

**COMPREHENSIVE CONSULTANCY PROPOSAL: 5,000 – HEAD GOAT
FATTENING FARM, BOSSASO, PUNTLAND**

AGRI-GENIUS FARM LTD

LIVESTOCK FARMING | MEET SUPPLY | POULTRY |

CONSULTANCY & FARM MANAGEMENT

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TO

SHAKER LIVESTOCK MANAGE,

BOSSASO, PUNTLAND

STATE OF SOMALIA

FROM

AGRI-GENIUS FARM LTD – SRATEGIC

AGRI-BUSINESS & TECHNICAL ADVISORY

CONSULTANTS

DATE: October 27, 2023

SUBJECT: End-to-End technical Advisory for the Establishment of a Commercial Goat Fattening Operation.

1. Executive Summary

Agri Genius Farm Ltd. Proposes a Comprehensive, end-to-end technical advisory partnership with shaker Livestock for the establishment of a technologically advanced, 5,000 – head intensive goat fattening operation in Bossaso, Puntland.

This Proposal expands upon our initial framework to encompass a two-phase consultancy plan, beginning with critical feasibility and site master planning in Puntland, followed by detailed farm architecture and operational blueprint development. Our methodology integrates Ugandan market data and cost

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structures with local Somali conditions to create a resilient, profitable, and sustainable business model targeting the export and domestic meat markets.

2. Project Scope & Deliverables: Two-Phase Approach

Agri Genius Wil provide complete turnkey consultancy services structured in two sequential phases to ensure foundational correctness before detailed design

PHASE 1: FEASIBILITY & SITE MASTER PLANNING (On-Ground in Bossaso, Puntland)

Objective: To conduct a thorough feasibility analysis and recommend the most suitable site, ensuring all critical external factors are assessed for long-term viability.

Scope of Work & Deliverables:

1. Feasibility Survey & Site Selection Analysis

Topographical & Soil Survey: Assessment of 3-5 potential sites for slope, drainage, and soil type (critical for infrastructure and pasture cultivation).

Infrastructure Accessibility: Evaluation of proximity to: **Feed Sources & Mills:** Distance to potential concentrate suppliers. **Transport & Logistics:** Accessibility for large trucks for goat delivery and dispatch.

Markets: Proximity to Bossaso port for export and local livestock markets.

Services: Availability of veterinary extension services, equipment suppliers, and skilled Labor pools

Environmental & Social Impact Assessment (ESIA): Initial screening of environmental risks (water sourcing, waste management impact).

Community Consideration: Engagement with local communities to assess social acceptability, identify potential benefits (employment), and mitigate risks of conflict.

- 2. Deliverable 1. 1: Feasibility & Site Selection Report.** This report will rank potential sites with a scoring matrix, providing a clear, justified **recommendation for the optimal project location**, including initial risk assessment and community engagement findings.

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PHASE 2: FARM DESIGN & OPERATIONAL BLUEPRINT

Objective: To translate the selected site into a fully designed, costed, and operational farm model.

Scope of Work & deliverables:

1. Farm Architecture & detailed Design

- **Full Design Layout with Plans:** CAD-based site layout integrating all components.
- **Housing Design Analysis & Recommendation:**

System	Pros	Cons	Our Recommendation
Deep Litter	Lower initial cost, provides warmth, manure accumulates for composting.	High bedding cost, ammonia buildup, higher disease risk.	Not recommended for intensive fattening.
Slatted Floor	Excellent hygiene, manure falls through, reduced labor.	High construction cost, goats more prone to leg injuries, colder.	Suitable with modifications.
Hybrid (Solid + Slatted)	Optimal. Solid area for resting, slatted area over dunging channel.	Moderate to high cost.	RECOMMENDED. Provides welfare, hygiene, and efficient manure collection.

- **Specialized Area Designs:** Detailed plans for Quarantine (10-14% of herd size), Sickbay, Feed Storage (for 900 MT requirement), Weighing Area, and Staff Facilities.
- **Waste Management System:** Design for manure collection (from hybrid pens), composting pits/bays, and leachate control.

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- **Water System Design:** Assessment of water needs (3-5L/goat/day), design of rainwater harvesting structures, storage tank sizing, and piped network to automatic drinkers.

2.2 Sustainable Feed & Pasture Program

Sustainable Feed Plan: Based on target 600g Average Daily Gain (ADG).

Fodder Production Plan: For Napier grass, Brachiaria, and Alfalfa.

Land Requirement Calculation: To supply 30-40% of roughage.

