Precasting the Concrete

The problem/challenge
Reduce length of construction time, exposure to hazards and simplify site processes.

The risks
The longer the site construction period, the higher the potential for accidents.

The solution
Precast concrete items and structures where ever feasible.

Precast Wall Panels and Columns for a Reservoir

Precast Snail Trap Structures

Health & Safety benefits
- Off-site construction results in cleaner, quieter, shorter and safer construction on site.
- Precasting takes place in the factory, i.e. at ground level and in the dry.
- Fewer activities/trades on site = fewer man hours on site = less exposure to hazards.
- Less construction plant/machinery required on site (other than craneage).
- Excavations are ‘open’ for a shorter period.
- Significantly less working at height on site = fewer falls.
- Units can have handrail sockets cast in, hence handrails installed soon after erection.
- The precast industry attracts and retains highly-trained dedicated labour and saw a 65% reduction in accidents (during manufacture) between 2000 and 2007.

Other potential benefits
- Sustainability: efficient design can save on material quantities.
- Improved quality control.