



Shriram Tower Tech Ltd. offers a wide range of concrete structure cooling towers in cross flow and counter flow configuration. Capacities range from 600 m<sup>3</sup>/ hr to 4000 m<sup>3</sup>/ hr per cell. Concrete towers offer long service life with low maintenance requirement at a surprisingly low premium over timber towers. They are ideally suited for power plant and large air conditioning and process plant applications

Our in-house structural engineering capabilities combined with in-house thermal engineering ensures that concrete cooling towers are optimally designed and perform as specified. Construction can be carried out by us or by the client based on our drawings. The concrete structure is generally designed as per Indian Standards. However designs to BS / ACI codes can be provided where specified. Large concrete towers are designed to extensively use precast elements to minimise construction time and cost.

High efficiency Fiberglass bladed fans are used. The fans operate within a FRP or concrete velocity recovery stack. High efficiency bevel helical gearboxes coupled to standard motors through single piece tubular drive shafts are used.

**Cross flow** concrete towers are designed with splash fills. Fills of timber and various designs of PVC are available. The fills are supported on SS wire hangers. Drift eliminators in treated timber or PVC are available. The hot water distribution system incorporates specialised flow control valves and target nozzles fitted on a distribution basin.

**Counter flow** concrete towers are designed by default with PVC film flow fills. Splash fills are available as an option for special applications. The hot water distribution system incorporates a patented square pattern rotary spray nozzle which ensures uniform distribution of water at low operating pressures. Standard drift eliminators of ACB or high efficiency PVC drift eliminators are incorporated.

A wide range of optional materials and accessories are available to suit specific requirements. These include special access and safety equipment, basin fittings, external piping and valves, electrical cabling and fittings, instrumentation etc. Accessories like screens, side stream filters are also available. The complete cooling water system including pumps, piping, MCC, instrumentation and linkages to the plant can also be provided as a turnkey solution.