

## CHAPTER--II

### Morphological features of the plants of Labiatae family, Leucas and Leucas Aspera Spreng:

Labiatae<sup>4</sup> is a family of 2600 species, which are chiefly of north temperate region.

Morphological features: Members of this family are herbs, rarely shrubs, usually load with oil glands.

Stem usually 4-gonous, Leaves opposite or whorled, stipules. O.flowers irregular, solitary 2-nate or fascicled and axillary or in centrifugal spicate cymes which by their union or pairs form false whorles. Calyx persistent, subregular, 4-5 cleft or 2-lipped. Corolla monopetalous, hypogynous; limb 4-5 lobbed or 2-lipped, lobes imbricate in bud. Stamens inserted in the corolla tube, 4-didynamous, or the 2 upper imperfect. Anther - cells connate or separate or confluent. Disc prominent, Ovary free, 2 of 2-celled carpels; style simple, inserted between the lobes, stigma usually 2-fid; Ovules one in each cell, erect anatropous. Fruit of 4 dry or rarely fleshy 1-seeded lobes (nutlets) at the base of the calyx. Seeds small, erect, albumen sparing or 0. radicle inferior.

Leucas<sup>4</sup> is one of the genera of Labiatae family. It is woolley or villous rarely glabrate herbs or under-shrubs.

Whorles axillary, usually distant, Calyx 10-nerved striate; mouth equal or oblique, equally or unequally 6-10 toothed. Corolla-tube included, annulate or not within; upper lip erect, concave crown villous, lower spreading, 3-lobed, midlob very large. Stamens 4, ascending; anthers conniving, cells divergiate at length confluent. Style sublate, posterior lobe obsolete. Nutlets ovoid, triquetrous, obtuse - species 50, Asiatic and African.

Leucas Aspera spreng<sup>1,4</sup>:

Annual, erect or diffuse, stem stout, hispid or scabrid, leaves 1-3 inch, linear or oblong obtuse entire or crenate, whorles large terminal and axillary, bract, long linear and filiform. Calyx 1/3 - 2/3 inch, tubular carved smooth below green and ribbed and scabrid above contractal, above the nutlets, mouth small glabrous very oblique shortly irregularly toothed. Flowers small, white in dense terminal and axillary whorls, nutlets small, oblong smooth brown.