

Ghaf Tree Bark



Used as medicine, leather tanning, traditional crafts erosion control and for construction.

Ghaf Tree Trunk



Provides timber for construction and furniture, provides shade and shelter, and used as fuel

Burnt Wood



Used as fuel, for artistic and Industrial uses, to grill, water filtration and for medicinal use

Minerals



Minerals like gypsum and limestone are mainly used for industrial purposes



UAE Red Desert Sand

Iron Oxides-10%
Feldspar-5%

Silica-10%



Ghaf Tree

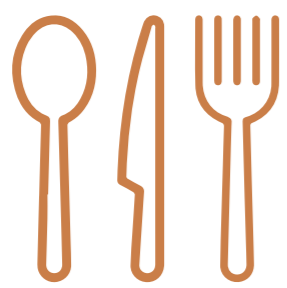
Protein-10%
Fiber-10%
Iron-3%
Calcium-2%
Phosphorus-0.5%

Carbohydrates-50%



CONCEPT

The main concept was developed from an experiment we conducted during our field research using sand and water. It was further developed into the concept of a shared experience to cook the dish rather than cooking food. With this project, we aim to create an alternative to one-time-use plastic dishes. Our dishes are made of a natural biomaterial using sand, okra, and lime in the ratio 40:50:20 to develop a series of cutlery and plates. The final device will be made out of metal.



What we cook

we are cooking the dish made using our own biomaterial



When we cook

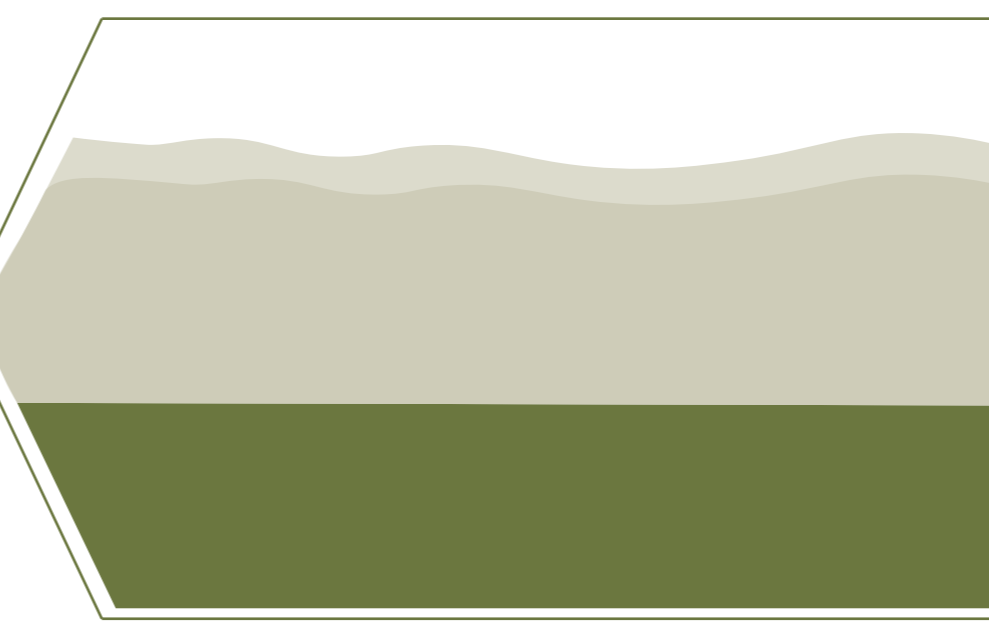
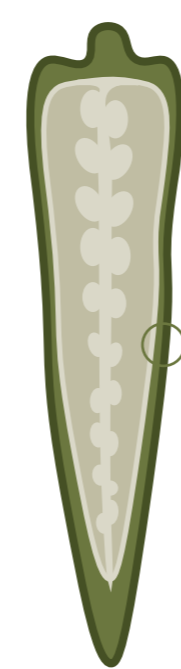
we cook during the day; whenever there is sunlight



