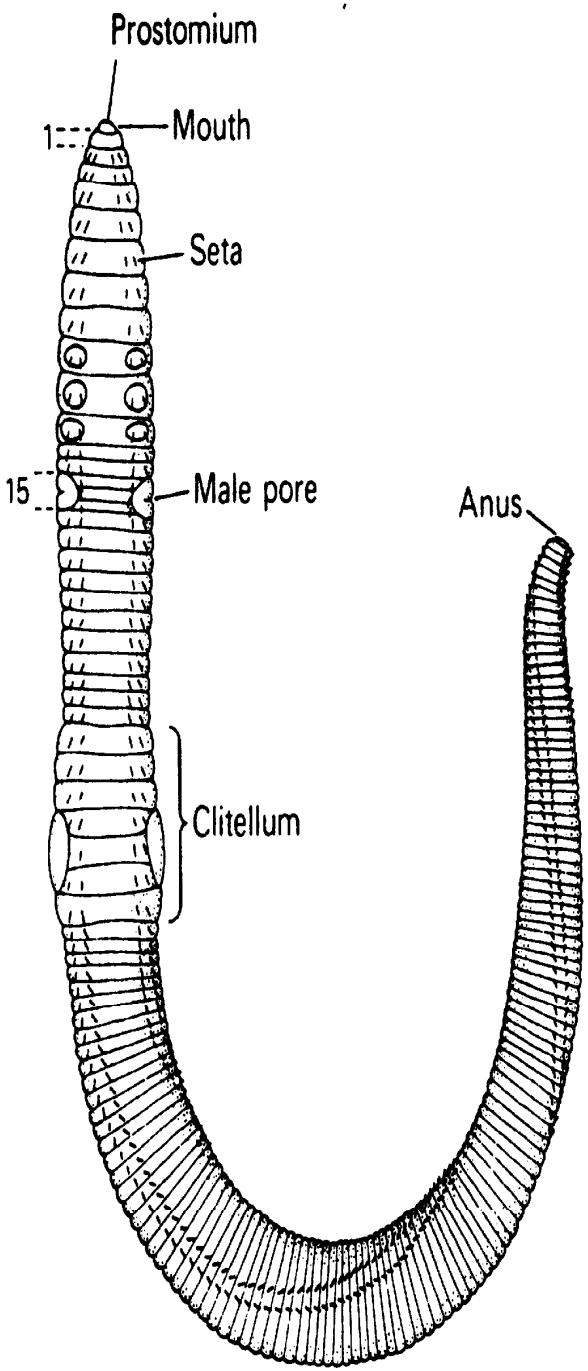
