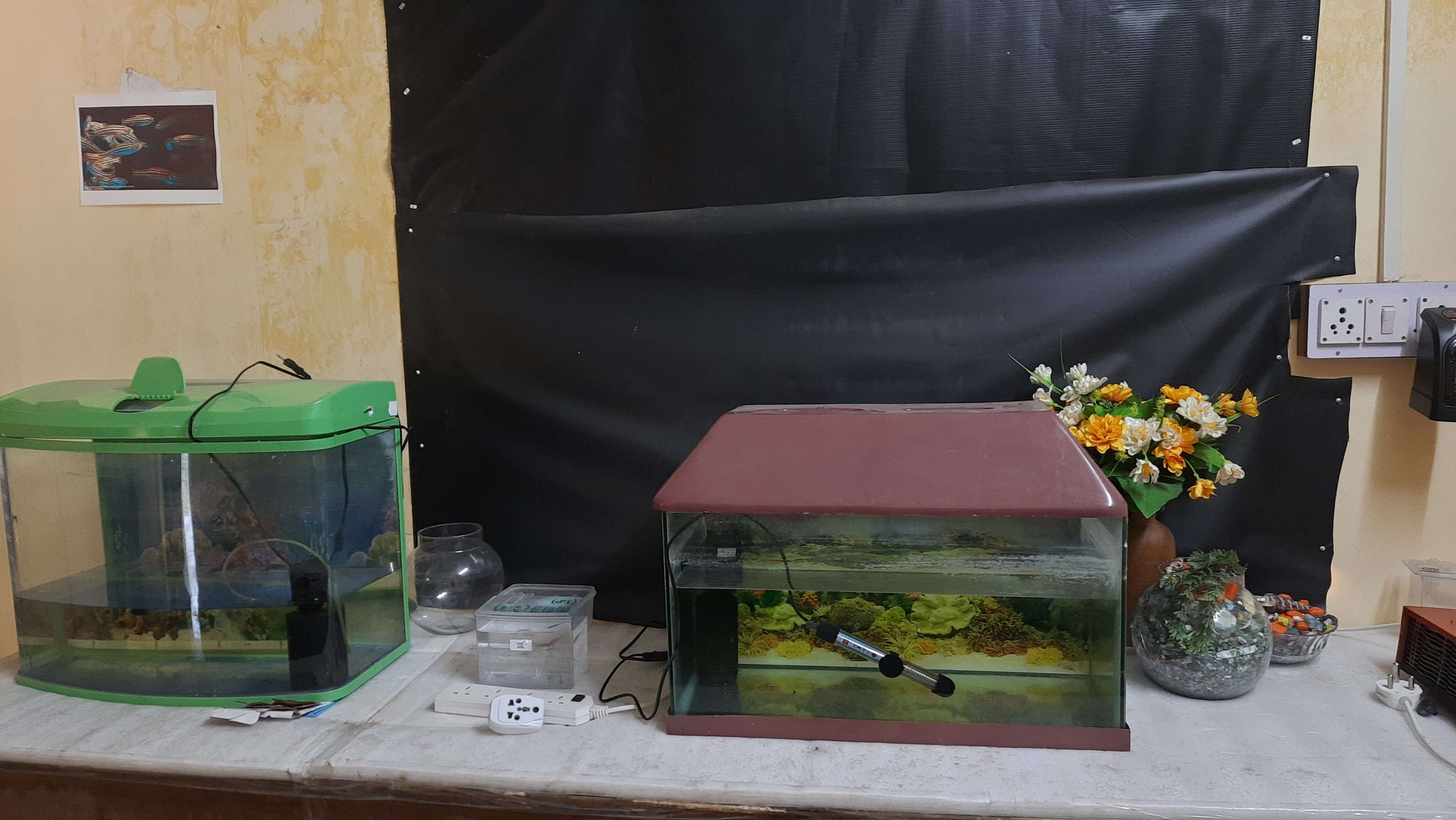
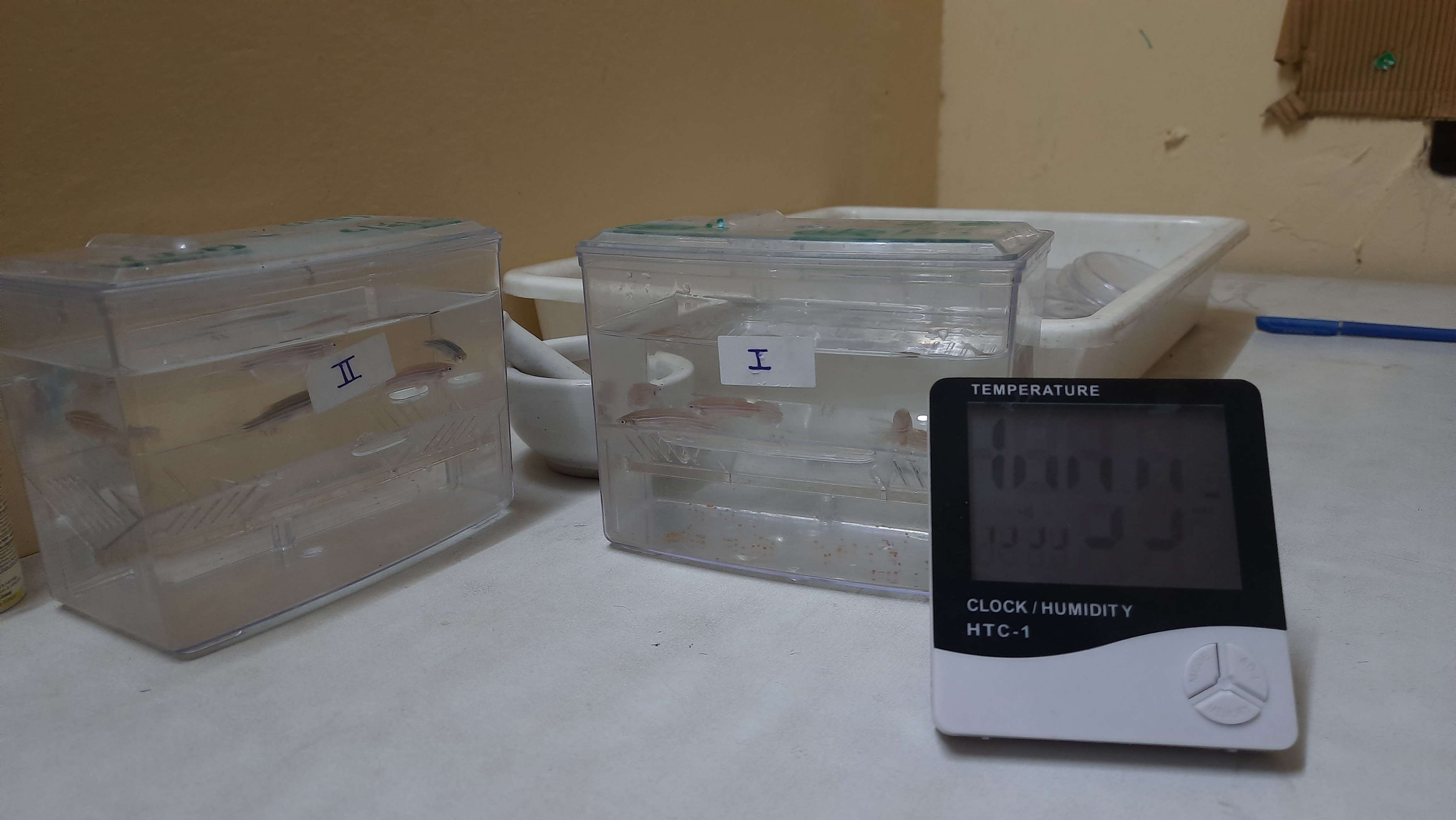
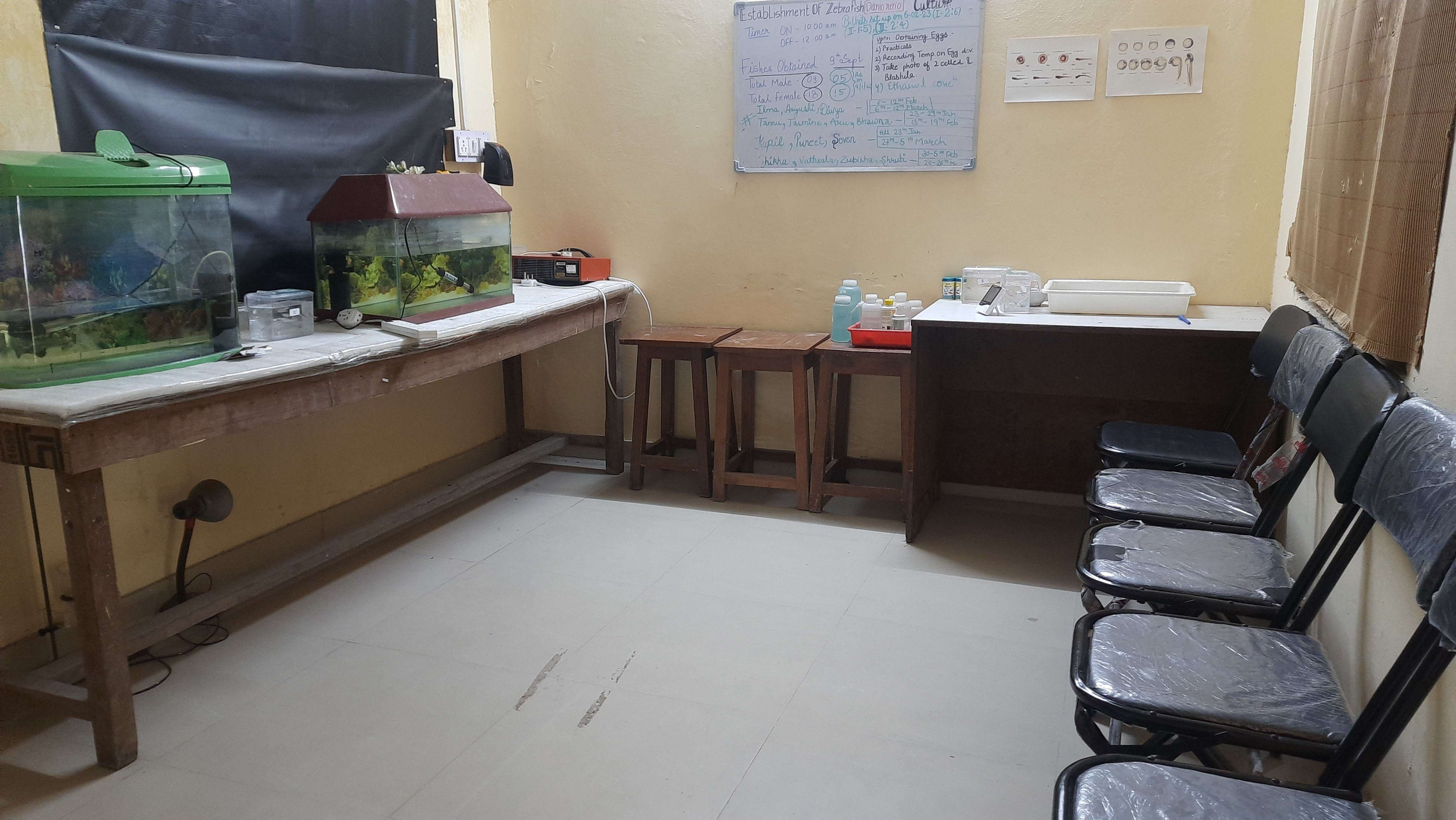
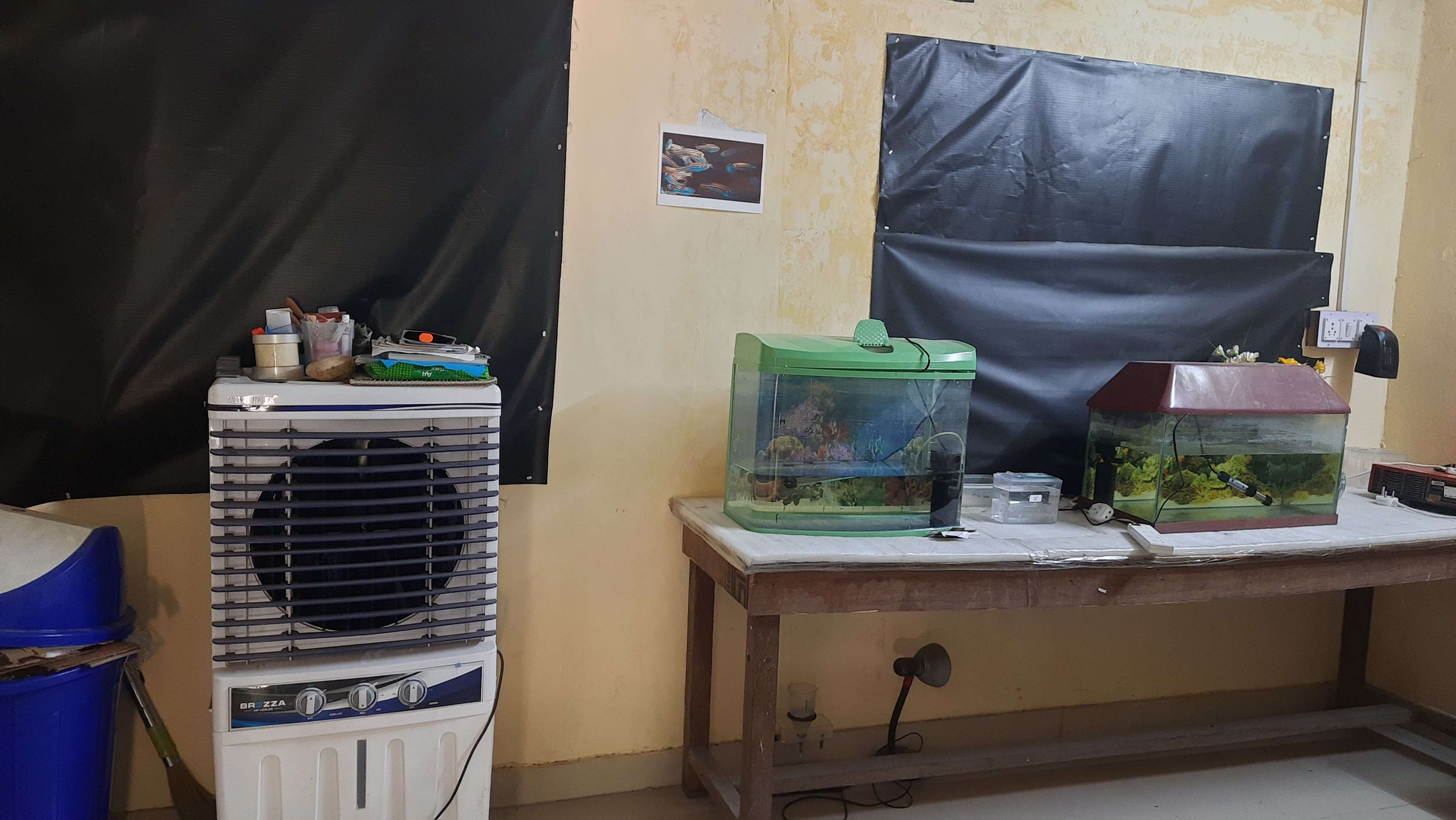



II
I
TEMPERATURE
CLOCK / HUMIDITY
HTC-1


Establishment of Zebrafish Danio rerio Culture
Timer ON - 10.00 a.m.
OFF - 12.00 a.m.
B Units set up on 6-02-23 (I- 2:6)
(II- 1:5), (III- 2:4)
Upon Obtaining Eggs :-
1) Practicals
2) Recording Temp on Egg dev.
3) Take photo of 2 celled & Blastula
4) Ethanol conc"
Fishes Obtained 9th Sept
Total Male - 04 05
Total Female - 12 15
As on 9/11/23
Ilma, Aayushi, Divya - 6 - 12th Feb. 6th - 12th March
