



Shriram Tower Tech Ltd. offers the unique RCC modular forced draft counterflow cooling tower under license from **Tower Tech Inc., USA**. This tower incorporates a number of patented innovations. Together, these eliminate many of the problems present in conventional cooling towers. The major innovations include

Water collection system: Unique overlapping plastic vanes are positioned below the fill. These collect the water as it leaves the fill and diverts it to cold water channels located at the side of the tower. This allows the fan to be mounted at the bottom of the tower and eliminates the basin below the tower.



Bottom mounted Fan: The water collection system provides a wet/dry barrier which allows the fan to be located at the bottom of the cooling tower in the cool dry intake air stream. This allows the fan to be independently supported from the ground eliminating loads on the tower structure. The location also allows close coupling of the motor and gear box, eliminating the drive shaft and its associated maintenance problems. The fan equipment is also easily accessible for maintenance.

Elevated cold water basin: The water collection system allows for concentration of the water storage in the cooling tower into a separate, deep cold water reservoir. This closed basin is located above ground and provides positive suction for horizontal centrifugal pumps. This closed basin reduces growth of algae and other micro organisms, reducing water treatment costs. The reservoir serves as the forebay for the cooling tower.

The modular tower is designed with **PVC film flow fills**. The hot water distribution system incorporates the patented square pattern rotary spray nozzle which ensures uniform distribution of water at low operating pressures. Standard high efficiency PVC drift eliminators are incorporated. High efficiency Fiberglass bladed fans are used. High efficiency bevel helical gearboxes are directly coupled to standard motors.

Savings: The savings due to the modular cooling tower design include reduced power costs, lower pump head, low water treatment costs, low drift losses and low construction time. Maintenance costs and downtime are significantly lower. The layout permits the use of horizontal centrifugal pumps located at ground level without elevating the tower.

A wide range of optional materials and accessories are available to suit specific requirements. The complete cooling water system including pumps, piping, MCC, instrumentation and linkages to the plant can also be provided as a turnkey solution.