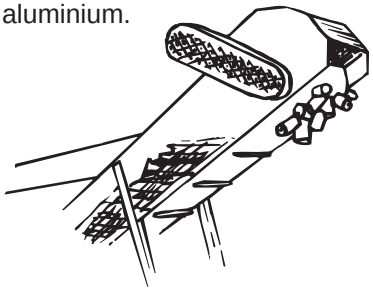
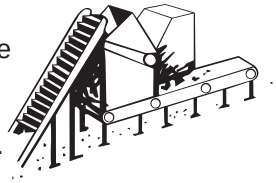
RECYCLE - INTERMEDIATE HANDOUT

Metal Process Flow Chart

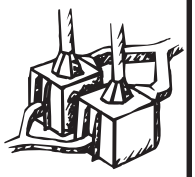
Metals are collected and separated by magnets and air into steel or aluminium.



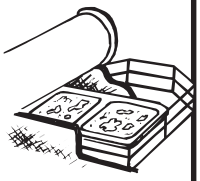
Aluminium products are shredded and delaquered.



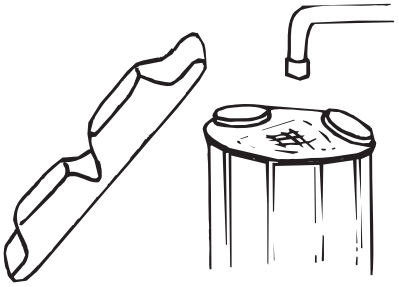
Shredded **aluminium** is melted down.



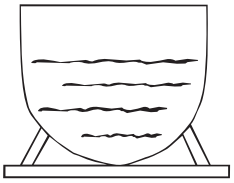
Aluminium is also recovered from dross in two step process.



Aluminium is processed into liquid or ingot form and shipped.

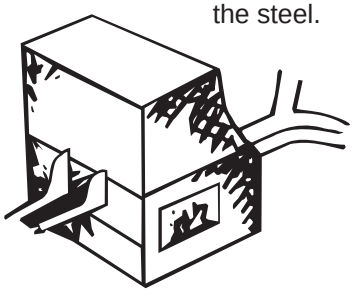


Steel cans are detinned by washing in caustic soda (also removing paper labels, food scraps, and other contaminants).

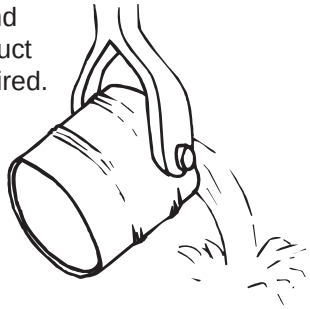


Cleaned **steel** cans are washed a second time, compressed into 230 kg bales and sent to steel mills.

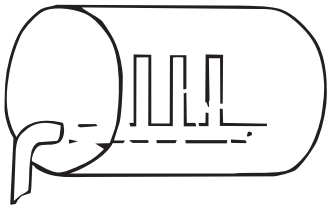
Steel bales are melted in a furnace to liquefy the steel.



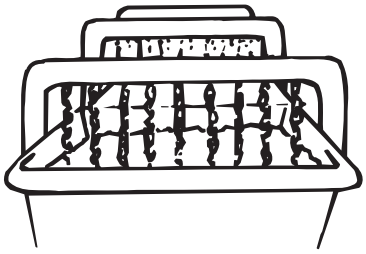
Molten **steel** is processed according to end product required.



The dissolved **tin** is obtained by filtering the caustic soda solution.



Electric current is sent through metal chains dipped into the solution attracting the **tin.**



Tin is recovered by heat as a chemical powder.