BILVA

NAME OF THE DRUG-BILVA

BOTANICAL NAME- Aegel marmelos

FAMILY- RUTACEAE



SYNONYMS-

- 1. Maloora- Alleviates all types of mala dosha
- 2. Sandilya- cures many diseases.
- 3. Sailusha- Grows in hilly regions.
- 4. Sriphala-Fruits of bilva have aroma
- 5. Sadaphala- Bilva always bears fruits
- 6. Mahakapittha- Fruit resembles large kapittha fruit
- 7. Kantaki- Bilwa is a thorny tree
- 8. Granthila- Stem is nodular

CLASSICAL CATEGORIZATION-

- 1. CHARAKA- Shothahara, Arsoghna, Asthapanopaga
- 2. SUSHRUTHA- Varunadi, Ambashtadi, Brhat panchamoola
- 3. VAGBHATA- Varunadi, Ambasthadi

BOTANICAL DESCRIPTION-

Aegle marmelos is a deciduous shrub or small to medium-sized tree, up to 13 meters tall with slender drooping branches.





BARK-

- The bark is pale brown or grayish,
 smooth or finely fissured and
 flaking, armed with long straight
 spines, singly or in pairs.
- Bark is with slimy sap oozing out from cut parts.
- The gum is also described as a clear, gummy sap, which exudes from wounded branches and hangs down in long strands, becoming gradually solid





LEAF-

- •The leaf is trifoliate, alternate, and ovate with a tapering or pointed tip and rounded base.
- Young leaves are pale green or pinkish, finely hairy while mature leaves are dark green and completely smooth.
- Each leaf has 4–12 pairs of side veins joined at the margin





FLOWER-

- The flowers are 1.5 to 2 cm, pale green or yellowish, sweetly scented
- Bisexual, in short drooping unbranched clusters at the end of twigs and leaf axils.
- They usually appear with young leaves. The calyx is flat with small teeth.
- The four or five petals overlap in the bud.
- Many stamens have short filaments and pale brown, shortstyle, anthers.
- The ovary is bright green with an inconspicuous disc.





FRUIT-

- The fruit typically has a diameter of between 5 and 10 cm
- It is globose or slightly pearshaped with a thick, hard rind and does not split upon ripening.
- The woody shell is smooth and green, gray until it is fully ripe when it turns yellow.
- Inside are 8 to 15 or 20 sections filled with aromatic orange pulp, each section with 8-10 flattenedoblong seeds each about 1 cm long
- Seeds bearing woolly hairs and each enclosed in a sac of adhesive, transparent mucilage that solidifies on drying.

RASAPANCHAKA-

RASA- Kashaya, Tikta

GUNA- laghu, ruksha

VIRYA- Usna

VIPAKA-Katu

KARMA- Vata-Kapha hara, Grahi, Deepana-pachana

बिल्वं सांग्राहक दीपनीय वातकफप्रशमनानाम् । (Ch Su 25ch)

बिल्वः शाण्डिल्यशैलूषौ मालूरश्रीफलाविप। (गन्धगर्भः शलाटुश्च कण्टकी च सदाफलः ।।) श्रीफलस्तुवरस्तिक्तो ग्राही रूक्षोऽग्निपित्तकृत्। वातश्लेष्महरो बल्यो लघुरुष्णश्च पाचनः।। (Bhavaprakash)

MYTHOLOGICAL REFERENCE-

- Bilva is also called Shiva Druma(Lord shiva favorite tree)
- The leaves of this tree are generally trifolic--a leaf that's divided into three leaflets--which are believed to represent the 'trinetra' or three eyes of lord Shiva.

•According to Hindu mythology, the leaf also represents the holy trinity--Bramha,

Vishnu and Mahesh.



PART USED-

1. FRUIT

2.LEAVES

3. ROOT

DOSAGE-

- 1. Kashaya- 50ml- 100ml
- 2. Churna- 3-5gm

Pharmacological activities-

- 1. Anti-Diarrhoeal activity: The activity of ethanolic extract of dried A. marmelos fruit pulp was tested against pathogens, namely, Shigella dysenteriae, It was reported that the extract showed maximum bactericidal activity.
- 2. Anti-Oxidant activity: A study observed that fruit (pulp) extract of bael showed great antioxidant potential.
- 3. Anti-Diabetic activity: All extracts of A. marmelos exhibited anti-diabetic activity in rabbits. Methanolic extract of leaves showed maximum antidiabetic effect.

MAJOR CHEMICAL CONSTITUENTS-

- 1.Root-xanthotoxin, umbelliferone, marmesin, marmin, skimmin etc.
- 2.Heart wood- furoquinoline, marmesin, ß-sitosterol etc.
- 3.Leaves-essential oil containing a & ß phellandrene, rutin, marmesinin, aegelin, aegelenine, etc.
- 4. Ripe fruits-xanthohumol, marmesin, skimmin etc.
- 5.Unripe fruits-marmeline, aegeline, imperatorin, alloim- peratorin and xanthotoxol, etc.

IMPORTANT PREPARATIONS OF BILVA-

- 1. Bilva Taila
- 2. Bilva Rasayana
- 3. Asana Bilvadi taila
- 4. Dasamoola Arishta
- 5.Bilvadi Vati
- 6. Kutajadi Avaleha

THERAPEUTIC INDICATIONS-

- (1) Pittātisāra- Fruit pulp of Bilva and Madhūka are mixed with sugar and honey and administered with rice water (S.S.Ut.40).
- (2) Grahani- Paste of unripe fruit of Bilva is given with Sunthi and Guda while the patient is on buttermilk as diet.
- (3) Kāmalā-Leaf juice of Bilva is given along with Triktu(C.S.Ci.16)

