

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 kN/m^2 , floor finish of 1.0 kN/m^2 and also partition wall of 1.96 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 kN/m^2 and floor finish of 1.0 kN/m^2 . Adopt M20 concrete and Fe415 steel. Draw the section of slab showing reinforcement details also.