MySiteEngineer.in

CONSTRUCTION
PRE & POST CHECKLISTS

A practical guide to checking your construction at the stages that matter most.

YOU INVEST. WE SUPERVISE. YOU STAY AT PEACE

YOUR INVESTMENT
Your home is one of your biggest investments. You deserve professional technical supervision—not just contractor assurances.

OUR ROLE
We independently inspect critical construction activities, identify issues early, explain them clearly and help you make informed decisions.

YOUR PEACE OF MIND
You don't need to be a civil engineer. Bring an engineer in when technical decisions matter.

Designed for homeowners: Use the PRE checklist before releasing work and the POST checklist before allowing the next activity to cover or build over it.

01 SITE PREPARATION & SETTING OUT

Start right. A small marking error can create problems throughout the building.

PRE-CHECK • BEFORE WORK STARTS

- ■ Latest architectural & structural drawings available
- ■ Site boundaries and survey benchmark verified
- ■ Grid/axis and reference points established
- ■ Building position, offsets and levels checked
- ■ Setting-out instruments/reference points verified
- ■ Excavation lines and foundation locations confirmed

POST-CHECK • BEFORE MOVING AHEAD

- ■ Grid/axis, offsets and dimensions rechecked
- ■ Levels and reference points recorded
- ■ Marked points protected for execution
- ■ Foundation locations match approved drawings
- ■ Deviations corrected before excavation

WHY THIS CHECK MATTERS

Correct setting out reduces avoidable dimensional errors, rework and alignment problems.

NEED AN ENGINEER FOR THIS ACTIVITY?

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02 EXCAVATION & FOUNDATION

The foundation is where the strength of the building begins.

PRE-CHECK • BEFORE WORK STARTS

- ■ Excavation dimensions and depth checked
- ■ Formation level and soil condition inspected
- ■ Footing location/orientation verified
- ■ PCC level and thickness checked
- ■ Footing reinforcement, cover, laps and anchorage checked
- ■ Column starters and shuttering inspected

POST-CHECK • BEFORE MOVING AHEAD

- ■ Footing dimensions and top levels checked
- ■ Concrete placement, vibration and finishing observed
- ■ Curing arrangements confirmed
- ■ Backfilling sequence checked
- ■ Defects/deviations recorded and closed

WHY THIS CHECK MATTERS

Foundation mistakes are difficult and expensive to correct later. Critical checks before and after concreting protect the investment.

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03 PLINTH & GROUND FLOOR

A strong transition from foundation to the usable building.

PRE-CHECK • BEFORE WORK STARTS

- ■ Plinth beam dimensions and reinforcement checked
- ■ Filling material suitability verified
- ■ Layer thickness and compaction sequence checked
- ■ DPC/waterproofing continuity checked
- ■ Sleeves and service crossings coordinated
- ■ Ground-floor reference levels verified

POST-CHECK • BEFORE MOVING AHEAD

- ■ Plinth and floor levels rechecked
- ■ Compaction and surface preparation verified
- ■ DPC/waterproofing protected
- ■ Final levels and photographs recorded

WHY THIS CHECK MATTERS

Good plinth control helps prevent settlement, dampness and level-related finishing problems.

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04 RCC STRUCTURAL WORKS

Before concrete becomes permanent, every critical detail deserves a second look.

PRE-CHECK • BEFORE WORK STARTS

- ■ Latest structural drawing/revision confirmed
- ■ Rebar size, spacing, laps and anchorage checked
- ■ Cover, chairs and openings checked
- ■ Shuttering line, level, plumb and dimensions checked
- ■ Supports, joints and cleanliness inspected
- ■ Concrete grade, source and testing arrangements confirmed

POST-CHECK • BEFORE MOVING AHEAD

- ■ Concrete placement and vibration observed
- ■ Compaction and finishing checked
- ■ Cube sampling/testing records maintained as applicable
- ■ Curing started and maintained
- ■ De-shuttering sequence checked
- ■ Alignment, dimensions and visible defects inspected

WHY THIS CHECK MATTERS

Structural work is one of the highest-value stages for independent inspection because mistakes become difficult to access after completion.

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05 MASONRY WORKS

Straight walls and correct openings make every later finish easier.

PRE-CHECK • BEFORE WORK STARTS

- ■ Latest architectural layout confirmed
- ■ Block/brick type and quality checked
- ■ Wall thickness, line and openings marked
- ■ Mortar/material requirements confirmed
- ■ Lintels, sills, sleeves and service openings coordinated

POST-CHECK • BEFORE MOVING AHEAD

- ■ Wall line, level, plumb and thickness checked
- ■ Door/window openings verified
- ■ Junctions and workmanship inspected
- ■ Curing/protection checked
- ■ Cracks, damage or misalignment recorded for correction

WHY THIS CHECK MATTERS

Accurate masonry reduces plaster variation, fitting problems and unnecessary finishing corrections.

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06 PLASTERING & WATERPROOFING

Protect the building before moisture becomes a problem.

PRE-CHECK • BEFORE WORK STARTS

- ■ Surface cleaned/prepared
- ■ Approved waterproofing system/material verified
- ■ Slopes, corners, joints and penetrations checked
- ■ Application sequence and required coats confirmed
- ■ Plaster thickness and mesh/corner treatment checked

POST-CHECK • BEFORE MOVING AHEAD

- ■ Plaster line, level, plumb and finish inspected
- ■ Waterproofing curing/protection checked
- ■ Ponding/water-tightness test completed where applicable
- ■ Leakage/defects rectified and rechecked
- ■ Treated areas protected before covering

WHY THIS CHECK MATTERS

Waterproofing is far cheaper to verify before finishes are installed than to repair after leakage appears.

