

## SPECIFICATIONS

### 22. Kumkumapoovu (Saffron) (*Crocus sativus*)

Sl.no	Parameters	Specification
1	Foreign organic matter	NMT2% styles NMT 10%
2	Ash content	NMT 7.5%
3	Acid insoluble ash	NMT 1%
4	TLC	As per standard
5	Spectroscopy	As per standard

### 67. Rakthachandanam (*Pterocarpus santalinus*)

Sl no	Parameters	Specification
1	Foreign matter	Not more than 2 percent
2	Total Ash	Not more than 2 percent
3	Acid-insoluble ash	Not more than 0.3 percent
4	Alcohol-soluble extractive	Not less than 3 percent
5	Water-soluble extractive	Not less than 1 percent
6	TLC	As per standard

The documents to prove the sources of procurement of Rakthachandanam are to be attached along with E-tender.

### 68. Gulgulu (I) (*Commiphora wightii*)

Sl.No	Parameter	Specification
1	Colour and shape	Brown to pale yellow, Irregular masses gummy to touch
2	Odour	Aromatic +++
3	<b>Identification test</b>	
	Boiled with water	Milky coloured solution +++
	Triturated with water	White emulsion +++
	Solubility in Alcohol	Emulsion partially soluble in Alcohol
	Burning test	It burns
4	Total ash	Not more than 10%
5	Thin layer chromatography	As per API standards

**69. Gulgulu (II) (Commiphora wightii)**

Sl.No	Parameter	Specification
1	Colour and shape	Brown to pale yellow, Irregular masses gummy to touch
2	Odour	Aromatic+
3	<b>Identification test</b>	
	Boiled with water	Milky coloured solution +
	Burning test	It burns
4	Total ash	Not more than 14%
5	Thin layer chromatography	As per API standards

**71. Manikunthirikkam (Oil Banam)**

SI No	Parameter	Standard Value
1	Foreign Matter	Not more than 5 per cent
2	Total Ash	Not more than 10 percent
3	Acid- insoluble Ash	Not more than 8 percent
4	Alcohol-soluble extractive	Not less than 45 percent
5	Water-soluble xtractive Appendix 2.2.7	Not less than 28 percent
6	TLC	As per standard

**75. Kanmadam (Asphaltum)**

Sl.no	Parameters	Specification
	<b>Physico chemical</b>	
1	Description	Black coloured semi solid free flowing with prominent cow's urine smell
2	pH	4-5.5
3	Solubility in water	Partially soluble in water
	<b>Microbiological</b>	
4	Total bacterial plate count	Not more than $10^5$
5	Total Yeast & Mould count	Not more than $10^3$
6	Specific pathogens	Absent

**81. Castor Oil ( Ordinary )**

<b>Sl.no</b>	<b>Parameters</b>	<b>Specification</b>
1.	Description	Pale yellowish or almost colourless, transparent, viscid liquid with characteristic smell. Free from sediments and suspended matter.
2.	Refractive Index	1.470-1.474
3.	Specific Gravity	0.954-0.960
4.	Acid value	Not more than 4
5.	Iodine Value	82-90
6.	Saponification Value	177-187
7.	Holde's Test	Negative

**82. Castor Oil (Pure)**

<b>Sl.no</b>	<b>Parameters</b>	<b>Specification</b>
1.	Description	Pale yellowish or almost colourless, transparent, viscid liquid with characteristic smell. Free from sediments and suspended matter.
2.	Refractive Index	1.470-1.474
3.	Specific Gravity	0.954-0.960
4.	Acid value	Not more than 2
5.	Iodine Value	82-90
6.	Saponification Value	177-187
7.	Holde's Test	Negative