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TOPIC: METALLURGY.

Metallurgy: The process of getting metal from ore for industries is called

Metallurgy. Metallurgy completes in three steps Concentration, Extraction, and Purification

ORES:- The mineral from which metal is conveniently and economically extracted is called ores.

Gangue:- The impurities present in ores is called gangue.

Concentration:- process of removing impurities from the ore is called concentration.

(a) Gravity separation:- Heavy metal ores are concentrated by gravity separation method. In this process powdered ore

is added in flow of water. Heavy ore

comes in bottom and impurities is washed out.

Electromagnetic separation:-

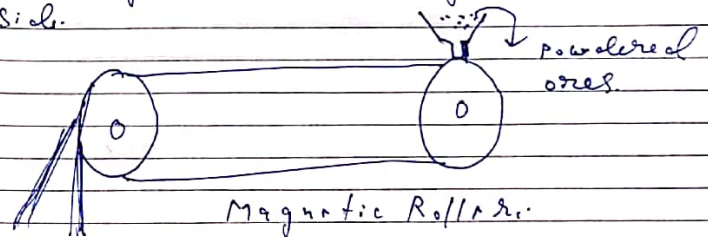
This mode of concentration is adopted

for those ores which either ore or

impurities are magnetic in nature. In the process powdered ore is added

on magnetic rollers. Magnetic substance are attracted and falls on one side.

Non magnetic substance falls on other side.



Froth floatation process:- This process

of concentration is done for sulphide ores. Powdered ore is added in water and pine oil mixture. Air is blown in it.

Pure ore comes out with

froth on upper level. Gangue or

impurities of ores comes out at bottom.

Ore of Zinc is ZnS which is concentrated by this

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