

Recommendations for Odour Management

for

MEDIRO

Prepared by:

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1. DETAILED DESCRIPTION OF PROPOSED PROJECT

Mediro Association is proposing the construction of 6 poultry houses with the capacity to hold up to 10 000 birds per house on Portion 44 (portion of portion 27 of the farm Lanric 59 JO situated in Mahikeng District within the Mahikeng Local Municipality area.

The activity will entail the construction of 6 environmentally controlled chicken layer houses (70m x 6m each). Each house will have the capacity for 10 000 layers. The entire site will be able to house up to 60 000 broiler chicks.

The project will entail the following:

- Earthworks and clearing of vegetation (1.5ha of indigenous vegetation) on the site for 6 poultry houses.
- Construction of 6 environmentally controlled chicken houses (70m x 6m) with capacity for 10 000 birds per house, totalling 60 000 birds.
- A silo and water tank will be erected next to each house.
- Powerlines will be connected to each house from the existing Eskom point.
- Pipelines will be connected to each house from an existing borehole.

The site will be fenced off with a 2.4m high electric fence.

Objectives of odour control:

- a) To prevent or minimize ambient air pollution as a result of odour emissions.

2. ODOUR CONTROL MANAGEMENT MEASURES

- a) The houses are closed and environmentally controlled to reduce the amount of ammonia, dust and unpleasant odour released into the environment.
 - b) Houses are washed after each cycle after the removal of manure and carcasses. The houses are washed using a high pressure (16bar) sprayer, minimising the amount of water used. Equipment is not washed with water, but rather using a foam sanitizer (F29) which is applied as dry foam and allowed to evaporate.
 - c) Any mortalities are to be removed on a daily basis and collected by a contractor.
 - d) The manure will be removed on the a regular basis and used on the farm as fertilizer.
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