

## **BASIC CONCEPTS OF CIVIL ENGINEERING**

### **Important units & points –**

1. 25 KN/Cum is unit weight of concrete.
2. 78.5 KN/Cum is unit weight of steel.
3. 10 KN/Cum is unit weight of water.
4. 1 cement bag is 50 kgs.
5. Standard size of brick is 19cm × 9cm × 9cm.
6. Piles transfer the loads by friction or by end bearing.
7. Slope of stairs shall not exceed 40 degrees.
8. Preferably limit the number of steps to 12 per flight.
9. 1 cum volume has 500 no. of bricks.

### **Construction materials –**

The basic construction materials are

1. Cement – Cement is basically obtained by grinding the stones containing lime & clay. Cement is the binder which helps in the bonding of cement, sand along with water. Some of the very important types of cement are
  - Low heat cement used generally in construction of dams.
  - Sulphate resisting cement used in corrosive type environment. E.g., Sewage contact surfaces.
  - Rapid hardening cement, &
  - Quick setting cement.
2. Aggregate – Fine aggregate & coarse aggregate are generally two types of aggregates. Fine aggregate is the one that passes through 4.75mm sieve & retained on 0.075mm sieve. E.g., Sand etc. Coarse aggregate is the one that retains on 4.75mm IS sieve. E.g., Gravel etc.

# Civil Engineering Principles And Practices

**RM Cervero**



## **Civil Engineering Principles And Practices:**

## Embracing the Beat of Term: An Emotional Symphony within **Civil Engineering Principles And Practices**

In some sort of taken by displays and the ceaseless chatter of instant transmission, the melodic splendor and emotional symphony created by the published term frequently fade into the backdrop, eclipsed by the persistent sound and disruptions that permeate our lives. But, located within the pages of **Civil Engineering Principles And Practices** a charming literary treasure full of organic emotions, lies an immersive symphony waiting to be embraced. Constructed by an elegant musician of language, that interesting masterpiece conducts viewers on a psychological journey, skillfully unraveling the hidden melodies and profound influence resonating within each carefully crafted phrase. Within the depths of this moving analysis, we shall explore the book is main harmonies, analyze their enthralling writing design, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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