Tanu, Jasmine, Anu, Bhawna - 23 - 24th Jan. 13th - 19th Feb
Kapil, Pureet, Soven - till 23rd Jan. 27th - 5th March
Shikha, Vathsala, Zubista, Shruti - 30-5th Feb 20-26th Mc


BREZZA


Topic - To establish the Culture of Zebrafish (Danio rerio) in our lab to know it's Breeding process.
Objective -
Introduction -
The zebrafish is a popular fresh water aquarium fish. It is easy to breed.
Methodological approach -
Zebrafish can easily be maintained and bred in the laboratory.
Will maintain the temperature about 28°C by heating the room.
Will usually keep under a 14 hours light and 10 hours in dark.
Will add snails to turnover waste into sediment.
Under the maintenance conditions zebrafish reaches sexual maturity in 2.5- 3 months.
Expected outcomes -
Thesis structure -
Estimate Budget -
Approximate Time -
Approx. 4 - 4.5 months are needed for overall observation and establishment of the culture of zebrafish.
References -
1. Yourgenome website from Google
2. IZMC theoretical part.
3.
cell
yolk
adult
pigment cell
15 min zygote
3 months
48 h larval stage
~1000 cells
45 min cleavage period
Eye
Tail
16 h hatching
Trunk
2 h epiboly and gastrula period
8 h segmentation
ACHARYA NARENDRA DEV COLLEGE
University Of Delhi,
Govindpuri, Kalka Ji, New Delhi
ACCREDITED 'A' Grade by NAAC With Score of 3.31
Star DBT College
Zebra Fish Activity Log
MONTH: September 2022
ROOM No.: T-3
IN ANY EMERGENCY CONTACT
ITEM CHECK
DAILY
Check feed and water
Sweep/Mop floor
Temperature
ALTERNATE DAYS
Check timer
Autoclaving of nets
Water change
Physical count of fishes
Cleaning Of Filter
WEEKLY
Cleaning of breeding units
Autoclaving of breeding units
EVERY TWO WEEKS
Restocking of fishes
MONTHLY
Evaluating Health of Fishes
Washing of Aquarium
Checking and Cleaning of lab
SUGGESTIONS AND COMPLAINT BOX