

## Technical Specification for Construction of Layer Chicken House (1,000 Birds)

1. Purpose: Construct a poultry house for 1,000 high-performing layer chickens for production of commercial and fertile eggs under a semi-intensive system.
2. Housing System: Raised poultry house with plastic mesh flooring and access to an attached outdoor run area.
3. Capacity: Structure should comfortably accommodate 1,000 layers at 4-5 birds per m<sup>2</sup>
4. Foundation and Floor: House raised 1-2 ft above ground on treated timber/steel posts with a heavy-duty plastic mesh/slatted floor.
5. Walls: Side walls constructed with wire mesh for ventilation with partial solid lower/back panels **and optional curtains** for weather protection.
6. Roofing: Roof constructed with corrugated iron sheets or equivalent durable material with adequate slope and overhang for rain protection.
7. Ventilation and Orientation: House designed with open sides and preferably oriented east-west for optimal airflow and reduced heat stress.
8. Outdoor Run: Provide a secure fenced outdoor run (approx. 1 m<sup>2</sup> per bird) with predator-proof poultry wire mesh at the bottom.
9. Internal Fittings: Structure must accommodate layer nest boxes, feeders, automatic drinkers, egg collection space, and management walkways.
10. Waste Management: Droppings should fall through the plastic mesh floor to the tray below the house for easy manure collection and cleaning.
11. Biosecurity: Include controlled entry, footbath provision, and predator/rodent-proofing measures.
12. Materials and Workmanship: Use durable, weather-resistant local materials and good construction practices suitable for commercial poultry production.
- 13.

### Design Submission Requirement

The contractor shall submit a layout drawing and construction concept for a raised multi-storey poultry house showing dimensions, structural support, plastic mesh flooring, and outdoor run arrangement, and be ready to present and discuss the proposed design with the client before final awarding of the contract.

### Vi Agroforestry Kenya

Along Kitale-Eldoret Road, next to Kitale Museum  
P.O Box 2006, 30200, Kitale, Kenya  
Phone: 054 30283  
[kenya@viagroforestry.org](mailto:kenya@viagroforestry.org)