

REQUEST FOR QUOTATION FOR BIOGAS PURE TECHNOLOGIES SUPPLIES

1. Background

The Power for Food Partnership Uganda Programme is a five-year (2025–2029) multi-country initiative implemented by SNV in Uganda, Ethiopia, Rwanda, and Kenya, with funding support from the IKEA Foundation. The programme responds to interconnected development challenges including persistent poverty, rising climate shocks, ecological degradation, food insecurity, unequal access to energy, and barriers to a just energy transition. These challenges collectively undermine productivity, livelihood resilience, and inclusive socio-economic transformation.

Although the agri-food and energy systems are interdependent, interventions across these sectors have historically been fragmented and short-term, resulting in inefficiencies and missed opportunities for transformative impact. The programme, therefore, seeks to bridge the gap between regenerative agriculture (RA) and the productive use of renewable energy (PURE) by fostering systems thinking, adaptive learning, and evidence-based solutions that strengthen the RA–PURE nexus.

Biogas technologies have high potential within this nexus, enabling farmers and agribusinesses to generate renewable energy from organic waste while enhancing soil fertility and farm productivity. Early pilot implementations provide critical opportunities to test, validate, and learn from RA–PURE solutions, building evidence for scaling across Uganda.

2. Purpose / Justification

The purpose of procuring biogas PURE technologies is to pilot, validate, and demonstrate their technical, commercial, and agronomic viability with partners, generating evidence for scaling RA–PURE solutions.

Specifically, the procurement will:

- I. Enable pilot testing of biogas equipment across selected farms and agribusiness operations to assess performance, durability, and suitability for productive uses.
- II. Generate evidence and knowledge on operational feasibility, energy output, agronomic benefits, and integration with regenerative agriculture practices.
- III. Support partner engagement and capacity building by providing hands-on exposure to the technologies, fostering adoption and system-level understanding.
- IV. Inform investment and scaling decisions, ensuring that further deployment is evidence-based, cost-effective, and aligned with market demand.

3. Biogas PURE technologies to be procured

Equipment	Specifications	Quantity
Biogas analyser	measure CH ₄ /CO ₂ /H ₂ S/O ₂ content Communications: mini-USB, IRDA and Bluetooth as standard internal memory & SD card	3
Biogas generator-electric (Dual biogas/LPG) 5KW	Rated Power: 5 KW Fuel: Biogas Gas consumption: 0.7M ³ /KWh CH ₄ content: ≥ 50%	10

Equipment	Specifications	Quantity
	Intake pressure range: 0.8 up to 20Kpa Type: Single cylinder, 4-stroke, air cooling	
Biogas generator-electric (Dual biogas/LPG) 8KW	Rated Power: 8 KW Fuel: Biogas Gas consumption: 5.6 M3/KWh CH4 content: ≥ 50% Intake pressure range: 0.8 up to 20Kpa Type: Single cylinder, 4-stroke, air cooling	3
Water heaters	Material: Iron Surface treatment: Painting Ignition: auto Flow: 7L/min Water	11
Biogas Flow meter	Material: aluminium Nominal flow rate Q: 2.5 m3/h Maximum flow rate Qmax:4 m3/h Minimum flow rate Qmin:0.025 m3/h Maximum working pressure:10 Kpa	12
Portable PH meter	Range/ pH: -2.000 ... +19.999 ±0.005 pH Display: 7-Segment LCD	20
Bio slurry solid liquid separators	Type: screw press for dewatering of cattle dung slurry Main engine power: 4kw/240V/50hz Delivery pump: 3kw/380V/50hz Main material: Stainless steel	1
Biogas pressure pump	Frequency: 50Hz Power: 20 W Maximum pressure: 24 kPa Maximum Vacuum (-Kpa): -25 Flow≥40 L/min	9
Biogas pressure pump Solar	Charging method: Only 220V AC Frequency: 50Hz Power: 10 W Max. Pressure: 15Kpa Max. Flow rate: 12L/min solar panel: 10w	6
Biogas Storage Bag 10 M3	Size: 10M3 (2.4*2.1*2.0M) Materials: Red Mud reinforced plastics Thickness.: 0.7mm	2
Biogas Storage Bag 5 M3	Size: 5M3 (2.1*1.6*1.5M) Materials: pvc reinforced plastics Thickness: 0.45mm	2
Biogas Pressure meter 0.6 mbar	Pressure 0-16kpa Material: pvc	50
Biogas pressure regulator	Pressure: 2.15 mbar to 1.03 bar Material: stainless steel Corrosion-resistant construction Self-closing air cushion pallet with center stabilizing Usage/Application: BIOGAS RELIF	3
Biogas Heaters-Pig/Chickens	Model: HL, Stainless-steel fuel application room heater designed exclusively for biogas, pressure range of 800–1600 Pa, weighing 1.25 kg per set, packaged 12 sets per box,	17
Digital Thermocouple	Temperature Measurement Range: - 50°C to +150°C Thermometer Type: Handheld; Type: Probe, Length: 1.2m	10

Evaluation criteria

The criterion for evaluation is based on the technical understanding as well as a value for money offering of the supplier.

Criteria	Maximum score
Technical	
Understanding of the requirement: The supplier should demonstrate a clear understanding of the technical specifications	20
Delivery Timelines: clarity, feasibility, and alignment with procurement needs	10
Experience: Evidence of similar assignments successfully completed, with evidence of previous contracts. Minimum of five contracts previously done.	40
Financial	
Value for Money: The firm's financial proposal should demonstrate value for money for the assignment	30

Due diligence instructions

The Applicant must evidence the following as part of the application.

- Company Legal registration documents (Articles of Association and Powers of Attorney)
- Tax Compliance Certificate
- Valid trading license
- Company profile
- References from previous comparable assignments undertaken

Submission requirements

Interested suppliers/firms should submit:

- Bid document.
- Financial proposal (budget breakdown in UGX/USD).
- Applications should be submitted electronically to SNV Uganda at: ugandatenders@snv.org

by **March 27th, 2026.**

Tender disclaimer

SNV reserves the right to either accept or reject any or all bids submitted. SNV reserves the right to either increase or decrease the assignment scope depending on budget availability. SNV can stop this procurement at any time without need to give explanation or can extend the deadline for submission once it sees it fit. In case you do not hear from SNV within 3 weeks of closure of the bid receipt date, consider yourself unsuccessful. SNV also reserves the right to reject and cancel the tender in case any illegal, corrupt, coercive, or collusive practices are noticed. Late bids will be rejected. Please note that viewing, downloading or otherwise using the TOR constitutes acceptance on your part of all the above noted statements and conditions.