



**Quality Assurance and  
Quality Control**

Committed to Quality, Committed to You

[www.mdea.co.in](http://www.mdea.co.in)



## QA & QC : A S/W for Quality Control & Assurance

Software for Civil Engineers, Builders, Contractors, Architects & Project Managers.

Contains 132 Programs including Concrete Cube Strength Control, Material Field and Laboratory Test, Work Inspection Reports, Concrete & Steel Tolerances and Checklists. Includes Program for Concrete Cube Strength Control at Site

### Field Test for Materials Include

- ▶ Cement
- ▶ Steel
- ▶ Bricks
- ▶ Sand
- ▶ Binding Wire
- ▶ Aggregate
- ▶ Murum
- ▶ Flush Door
- ▶ Concrete Blocks
- ▶ Wooden Door Frame
- ▶ M.S Window
- ▶ Glass Fixing
- ▶ M.S Rolling Shutter
- ▶ Aluminium Window
- ▶ Plumbing G.I Pipes and Fittings
- ▶ Mosiac Tiles
- ▶ Ceramic / Glazed Tiles
- ▶ Granite / Marble / Tandoor/ Stone Slabs
- ▶ Wooden Flush Door (Solid Core)
- ▶ Wooden Flush Door (Cellular and Hollow Core)
- ▶ Timber Panelled and Glazed Shutters
- ▶ Corrugated Bitumen Roofing Sheets

- ▶ Chequered Cement Concrete Tiles
- ▶ Bitumen Felts For Water Proofing and Damp Proofing

#### ● Laboratory Test for Materials Include :

- ▶ Cement
- ▶ Sand
- ▶ Glazed Tiles
- ▶ Coarse Aggregates
- ▶ Bricks
- ▶ Solid Load Bearing Blocks
- ▶ Marble Mosaic Tiles
- ▶ Murrum
- ▶ Wooden Flush Door (Solid Core)
- ▶ Wooden Flush Door (Cellular and Hollow Core)
- ▶ Corrugated Bitumen Roofing Sheets
- ▶ Bitumen Mastic for Flooring
- ▶ Chequered Cement Concrete Tiles
- ▶ Bitumen Mastic for Water Proofing
- ▶ Bitumen Felts For Water Proofing and Damp Proofing
- ▶ Charecteristics of Building Stones

#### ● Work Inspection Reports Include :

- ▶ Pile Test Results
- ▶ Concrete Placement Record
- ▶ Concrete Test Results
- ▶ Foundation Settlement Report
- ▶ Inspection Of Finished Concrete Works
- ▶ Inspection Of Gates
- ▶ Inspection Of Water Tanks
- ▶ Inspection Of Pavements
- ▶ Inspection Of Concrete Hollow Block Masonry

#### ● Checklist Include :

- ▶ Plinth Work
- ▶ Lift
- ▶ Concreting

- |   |   |
|---|---|
| 1. Column Concreting above Plinth       | 6. Column Shuttering                    |
| 2. Checking of Column before Concreting | 7. Checking Of Columns while Concreting |
| 3. Checking Of Columns after Concreting | 8. Beam /Slab Shuttering                |
| 4. Beam Reinforcement                   | 9. Slab Reinforcement                   |
| 5. Checklist after Concreting           | 10. Checklist before Casting Slab       |

- ▶ Block Production
- ▶ Brick / Block Masonry
- ▶ Door Frame

- ▶ External Plaster
- ▶ Internal Plaster ( Before Plastering)
- ▶ Internal Plaster ( Before Plastering)
- ▶ Plumbing Work
- ▶ Tiling Work
- ▶ Aluminium Windows Fixing Work
- ▶ Electrical Work
- ▶ Elevator Works
- ▶ Fire Fighting Work
- ▶ Bituminous Work
- ▶ Checklist for Bunglow / Flat
- ▶ Checklist for Shop
- ▶ Building Repair
- ▶ Construction Safety

- |                                      |  |
|--------------------------------------|--|
| 1. Electrical                        | 10. Hand, Power and Power Actuated tools |
| 2. Fall Protection                   | 11. Ladders and Stairs                   |
| 3. Floor and Wall Openings           | 12. Trench Excavation and Shoring        |
| 4. Cranes                            | 13. Personal Protective Equipment        |
| 5. Job Information / Administrative  | 14. Housekeeping                         |
| 6. Fire Prevention                   | 15. Welding and Burning                  |
| 7. Concrete and Masonry Construction | 16. Steel Erection                       |
| 8. Demolition                        | 17. Blasting                             |
| 9. Power Transmission & Distribution | 18. Miscellaneous                        |

#### ▶ Reinforcement

1. Initial Scrunity Of Drawings and Schedules
2. Delivery
3. Storage
4. Bending
5. Pre Concreting

#### ● Msc Items Include :

- ▶ Concrete Sampling Frequency
- ▶ Concrete Exposed to Sulphate Attack
- ▶ Concrete Exposure Conditions
- ▶ Chloride Content of Concrete
- ▶ Period before Striking Formwork
- ▶ Tolerance Requirements for Mass of Concrete
- ▶ High Strength Deformed Bars
- ▶ Check for Genuine TMT Bars
- ▶ Soil Texture
- ▶ Soil Properties
- ▶ Sieve Analysis

#### ● Tolerances Include :

<b>▶ Structural Steel Sections</b>
1. Beams & Columns
2. Channels
3. Angles
4. Tee
5. Bars
6. Flats
7. Plates
8. Strips
9. Sheets
10. Hot Rolled Parallel Flange Beam & Column Section
<b>▶ Erection Of Steel Structures</b>
1. Columns
2. Truss
3. Cranes
<b>▶ Hot Rolled Track Shoe Section TS -L1</b>
<b>▶ Hot Rolled Track Shoe Section TS -H1</b>
<b>▶ Hot Rolled Steel Plates for Ships Hull Structure</b>
<b>▶ Concrete Admixtures</b>
<b>▶ Permissible Limits for Solids</b>
<b>▶ Quality Tolerances for Water for Ice Manufacture</b>
<b>▶ Quality Tolerances for Water</b>
<b>● ISO : INFO</b>
Info on ISO 9001, FAQ's on ISO 9000, Quality Management Systems as per ISO 9001, Structural Audit and Steps for quality Control