



VIRUNGA | FOUNDATION
UNITED KINGDOM

Boilers for 1tph oil press

TECHNICAL SPECIFICATIONS






Boilers for 1tph oil press
Technical specifications

Ref. document:
VF-TENDER-2026-05228
_TechSpec_V0

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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 boilers, 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 field

Applicable norms and standards

No specific Standard and Norms (Industrial steam boilers 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

The steam boiler unit must provide steam flowrate of minimum 600 kg/h at 10 Barg from biomass (palm fiber) fired.

Your delivery will be an independent unit turnkey with external electrical and water supply.
Preferably mounted on a skid to facilitate transport and installation (standard transportation).

The unit will include all necessary devices in order to work in autonomy, such as
Manual Fuel feeding and cleaning (access)
Water tank – pump - ...
Exhaust gas, chimney
Control panel

Technical data and request

Fuel: solid fuel – palm fiber / palm kernel shell
Water: 20°C (please confirm Hardness and filtration requirements)

Minimum Steam flowrate: 500...650 kg/h @ 10 barg

Electrical :

Rated voltage: 3 x 400 V
Frequency: 50 Hz
Protection degree: IP 55 – Tropicalized
Efficiency: IE3
Gearbox: SEW preferred

Painting class: to be define



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Scope of supply and services

The supplier will supply the following services :

- o Engineering:
 - o Layout and general arrangement drawings of the whole steam boiler (2d & 3d drawing - .step)
 - o Datasheet - Flow diagram / PID and listing of equipment / instrumentation (wiring diagram) and functional description
 - o Norms design
 - o Building and Civil work guide drawings.
 - 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
- o Packing and shipping : each unit will be shipped in separate containers so that they can be dispatched to different local final destinations. The set of spare parts will be packed with the first unit.
- o Erection and commissioning supervision

Offers inclusions

The offer shall include the following necessary informations :

- Flow sheet or P&I Diagram
- Equipment list

- 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
- Availability or delivery lead time EXW
- Price with breakdown according to :
 - o Supply of 3 units
 - o Commissioning supervision for 1 unit : the supplier will provide a daily rate and estimation of mission duration. Travel costs such as flight tickets, transfer and accommodation are taken in charge by Virunga Foundation
 - o Spare parts for 3 units for 2 years of operations
 - o Shipping cost