

## **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

**Dr Merle Potter, PhD Pe**



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