

EWB DK / SDU student project

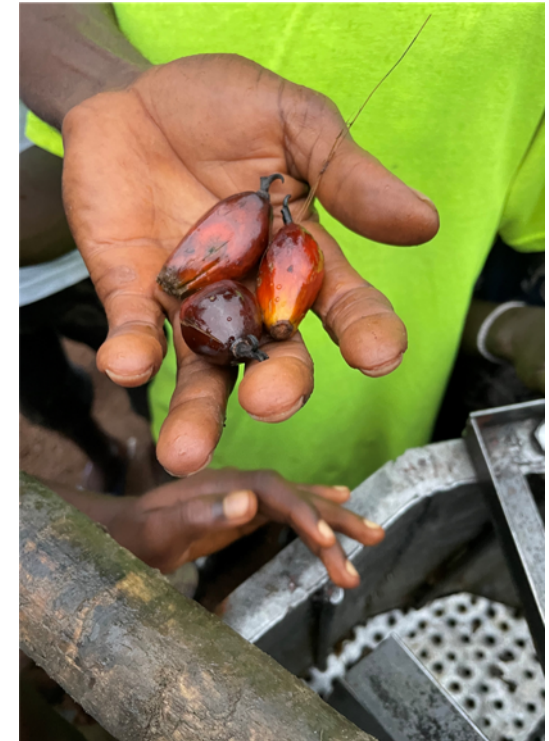
Oil press solution



Oil press solution

In Sierra Leone oil palm seeds is being harvested and pressed to get oil for cooking and trading. But the process of extracting the oil from the palm seeds is demanding and physically hard and there is a need to develop new extraction methods.

- What is the unsolved matter or issue ?



Oil press solution

Initial problem statement

There is a need for improving the utilization of harvested oil palm seeds.

How can a system/process be developed that provides efficient utilization of oil contained in harvested Oil Palm seeds?

Initial suggested Constraints:

- The system can be built locally
- The system can be operated and serviced by the local producers/users and or local service providers
- The system can both be driven by solar power and with manual power (without external power supply)

Other questions to look into could be:

- What are the process steps in harvesting oil palm seeds and extracting oil from the seeds?
- Could a system be shared between several villages (business model)?
- Can the system be designed for easy transportation and set-up?
- Is there any operational (business) value gained in the introduction and electrical power?

