

THE AYURVEDIC PHARMACOPOEIA OF INDIA

**PART - II (FORMULATIONS)
VOLUME - II**

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Appendix-6



सत्यमेव जयते

**GOVERNMENT OF INDIA
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APPENDIX-6

AYURVEDIC DEFINITIONS AND METHODS

6.1. - Kalpanā Paribhāṣā:

| | | |
|----|------------------|------------------------------------|
| 1 | Kalka | Caraka saṁhitā Sūtra sthāna, 4/7 |
| 2. | Kvātha / Kaṣāya | Śārṅgadhara saṁhitā - II - 9/3 |
| 3. | Cūrṇa | Śārṅgadhara saṁhitā - II - 6/1 |
| 4. | Puṭapāka Svarasa | Śārṅgadhara saṁhitā - II - 1/21-23 |
| 5. | Svarasa | Śārṅgadhara saṁhitā - II - 1/2 |
| 6. | Hima Kaṣāya | Śārṅgadhara saṁhitā - II - 4/1 |

6.1.1. - **Kalka:** *Kalka* is the fine paste of macerated fresh plant material.

(*Paribhāṣā Prabandha*)

6.1.2. - **Kvātha / Kaṣāya:** *Kvātha* or *Kaṣāya* is the filtered liquid obtained by boiling coarse powder of drug(s) in proportion of 4, 8 or 16 [*Mṛdu Dravya* - 4, *Madhyama Dravya* - 8 and *Kaṭhina Dravya* - 16 respectively] times of water and reduced to one-fourth.

(*Śārṅgadhara saṁhitā* - II - 9/3)

6.1.3. - **Cūrṇa:** The fine sieved powder of well dried drug(s) is called *Cūrṇa*.

(*Śārṅgadhara saṁhitā* - II - 6/1)

6.1.4. - **Puṭapāka Svarasa:** It is a kind of procedure, where juice of fresh green herb will be obtained by the process of *Puṭapāka*. Bundle the *Kalka* of green plant material in leaves of *Kāśmarī*, *Vaṭa*, *Jambu* etc., and cover with clay in layers of about 2 cm thickness. Dry and place amidst fire till becomes reddish. Open the bundle and strain the juice from *Kalka* through a *muslin cloth*.

(*Śārṅgadhara saṁhitā* - II - 1/21-23)

6.1.5. - **Svarasa:** The liquid part of fresh macerated plant material obtained by pressing through a fresh, *muslin cloth* is called as *Svarasa*.

(*Śārṅgadhara saṁhitā* - II - 1/2)

6.1.6. - **Hima Kaṣāya:** *Hima Kaṣāya* is the extractive obtained by straining of 48 g [1 part] of powdered drug(s) soaked in 288 ml [6 parts] of water overnight.

(*Śārṅgadhara saṁhitā* - II - 4/1)

6.2. □ Sāmānya paribhāsa:

| | | |
|----|-----------|-----------------------------|
| 1 | Kajjalī | Rasatarāṅgiṇī - 2/27 |
| 2. | Kāñjika | Paribhāṣā prabandha |
| 3. | Kṣāra | |
| 4. | Cūrṇodaka | Rasatarāṅgiṇī □ 11 |
| 5. | Prakṣepa | |
| 6. | Bhāvanā | Rasatarāṅgiṇī - 2/49 |
| 7. | Śodhana | |
| 8. | Mūrcchana | Bhaiṣajya ratnāvalī - Jvara |

6.2.1. - Kajjalī: *Kajjalī* is the fine black colored powder obtained by triturating *Gandhaka* [Sulphur] and *Pārada* [Mercury] without adding any liquid.

[*Rasa tarāṅgiṇī* - 2/27]

6.2.2. - Kāñjika: Sour liquid prepared with of rice grain etc. is called as *Kāñjika*. Take *ṣaṣṭika śālī* in an earthen vessel, add five parts of water and boil. Shift the preparation into another earthen vessel add three parts of water and seal the mouth of the vessel tightly. Place the vessel aside for two to three weeks of period at regulated temperature during which the liquid becomes sour.

[*Paribhāṣā prabandha*]

6.2.3. - Kṣāra: *Kṣāra* is alkaline substance obtained from the ashes of different drugs. Cut the drug in to small pieces, dry and place in an earthen pot, burn to ashes. Allow the ash to cool down to room temperature, add 6 parts of water and mix well. Allow to settle down and decant the supernatant layers through a piece of clean cloth. Repeat the process of staining two or three times till a clear liquid is obtained. Heat the liquid over a moderate fire till the water evaporates completely, leaving a solid salty white substance at the bottom, which is known as *Kṣāra*.

