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# Preparation of *Gandhakadya Malahara* as per Classical Text

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# **ABSTRACT**

Rasa Shastra and Bhaishjya Kalpana is a pharmaceutical field of Ayurveda which is concerned with preparation of herbal and herbomineral formulations. There are many pharmaceutical preparations mentioned in Rasa Shastra and Bhaishjya Kalpana classics. Malahar kalpana is one of them which may contain siktha taila, siktha, sarjarasa or ghritta as base material. It was lately introduced by Acharya Yogratnakar in Ayurveda pharmaceutics. It is widely used ointment preparation with many advantages. Gandhakadya Malahar is mentioned in 8<sup>th</sup> Taranga of Rasa Tarangini by Acharya Sadanand Sharma. It is a herbomineral formulation which comprises of siktha taila, shudha gandhaka, girisindur, shudha tankan and karpura. It is intended to be used externally for dermatological problems especially for pama according to Rasa Tarangini.

Key Words Malahar, Gandhaka, Siktha Taila, Tankan, Karpura

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# INTRODUCTION

Malahar kalpana comes under bahya kalpana i.e. pharmaceutical preparation for external application. The term 'malahar' has originated from the root word 'malham' or 'marham' taken from Unani system of medication. This is similar to ointments in modern pharmaceutics which include herbal and mineral contents according to usage. It is very useful preparation for many skin disorders.

For the preparation of *malahar kalpana* base material is required for which *siktha taila* is commonly used. *Malhar kalpana* should be soft, smooth, should not produce sensitization and irritation to the skin. *Gandhakadya malahar* is one of the *malahar* mentioned in *Rasa Tarangini*, *gandhakvigyaniya tarang*. Daily application of *gandhakadya malahar* cures very deep seated *pama roga* (scabies). Properties of *Gandhakadya malhar* are mentioned in table 1.

Table 1 Properties of Gandhakadya Malahar

Sr.no	Drug	English Name	Rasa	Guna	Virya	Dosha Karma	Therapeutic use
1	Siktha <sup>6</sup>	Bee wax	=	Mridu	-	Vatahara	Vranaropana
				Snigdha			Bhagnasandhanakar
2	Tila Taila <sup>7</sup>	Sesame oil	Madhura	Guru	Ushna	Vatakaphahar	Vrananashak



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			Kashaya	Snigdha			Twachaya
2	Shudha	Sulphur	Katu	Sara	Ushna	Pitta vardhaka	Kushtha
	Gandhaka <sup>8</sup>		Tikta			Kapha-vatahar	Twakdosha
			Kashaya				Krimighana
3	Giri	Red oxide of	Katu	Ushna	Ushna	Tridosha	Vranashodhana
	${f sindur}^{9,10}$	mercury	Tikta			shamaka	Kushtha
							Bhagnasandhankar
							Vranaropana
4	Shudha	Borax	Kshariya	Ruksha	Ushna	Kapha	Vishadoshahar
	Tankan <sup>11</sup>			Tikshna		nissaraka	Varnya
				Guru		Vatahara	Vrananashan
5	Karpoora <sup>12</sup>	Camphor	Tikta	Laghu	Sheeta	Tridoshahar	Dahaprashaman
	-	_	Katu	Tikshna			Swedajanana
			Madhura				Vishaghna
							charmaroganashaka

# Gandhakadya Malahar<sup>1</sup>:

#### **Contents:**

Siktha taila	6 tola
Shudha Gandhaka (Figure1)	½ tola
Giri Sindura (Figure2)	½ tola
Shudha Tankana (Figure3)	2 masha
Karpura (Figure4)	2 masha





Figure 1 Gandhaka



Figure 3 Tankana

Figure 4 Karpura

# MATERIAL AND METHODS

Material: Raw material i.e. siktha, tila taila, shudha gandhaka, girisindura, shudha tankan and karpura were procured from the Shiv Shakti Herbal and Healthcare Pharmacy, Bhikhi. All the

drugs were screened and identified to meet the properties mentioned in *Ayurveda* classics.

**Methods**: It involves following pharmaceutical procedures:

- 1. Siktha Taila Nirmaana
- 2. Gandhaka Shodhana
- 3. Tankan Shodhana
- **4.** *Gandhakadya Malahar* preparation.
- 1. Siktha Taila Nirmaan<sup>2</sup>:

#### **Ingredients:**

**1.** *Siktha*: 146.6g

**2.** *Tila Taila*: 880ml

**Apparatus Required:** Stainless steel vessel, spatula, cotton cloth, gas stove and cylinder.

#### Procedure:

- 1. In a clean stainless steel vessel *taila* was taken and placed over mild flame.
- 2. Heat was given until foam starts appearing.
- 3. After some time required amount of bee wax was added to it according to the reference.
- 4. After some time bee wax completely melts in oil then it was filtered to another clean vessel for self cooling (Figure 5).

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Figure 5 Siktha Taila

5. After cooling it becomes a soft butter like paste.

#### **Observations:**

- Final Weight- 1 kg
- Weight loss- 26.6g
- **% of Weight loss** 2.6%
- Color Creamish
- Odour Characteristic
- **Description** semisolid, butter like

# 2. Gandhaka Shodhan<sup>3</sup>:

#### **Ingredients:**

- 1. Ashudha Gandhaka: 500g
- 2. Godugdha: 1L
- 3. Goghritta: 50g

**Apparatus required:** Cotton Cloth, *Lauha darvi*, stainless steel vessels, spoon and gas stove.

#### Procedure:

- Ashudha Gandhaka 500gm was procured from market.
- Then screening of *Ashudha Gandhaka* was done and reduced to powdered form in Pestle and mortar.
- It was poured in 50g *Ghritta* smeared heavy base S.S vessel and heated over medium flame and heated till *Gandhaka* start melting.

