

Impressed Current Cathodic Prevention System

For sea cooling tower ,all RCC structure must be protected against corrosion. The rebars used in cooling towers are liable to corrode by action of electrolytes present in sea water. The prevention system used must be able to protect the rebars throughout the intended life time of the RCC structure. This can be done by using Impressed Current Cathodic Prevention (CP) system. The system is designed and installed in accordance with the European standard for cathodic protection of steel in concrete EN12696. The anode material offered is Mixed Metal Oxide (MMO) Titanium ribbon anode which is installed into the steel cage using cementitious spacers. Silver/Silver Chloride and pseudo reference electrodes are embedded in the concrete for monitoring purposes.

As the system offered is complicated, there is lot of survey required

Pre Design Survey

- Soil resistivity measurements
- Identification of all the surfaces that are to be protected and place where CP components are to be kept
- The site survey inputs

The complete ICCP system is monitored and controlled remotely from the Central Computerized Station installed in the CP Equipment room with dedicated CP software.

SYSTEM DETAILS

System offered by GTPL shall contain following documents.

- Remote Monitoring System
- CPTR Unit.
- MMO Anodes
- Anode junction box
- Cathode junction box
- Permanent reference cells
- Test stations
- Cables