1. Poultry Project
- Farm Size: 168.4m x 16.8m, 2.7m/3.2m

2. Suggested LED Poultry Light and Dimming Controller

AU $7,045.50 for one chicken shed LED lighting system -> LED tube + iDimmer 3L

Suggested Lighting
1) LED tube lights: 1200mm 18W 180-260Vac 4700-5300K, double end cable 4.6M, each side with 2.3M cable 16AWG
2) iDimmer 3L 2200W: Dimming system. Dimmable setting of days, groups, light on/off time, light intensity, and manual/auto control, with 0-10V signal

<table>
<thead>
<tr>
<th>Product picture</th>
<th>Model number</th>
<th>Wattage/ CCT</th>
<th>Details</th>
</tr>
</thead>
</table>
| HT-T8AC18W12FB |              | 18W 5000K for broiler | 1) Voltage : 180-260Vac Flicker free 0Hz  
2) Efficiency : 92%, PF : 0.96  
3) T8 LED tube, 1200mm  
4) IP Grade : IP67  
5) Dim : Dimming from 0-100%, lighting brightness from 1 to 100%  
6) Certificate : TUV, SAA, SASO, CE, ROHS |
| iDimmer 3L    |              | 2200W 180-240Vac 50-60Hz | 1) Dimming from 0-100%, lighting brightness from 1 to 100%  
2) Manual light on/off  
3) DIY lighting program, 24 hours/days lighting program control  
4) Setting of days, groups, light on/off time, light intensity, manual/auto control  
5) With 0-10V signal |
Suggested LED Lighting Design for a Broiler Chicken Shed

**Required Products.**

<table>
<thead>
<tr>
<th>Products</th>
<th>Watts</th>
<th>Qty.</th>
<th>Price each AUS</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimmable LED T8 Tube</td>
<td>18</td>
<td>87</td>
<td>$66.50</td>
<td>$5,785.50</td>
</tr>
<tr>
<td>Cable from tube to dimmer</td>
<td>3</td>
<td></td>
<td>$35.00</td>
<td>$105.00</td>
</tr>
<tr>
<td>iTimer 3.0 2,200 Watt Max</td>
<td>30</td>
<td>1</td>
<td>$1,155.00</td>
<td>$1,155.00</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td></td>
<td><strong>$7,045.50</strong></td>
</tr>
</tbody>
</table>

**Installation.**

Easy install and connection reduced labour cost.

Lux at ground level. 80% 40-60 lux  10% 60-101 lux  10% 21-39 lux

Min lux 21   Max lux 101   Average lux 57.2

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Colour Temperature

Suggested lighting for Broiler 5000-6000k helps fowl to gain more weight.

Red
Increases food intake & reduces feather pecking in chicks.

Blue
Decreases movement of fowl, makes them easier to catch and improves meat quality

Green
Improves growth rates at an early age by enhancing proliferation of skeletal muscle satellite cells.

2700k
Ideal for layers with more red spectrum to help improve food intake, enhances egg production, activates movement and accelerates sexual maturity.
Suggested LED Lighting Design for a Broiler Chicken Shed

Projects

- **Australia Chicken Farm**
  - Farm Size: 148m² x 28m
  - T12 LED Lights: 132pcs (3x44)

- **Poland Chicken Farm**
  - Farm Size: 120m² x 14m
  - T8 LED Lights: 90pcs (3x30)

- **Thailand Chicken Farm**
  - Farm Size: 80m² x 16m
  - Color Switchable LED Lights: 50pcs

- **Ukraine Chicken Farm**
  - Farm Size: 80m² x 12m
  - T12 LED Lights: 96pcs (3x32)

- **Saudi Arabia Chicken Farm**
  - Farm Size: 120m² x 80m
  - T12 LED Lights: 680pcs

- **Netherlands Pig House**
  - Farm Size: 127m² x 25m
  - T12 LED Lights: 280pcs

- **Netherlands Mushroom**
  - Farm Size: 120m² x 16m
  - T12 LED Lights: 85pcs

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