FRP Structure Cooling Tower

FRP structure Cooling Tower framework consists of structural profiles of pultruded FRP composites. The characteristic of composite material to prevent the cooling tower from corrosion due to chemical exposure or moisture.

The columns and diagonals shall be of box section, and the columns shall be anchored to the concrete cold water basin by stainless steel anchor clips. The longitudinal and transverse girts shall be channel sections, and the cooling tower structure shall be stiffened by diagonal braces which also can transfer the wind and seismic loads to the basin anchor points.

All structural connections and splices shall be through-bolted, no glue type structural connections will be applied. The materials shall be SS316L or duplexstainlesssteel.

The end walls and sidewalls of the cooling tower above the air inlet, shall be cased with the corrugated FRP panels. The tower shall be partitioned such that the fan of each cell can be operated and cycled independently of the remaining cells, and the partition wall also consists of the corrugated FRP plates.

Advantage:

-Low resistance and high efficiency

-Corrosion resistance and high strength

-Light weight