



KAMALA is obtained from the fruit of *Mallotus philippinensis*, a small tropical evergreen tree found in India. It's also known as the monkey-face tree (because monkeys are said to rub their faces in the fruit). Kamala gives gold yellows to tangerines. It has poor light fastness on cotton but gives good deep shades on protein fibres. If you add a little iron to the dyebath it yields deep moss greens. Over or under dyed with indigo it produces forest greens. For medium depth of shade use 7% WOF (you may have dye left over in the dyebath for further dyeing)

MORDANTING

PROTEIN

Use alum 15% WOF

CELLULOSE

Use tannin at 8% WOF then

Use alum at 15% WOF or

Use aluminium acetate at 8% WOF

DYEING Kamala isn't very soluble in water, so you need to extract the dye from the powder before you start. You can do this with alcohol or with Soda Ash. To extract with alcohol, soak the powder in enough Methylated Spirits to cover the powder for at least 2 hours then add this to the dyebath. Alternatively mix the powder with half its weight of soda ash in a decent amount of water. Let this stand and stir occasionally for 2 hours then add this directly to the dyebath. After dyeing rinse your fibre with vinegar solution and then with water.



CUTCH (Catechu) is obtained prepared by steeping the heartwood of the *Acacia catechu* tree in hot water to extract a syrupy liquid which is dried and then ground into powder. The Catechu tree grows in India, Burma, Indonesia, and Peru. It's a great source of a variety of ochre browns, soft cinnamons, khaki and deep ochre yellow/oranges - all with excellent fastness. On its own without mordants Cutch gives cinnamon browns. With alum you'll get mid browns and rinsing with a little soda ash will redden the colour. Adding iron to the dyebath will give you chocolate browns.

Use 20-50% WOF to dye a medium depth of shade.

MORDANTING

PROTEIN

Use alum at 15% WOF

CELLULOSE

Use alum at 15% WOF

There is enough tannin in Cutch so no extra required.

DYEING dissolve Cutch powder in boiling water and add to dyebath. Add dye solution and fibre to the dyebath and simmer gently for 2 hours. Cutch doesn't exhaust well as some other dyes do so the dyebath can be used a few times for multiple depths of shade.. Leaving the dyebath to cool and stand overnight will deepen the colour. Rinse with a weak vinegar bath to neutralise if you have used soda ash.

