

Foundation Engineering

- Structural Foundations are the substructure elements which transmit the structural load to the earth in such a way, that the supporting soil is not over-stressed and not undergo deformations that would cause excessive settlement of the structure.
- Hence the properties of the supporting soil must be expected to affect the choice of type of structural foundation suitable for the structure.
- The failure of foundation will be due to
 - (i) settlement of soil / foundation.
(It is called as settlement failure)
 - (ii) sliding / slipping of soil / foundation.
(It is called as shear failure)
- The foundation should be safe in shear criteria and settlement criteria.

Types of foundation :-



SHALLOW FOUNDATION

DEEP FOUNDATION

→ Terzaghi, $\frac{D_f}{B} \leq 1$

→ Terzaghi, $\frac{D_f}{B} > 1$

→ carries the load due to Base Resistance

→ carries load due to side as well as base resistance

SHALLOW FOUNDATION

RAFT / MAT

FOOTING

ISOLATED

COMBINED STRIP STRAP SPREAD

Souvik

2 SQUARE

CIRCULAR

RECTANGULAR

RECTANGULAR TRAPEZOIDAL

Lecture Notes On Foundation Engineering

SJ Ball



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