



Shriram Tower Tech Ltd. offers a wide range of timber structure cooling towers in both cross flow and counter flow configuration. Per cell capacities range from 100 m<sup>3</sup>/ hr to 4000 m<sup>3</sup>/ hr per cell. Timber towers are ideally suited for applications where small to medium towers are required and where the tower cost and construction time has to be minimised.

The timber structure consists of a frame work of treated pine wood members bolted together using suitable hardware. The species of timber typically used are *Pinus elliotti*, *Pinus radiata*, *Pinus silvestris* and *Pinus wallichiana*. All timber are treated with CCA as per the relevant Indian Standard. Hardware options include MS HDG and various grades of Stainless steel depending on the application. Cladding options includes ACB, PVC and FRP.

High efficiency Fiberglass bladed fans are used. The fans operate within a FRP velocity recovery stack. High efficiency bevel helical gearboxes coupled to standard motors through single piece tubular drive shafts are used. The entire mechanical equipment is mounted on an unitised torque tube assembly.

**Cross flow** timber towers are designed with splash fills. Fills of timber and various designs of PVC are used. 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** timber 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. Internal piping is of MS epoxy coated with PVC laterals. High efficiency PVC drift eliminators are incorporated as standard.

A wide range of optional materials and accessories are available to suit specific requirements. These include special materials of construction for hardware, special access and safety equipment, basin fittings, external piping and valves, 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.