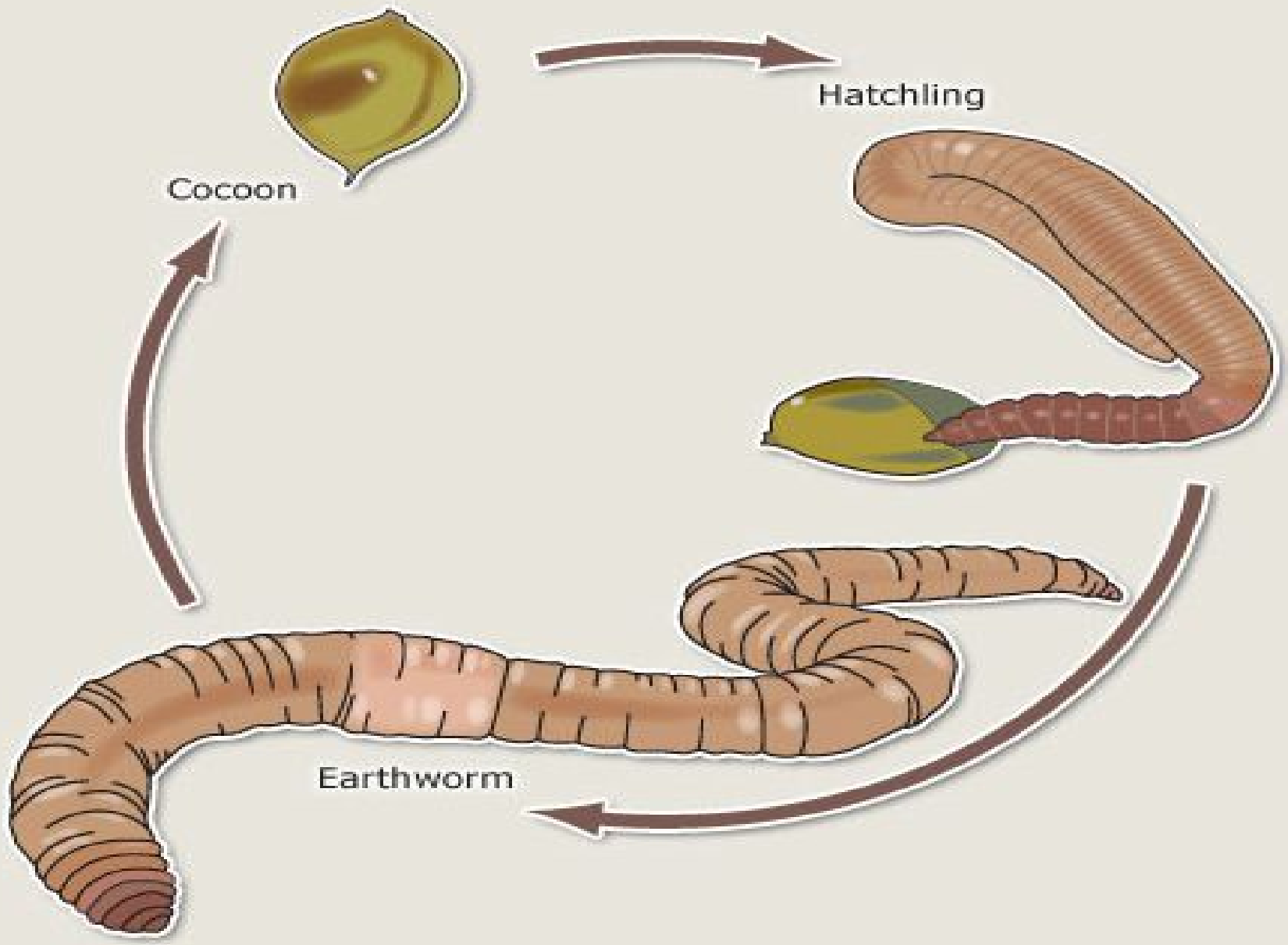