Yield: Napier: ~25-30 MT/acre/year (multi-cut). Need ~15-20 acres for partial supply.

Planting Schedule: Staggered planting for continuous supply.

Preservation: Design for haymaking (for Alfalfa) and trench/bunker silage (for Napier/Brachiaria) to ensure year-round feed.

Detailed Diet Composition & Daily Routine:

Diet Ratios (by weight):

Phase	Roughage (Pasture/Hay)	Concentrate
Weeks 1-2 (Adaptation)	60%	40%
Weeks 3-7 (Rapid Gain)	50%	50%
Week 8 (Finishing)	40%	60%

Mineral Supplementation: Design of a free-access mineral lick station with specific salts (Cu, Co, Se) and phosphorus.

Daily Feeding Timetable:

7:00 AM: Feed 40% of daily concentrate + ad lib roughage.

12:00 PM: Fresh roughage provided.

4:00 PM: Feed 60% of daily concentrate + ad lib roughage.

Uganda-Based Financial Modeling Inputs:

Farm Gate Price: USD 140-160 / 60kg goat (~\$2.33 - \$2.66/kg live weight).

Retail Meat Price: USD 0.56/kg (context reference).

Feed Cost Analysis (Uganda Context):

On-Farm Pasture Cost: ~\$0.02 - \$0.03/kg (cultivation & harvest).

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Concentrate Cost: ~\$0.30 - \$0.35/kg (commercial dairy meal).

Blended Daily Feed Cost/Goat (3kg): ~\$0.65 - \$0.85/day (using farm-grown roughage).

Goat Purchase Cost (Uganda Context): 25kg goat @ ~\$2.0/kg = ~\$50 per head.

2.3 Operations Management Blueprint (Farm Manual)

Standard Operating Procedures (SOPs) Manual covering:

Biosecurity Protocol: Quarantine procedures, visitor logbooks, vehicle disinfection, footbaths.

Daily Health Monitoring Checklist: Appetite, eyes, nose, fecal consistency, mobility.

Performance Tracking: Weekly batch weight sampling to monitor 600g ADG target.

Vaccination & Deworming Schedule:

Activity	Timing	Product/Note
Quarantine	Day 1-3	Broad-spectrum dewormer (Albendazole/Ivermectin)
	Day 3-5	CCPP Vaccine, PPR Vaccine
	Day 7	Clostridial Vaccine (Enterotoxaemia)
In Pen	Day 30	Dewormer (rotate class), Booster vaccines as needed

Digital Record-Keeping System: Design of logs for feed intake, health treatments, mortality, and financial transactions.

2.4 Security & Technology Integration

Hybrid Surveillance System: High-resolution AI cameras at entry points and perimeters paired with thermal imaging cameras for night-time predator/theft detection.

Automated Intrusion Detection: Sensor-based alarms on fences and gates triggering sirens within 100m and mobile alerts.

2.5 Financial Model & Projections

A detailed, dynamic 5-year financial model will be provided, integrating all Phase 1 & 2 inputs.

Key Model Outputs:

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Capital Expenditure (CapEx): Infrastructure, equipment, land development.

Operational Expenditure (OpEx): Per-cycle costs (goats, feed, labor, health).

Revenue Projections: Based on 2.5 fattening cycles/year, 3% mortality, and Uganda-based pricing.

Profit & Loss, Cash Flow, and ROI Analysis.

3.0 Our Consultancy Investment & Timeline

Total Consultancy Fee (Phases 1 & 2): \$124,000 (USD).

Payment Schedule Linked to Deliverables:

Mobilization Fee: 20% (\$24,800) to commence Phase 1.

Upon Delivery of Phase 1 Report: 30% (\$37,200).

Upon Delivery of Draft Blueprint & Financial Model (Phase 2): 30% (\$37,200).

Upon Final Delivery & Project Closure: 20% (\$24,800).

Project Timeline: 20 Weeks Total.

Phase 1: 5 weeks (including travel and fieldwork in Puntland).

Phase 2: 14 weeks (design and blueprinting).

Final Integration & Handover: 1 week.

4.0 The Agri Genius Commitment

We commit to delivering not just documents, but actionable intelligence and design. Our team, including a livestock architect, a forage agronomist, and a financial modeler, will ensure the final blueprint is adapted to the realities of Bossaso while leveraging profitable benchmarks from Uganda.

We are prepared to mobilize our team for the critical Phase 1 feasibility study in Puntland at your earliest convenience.

Sincerely,

For: Agri Genius Farm Ltd.

SIGNATURE