6.2.4. - Cūrṇodaka:

| | | |
|-----|---------------------|--------|
| i] | Cūrṇa [Lime powder] | 250 mg |
| ii] | Water | 60 ml |

Take 250 mg of lime powder in a stainless steel vessel, add 60 ml of water and keep aside for 9 h. Decant the supernatant layers through a filter paper. The filtrate is known as *Cūrṇodaka*.

[*Rasatarāṅgiṇī* - 11]

6.2.5. - Prakṣepa: Fine powder form of the drug(s), which is added to a *kalpa* such as *Leha*, *Āsava* *Āriṣṭa* etc. before administration is known as *Prakṣepa*.

6.2.6. - Bhāvanā: *Bhāvanā* is the process by which powders of drugs are levigated to a soft mass with specified liquids and allowed to dry.

[*Rasatarāṅgiṇī* - 2/49]

6.2.7. - Śodhana: *Śodhana* is the process which removes the impurities to some extent and helps in increasing the therapeutic values of the drugs.

| | | |
|-----|-------------------------|---|
| 1. | Godantī śodhana | Rasatarāṅgiṇī - 11/239 |
| 2. | Gairika śodhana | Rasa ratna samuccaya - 3/49 Āyurveda prakāśa - 2/272 |
| 3. | Gandhaka śodhana | Rasāmṛtam - 2/3 |
| 4. | Guggulu śodhana | |
| 5. | Ṭaṅkaṇa śodhana | Āyurveda prakāśa -2/ 244 |
| 6. | Tuttha śodhana | Rasāmṛtam 3/74 |
| 7. | Bhallātaka śodhana | Rasāmṛtam Pariśiṣṭa |
| 8. | Manahśilā śodhana | Rasa ratna samuccaya - 3/93 |
| 9. | Vatsanābha śodhana | Rasāmṛtam Pariśiṣṭa |
| 10. | Śilājatu śodhana | Rasatarāṅgiṇī - 22/69-78 |
| 11. | Haratāla śodhana | Rasa ratna samuccaya - 3/93 |
| 12. | Hingu śodhana | Rasāmṛtam |
| 13. | Vijayā śodhana | Rasāmṛtam Pariśiṣṭa 8/147 |
| 14. | Kāśīśa śodhana | Rasāmṛtam Adhyaya 3/158 |
| 15. | Pārada sāmānya śodhana | Rasatarāṅgiṇī - 5/27-30 |
| 16. | Aṣṭa saṅskāra of Pārada | |

6.2.7.1. - Godantī Śodhana:

| | | |
|-----|--------------------|----------|
| i] | Godantī | 1 Part |
| ii] | Nimbu Svarasa | Fr. Q.S. |
| | | or |
| | Droṇapuspī Svarasa | Pl. Q.S. |

Bundle small pieces of *Godantī* in a cloth, suspend in *Nimbu* or *Droṇapuspī svarasa* in a *Dolā yantra*, and boil for 3 h.

[*Rasatarāṅgiṇī* - 11/239]

6.2.7.2. - Gairika Śodhana:

| | | |
|-----|----------|--------|
| i] | Gairika | 1 Part |
| ii] | Godugdha | Q.S. |

Fine powder of *Gairika* is to be levigated with Cow's milk.

[*Rasaratna samuccaya* - 3/49]

or

| | | |
|-----|---------|--------|
| i] | Gairika | 1 Part |
| ii] | Goghṛta | Q.S. |

Fry the fine powder of *Gairika* in little amount of *Ghṛta*.

[*Āyurveda prakāśa* - 2/272]

6.2.7.3. - Gandhaka Śodhana:

| | | |
|-----|--------------------|----------|
| i] | Gandhaka | 1 Part |
| ii] | Godugdha | Q.S. |
| | or | |
| | Bhṛṅgarāja svarasa | Pl. Q.S. |

Melt small pieces of *Gandhaka* in an iron pan smeared with *Ghṛta* and pour in to a pot containing *Godugdha* or *Bhṛṅgarāja svarasa*. Collect after cooling. Repeat the process for seven times. At the end of the seventh process, wash and dry the material.

