ARACHIS BRANDS
MODULE 22: HAIR SHAMPOO

Low-Cost Conditioning Shampoo (20 L)

a) SLES 70%   3.2 L   Primary cleanser
b) Cocamidopropyl Betaine (CAPB)   1.2 L   Mildness & foam creaminess
c) CDEA (or foam booster) 600 ml Foam stability & thickness
d) Glycerine 300 ml Moisture retention
e) Sodium chloride (salt)   250–400 g   Viscosity control
f) Polyquaternium-7 (optional but ideal)   150 ml Conditioning feel
g) Preservative (Phenoxyethanol / MIT)   25–30 ml   Shelf life
h) Fragrance 25 ml   Appeal
i) Colour   small   Appearance
j) Citric acid solution (10%)~80–150 ml   Adjust pH to 5.0–5.5

Mixing Procedure

1. Add 10 L water to tank
2. Slowly add SLES (avoid foam)
3. Add CAPB and mix gently
4. Add CDEA
5. Add glycerine
6. Add Polyquaternium-7 (if using)
7. Add preservative
8. Adjust pH to ~5–5.5 using citric acid
9. Add salt gradually until desired thickness
10. Add fragrance & colour
11. Top up to 20 L

Let rest 12 hours → viscosity stabilizes.

Cost Control Options

To make cheaper:
remove Polyquaternium-7 (still works)
slightly increase CAPB for mildness