

## COMPARATIVE PHARMACEUTICAL STUDY OF RASAGARBHA POTTALI

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### ABSTRACT

**Introduction:** In *Rasashastra*, *Rasa* (Mercury) is the main constituent of herbo-mineral medicines. *Rasagarbha Pottali* is a unique *Rasa* preparation. There is a need of standardizing the *Pottali kalpana* through various Pharmaceutical processes to know its yield, compactness and *Pakakala*. In the current study *Rasagarbha Pottali* (RGP) is prepared by three *bhavana dravyas* viz... *Kumari swarasa* (RGP-K), *Isabgol* (RGP-I) and *Babbula Niriyasa* (RGP-B). **Methods:** *Parada* is extracted from *Hingula* and *Kajjali* is prepared by mixing with *Dhatu Pisti*. Prepared *Kajjali* is triturated with *Kumari swarasa*, *Isabgol* & *Babbula niriyasa* and three *Pottalis* are prepared respectively by *Gandhaka drava paka* method. **Results:** 507 g of *Parada* is obtained from 860 g of *Hingula*. 9hrs, 7hrs & 6 hrs are the *Paka kala* of RGP-K, RGP-B & RGP-I respectively. RGP-K is compact with good hardness, RGP-B is less hard and RGP-I is slightly compressed and hard. **Discussion:** The resinous constituent of Aloe Vera (*Kumari*) binds the ingredients of RGP-K firmly and gives shape and compactness. *Acacia arabica* (*Babbula Niriyasa*) in RGP-B is the mixture of *polysaccharides* and *glycoprotein* which makes the *Pottali* less hard and brittle. Shape of RGP-I after *paka* is retained but slightly compressed because of fiber and elastic property of *Plantago ovata* (*Isabgol*). **Conclusion:** By analyzing the comparative pharmaceutical points one can conclude that, RGP-K, RGP-B and RGP-I all the three *Pottalis* can be prepared in 9hrs, 7hrs and 6 hrs of *Pakakala* respectively. RGP-K and RGP-I are well compacted after *paka*, Where as RGP-B is less hard and brittle.

**Keywords:** *Rasagarbha Pottali*, *Kumari swarasa*, *Isabgol*, *Babbula Niriyasa*, comparative pharmaceutical study

### INTRODUCTION

Since 8<sup>th</sup> C, the golden period of *Rasashastra* started. *Rasashastra* embodies mainly the science of metals considering *Rasa* (Mercury) as a chief metal. Among the various *Rasa Kalpanas*, “*Pottali*” is considered as effective form of mercurial formulation<sup>[1]</sup>.

*Rasagarbha Pottali* is a classical *Pottali Rasayana* containing *Hingulottha Parada*, *Kajjali*, *Shodhita Gandhaka* and *Swarnatanutantu Khanda*. While explaining *Rasagarbha Pottali* the *bhavana dravyas* along with *Kumari swarasa* (*Aloe Vera*), *Isabgol*

(*Plantago ovata*) and *Babbula niryasa* (*Acacia arabica*) are also mentioned<sup>[2]</sup>.

The main aim of Pharmaceutical study is to find out working standards for the formulations and safe use of therapeutics. The present study aims at assessing the comparative study of Pharmaceutical processing of 'Rasagarbha Pottali (RGP)' prepared by three different *bhavana dravyas* by *Gandhaka drava paka* method. They are *Kumari swarasa* (RGP-K), *Isabgol* (RGP-I), *Babbula Niryasa* (RGP-B).

## MATERIALS AND METHODS:

### MATERIALS:

**Table No: A**

<i>Hingula</i>	860 g
<i>Gandhaka</i>	341g (for <i>Kajjali</i> )
<i>Gandhaka</i>	45.770 kg (for <i>Gandhaka paka</i> )
<i>Swarna Patra</i>	2.587 g
<i>Kanchanara Patra Swarasa</i>	200 ml
<i>Nimbu swarasa</i>	Q.S
<i>Saindhava Lavana</i>	a pinch
<i>Haridra churna</i>	1 tsp.
<i>Go-dugdha</i>	Q.S
<i>Kumari swarasa</i>	150 ml
<i>Isabgol</i>	200 ml
<i>Babbula Niryasa</i>	200 ml
Silk cloth, <i>Khalva Yantra</i> , <i>Urdhwa patana Yantra</i> , <i>Kurma puta</i> , <i>Valuka yantra</i> , etc.	