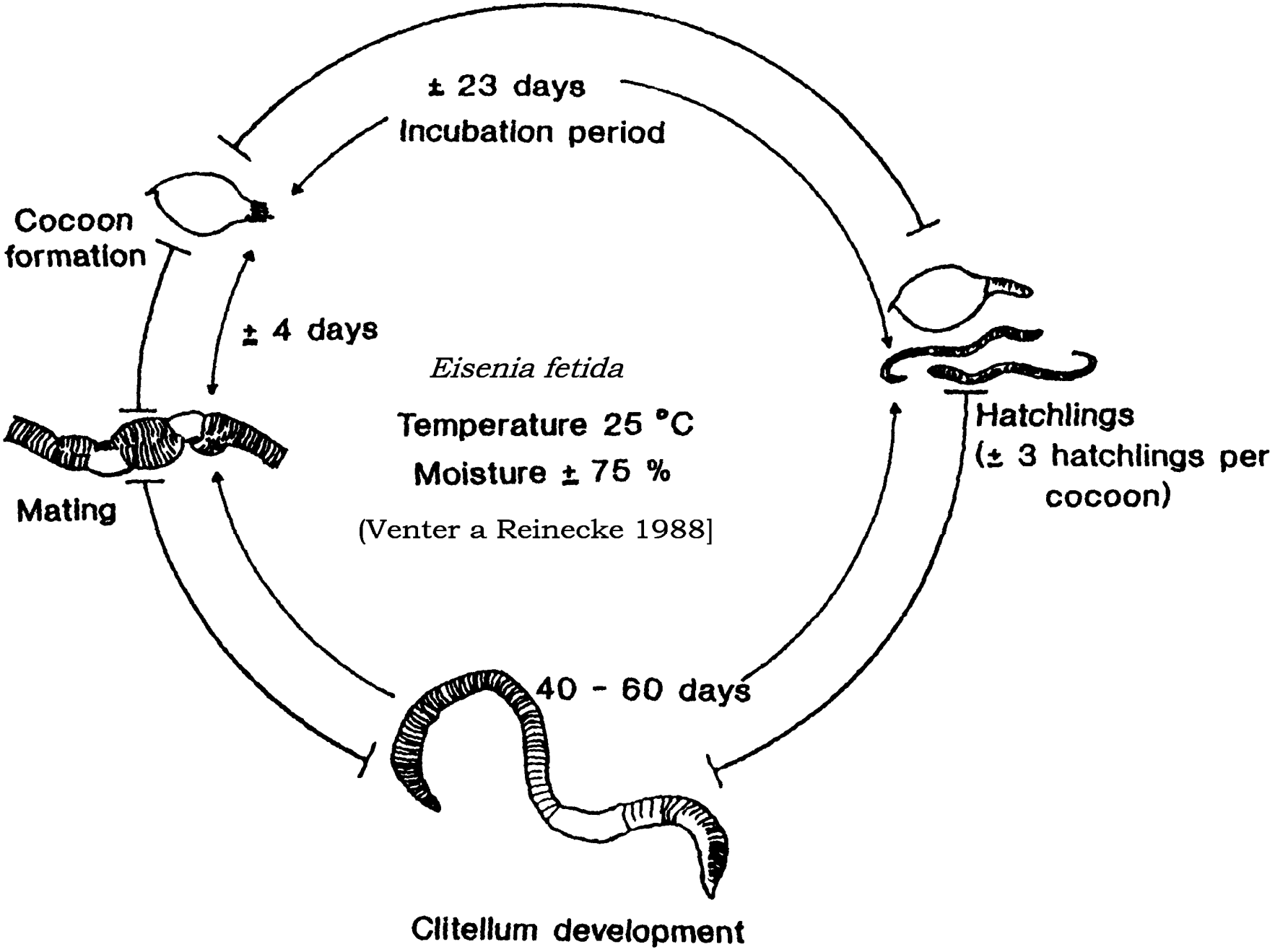
EARTHWORM

