

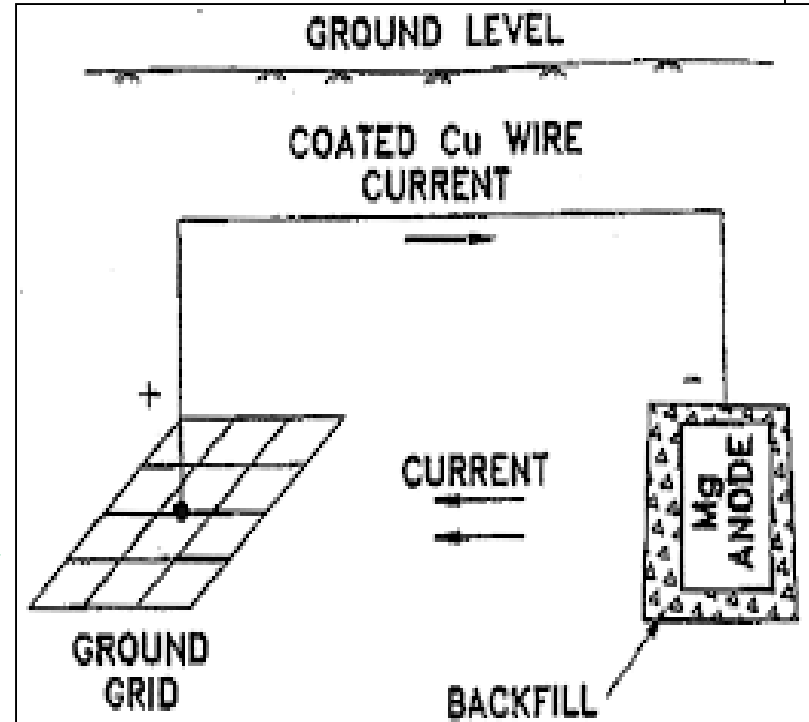


## PRINCIPLE

An impressed current is applied in the opposite direction of the corrosion current to nullify it & corroding metal is converted from anode to cathode.

## Construction

- -Ve terminal : object to be protected
- +Ve terminal : an inert anode.
- Inert anode: graphite or platinized Ti
- **The anode is buried in a back fill**
- (Back fill: a mixture of gypsum, coke, breeze and sodium sulphate).

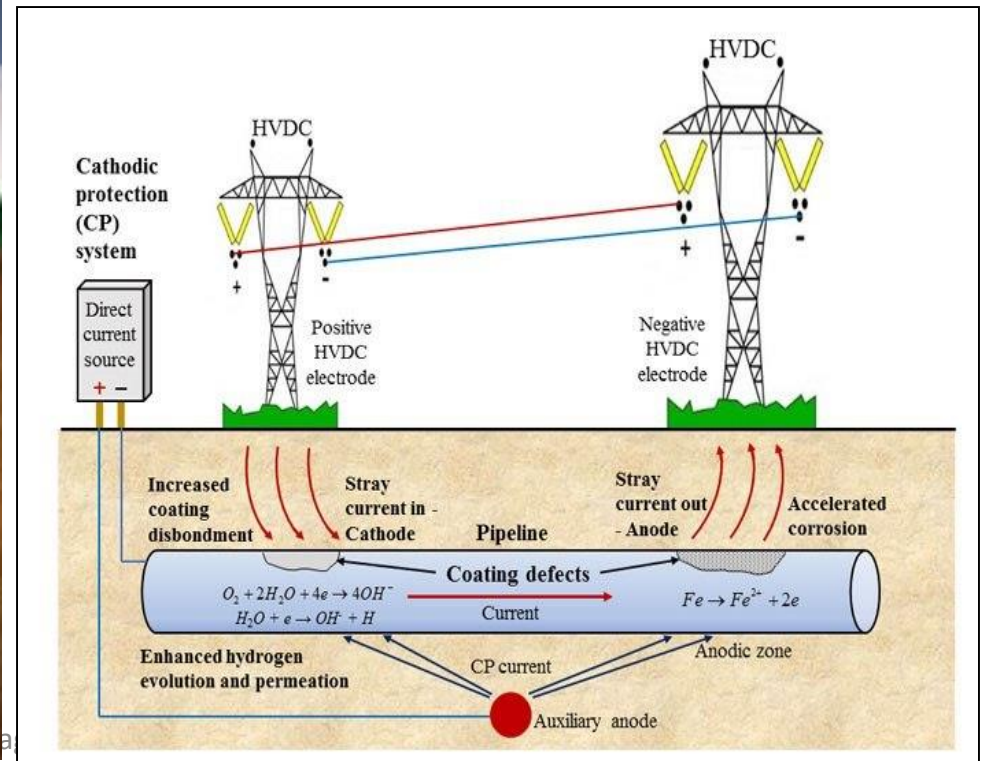




# WORKING

⊕ The back fill provides good electrical contact to anode.  
The current from the battery is impressed on the metallic structure to be protected which acts as the cathode.

## Applications





## **Advantages of impressed current protection method**

- Larger driving voltage.
- Larger flexibility control.
- It is applicable to large objects.
- Uncoated parts can also be protected.

## **Limitations of impressed current protection method**

- 1.Maintenance and installation cost are very high.**