



# Virunga Foundation

## Screw press - Request for quotation

DOCUMENT STATUS	For Quotation
DATE	31/03/2026
AUTHOR	
DOC N°	25-1539 – Screw press - RFQ



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## **Context**

As an actor of agro-industrial development in DRC, The Virunga Foundation intends to build 3 small scale oil palm production units. In this framework, it is required to supply 3 screw presses, each of them to be integrated into each production unit.

## **Environmental conditions**

The site is located in the neighborhood of Mutwanga, East of RDC in the North Kivu region

Altitude: 1146 m

Tropical climate and weather conditions

Ambient temperature: 20...35 °C

Outdoor installation

Green fields

## **Applicable norms and standards**

No specific Standard and Norms (Industrial screw press must adhere to strict safety and performance standards).

Supplier will indicate in his offer the applicable standards and norms he will use for the design.

## **Description & Design Unit**

Main expectations for the Screw press are:

- o Product is palm fruit type Tenera as well as Dura or a mix between those two in various proportions.

Please indicate if limits are to be respected for proper working conditions.

Fruit is considered as being 80 % ripe.

Please specify oil extraction yield guaranteed.

Palm fruit flowrate is expected in the range 550-750 kg/h.

Please specify the guaranteed flowrate

Palm fruit has been properly sterilized and stirred and heated up to 80-90°C prior pressing

Oil Extraction Yield – please specify the Guaranteed Performance.

Output separated : Mixture of Oil and mixture of palm nuts and fibers

Your delivery will consist in 3 identical single machines with their related auxiliaries (motor, reducing gear, hydraulic device, ...).



## 1. Technical data and request

Electrical :

Rated voltage: 3 x 400 V

Frequency: 50 Hz

Protection degree: IP 55 – Tropicalized

Efficiency: IE3

Gearbox: SEW with mounting: IEC standard - preferred

Painting class: to be define (C3)

## **Scope of supply and services**

The supplier will supply the following services:

- o Engineering:
  - o Layout and general arrangement drawings of the whole press assembly (2d & 3d drawing - .step)
  - o Datasheet - Flow diagram / PID and listing of equipment / instrumentation (wiring diagram) and functional description
  - o Norms design
  - o Coordination with other stakeholders of the project such as building manufacturers and electrical distribution.
  - o Operation and maintenance manual (certificate / spare part (start up and 2 years operations)
- o Manufacturing and supply: the supplier will clearly indicate in his offer which elements are in and out of his scope of supply



## **Schedule RFQ and delivery time equipment**

Your offer is included in other RFQ package for a project that has already started. Therefore your offer is expected in the next coming 10 days ideally.

The offer shall include the following necessary informations :

- Flow sheet or P&I Diagram
- Equipment list
- Guaranteed performances (flow rate, extraction ratio as a minimum)
- Detailed scope of supply : : the supplier will clearly indicate in his offer which elements are in and out of his scope of supply
- Detailed technical documentation
- Delivery time
- Price with breakdown according to :
  - Supply of 3 units
  - Shipping of 3 units
  - Spare parts for 3 units for 2 years of operations