VERMICOMPOSTING

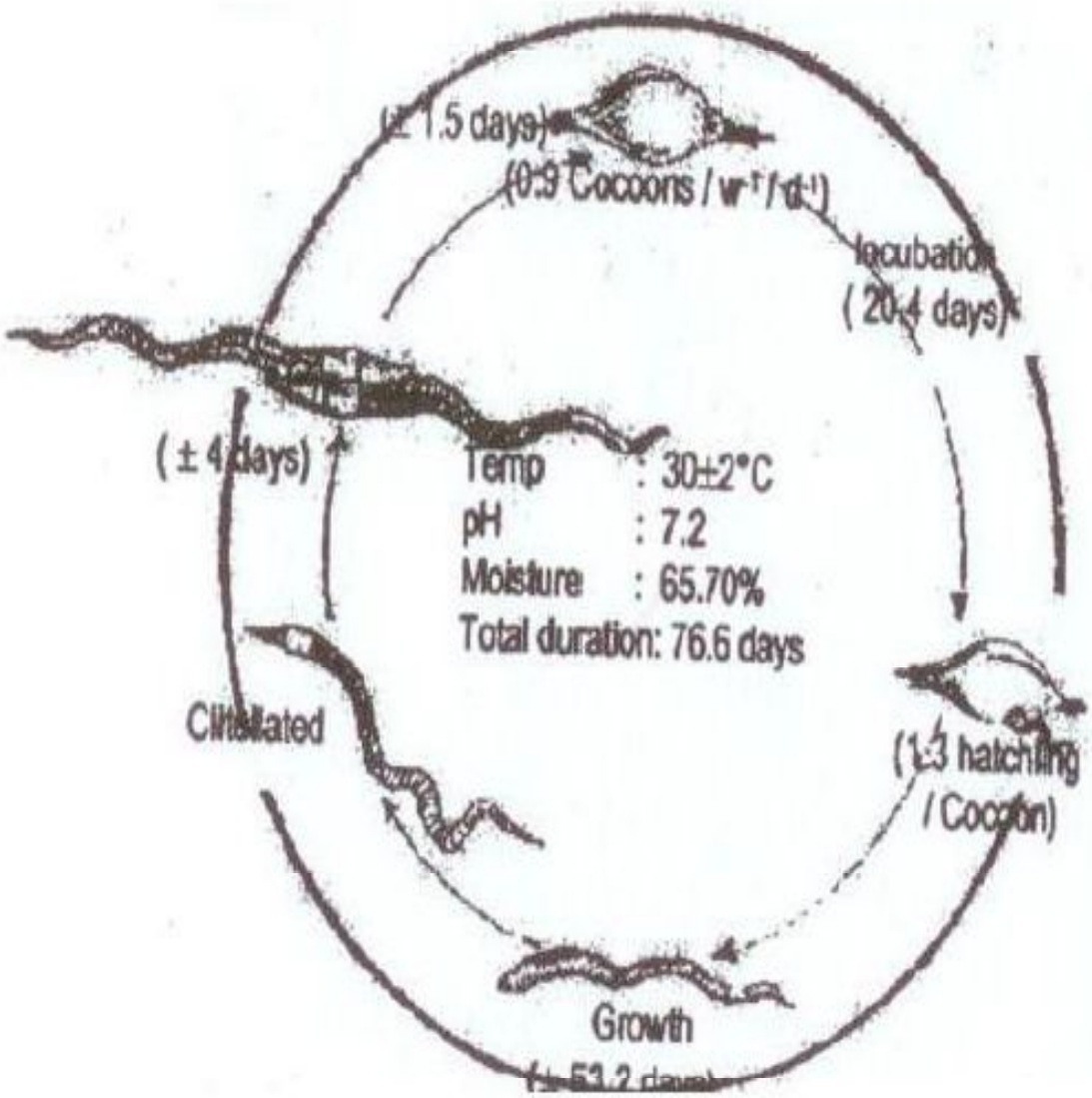
A Way to Recycle Food Waste


Prostomium
Mouth
Seta
Male pore
Anus
Clitellum


Hatchling
Cocoon
Earthworm

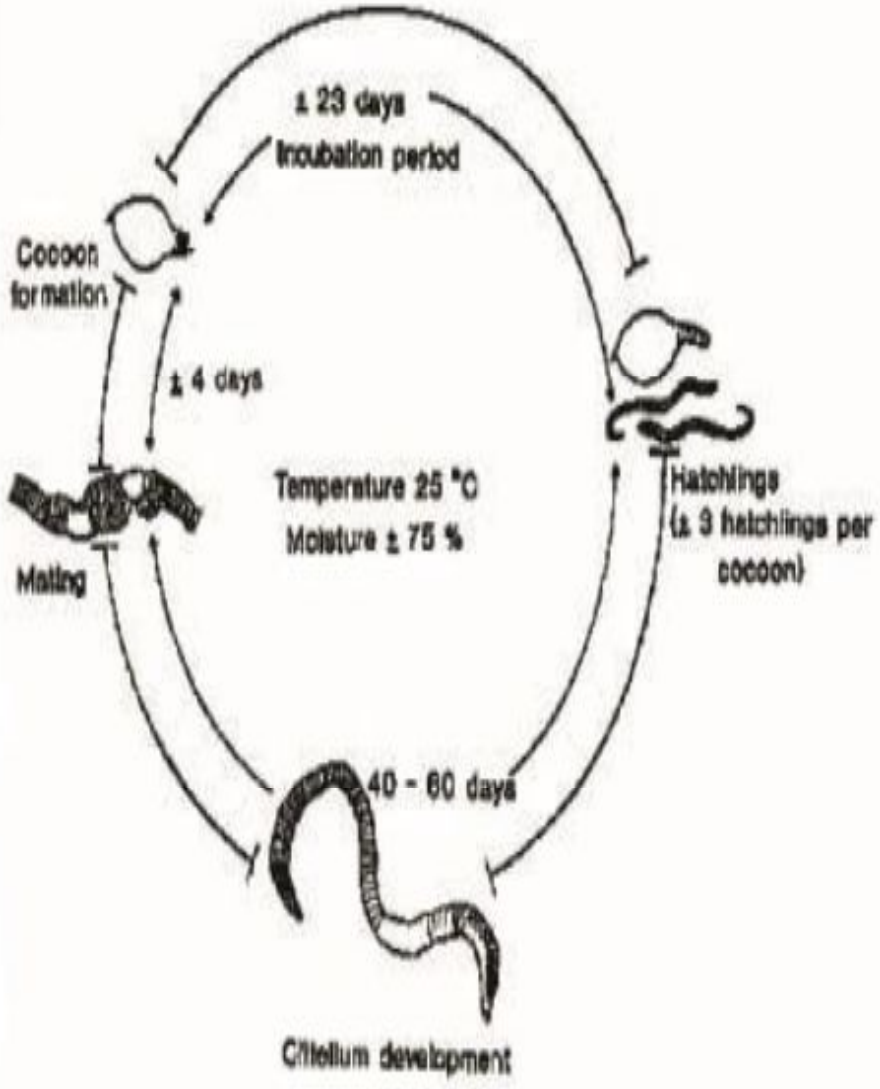

± 23 days
Incubation period
Cocoon formation
± 4 days
Eisenia fetida
Temperature 25 °C
Moisture ± 75 %
(Venter a Reinecke 1988]
Hatchlings
(± 3 hatchlings per cocoon)
Mating
40 - 60 days
Clitellum development

The African night crawler, *Eudrilus eugeniae*



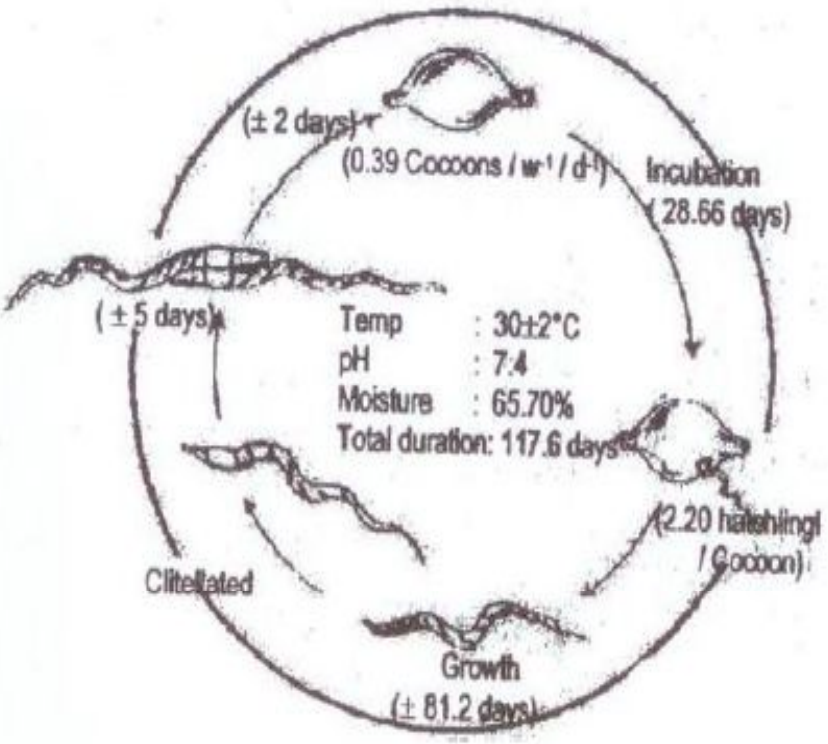
The European Red worm, *Eisenia fetida*

Life cycle of Red worm, *Eisenia fetida*



Lampito mauritii

Life cycle of *Lampito mauritii*



The Composting Earthworms

The exotic Earthworms are

- The African night crawler, *Eudrilus eugeniae*
- The European Red worm, *Eisenia fetida*

The Indigenous Earthworms are

- *Perionyx excavatus*
- *Lampito mauritii*
- *Polypheretima elongata*
- *Pontoscolex corethrurus*
-

WWW.TheWormDude.Com

A layer of broken bricks is laid at the bottom of the tank (5 cm)

A layer of coarse sand is laid in the tank (3 cm)

A layer of fine sand is laid in the tank (3 cm)

