

## Mill Design

#### Where?

- As close to production as possible.
- High enough to avoid floods and improve drainage.
- Not too close to a town.
- Far from industrial areas or areas with frequent smoke/ air pollutants.
- Three-phase power availability.
- Potable water availability.
- Conveyor belts, pump stators and transfer hoses built in phtalates-free material



## **Mill Design**

#### The building

- · Fenced.
- Minimise dust in the surrounding areas.
- HACCP, ISO 9000 and ISO 14000 compliance.
- Construction materials should not transmit odours or residues to the oil.
- Waterproof materials, not absorbent, washable, resistant and easy to clean and disinfect.
- · Metallic structures must be protected (Stainless steel).
- Roof and ceilings higher than 4 metres (12-13 feet).

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### **RECEIVAL AREA**

- Conveyor belts set up in an angle lower than 28\*C
- · Fruit sampling system
- Fruit weighing system (optional)
- · De-leafing unit and evacuation system
- · Fruit washing units
- Proper drainage systems!!! Easy to clean or unblock
- Fruit storage hoppers (optional)
- Fruit crushing (optional)
- Designate forklift tracks and allow sufficient room for manoeuvring

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# Plant throughput

- Determined by the peak daily requirement of the grove/s.
- Usually limited by the decanter capacity.
- Difference between nominal capacity and real capacity of the decanter.
- 2-phase or 3-phase system?
- Sizing of pomace evacuation pump (2 phases) or underground auger (3 phases)
- Sizing of washing machines.
- Selection of crushing and malaxing capacity.
- Vertical separators (3 phase system requires 1 extra VC
- Storage capacity.
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