How we cook

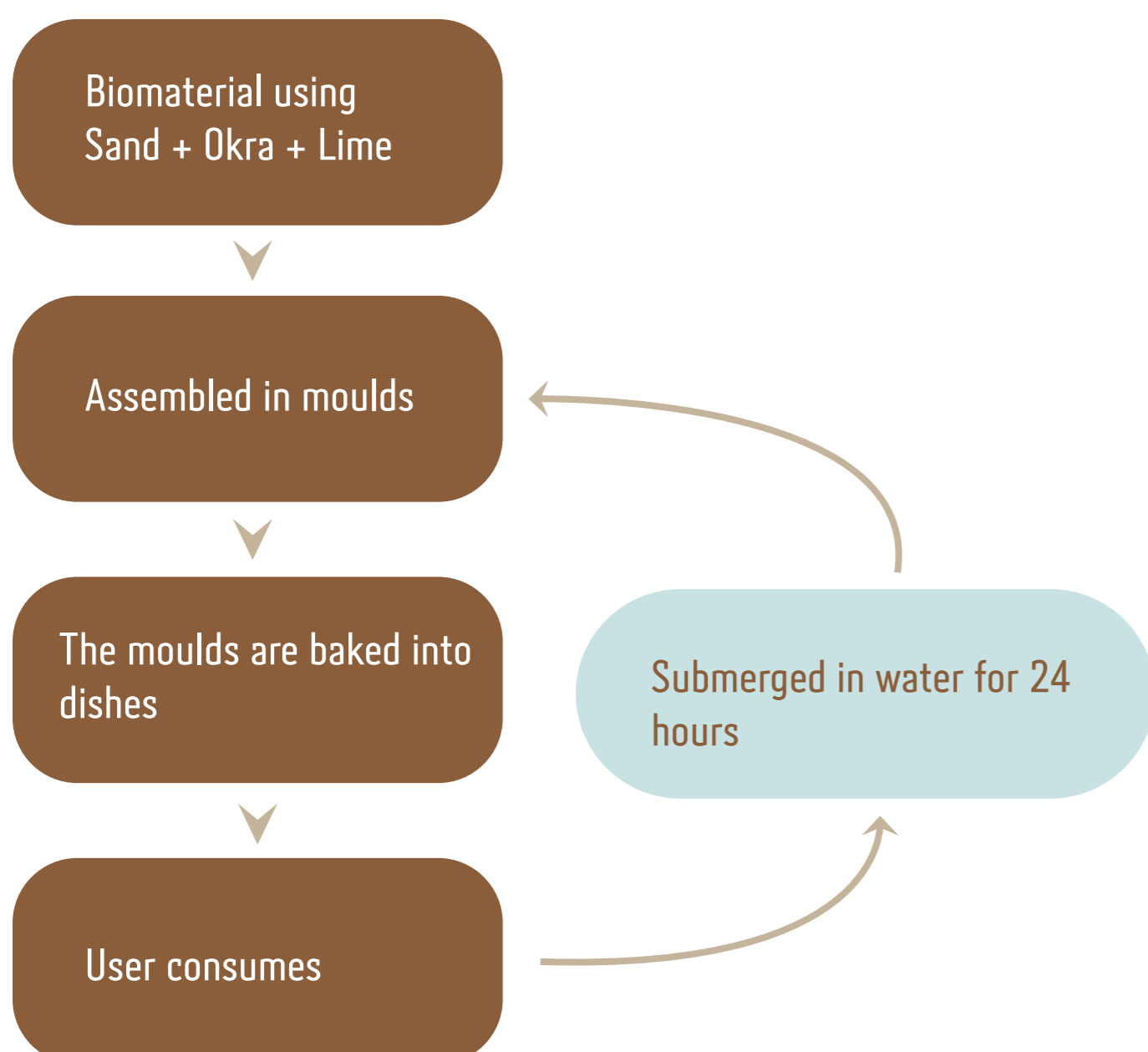
we make moulds for the biomaterial which are baked under the sun

Longitudinal Section of Okra



Mucilage (type of sugar)

Life Cycle



Percentage of Okra