[*Rasāmṛtam* - 2/3]

6.2.7.4. - Guggulu Śodhana:

Remove manually the big pieces of sandstone, glass, wood etc. if any from the *Guggulu*. Cut *Guggulu* into small pieces, bundle in a cloth and immerse in *Dolā yantra* containing any one of the following liquids.

Gomūtra
Godugdha
Triphalā kaṣāya
Vāsā kaṣāya / *svarasa* or
Nirguṇḍi svarasa with Haridrā cūrṇa

Boil till the whole amount of *Guggulu* passes into the liquid through the cloth. Discard the residue present in the bundle if any.

Filter the liquid through *muslin cloth* and heat the mixture till a semi solid mass is obtained.

Dry in sun and store until further use.

6.2.7.5. - **Ṭaṅkaṇa Śodhana:** Take small pieces of *Ṭaṅkaṇa* in an iron pan, fry till complete dehydration.

[*Āyurveda prakāśa* - 2/244]

6.2.7.6. - **Tuttha Śodhana:**

| | | | |
|------|---------------------|---------|--------|
| i] | Tuttha | | 1 Part |
| ii] | Raktacandana kvātha | Ht. Wd. | Q.S. |
| iii] | Mañjiṣṭhā kvātha | Rt. | Q.S. |
| iv] | Triphalā kvathā | P. | Q.S. |

Prepare fine powder of *Tuttha* and levigate with the individual liquid medias number (ii) to (iv) mentioned above seven times each.

[*Rasāmṛtam* - 3/74]

6.2.7.7. - **Bhallātaka Śodhana:**

| | | | |
|------|--------------|-----|--------|
| i] | Bhallātaka | Fr. | 1 Part |
| ii] | Gomūtra | | Q.S. |
| iii] | Godugdha | | Q.S. |
| iv] | Iṣṭika cūrṇa | | Q.S. |
| v] | Water | | Q.S. |

Method of Preparation:-Take *Bhallātaka*, remove the attached thalamus and soak in *Gomūtra* for 7 days. Replace *Gomūtra* every 24 h with fresh *Gomūtra*. After 7 days, rinse the *Bhallātaka* twice with water, to wash off the *Gomūtra*. Soak *Bhallātaka* in *Godugdha* for 7 days, replacing *Godugdha* every 24 h with fresh *Godugdha*. After 7 days, rinse the *Bhallātaka* 2 or 3 times with water to wash off the *Godugdha*. Put the *Bhallātaka* in a thick jute bag containing coarse brick powder and rub carefully, with a view to reduce the oil content in *Bhallātaka*. Wash the processed seed with water and dry.

[*Rasāmṛtam- Pariśiṣṭa*]

6.2.7.8. - **Manahśilā Śodhana:**

| | | | |
|-----|-----------------------------|-----|--------|
| i] | Manahśilā | | 1 Part |
| ii] | Agastya patra svarasa | Lf. | Q.S. |
| | Or | | |
| | Śṛṅgavera [Ārdraka] svarasa | Rz. | Q.S. |

Prepare fine powder of *Manahśilā* and levigate with any one of the above specified liquid media for seven times.

[*Rasa ratna samuccaya* - 3/93]

6.2.7.9. - **Vatsanābha Śodhana:**

| | | | |
|-----|-------------------|--------|--------|
| i] | Viṣa [Vatsanābha] | Rt.Tr. | 1 Part |
| ii] | Gomūtra | | Q.S. |

Take small pieces of *Vatsanābha*, bundle in clean muslin cloth, and soak in *Gomūtra* for three days, replacing the later every day. Wash and dry to obtain *Śodhita Vatsanābha*.

6.2.7.10. - Śilājatu Śodhana:

| | | | |
|------|-----------------|----|---------|
| i] | Śilājatu | | 2 Parts |
| ii] | Hot water | | 4 Parts |
| iii] | Triphalā Kvātha | P. | 1 Part |

Take powder of *Śilājatu*, add specified amounts of hot water and *Triphalā Kvātha* so as to disengage the soluble matter. Allow to settle down and decant the supernatant layers.

Repeat the process till a clear liquid is obtained.

Concentrate the decanted material to thick paste over moderate heat.

Dry in sun rays and preserve for further purpose.

