

SPECIFICATIONS

1. GINGELLY OIL

| Sl.No | Parameters | Specification |
|-------|----------------------------|--|
| 1. | Description | A light golden coloured oil with pleasant aroma. Does not solidify when cooled to 0°C. |
| 2. | Refractive Index (at 40°C) | 1.4646-1.4665 |
| 3. | Specific Gravity | 0.915-0.920 |
| 4. | Acid Value | Not more than 6 |
| 5. | Iodine Value | 103-116 |
| 6. | Saponification Value | 188-195 |
| 7. | Fatty Acid Profile | As per Codex Standard |
| 8. | Other Parameters | As per in-house standard |

Copy of manufacturing license should be uploaded along with E Tender.

2. COCONUT OIL

| Sl.no | Parameters | Specification |
|-------|---------------------------------|-------------------------------------|
| 1. | Description | Clear oil with characteristic smell |
| 2. | Refractive Index | 1.448-1.457 |
| 3. | Specific Gravity | 0.915-0.920 |
| 4. | Acid value | Not more than 2 |
| 5. | Iodine Value | 7-10 |
| 6. | Saponification Value | NLT 250 |
| 7. | Holde's Test (Mineral oil test) | Negative |
| 8. | Fatty acid profile | As per standard |

3. COW MILK

| Sl.no. | Parameters | Specification |
|---------------|------------------------------|----------------------|
| 1. | pH | 6.5-7.0 |
| 2. | Fat % (By Gerber method) | 3.2-4.0 |
| 3. | SNF % | 8.3-8.8 |
| 4. | Adulterants & detergents | Absent |
| 5. | Preservatives & neutralisers | Absent |

4. COW GHEE

| Sl.no | Parameters | Specification |
|--------------|----------------------|---|
| 1. | Description | Semisolid with granular texture, light yellow colour with characteristic odour and pleasant taste. Free from animal fats, wax, mineral oil, vegetable oils and vegetable fat. |
| 2. | Moisture | Not more than 0.5% |
| 3. | FFA as oleic acid | Not more than 3 |
| 4. | Refractive Index | 1.450-1.457 |
| 5. | Iodine Value | 22.7-36.2 |
| 6. | Saponification Value | NMT 227 |
| 7. | Baudouin s test | Negative |
| 8. | RM Value | Not less than 24 |
| 9. | Fatty acid profile | As per Standard |

Copy of manufacturing license should be uploaded along with E Tender.

5. JAGGERY POWDER

| Sl.no | Parameters | Specification |
|-------|-------------------------------|---|
| | Physico chemical | |
| 1. | Description | Light brown to dark brown powder with pleasant & characteristic odour. Does not show the presence of insects, vegetable debris or fibres when examined in day light with naked eyes. Free from substances unsafe to health. |
| 2. | Moisture | Not more than 7% |
| 3. | pH | 5-7 |
| 4. | Total Sugar | Not less than 90% |
| 5. | Sucrose | Not less than 70% |
| 6. | Extraneous Matter | Not more than 1% |
| 7. | Total Ash | Not more than 6 % |
| 8. | Acid insoluble ash | Not more than 0.3 % |
| 9. | Sulphur dioxide concentration | Not more than 50ppm |
| | Microbiological | |
| 10. | Total bacterial plate count | Not more than 10^5 |
| 11. | Total Yeast & Mould count | Not more than 10^3 |
| 12. | Specific pathogens | Absent |

6. JAGGERY UNDA

| Sl.no | Parameters | Specification |
|-------|-------------------------|---|
| | Physico chemical | |
| 1. | Description | Light brown to dark brown solid with pleasant & characteristic odour. Does not show the presence of insects, vegetable debris or fibres when examined in day light with naked eyes. |
| 2. | Moisture | Not more than 7% |
| 3. | pH | 5-7 |

| | | |
|-----|-------------------------------|----------------------|
| 4. | Total Sugar | Not less than 90% |
| 5 | Sucrose | Not less than 60% |
| 6. | Extraneous Matter | Not more than 2% |
| 7. | Total Ash | Not more than 6 % |
| 8. | Acid insoluble ash | Not more than 0.5 % |
| 9. | Sulphur dioxide concentration | Not more than 70ppm |
| | Microbiological | |
| 10. | Total bacterial plate count | Not more than 10^5 |
| 11. | Total Yeast & Mould count | Not more than 10^3 |
| 12. | Specific pathogens | Absent |

7. HONEY

| Sl.no | Parameters | Specification |
|-------|-------------------------|--|
| | Physico chemical | |
| 1. | Appearance | Thick, syrupy translucent yellow to yellowish brown fluid. Taste sweet with pleasant odour and flavour. Free from impurities like beeswax, insect fragments, plant debris, mould etc. |
| 2. | Specific Gravity | Not less than 1.350 |
| 3. | Moisture | Not more than 25% |
| 4. | Total Reducing Sugar | Not less than 65% |
| 5. | Sucrose | Not more than 5% |
| 6. | Fructose/Glucose Ratio | Not less than 1 |
| 7. | Fieche's test | Negative |
| 8. | Aniline Chloride test | Negative |

| | | |
|------------------------|-----------------------------|----------------------|
| 9 | Acidity | Not more than 0.2 % |
| 10. | Ash | Not more than 0.5% |
| Microbiological | | |
| 11. | Total bacterial plate count | Not more than 10^5 |
| 12. | Total Yeast & Mould count | Not more than 10^3 |
| 13. | Specific pathogens | Absent |

14. AMUKKURAM II (*Withania somnifera*)

| Sl.no | Parameters | Specification |
|-------|-------------------------|---|
| 1. | Foreign matter | NMT 2% |
| 2. | Macroscopy | Root pieces up to 5 cm in length, 1 cm or less in diameter, solid , brittle and white from inside, unbranched, outer surface buff to grey-yellow with longitudinal wrinkles, fracture, short and uneven, odour, characteristic, taste, bitter and acrid |
| 3. | Microscopy | Compact parenchymatous cells, phloem consists of sieve tubes, companion cells, phloem parenchyma, a few xylem parenchyma |
| 4. | Total ash | NMT 7% |
| 5. | Water Soluble extract | NLT 22% |
| 6. | Alcohol soluble extract | NLT 12% |

*NMT – Not more than

**NLT- Not less than

16. 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.

17. 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 | Identification test | |
| | 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 |