

- (b) The end block of a post tensioned bridge girder is 500 mm wide by 1000 mm deep. Two cables, each comprising 90 high tensile wires of 7 mm dia. Are anchored using square anchor plates of side length 400 mm with their centres located at 500 mm from the top and bottom of the edges of the beam. The jacking force in each cable is 4000 kN. Design a suitable anchorage zone reinforcement using F4 415 grade HYSD bars conforming to IS : 1343 provision. (16)

13. (a) A prestressed concrete circular cylinder tank is required to store 25400 million litres of water. The permissible compressive stress in concrete at transfer should not exceed 13 N/mm^2 and the minimum compressive stress under working pressure not less than 1 N/mm^2 . The loss ratio is 0.7. High tensile steel wires of 7 mm diameter with an initial stress of 1000 N/mm^2 are available for winding round the tank. Freyssinet cables of 12 wires of 8 mm diameter which are stressed to 1100 N/mm^2 , are available for vertical prestressing. The cube strength of concrete is 40 N/mm^2 . Design the tank walls supported on elastomeric pads. Assume the coefficient of friction as 0.5. (16)

Or

- (b) A prestressed concrete cylinder pipe is formed by lining a steel cylinder of diameter 700 mm and thickness 2.5 mm with a layer of spun concrete 36 mm thick. If the pipe is required to withstand a hydraulic pressure of 0.85 N/mm^2 without developing any tensile stress in concrete, calculate,
- The required pitch of 4 mm wires, wound round the cylinder at tensile stress of 1000 N/mm^2 ,
 - The test pressure to produce a tensile stress of 1.4 N/mm^2 in the concrete immediately after winding, and
 - The approximate bursting pressure.
- Modular ratio = 6
Tensile strength of wire = 1700 N/mm^2
Yield stress of cylinder = 280 N/mm^2
Loss ratio = 0.85. (16)

14. (a) Design a composite PSC beam for the following data :

Span	=	12 m
L.L.	=	6 kN/m^2
σ_{ci}	=	14 N/mm^2
η	=	85%
depth of slab	=	150 mm
f_{pc}	=	950 N/mm^2

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