

Civil Engineering Basic Knowledge

Following are **basics of civil engineering** points to remember for **civil engineers** to make the **construction** work easier while **maintaining** a quality of **construction**;

- **Lapping in reinforcement** is not **allowed** for the bars having **diameters** more than **36 mm**.
- **Steel Char maximum spacing** is **1.00 m** (or) **1 No per 1m²**.
- In **steel dowels**, a rod minimum of **12 mm diameter** should be used.
- **Steel Chairs minimum** of **12 mm diameter** bars to be **used**.
- **Longitudinal reinforcement** should not less than **0.8%** and more than **6%** of gross C/S. **@teamlceted**
- The **minimum** bars used for a **square column** are **4 No's** and **6 No's** for the **circular column**.
- **Main bars** used in the **slabs** shall not be less than **8 mm** (HYSD) or **10 mm** (Plain bars) and the **distributors** not less than **8 mm** and not more than **1/8 of slab thickness**.
- The **minimum thickness** of the slab should be **125 mm**.
- The freefall of **concrete** is allowed a **maximum** of **50m** in height.
- **Lap splices** shall not be used for bars larger than **36 mm**.
- **Water absorption** of bricks **limited** not more than **15 %**.
- **PH value** of the water **used** should not be **less than 6**.
- The **minimum Compressive** strength of Bricks is **3.5 N / mm²**.
- The **binding** wire required in **steel reinforcement** is **8 kg** per Metric tonne.
- For **soil filling** work as per IS code, **3 samples** should be taken for core cutting test for every **100m²**.

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Wenbin Ji



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Table of Contents Civil Engineering Related General Knowledge Questions

1. Understanding the eBook Civil Engineering Related General Knowledge Questions
 - The Rise of Digital Reading Civil Engineering Related General Knowledge Questions
 - Advantages of eBooks Over Traditional Books
2. Identifying Civil Engineering Related General Knowledge Questions
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Civil Engineering Related General Knowledge Questions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Civil Engineering Related General Knowledge Questions
 - Personalized Recommendations
 - Civil Engineering Related General Knowledge Questions User Reviews and Ratings
 - Civil Engineering Related General Knowledge Questions and Bestseller Lists
5. Accessing Civil Engineering Related General Knowledge Questions Free and Paid eBooks
 - Civil Engineering Related General Knowledge Questions Public Domain eBooks
 - Civil Engineering Related General Knowledge Questions eBook Subscription Services
 - Civil Engineering Related General Knowledge Questions Budget-Friendly Options

6. Navigating Civil Engineering Related General Knowledge Questions eBook Formats
 - ePub, PDF, MOBI, and More
 - Civil Engineering Related General Knowledge Questions Compatibility with Devices
 - Civil Engineering Related General Knowledge Questions Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Civil Engineering Related General Knowledge Questions
 - Highlighting and Note-Taking Civil Engineering Related General Knowledge Questions
 - Interactive Elements Civil Engineering Related General Knowledge Questions
8. Staying Engaged with Civil Engineering Related General Knowledge Questions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Civil Engineering Related General Knowledge Questions
9. Balancing eBooks and Physical Books Civil Engineering Related General Knowledge Questions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Civil Engineering Related General Knowledge Questions
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Civil Engineering Related General Knowledge Questions
 - Setting Reading Goals Civil Engineering Related General Knowledge Questions
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Civil Engineering Related General Knowledge Questions
 - Fact-Checking eBook Content of Civil Engineering Related General Knowledge Questions
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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