### METHOD:

The whole method of preparation includes:

Extraction of Parada from Hingula:<sup>[6]</sup>

*Parada* is extracted from *Hingula* by the *Hingulakrusta Parada* method mentioned in *Rasa Tarangini*. And it is taken into a porcelain mortar and *Haridra churna* is added and triturated for 3 days.

**Table No: B**

507 g of <i>Parada</i> was extracted from 860 g of <i>Hingula</i>
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Gandhaka Shodhana:<sup>[7]</sup>

*Gandhaka Shodhana* was carried out in *Godugdha* by subjecting it to *Kurma Puta* by *Bhoodhara Yantra* method. *Shodhita Gandhaka* was of pale Yellow Colour with greenish tinge & shiny. It was in granu-

### OBJECTIVES:

- To Carry out *Visesha Shodhana* of *Swarna*<sup>[3]</sup>.
- To prepare *Samaguna Kajjali*<sup>[4]</sup>.
- To Prepare *RGP* by three different *Bhavana dravyas* i.e. *Kumari swarasa* (RGP-K), *Isabgol* (RGP-I) and *Babbula Niryasa* (RGP-B)<sup>[5]</sup>.
- To carry out comparative Pharmaceutical study of each *RGP*.

lar form and few were streak like, fully immersed in the milk.

Visesha Shodhana of Swarna:<sup>[8]</sup>

*Swarna Patras* are cut into small layer like pieces and heated to red hot in a mild flame and suddenly

quenched into *Kanchanara Patra Swarasa* and washed in warm water. Same procedure was re-

peated for 2 more times. For each time *Nirvapa* fresh sample of *Kanchanara patra Swarasa* was used.

Preparation of *Swarna Pisti*:<sup>[9]</sup>

<b>Table No: C</b>
<i>Shodhita Swarna Patras</i> : 2.587 g
<i>Shodhita Parada</i> : 41g
prepared <i>Swarna-pisti</i> : 43.587 g.

*Shodhita Swarna Patras* were cut into small pieces and added slowly into *Khalva yantra* containing *Shodhita Parada* and triturated. Amalgamation of *Swarna* and *Parada* was taken place after 6 hrs of *mardana*. After complete formation of *Pisti*, *Nimbu swarasa* and *Saindhava Lavana* was added and tritu-

rated well. After 3 hrs of trituration *swarasa* colour turned into greyish black. The *Pisti* was then washed with luke warm water, until the water stopped turning into black colour and all the acid content disappeared. Then this *Swarna-pisti* was collected and weighed.

Preparation of *Kajjali*:<sup>[10]</sup>

**Table No: D**

<i>Parada</i> : 331 g
<i>Gandhaka</i> : 331g
<i>Kajjali</i> : 662 g

*Parada* and *Gandhaka* were taken in a clean *Khalva Yantra*. Then gently triturated with uniform speed till all the *Kajjali Siddhi Lakshanas* were observed. After 72 hrs, *Kajjali* was taken between thumb and index finger made wet then rubbed and was exposed

to sunlight, minute particles were observed in furrows of finger confirming *Rekhapurnatva test*. *Nischandra*, *Varitara*, *uttama test* was confirmed. Obtained *kajjali* is 662 g.

Preparation of Final *Kajjali* for RGP:<sup>[11]</sup>

**Table No: E**

<i>Swarna Pisti</i> : 43.587g
<i>Gandhaka</i> : 10.35 g
<i>Kajjali</i> : 662 g

*Gandhaka* is added to the *Swarna-pisti* in a *Khalva yantra* and triturated properly till it is properly mixed. Later the above mixture is mixed with the prepared *kajjali* and again trituration continued. Af-

ter 72 hrs *Kajjali* appeared Smooth and *Rekhapurnatva test* found positive. For better fineness and smoothness of *kajjali*, *mardana* was continued up to 280 hrs.

