

Poultry Farm Equipment Planning Checklist

A fact-based input sheet for layer, pullet and broiler projects. Complete the known fields, mark unknown items clearly, and attach measured drawings and recent photographs.

This checklist supports early planning only. It does not determine legal stocking density, animal-welfare compliance, structural safety, ventilation capacity or final equipment suitability. Those items require local requirements and project-specific engineering review.

1. Project identity

Project / company	
Country and site	
Contact person	
Email / WhatsApp	
Target schedule	

2. Flock and production objective

- ☐ Bird category: layers / pullets / broilers (circle one)
- ☐ Bird strain and management guide, if selected: _____
- ☐ Target birds per house: _____ Total farm target: _____
- ☐ Production phases and future expansion stages are listed
- ☐ Applicable local law, welfare, environmental and buyer requirements are identified

3. Poultry house data - complete for every house

- ☐ House number/name: _____ New / existing (circle one)
- ☐ Verified internal length: _____ m Width: _____ m Clear height: _____ m
- ☐ Columns, beams, doors, pits, drains and fixed obstructions are measured and marked
- ☐ Dimensioned floor plan is attached
- ☐ Exterior, interior, roof, floor, door and utility-entry photos are attached
- ☐ Unverified measurements are clearly marked as assumptions

4. Climate and environmental strategy

- ☐ Typical and extreme temperature and humidity data are attached
- ☐ Rain, flood, wind, dust and corrosion exposure are described
- ☐ House approach: open-sided / natural / mechanical / controlled environment
- ☐ Proposed fans, inlets, cooling and sensors will be checked as one system
- ☐ Local specialist will verify final ventilation and environmental requirements

5. Electricity, water and resilience

- ☐ Electricity: voltage _____ phase _____ frequency _____ known outage pattern _____
- ☐ Backup generator or alternative supply is defined for critical systems
- ☐ Water source, quality report, pressure, storage and pump data are attached
- ☐ Alarm, emergency response and maintenance contacts are planned
- ☐ Remote communications availability is confirmed if monitoring is requested

6. Equipment and operating flow

- ☐ Required cage or floor-rearing system is identified, without assuming final model
- ☐ Feed delivery, storage and distribution route is drawn
- ☐ Drinking-water treatment, storage and flushing route is drawn
- ☐ Egg collection and packing route is drawn for layer projects
- ☐ Manure or litter removal, storage and compliant utilization/disposal route is drawn
- ☐ Staff inspection, cleaning, maintenance and emergency access are reserved

7. Automation and scope

- ☐ Manual, semi-automatic or automatic preference is stated for each process
- ☐ Included equipment, optional items and exclusions will be listed separately
- ☐ Electrical, civil, plumbing and structural interfaces will be assigned
- ☐ Installation, commissioning and operator-training responsibilities will be assigned
- ☐ Preventive maintenance, critical spare parts and operating documents will be included

8. Approval gate before manufacturing

- ☐ Exact equipment model and quantity are confirmed
- ☐ House-by-house dimensioned layout is approved
- ☐ Utility requirements and backup arrangements are approved
- ☐ Scope, exclusions, delivery, installation and commissioning responsibilities are signed off
- ☐ All assumptions that could change quantity, fit or performance are resolved

Notes and unresolved questions

Reference sources

FAO, Management and housing: <https://www.fao.org/poultry-production-products/production/management-and-housing/>
WOAH Terrestrial Animal Health Code, Chapter 7.10:
https://www.woah.org/fileadmin/Home/eng/Health_standards/tahc/2024/en_chapitre_aw_broiler_chicken.htm
Aviagen Arbor Acres Broiler Management Handbook 2025:
https://aa-intl.aviagen.com/assets/Tech_Center/AA_Broiler/Aviagen-AA-Broiler-Handbook-EN.pdf

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