[*Rasatarāṅgiṇī* - 22/69-78]

6.2.7.11. - Haritāla Śodhana:

| | | | |
|-----|-----------------|-----|--------|
| i] | Haritāla | | 1 Part |
| ii] | Kūṣmāṇḍa Toya | Fr. | Q.S. |
| | or | | |
| | Tila Kṣāra Jala | Pl. | Q.S. |
| | or | | |
| | Cūrṇodaka | | Q.S. |

Take small pieces of *Haratāla*, bundle in clean muslin cloth, suspend in a *Dolā yantra* containing any one of the above liquid media. Boil for three hours, dry in sun rays and preserve for further purpose.

[*Rasa ratna samuccaya* - 3/70]

6.2.7.12. - Hingu Śodhana:

| | | | |
|-----|-----------------|------|--------|
| i] | Rāmaṭha [Hingu] | Exd. | 1 Part |
| ii] | Ājya [Ghrta] | | Q.S. |

Prepare fine powder of *Hingu* and fry it in sufficient amounts of *Ghrta*, till it becomes crisp.

[*Rasatarāṅgiṇī*, 24/578]

6.2.7.13. - Vijayā Śodhana:

| | | | |
|-----|--------|--|---------------------|
| i] | Vijayā | | 1 Part |
| ii] | Jala | | Q.S. for prakṣālana |

Put Vijayā in a muslin bag and wash in water till free from turbidity and dry.

[*Rasamtra, Parisista 8/147*]

6.2.7.14. - Kāśīśa Śodhana:

| | | |
|-----|--------------------------|------------------|
| i] | Kāśīśa | 1 Part |
| ii] | Bhṛṅga nīra (bhṛṅgarāja) | Q.S. for bhāvanā |

Bhāvanā is given with *Bhṛṅgarāja rasa*, 3 times.

[*Rasāmṛta, Adhyāya 3/158*]

6.2.7.15. - Pārada Sāmānya Śodhana:

| | | |
|------|------------------------------|---------|
| i] | Pārada [Mercury] | 2 Parts |
| ii] | Sudhāraja [Lime powder] | 2 Parts |
| iii] | Rasona [Laśuna] | 2 Parts |
| iv] | Saindhava lavaṇa [Rock Salt] | 1 Part |

Take equal parts of *Pārada* and *Sudhāraja*, triturate for three days, and filter carefully through a clean cloth.

Add dehusked *Rasona* and *Saindhava lavaṇa* to the *Pārada*, triturate till the paste of *Rasona* becomes black.

Wash with warm water and separate the *Pārada* with caution.

[*Rasatarāṅgiṇī - 5/ 27-30*]

6.2.7.16. - Aṣṭasaṃskāra of Pārada

Aṣṭasaṃskāra of *Pārada* have been prescribed in Ayurvedic classics for purification and to increase the therapeutic activities.

The *Aṣṭasaṃskāra* are:

- i] Svedana
- ii] Mardana
- iii] Mūrcchana
- iv] Utthāpana
- v] Pātana [Ūrdhva, Adhaḥ and Tiryak]
- vi] Rodhana / Bodhana
- vii] Niyāmana
- viii] Dīpana / Sandīpana

6.2.7.16.a. - Svedana:

[*Rasahrdayatantra - 2/3*]

| | | |
|----|------------------|--------|
| i] | Pārada [Mercury] | 1 Part |
|----|------------------|--------|

| | | | |
|-------|-------------------------|---------|-------------------------|
| ii] | Āsurī [Rājikā] | Sd. | 1/16 th Part |
| iii] | Paṭu [Saindhava lavaṇa] | | 1/16 th Part |
| iv] | Śuṅṭhī | Rz. | 1/16 th Part |
| v] | Marica | Fr. | 1/16 th Part |
| vi] | Pippalī | Fr. | 1/16 th Part |
| vii] | Citraka | Rt. | 1/16 th Part |
| viii] | Ādraka | Rz. | 1/16 th Part |
| ix] | Mūlaka | Rt. Tr. | 1/16 th Part |
| x] | Kāñjika | | Q.S. |

Method:

Take the ingredients numbered [ii] to [ix] in to wet grinder and grind with sufficient quantity of water to prepare *kalka* (homogeneous blend). Take leaf of *Bhūrja* [*Betula utilis*] or *Kadañī* [*Musa paradisiaca*], place it over four folded cloth, smear with the prepared *Kalka*, and gently place *Pārada* over it. Place the remaining part of *kalka* if any, over the *Pārada*. Suspend the *poṭṭaḷī* in a *Dolā yantra* containing *Kāñjika*. Boil for three days. Remove *Pārada* and *kalka*, wash carefully with warm water and collect *Pārada*.

