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| Official Name:- | | चित्रक |
| English Name:- | | Lead war |
| Botanical Name :-. | | Plumbago zeylanica |
| Family :- | | Plumbaginaceae |
| Botanical identification:- | | Kingdom: Plantae Subkingdom: Tracheobionta Class: Magnoliopsida Subclass: Caryophyllidae Superdivision: Spermatophyta Division: Magnoliophyta Order: Caryophyllales Family: Plumbaginaceae Genus: Plumbago Species: P. zeylanica |
| Synonyms:- | | चित्रक: is a plant known by its fiery hot nature अग्निक: (Due to its hot nature and pungency ऊषण: (hot and pungent दारुण: कै०like leopard) दीपक: सो०agni denotes its digestive property while 'citraka' signi- fies the tearing action. जरण: digests food. (Jarana) द्विपी सो० (it is bhedana and as such tears accumulated lumps |
| Habitat :- | | It is distributed throughout tropical and sub-tropical climates of the world, including Australia and India. |
| Botanical Identifica tion | Habit | |
| | Root | light yellow coloured when fresh, reddish-brown when dry, and are usually straight unbranched, or slightly branched with or without secondary rootlets |
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| Leaves | Stem | Stems are herbaceous, erect, terete, slightly striate, simple and upward branching. | |  |
| | Phyllotaxy | Opposite | |  |
| | Simple/Compound | Simple | | |
| | Lamina | White waxy dot on lower surface | | |
| | Texture | Glabrous | | |
| | Tip | Acute, acuminate, Obtuse | | |
| | Base | Attenuate | | |
| | Margins | Entire | | |
| Petiole | Petiolate, 2-12 mm | | | |
| Inflorescence | | Spicate-Racemose 3-15 cm | | |
| Flower | Colour | red or white | |  |
| | Bract | Bracteate | | |
| | Calyx | Red, short-cylindric, shortly and acutely 5-dentate, along the ribs covered with stipitate, biparous and sessile glands | | |
| | Corolla | Tube slender (2-2.5 cm), 4 times as long as calyx, limb wide, segments ovate, round, cuspidate. | | |

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| Floral formula/ Diagram | | | |  |
| Fruit | | | Green coloured . With Sticky hairs when young and become dark brown when mature |  |
| Seed | | | Raddish to dark brown seeds | |
| Types:- | | a) <i>Plumbago indica</i> - Red in colour b) <i>Plumbago auriculata</i> - Bluish in colour c) <i>Plumbago zeylanica</i> - White in colour | | |
| Rasapanchaka:- | | रस रू कटु गुण रू लघु, रुक्ष, तीक्ष्ण वीर्य रू उष्ण विपाक रू कटु | | |
| Chemical Constituents:- | | Phytoconstituents a) Plumbagin b) Plumbagic Acid c) Biplumbagin(Chitranon) d) Xanthoxyletin e) Plumbic acid f) Zeylanone g) Plumbazeylanone h) sitosterol i) Campesterol j) Vanilic acid k) Maritinone l) Elliptinone | Plant part Leaf,Root,Flower,Seeds,Stem,Fruits Leaf Root Root Root Stem,Flower Root Fruit,Flower Flower Leaf Root | |
| Market information:- | | The rate for a kg of dried Chitrakmoola ranges from Rs.100-135/kg Note: Market for medicinal plants is volatile and the economics may vary. | | |
| Adulteration/Substitution:- | | Danti(<i>Baliospermum montanum</i>) | | |
| Cultivation:- | | Cultivation:-cultivated in sandy-loam soils. Seeds are sown in nursery beds in the month of March-April. It can also be | | |

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| | propagated through stem cuttings. 8-10cm long stem cuttings with at least 2-3 internodes are planted in poly-bags in June-July. | | |
| Flowering season:- | All year along | | |
| Harvesting:- | seeds can be collected during October -November. Roots are collected 2-3 yr of Plantation in winters | | |
| Present Status- Endangered | | | |
| Conservation method:- | Invitro micropropagation through embryogenesis and successful regeneration of <i>Plumbago zeylanica</i> in invitro condition. | | |
| Main Uses:- | Antihelminthic | | |
| Part used:- | Root bark | | |
| Dose | Medicinal Dose:- | 1-2 g | |
| | Toxic Dose:- | more than 5g | |
| | Fatal Dose:- | uncertain | |
| Toxicity (if any) toxic constituent - | plumbagin ³⁻⁵ | | |
| Antidote or treatment (if any)- | 1 tablespoon of jaggery dissolved in a cup of water decrease burning sensation caused by chitraka | | |
| Purification (if any) | | | |
| Formulations:- | Formulations | Rogadhikara | Reference |
| | a) Chitrak haritiki | नासारोगाधिकार | भै.र.31-33 |
| | b) Chitrakadi vati | ग्रहणीरोगाधिका | भै.र.26-27 |
| | c) Chitrakadi churna | र ग्रहणीरोगाधिका र | भै.र.26-27 |