A layer of red soil is laid in the tank (4 cm) – Top Layer

Excess water outlet provision in the tanks along with

Provision for easy harvesting of vermicompost

Plant Organic wastes – A heap of fallen leaves of our college campus

Leaves are spread for sun drying

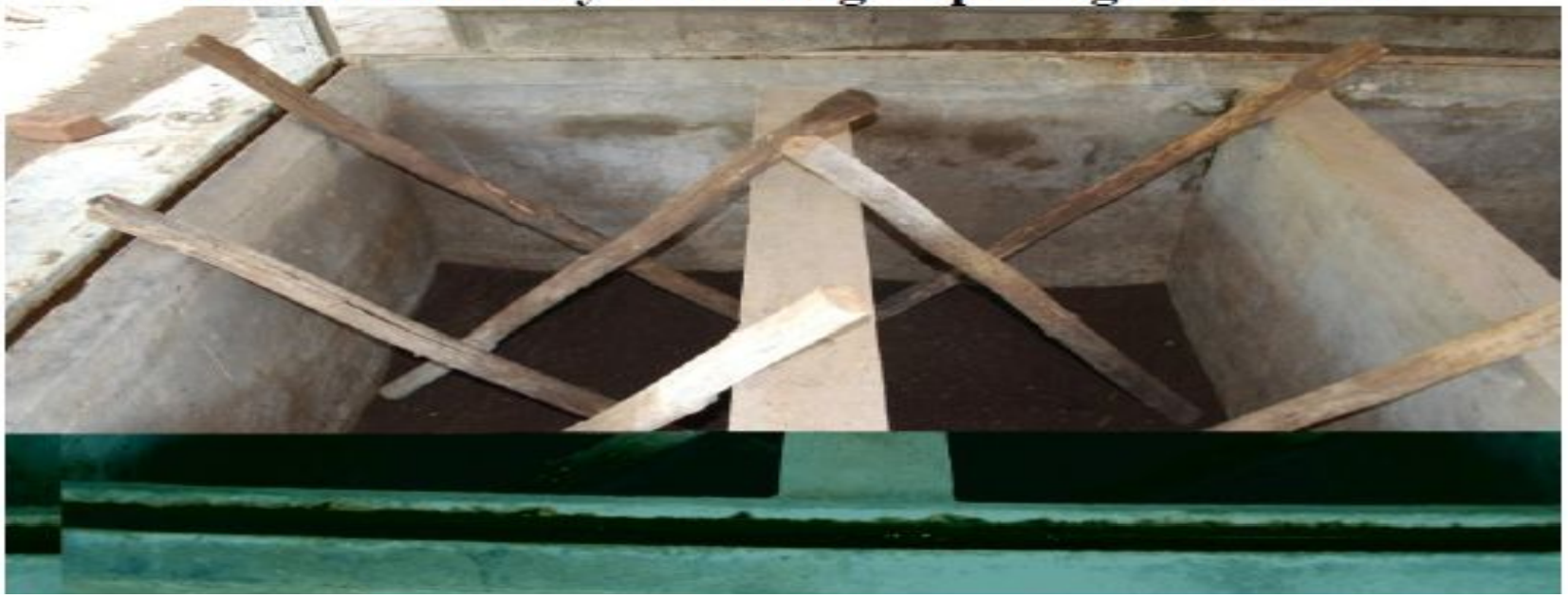
Cow dung is being unloaded

Cow dung is spread for sun drying

Cow dung is being watered

Mixing of cured cow dung and cured leaves

Tanks are ready for filling of predigested food



Tanks are filled with pre-digested food

Holes are made for watering the pre-digested food

A handful of earthworms is ready for inoculation

Inoculation of earthworms by our students

Earthworms after inoculation in the vermibed

A normal view of vermicast in the vermicomposting tank

Heap of vermicompost in the tank

Isolation of Earthworms

Cocoons of *Eudrilus eugeniae*

Hatchery Pit

Tanks are meant for rearing of Young earthworms

Sieving of vermicompost by using 3mm mesh size sieve

Vermicompost – Final product – Appears like a tea dust – Odour less

Storage tanks

Packing of vermicompost

Packed Vermicompost for Sale

RedWormComposting.com

VERMI COMPOST

RedWormComposting.com

www.wildfilmsindia.com