6.2.7.16.b. - Mardana:

[*Rasahrdayatantra* - 2/4]

| | | | |
|-------|---------------------------|--|-------------------------|
| i] | Pārada [Mercury] | | 1 Part |
| ii] | Guḍa | | 1/16 th Part |
| iii] | Dagdhorna | | 1/16 th Part |
| iv] | Lavaṇa [Saindhava lavaṇa] | | 1/16 th Part |
| v] | Mandira dhūma | | 1/16 th Part |
| vi] | Iṣṭika cūrṇa | | 1/16 th Part |
| vii] | Āsurī [Rājikā] | | 1/16 th Part |
| viii] | Kāñjika | | Q.S. |

Method:

Take the ingredients numbered [i] to [vii] in to *Khalvayantra*, add with required amounts of *Kāñjika* and levigate for three days. Remove *Pārada* and *Kalka*, wash carefully with warm water and collect *Pārada*.

6.2.7.16.c. - Mūrcchana:

[Rasahrdayatantra - 2/6]

| | | | |
|------|--------------------|-----|-------------------------|
| i] | Pārada [Mercury] | | 1 Part |
| ii] | Gṛhakanyā [Kumārī] | Lf. | 1/16 th Part |
| iii] | Harītakī | P. | 1/16 th Part |
| iv] | Bibhītaka | P. | 1/16 th Part |
| v] | Āmalakī | P. | 1/16 th Part |
| vi] | Citraka | Rt. | 1/16 th Part |

Method:

Take the ingredients numbered [iii] to [vi], dry, powder and pass through sieve number 85. Add ingredient number [ii] and grind with sufficient quantity of water to prepare *Kalka*. Add *Pārada* to the *Kalka* and triturate for three days.

6.2.7.16.d. - Ūtthāpana:

[Rasahrdayatantra - 2/7]

| | | |
|-----|------------------|--------|
| i] | Pārada [Mercury] | 1 Part |
| ii] | Kāñjika | Q.S. |

Method:

Collect the *Pārada* at the end of *Mūrcchana* process and subject it to *Ūtthāpana*, and wash with *Kāñjika* and collect the *Pārada* carefully.

6.2.7.16.e. - Pātana:

The process of *Pātana* is again of three types, viz. *Ūrdhwapātana*, *Adhaḥpātana* and *Tiryakpātana*.

Ūrdhwapātana:

[Āyurveda prakāśa - 1/68-71]

| | | |
|------|----------------------|---------|
| i] | Pārada [Mercury] | 3 Parts |
| ii] | Ravi [Tāmra] | 1 Part |
| iii] | Jambīra [Nimbu] rasa | Q.S. |

Method:

Take *Pārada* and *Tāmra* in the specified ratio and levigate with *Jambīra svarasa* to prepare thick paste. Apply the paste over the lower pot of *Ḍamarū yantra* and apply heat for 12 h. Collect the *Pārada* settled at the upper pot gently.

Adhaḥpātana:[*Āyurveda prakāśa* - 1/75-77]

| | | | |
|-------|------------------|---------|-------------------------|
| i] | Pārada [Mercury] | | 1 Part |
| ii] | Harītakī | P. | 1/16 th Part |
| iii] | Bibhītaka | P. | 1/16 th Part |
| iv] | Āmalakī | P. | 1/16 th Part |
| v] | Śigru | St. Bk. | 1/16 th Part |
| vi] | Citraka | Rt. | 1/16 th Part |
| vii] | Saindhava lavaṇa | | 1/16 th Part |
| viii] | Āsurī [Rājikā] | Sd. | 1/16 th Part |
| ix] | Nimbu rasa | | Q.S. |

Method: Take the ingredients numbered [ii] to [vi], dry, powder and pass through sieve number 85. Add the powders to *Pārada* and levigate by adding ingredients numbered [vii] to [ix] to prepare fine paste. Apply the paste in the *Adhaḥpātana yantra*, subject to heat and collect *Pārada*.

Tiryakpātana:[*Āyurveda prakāśa* - 1/79-81]

| | | |
|------|----------------------|---------|
| i] | Pārada [Mercury] | 3 Parts |
| ii] | Ravi [Tamra] | 1 Part |
| iii] | Jambīra [Nimbu] rasa | Q.S. |

Method: Take *Pārada* obtained at the end of *Adhaḥpātana* process, add with *Tāmra* and levigate with *Jambīra svarasa* to prepare thick paste. Apply the paste in the *Tiryakpātana yantra*, subject to heat and collect *Pārada*.

