

### **Assignment**

1. Design a one way simply supported floor slab for a residential building of effective span 3.5m. It carries a live load of  $1.5\text{kN/m}^2$ , floor finish of  $1.0\text{kN/m}^2$  and also partition wall of  $1.96\text{kN/m}^2$ . Adopt M20 concrete and Fe415 steel. Draw the reinforcement details also.
2. Design a one way simply supported roof slab over an effective span of 4.0m required for an institutional building. It carries a live load of  $3\text{kN/m}^2$  and floor finish of  $1.0\text{kN/m}^2$ . Adopt M20 concrete and Fe415 steel. Draw the section of slab showing reinforcement details also.