

## Pumping Station

### Pump

GTPL offers pumping system for cooling tower recirculating water. Depending on the requirements of head and flow, make, water quality and service pump is offered to cater all the requirements. Pumping house that is designed can be above or underground in a dedicated building or in open as desired by the customer.

The mechanical as well as the hydraulic performance (including NPSHR) for the complete range of operation of the offered model are established in the shop test. These pumps are either driven by electric motor or general purpose steam turbine. Pumps are offered in both horizontal and vertical configuration.

Pumps are also offered for fire water application, sludge removal etc.

### Piping

GTPL provides complete piping solution to its customer. GTPL understands all the intricacies involved in piping work. Piping department is capable of executing 3000 tons of piping in one project. Intricate understanding by team GTPL of issues in piping like corrosion protection, welding, type of pipe and application area etc. makes the execution of piping projects flawless.

In its various projects GTPL has provided piping in various class of materials and application. GTPL provides steam line piping and all associated fittings for turbine driven pumps. GTPL has provided FRP underground and above ground piping for water supply to cooling tower. Some of the piping are listed below:

| S. No | Equipment              | Type of Piping  |
|-------|------------------------|---|
| 1     | Turbine, Steam Piping  | ASTM A 106 GR.B, SEAMLESS                             |
| 2     | Recirculating water    | Spiral SAW Pipes, BE, WELDED, IS 1239, IS-3589 GR.330 |
| 3     | Acid Dosing            | ASTM A 312 TP 316L, ASTM A 106 GR.B                   |
| 4     | Instrument Air         | Spiral SAW Pipes, BE, WELDED, IS 1239, IS-3589 GR.330 |
| 5     | Plant Air              | Spiral SAW Pipes, BE, WELDED, IS 1239, IS-3589 GR.330 |
| 6     | Chlorination system    | HDPE, ASTM D 3035 Gr PE 3406 CL.C, Seamless           |
| 7     | Chemical Dosing System | ASTM A 312 TP304L, ASTM A 358 TP304L CL.1             |
| 8     | Underground piping     | FRP, AWWA M11   |