6.2.7.16.f. - Rodhana / Bodhana:[*Rasendracūḍāmaṇi* - 4/88]

| | | |
|-----|-----------------------|---------|
| I] | Pārada [Mercury] | 3 Parts |
| ii] | Saindhava lavaṇa jala | Q.S. |

Method: Place the *Pārada* in a pot containing *Saindhava lavaṇa jala* and seal the mouth of the pot tightly. Place the pot undisturbed for three days. Decant the water on the fourth day to collect the *Pārada*.

6.2.7.14.g. - Niyāmana:[*Rasaḥṛdayatantra* - 2/10]

| | | | |
|------|----------------------|-----|-------------------------|
| i] | Pārada [Mercury] | | 1 Part |
| ii] | Phaṇi [Nāgavallī] | Lf. | 1/16 th Part |
| iii] | Laśuna | Bl. | 1/16 th Part |
| iv] | Ambujā | | 1/16 th Part |
| v] | Karkoṭi | | 1/16 th Part |
| vi] | Mārkava [Bhṛṅgarāja] | Pl. | 1/16 th Part |
| vii] | Ciñcikā [Ciñcā] | Lf. | 1/16 th Part |

Method: Prepare *Kalka* of the ingredients numbered [ii] to [vii], add with *Pārada* and prepare a *poṭṭaḷī*. Suspend the *poṭṭaḷī* in a *Dolā yantra* containing *Kāñjika* and boil. Remove *Pārada* and *Kalka*, wash carefully with warm water and collect *Pārada*.

6.2.7.16. h. - Dīpana / Sandīpana:[*Rasahrdayatantra* - 2/11]

| | | | |
|-------|---------------------------|-----|-------------------------|
| i] | Pārada [Mercury] | | 1 Part |
| ii] | Bhū [Sphaṭikā] | | 1/16 th Part |
| iii] | Khaga [Kāśīśa] | | 1/16 th Part |
| iv] | Ṭaṅkaṇa | | 1/16 th Part |
| v] | Marica | Fr. | 1/16 th Part |
| vi] | Lavaṇa [Saindhava lavaṇa] | | 1/16 th Part |
| vii] | Āsurī [Rājikā] | Sd. | 1/16 th Part |
| viii] | Śigru | | 1/16 th Part |
| ix] | Kāñjika | | Q.S. |

Method: Prepare *Kalka* of the ingredients numbered [ii] to [viii], add with *Pārada* and prepare a *poṭṭaḷī*. Suspend the *poṭṭaḷī* in a *Dolā yantra* containing *Kāñjika* and boil for three days. Remove *Pārada* and *kalka*, wash carefully with warm water and collect *Pārada*.

6.2.8. - Mūrchanā: *Mūrcchana* is the process which removes *Āma doṣa* of *Taila / Ghṛta* and provides good color and fragrance. *Mūrcchana* process is to be followed before any *Sneha* preparation.

[*Bhaiṣajya ratnāvalī*]**Mūrcchana**

| | |
|------------------------|-----------------------------|
| Eraṇḍa taila Mūrcchana | Bhaiṣajya ratnāvalī - Jvara |
| Ghṛta Mūrcchana | Bhaiṣajya ratnāvalī - Jvara |
| Taila Mūrcchana | Bhaiṣajya ratnāvalī - Jvara |

6.2.8.1. - Mūrcchana of Eraṇḍa Taila (Bhaiṣajya ratnāvalī, Jvarādhikāra.)**Ingredients:**

| | | | | |
|----|----------------|-------------------------------|-----|------|
| 1. | Mañjiṣṭhā API | <i>Rubia cordifolia</i> | P. | 12 g |
| 2. | Mustā API | <i>Cyperus rotundus</i> | Rz. | 12 g |
| 3. | Dhānyaka API | <i>Coriandrum sativum</i> | Sd. | 12 g |
| 4. | Āmalakī API | <i>Emblica officinalis</i> | P. | 12 g |
| 5. | Harītakī API | <i>Terminalia chebula</i> | P. | 12 g |
| 6. | Bibhītaka API | <i>Terminalia belerica</i> | P. | 12 g |
| 7. | Agnimantha API | <i>Clerodendron phlomidis</i> | Rt. | 12 g |

