

05/10/23

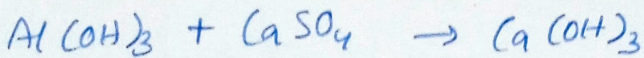
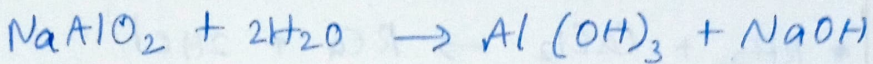
i) phosphate conditioning.



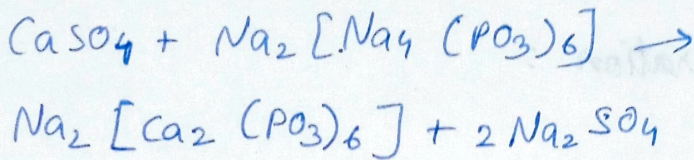
ii) Colloidal conditioning.

by adding agents like kerosene,
agar agar, gelatin, etc..

3. Sodium aluminate conditioning



4. Calgon conditioning $[\text{Na}_2[\text{Na}_4(\text{PO}_3)_6]]$

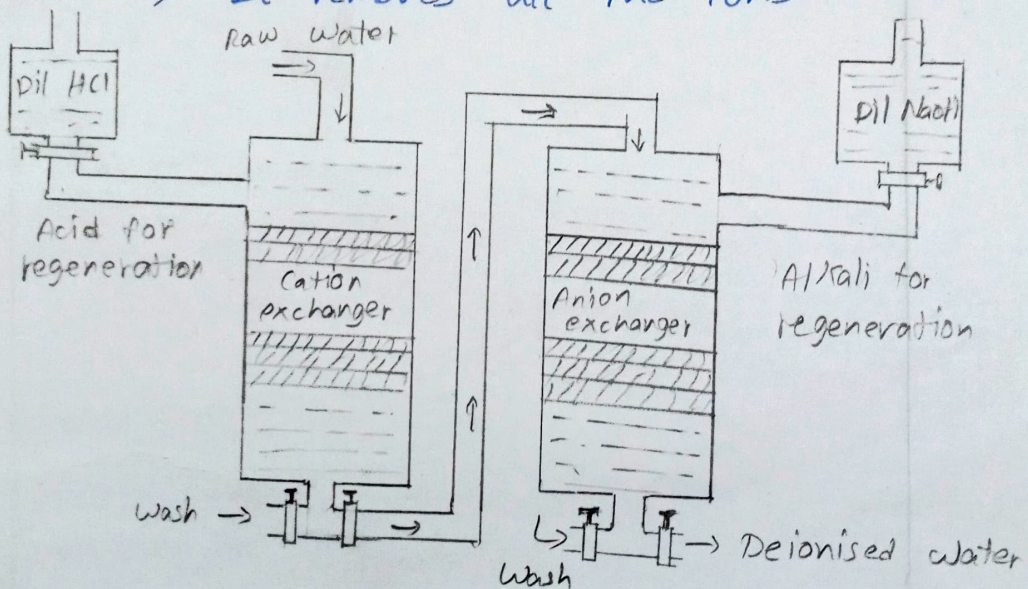


ii) External treatment

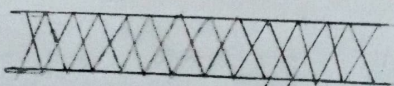
⇒ Removing salt ⇒ boiling.

a) Demineralization / ion exchange process

⇒ It removes all the ions



Resin



i) Cation exchange resin

⇒ $-\text{COOH}$, $-\text{SO}_3\text{H}$

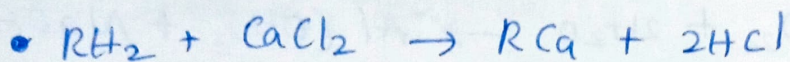
⇒ Represented as RH_2

ii) Anion exchange resin

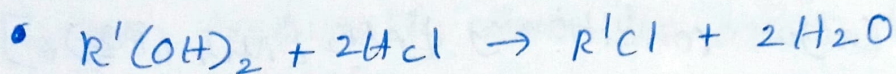
⇒ NH_2 , OH

⇒ Represented as $\text{R}'(\text{OH}_2)$

* RH_2 :

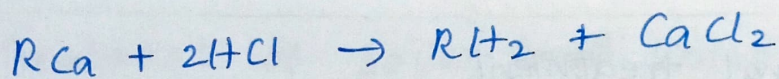


$R'(OH)_2$:



* Regeneration :

i) + ion



ii) - ion

