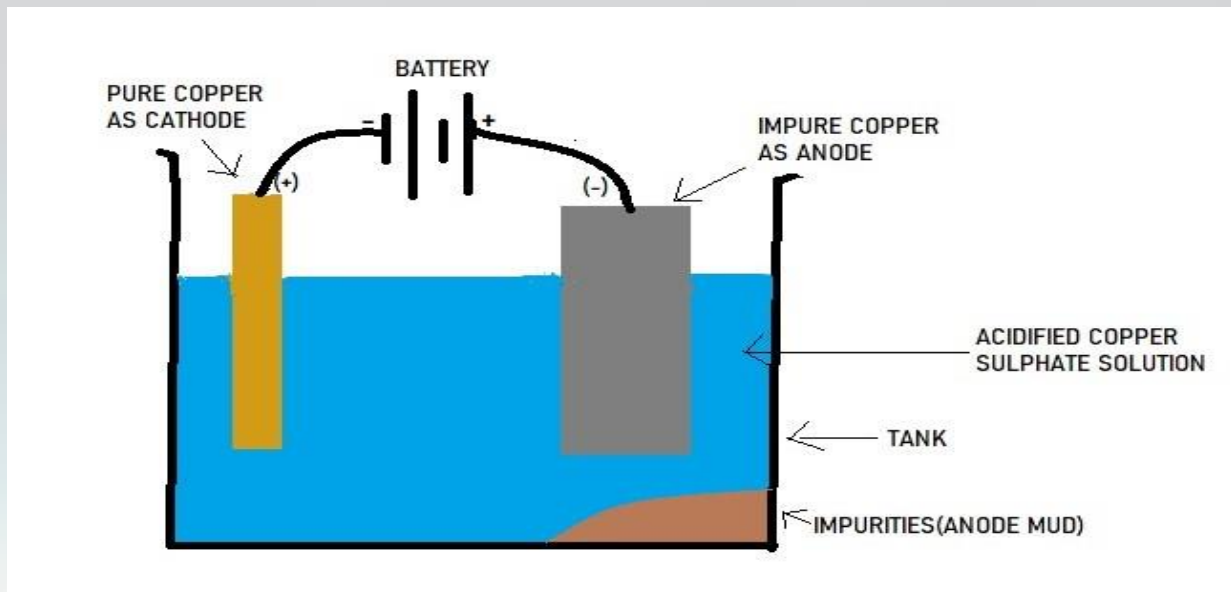


REFINING OF METALS THROUGH ELECTROLYSIS



IN THIS PROCESS IMPURE METALS GET REFINED BY KEEPING THE PURE METAL AND ITS OWN SOLUTION IN THE PROCESS OF ELECTROLYSIS. LIKE IN REFINING THE COPPER WE KEEP IMPURE COPPER METAL AS AN NEGATIVE ANODE AND PURE COPPER METAL AS POSITIVE CATHODE, AS THE CURRENT IS PASSED THROUGH THE BATTERY THE IMPURE COPPER WILL LOOSE ITS ELECTRONS AND GET DISSOLVED IN THE FORM OF Cu^{2+} AND THE CATHODE WILL LOOSE ELECTRON AND SAME AMOUNT OF Cu^{2+} FROM THE COPPER SULPHATE SOLUTION WILL GET DEPOSITED IN THE CATHODE BY ACCEPTING THE LOOSED ELECTRONS HENCE COMPLETING THE WHOLE CIRCUIT. IN THIS WHOLE PROCESS ALONG WITH Cu^{2+}

IMPURITIES ALSO COME OUT AND GETS SETTLE DOWN.
THESE IMPURITIES ARE CALLED *ANODE MUD*. THIS
METHOD IS WIDELY USED AS IT IS VERY COST EFFICIENT...