| | | | | |
|-----|-------------------|-------------------------------|----------|---------|
| | | (Official substitute) | | |
| 8. | Hrīverā API | <i>Coleus vettiveroides</i> | Rt. | 12 g |
| 9. | Kharjūra API | <i>Phoenix sylvestris</i> | Fr. | 12 g |
| 10. | Vaṭa API | <i>Ficus religiosa</i> | Lf. Bud. | 12 g |
| 11. | Haridrā API | <i>Curcuma longa</i> | Rz. | 12 g |
| 12. | Dāruharidrā API | <i>Berberis aristata</i> | St. | 12 g. |
| 13. | Nalikā (Tvak API) | <i>Cinnamomum tamala</i> | St. Bk. | 12 g. |
| 14. | Śuṅṭhī API | <i>Zingiber officinale</i> | | 12 g. |
| 15. | Ketakī API | <i>Pandanus odoratissimus</i> | Rt. | 12 g. |
| 16. | Dadhi API | Curd | | 1.536 l |
| 17. | Kāñjika API | | | 1.536 l |
| 18. | Eraṇḍa taila API | <i>Ricinus communis</i> | Oil | 768 ml |

Method of preparation: Take the ingredients (*Kalka dravyas*) numbered 1 to 15 in the composition, dry, powder and pass through sieve number 85. Transfer the powdered ingredients to wet grinder, grind with sufficient quantity of water to prepare *Kalka* (homogeneous blend). Take *Eraṇḍa taila* in a stainless steel vessel and heat it mildly. Add increments of *Kalka*. Add *Dadhi* and *Kāñjika* in the specified ratio and stir thoroughly. Continue heating till the mixture becomes moisture free. Filter while hot through a *muslin cloth* and allow to cool.

6.2.8.2. - Mūrccana of Ghṛta

(*Bhaisajya ratnāvalī, Jvarādhikāra.*)

Ingredients:

| | | | | |
|----|----------------------|------------------------------|-----|---------|
| 1. | Harītakī API | <i>Terminalia chebula</i> | P. | 48 g |
| 2. | Dhātrī (Āmalakī API) | <i>Emblīca officinalis</i> | P. | 48 g |
| 3. | Bibhītaka API | <i>Terminalia belerica</i> | P. | 48 g |
| 4. | Mustā API | <i>Cyperus rotundus</i> | Rz. | 48 g |
| 5. | Haridrā API | <i>Curcuma longa</i> | Rz. | 48 g |
| 6. | Mātuluṅga API | <i>Citrus medica</i> | Ft. | 48 g |
| 7. | Ghṛta API | Clarified butter of cow milk | | 768 g |
| 8. | Jala API | Water | | 3.072 l |

Method of Preparation:

Take all ingredients of pharmacopoeial quality

Wash, clean, dry the ingredients numbered 1 to 5 of the formulation composition powder separately and pass through sieve number 85 (*Kalka dravyas*).

Wash, clean the *Mātuluṅga* and separate the juicy flesh from its rind. Grind and filter through *muslin cloth* to obtain *Svarasa*.

Transfer the *Kalka dravyas* to the wet grinder and grind with sufficient quantity of water to prepare homogeneous blend.

Take *Ghṛta* in a stainless steel vessel and heat mildly.

Add increments of *Kalka*. Stir thoroughly while adding *Svarasa* and water.

Heat for 3 h with constant stirring maintaining the temperature between 50° and 90° during the first hour of heating. Stop heating and allow to stand overnight.

Start the heating next day and observe the boiling mixture for subsidence of froth (*phena śānti*) and constantly check the *Kalka* for formation of *varti* (*madhyama pāka lakṣaṇa*).

Expose the *varti* to flame and confirm the absence of crackling sound indicating absence of moisture. Stop heating when the *Kalka* forms a *varti* and the froth subsides. Filter while hot (about 80°) through a *muslin cloth* and allow to cool.

Pack it in tightly closed glass containers to protect from light and moisture.

Standards:

Description: A yellow-coloured, soft, low melting medicated fat, unctuous to touch with odour of haridra and haldi like taste.