- Simultaneously, cow milk was taken in container and muslin cloth was tied over the containers mouth.
- When *Gandhaka* was completely in molten state it was poured into container having cow milk which was covered by muslin cloth and continuous stirring was done during whole process of pouring.
- *Gandhaka* was taken out in S.S tray and washed with warm water (Figure 1).
- It was allowed to dry and same procedure was done for two more times.
- It was stored in air tight container.

#### **Observations:**

- Final Weight 440gm
- Weight loss 60 gm
- **% of Weight loss** 6%
- **Color** Bright yellow
- Odour Characteristic
- **Description** Granular

# 3. Tankan Shodhan<sup>4</sup>:

# **Ingredients:**

1. Ashudha Tankana: 50g

**Apparatus Required:** Stainless steel vessel, spatula, weighing machine, gas stove and gas cylinder.

#### **Procedure:**

- **1.** Ashudha tankana was procured from market and reduced into powder form with the help of pestle and mortar.
- **2.** A stainless steel vessel was kept over stove and mild heat was applied.



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- **3.** Powdered *tankana* was poured into the vessel and continuous stirring was done.
- **4.** Heating was continued until whole water was evaporated.
- **5.** After self cooling *tankan* was reduced to powder form and weighed properly (Figure 3).

# **Observations:**

Final weight : 42g

Weight loss : 8g

% of weight loss : 16%

**Color** : white

Odor : Odorless

**Description** : Puffed rice

like appearance

# 4. Gandhakadya Malahar Preparation:

## **Ingredients:**

1. Siktha Taila: 1 Kg

2. Shudha Gandhaka: 83.3g

3. *Girisindura*: 83.3g

4. Shudha Tanka: 31.25g

5. *Karpura*: 31.25g

**Apparatus Required:** Stainless steel vessels, spatula, weighing machine, pestle and mortar, gas stove and gas cylinder.

#### **Procedure:**

- **1.** *Siktha taila* was taken in clean stainless steel vessel and heated over mild flame (Figure 6).
- **2.** When foam started to appear, the flame was put off and powders of other drugs were added to it (Figure 7).
- **3.** The mixture was stirred well and then left for self cooling.

**4.** After cooling it became solidified waxy mass and is called as *gandhakadya malahar*.



Figure 6 Heating of Siktha Taila



Figure 7 Addition of other contents

**5.** It was stored in container with wide mouth for further use.

#### **Observations:**

• Final weight: 1200g

• Weight loss: 29.1g

% of weight loss: 2.4%

Color: Bright Orange

Odor: Characteristic

• **Description:** Semisolid

# **Precautions:**

- Heat was kept mild throughout the process.
- It was stirred continuously to prevent the material from burning.
- Gandhaka was poured immediately after melting into the vessel containing warm milk and lumps of gandhak obtained after shodhana should be washed properly with warm water.





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 Powdered material should be added after some gap of heating the siktha taila.

# **DISCUSSION**

Aim of this study was to prepare *Gandhakadya Malahar* according to the method mentioned in *Rasa Tarangini*. In this pharmaceutical study, different procedures were done and their findings have been discussed:

#### 1. Siktha Taila Nirmaana

- Preparation of *siktha taila* was done in the ratio 1:5 i.e. *siktha* 1 part and *taila* 5 parts was taken.
- According to *Rasa Tarangini* for the *malahar* preparation in summer season *siktha taila* with 1:5 should be prepared<sup>5</sup>.
- The percentage loss was 2.6% during process; it may be due to poor handling.

#### 2. Gandhaka Shodhana

- *Gandhaka shodhana* was done according to method mentioned in *Rasamrittam*.
- Fat soluble impurities got dissolved in *ghritta* and *milk*.
- The percentage loss was 6% and it may be due to loss of impurities, poor handling and Some amount of *gandhaka* got stuck with cloth every time while filtering.

#### 3. Tankan Shodhana

 Tankan shodhana was carried out according to reference given in Rasa Tarangini. • As *Tankan* contains a large amount of water content so total percentage loss of *Tankan* during *shodhana* was 16%.

# 4. Gandhakadya Malahar Preparation

- All the powdered material should not be added while heating the oil and immediately after turning off the stove otherwise material will get burnt.
- The total percentage loss of material during process was 2.4% which may be due to poor handling method and some amount of *malahar* was left stuck in walls and base of container.

# CONCLUSION

Malahar is a semisolid preparation which can be correlated with the ointment preparation of the modern pharmaceutics. The ingredients of Gandhakadya malahar mentioned in literature were brought and subjected to Shodhana to avoid toxic effects and to get the desired therapeutic effects. Base material used for preparation is bee wax oil and it is possible to achieve the desirable consistency by adjusting the amount of wax. Consistency of Malahara was neither too hard soft. Method of preparation too nor gandhakadya malahar is easy and can be prepared at very low cost. Malahar Kalpana is different from ghritta, taila and upnaha kalpana though they are also used for external application.



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