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07 ELECTRICAL & PLUMBING WORKS

Hidden services should be checked before they disappear behind walls and floors.

PRE-CHECK • BEFORE WORK STARTS

- ■ Coordinated drawings reviewed
- ■ Pipe/conduit routes and sizes checked
- ■ Sleeves and service openings verified
- ■ Structural conflicts checked
- ■ Testing requirements and materials confirmed
- ■ Drainage slopes and access points checked

POST-CHECK • BEFORE MOVING AHEAD

- ■ Pressure/leakage/continuity tests completed as applicable
- ■ Outlet positions and levels verified
- ■ Concealed services photographed before closing
- ■ Leaks, blockages or deviations rectified

WHY THIS CHECK MATTERS

A simple pre-closing inspection can prevent costly breaking and rebuilding later.

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08 FLOORING & TILING

Good finishes begin with correct levels, slopes and preparation.

PRE-CHECK • BEFORE WORK STARTS

- ■ Approved tile/material and layout confirmed
- ■ Substrate level and preparation checked
- ■ Wet-area slopes and drain positions verified
- ■ Tile joints and thresholds planned
- ■ Adhesive/mortar and grout suitability confirmed

POST-CHECK • BEFORE MOVING AHEAD

- ■ Tile alignment, level, slope and joint quality checked
- ■ Hollow/loose/damaged tiles identified
- ■ Grouting and skirting inspected
- ■ Wet-area drainage checked before handover

WHY THIS CHECK MATTERS

Independent checking protects the finish quality you paid for and catches defects before handover.

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09 DOORS, WINDOWS & FABRICATION

Fit, alignment, operation and protection—not just appearance.

PRE-CHECK • BEFORE WORK STARTS

- ■ Approved sizes and drawings checked
- ■ Opening dimensions and levels verified
- ■ Frames/material/hardware specifications checked
- ■ Sill, lintel and waterproofing interfaces coordinated
- ■ Fabrication quality inspected before installation

POST-CHECK • BEFORE MOVING AHEAD

- ■ Frames checked for plumb, level and square
- ■ Shutters, locks and hardware tested
- ■ Sealant and waterproofing interfaces inspected
- ■ Railings/grills checked for anchorage, welds and finish

WHY THIS CHECK MATTERS

Correct installation prevents recurring operation, leakage, alignment and safety issues.

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10 CEILING, PAINTING & FINISHING

The final look should reflect the quality of the work underneath.

PRE-CHECK • BEFORE WORK STARTS

- ■ Approved finish schedule confirmed
- ■ Surface dryness and repairs checked
- ■ Primer, putty and paint system verified
- ■ False-ceiling levels and access panels coordinated
- ■ Finished surfaces protected

POST-CHECK • BEFORE MOVING AHEAD

- ■ Paint coverage, shade and uniformity inspected
- ■ Ceiling levels, joints and access panels checked
- ■ Cracks, pinholes, stains and touch-ups rectified
- ■ Final finish snag list prepared

WHY THIS CHECK MATTERS

A final independent eye helps identify visible defects before they become your handover headache.

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11 EXTERNAL DEVELOPMENT

The project is not complete when the walls are complete.

PRE-CHECK • BEFORE WORK STARTS

- ■ External layout, levels and drainage plan reviewed
- ■ Road/paving formation and sub-base checked
- ■ Drainage routes, slopes and invert levels verified
- ■ Rainwater harvesting/utilities coordinated
- ■ Landscape and compound works planned

POST-CHECK • BEFORE MOVING AHEAD

- ■ Finished levels and drainage flow checked
- ■ Paving/road alignment and compaction inspected
- ■ Drains, chambers and covers checked
- ■ Landscape/external works inspected
- ■ Final external levels recorded

WHY THIS CHECK MATTERS

External drainage and levels directly affect long-term usability and water management around the property.

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12 FINAL INSPECTION & HANDOVER

Before you accept the keys, inspect what you are accepting.

PRE-CHECK • BEFORE WORK STARTS

- ■ Approved drawings and revisions compiled
- ■ Room-by-room snag inspection planned
- ■ Finishes, doors/windows and services checked
- ■ Testing/commissioning records collected
- ■ Punch list prepared with responsibility and target dates

POST-CHECK • BEFORE MOVING AHEAD

- ■ Snag items rectified and re-inspected
- ■ Final cleaning and temporary works removal checked
- ■ Warranties, test reports and as-built information compiled
- ■ Final photographs recorded
- ■ Owner handover condition documented

WHY THIS CHECK MATTERS

A structured final inspection turns handover from a visual walkthrough into a controlled quality check.

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BUILD WITH CONFIDENCE

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You don't have to supervise every minute of your construction project yourself. Our idea is simple: bring an independent civil engineer into the process at the stages where a professional check can prevent avoidable mistakes.

CRITICAL DAY
Book an engineer for marking, reinforcement, concrete or waterproofing.

MONTHLY
One professional site inspection with a practical report.

WEEKLY
Regular site visits to track progress, quality and workmanship.

COMPLETE PROJECT
Independent supervision from foundation to final finishing.

VIDEO ASSISTANCE
Immediate technical guidance when you need an engineer right now.

OUR PROMISE

Independent eyes. Practical engineering advice. Clear communication. Better control over critical construction decisions.

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This brochure is a practical site-quality guide. Always follow the latest approved project drawings, specifications, applicable codes and the advice of the responsible structural/technical professionals.