Physico-chemical parameters:

| | | |
|---------------------------------|---------------------|----------------|
| <i>Refractive index at 40°:</i> | 1.439, | Appendix 3.1 |
| <i>Weight per ml at 40°:</i> | 0.967, | Appendix 3.2 |
| <i>Saponification value:</i> | 229, | Appendix 3.10 |
| <i>Iodine value:</i> | 100, | Appendix 3.11 |
| <i>Acid value:</i> | Not more than 0.33, | Appendix 3.12 |
| <i>Peroxide value:</i> | Not more than 1.35, | Appendix 3.13 |
| <i>Congearing point:</i> | 28° to 18°, | Appendix 3.4.2 |

Other requirements:

| | | |
|--------------------------|---------|---------------|
| <i>Mineral oil:</i> | Absent, | Appendix 3.15 |
| <i>Microbial Limits:</i> | | Appendix 2.4 |
| <i>Aflotoxins:</i> | | Appendix 2.7 |

Storage: Pack it in tightly closed containers to protect from light and moisture.

6.2.8.3. - Mūrcchana of Taila (Bhaiṣajya ratnāvālī, Jvarādhikāra.)

Ingredients:

| | | | | |
|----|------------------------|-------------------------------|---------|------|
| 1. | Mañjiṣṭhā API | <i>Rubia cordifolia</i> | Rt. | 96 g |
| 2. | Harītakī API | <i>Terminalia chebula</i> | P. | 24 g |
| 3. | Bibhītaka API | <i>Terminalia belerica</i> | P. | 24 g |
| 4. | Āmalakī API | <i>Emblīca officinalis</i> | P. | 24 g |
| 5. | Hrīverā API | <i>Coleus vettiveroides</i> | Rt. | 24 g |
| 6. | Haridrā API | <i>Curcuma longa</i> | Rz. | 24 g |
| 7. | Jaladhara (Mustā API) | <i>Cyperus rotundus</i> | Rz. | 24 g |
| 8. | Lodhra API | <i>Symplocos racemosa</i> | St. Bk. | 24 g |
| 9. | Sūcīpuṣpa (Ketakī API) | <i>Pandanus odoratissimus</i> | Rt. | 24 g |

| | | | | |
|-----|---------------------------|--------------------------|---------|---------|
| 10. | Vaṭāṅkura (Nyagrodha API) | <i>Ficus bengalensis</i> | Lt. Bd. | 24 g |
| 11. | Nalikā (Tvak API) | <i>Cinnamomum tamala</i> | St. Bk. | 24 g |
| 12. | Taila (Tila API) | <i>Sesamum indicum</i> | Oil | 1.536 l |
| 13. | Jala API | Water | | 6.144 l |

Method of preparation: Take the ingredients (*Kalka dravyas*) numbered 1 to 11 in the composition, dry, powder and pass through sieve number 85. Transfer the powdered ingredients to wet grinder and grind with sufficient quantity of water to prepare *Kalka* (homogeneous blend). Take *Tila Taila* in a stainless steel vessel and heat it mildly. Add increments of *Kalka*. Stir thoroughly while adding water in the ratio of 1:4. Start heating and constantly check the *Kalka* for formation of *varti* (*madhyama pāka lakṣaṇa*) and observe the boiling mixture for appearance of froth. Stop heating when the *Kalka* forms a *varti* and the froth emerges. Filter while hot through a *muslin cloth* and allow to cool.

6.3. - Yantra Paribhāṣā:

| | | |
|----|----------------------|------------------------------------|
| 1 | Khalva yantra | <i>Rasatarāṅgiṇī</i> - 4/53 |
| 2. | Tiryak pātana yantra | <i>Āyurveda prakāśa</i> - 1/79 |
| 3. | Ḍamaru yantra | <i>Rasatarāṅgiṇī</i> - 4/41 |
| 4. | Dolā yantra | <i>Rasaratna samuccaya</i> - 9/3-4 |

6.3.1. - Khalva yantra: *Khalva yantra* is an instrument made up of good quality of stone in different sizes and shapes, useful for trituration and levigation processes. It resembles with mortar and pestle.

[*Rasatarāṅgiṇī* - 4/53]

6.3.2. - Tiryak pātana yantra: *Tiryak pātana yantra* is an instrument prepared for distillation of *Pārada* with the delivery tank weld approximately at an angle of 45°.

[*Āyurveda prakāśa* - 1/79]

6.3.3. - Ḍamarū yantra: *Ḍamarū yantra* is a contravenes of shape resembling *Ḍamarū* for sublimation prepared by sealing two pots with their mouths one telescoping the other sealing joint securely.

[*Rasatarāṅgiṇī* - 4/41]

6.3.4. - Dolā Yantra: *Dolā yantra* consists of a pot half filled with specified liquid with a horizontal rod placed on the rim from which the bundle of material to be treated will be immersed and heated.

[*Rasaratna samuccaya* - 9/3-4]