

# Broiler Farm Management Practices

Broiler Farm Management – Key Practices  
(Designed for quick reference and study)

## 1. Overview of Broiler Production

| Aspect                            | Description                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Goal                              | Produce market-ready chickens (typically 5–7kg) in the shortest, most economical time frame while maintaining animal welfare and product safety.                                                                                                                                                                                                                                                                                                         |
| Typical Cycle                     | 1–2 weeks brooding + 4–5 weeks grow-out + 1 week pre-slaughter conditioning.                                                                                                                                                                                                                                                                                                                                                                             |
| Key Performance Indicators (KPIs) | <ul style="list-style-type: none"><li>• <b>Feed Conversion Ratio (FCR)</b> – <math>\text{feed (kg)} \div \text{gain (kg)}</math> (target 1.6–1.8)</li><li>• <b>Average Daily Gain (ADG)</b> – <math>\text{weight (kg)} \div \text{days}</math> (target 0.07–0.09 kg/d)</li><li>• <b>Mortality Rate</b> – % of birds dead (target &lt;3%)</li><li>• <b>Uniformity</b> – % of birds within <math>\pm 10\%</math> of average weight (target 80%).</li></ul> |

## 2. Site Selection & Facility Design

| Factor            | Recommended Practice                                                                                                                                                                                                                           |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Location          | <ul style="list-style-type: none"><li>• &gt;1km from residential areas, water sources, and other livestock farms.</li><li>• Flat terrain with good drainage.</li></ul>                                                                         |
| Housing           | <ul style="list-style-type: none"><li>• <b>Ventilated poultry house</b> (tunnel or cross-ventilation).</li><li>• <b>Insulated walls/roof</b> for temperature control.</li></ul>                                                                |
| Flooring          | <ul style="list-style-type: none"><li>• <b>Concrete or litter floor</b> with proper slope (1–2%) to drain water.</li><li>• Use <b>clean, dry wood shavings</b> or rice hulls as litter.</li></ul>                                              |
| Biosecurity Zones | <ol style="list-style-type: none"><li>1. <b>Clean zone</b> – office, feed storage, staff changing area.</li><li>2. <b>Transition zone</b> – footbaths, handwash stations.</li><li>3. <b>Dirty zone</b> – bird house, waste handling.</li></ol> |

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## Factor

## Recommended Practice

|           |                                                                           |
|-----------|---------------------------------------------------------------------------|
| Equipment | • Automated <b>feeders</b> and <b>drinkers</b> (Nipple or bell drinkers). |
|           | • <b>Temperature control</b> : heaters, fans, evaporative cooling pads.   |
|           | • <b>Lighting system</b> : programmable LED for day/night cycles.         |

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## 3. Biosecurity & Disease Prevention

| Measure                 | Details                                                                                                                                                                                                                                                                                           |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Entry Controls          | <ul style="list-style-type: none"><li>• Mandatory foot/dip and hand/wash.</li><li>• Visitor log &amp; restricted access.</li></ul>                                                                                                                                                                |
| All-In/All-Out          | Populate house with a single batch; clean/disinfect before next batch.                                                                                                                                                                                                                            |
| Cleaning & Disinfection | <ul style="list-style-type: none"><li>• Remove litter, scrub surfaces with hot water (??80??°C).</li><li>• Apply approved disinfectant (e.g., quaternary ammonium, glutaraldehyde).</li></ul>                                                                                                     |
| Vaccination Program     | <p>Typical schedule (may vary by region):</p> <ul style="list-style-type: none"><li>– Day 0: Marek's disease, Newcastle disease (ND) + Infectious bronchitis (IB).</li><li>– Day 7–10: Infectious bursal disease (IBD).</li><li>– Day 14–21: ND booster, avian influenza (if required).</li></ul> |
| Monitoring              | <ul style="list-style-type: none"><li>• Daily health checks (gait, respiration, droppings).</li><li>• Weekly necropsy of any dead birds for cause of death.</li></ul>                                                                                                                             |
| Rodent & Pest Control   | Traps, bait stations, and regular inspection of building perimeters.                                                                                                                                                                                                                              |

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## 4. Nutrition & Feeding Management

| Component | Practical