

Analysis & Design of Prestressed Concrete Structures

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Plain concrete, commonly known as concrete, is an ultimate mixture of binding material, fine aggregate, coarse aggregate and water. This can be easily moulded to desired shape and size before it loses plasticity and hardness. Plain concrete is strong in compression but very weak in tension. Strength of concrete in tension is very low and hence it is ignored in reinforced concrete (R.C.C.) design. Concrete is termed as reinforced concrete in steel and helping to keep steel at desired distance. This is R.C.C. lot of concrete is wastefully utilized. Prestressing of concrete is one of the method of utilizing water cement.

The principle of prestressed concrete is to introduce a prestress compressive stresses in the concrete structure. These prestress stresses are applied as the concrete structure is formed. When load is applied, the load stresses developed due to loading has to first satisfy these compressive stresses before introducing tensile stress in concrete.

Thus in prestressed concrete, stress concrete is utilized to avoid the load. Another important advantage of pre-stressed concrete (PSC) is that cracks are avoided as the ultimate and hence durability is high. The tensile strength of PSC is also high. The deflections of PSC beam is also small and this is due to the larger spans also. PSC is commonly used in the construction of bridges, large columns like dams and shafts, PSC slabs and decks piers are commonly used.

The material used in PSC is high strength steel and high strength steel. The remaining of steel may be pre-stressing steel or post-tensioning. Pre-tensioning concrete is casting for high before concreting and then stressing the steel. In case of post-tensioning, the ducts are cast in concrete structure. The concrete of hardness, pre-tensioning steel is passed through duct. After stressing steel, they are embedded in concrete structure by special method.

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