Distribution of RGP Kajjali For three Bhavana dravyas:**Table No: F**

238.6 g for <i>Kumari swarasa</i> (150 ml)
238.6 g for <i>Babbula Niriyasa</i> (200 ml)
238.6 g for <i>Isabgol</i> (200 ml)

All the three *bhavana* are given separately for 7days respectively.

Distribution of kajjali for Pilot study and Main study:**Table No: G**

<i>Kajjali</i> for	wt. before <i>bhavana</i>	wt. after <i>bhavana</i>	wt. gain	For pilot study	<i>kajjali</i> for main study
<i>RGP-K</i>	238.6 g	250 g	11.4 g	80 g	120 g
<i>RGP-B</i>	238.6 g	295 g	56.4 g	100 g	145 g
<i>RGP-I</i>	238 g	270 g	31.4 g	100 g	120 g

PILOT STUDY:**Table No: H**

	<i>Kajjali</i>	7 days <i>Bhavana</i>	<i>Poogakara Pottali</i>
<i>RGP-K</i>	80 g	40ml <i>Kumari swarasa</i>	5 <i>Pottali</i> : 10.5 g, 11 g, 11.5 g, 11.5 g, & 12 g
<i>RGP-B</i>	96 g	60 ml <i>Babbula niriyasa</i>	8 <i>Pottali</i> : 9.5 g, 10 g, 10.5 g, 10.5 g, 10.5g, 11.5g, 12 g & 12 g
<i>RGP-I</i>	96 g	60 ml <i>Isabgol</i>	8 <i>Pottali</i> : 8.5 g, 8.5 g, 9.5 g, 9.5 g, 9.5 g, 9 g, 10 g & 10 g

Result after *Gandhaka paka* of *RGP-K***Table No: I**

<i>Pottali</i>	<i>Paka kala</i>	Weight	
		Before <i>paka</i>	After <i>paka</i>
1	3hrs	10.5 g	12.5 g
2	6hrs	11 g	14.5 g
3	8 hrs	11.5 g	15.5 g
4	9hrs	11.5 g	14.5 g
5	10hrs	12 g	13.5 g

Result after *Gandhaka paka* of *RGP-B*:**Table No: J**

<i>Pottali</i>	<i>Paka kala</i>	Weight	
		Before <i>paka</i>	After <i>paka</i>
1	45 min	9.5 g	9.5g
2	1:30 hrs	10 g	10.5g
3	3 hrs	10.5 g	10 g
4	5 hrs	10.5 g	9 g
5	6 hrs	10.5 g	9 g
6	7 hrs	11.5 g	8.5g
7	8 hrs	12 g	8g
8	9 hrs	12 g	8g

Table Result after *Gandhaka paka* of *RGP-I*:

**Table No: K**

<i>Pottali</i>	<i>Paka kala</i>	Weight	
		Before <i>paka</i>	After <i>paka</i>
1	45 min	8.5 g	8.5 g
2	1:30hrs	8.5 g	8.5 g
3	3hrs	9.5 g	9 g
4	5hrs	9.5 g	8 g
5	6hrs	9.5 g	8 g
6	7hrs	9 g	7.5 g
7	8hrs	10 g	7 g
8	9hrs	10 g	7 g

So by above practical, the *Pakakala* of *RGP* known by Pilot study are:

**Table No: L**

<i>Pottali</i>	<i>Pakakala</i> from starting of heating	<i>Pakakala</i> after Melting of Sulphur
<i>RGP-K</i>	11 hrs	09 hrs
<i>RGP-B</i>	09 hrs	07 hrs
<i>RGP-I</i>	08 hrs	06 hrs

**MAIN STUDY:**

**Table No: M**

	Dried <i>Poogakara Pottali</i>
<i>RGP-K</i>	3 <i>Pottalis</i> of 40g, 40.5g, 39.5g
<i>RGP-B</i>	3 <i>Pottalis</i> of 44g, 44.5g, 32 g
<i>RGP-I</i>	3 <i>Pottalis</i> of 34g, 34 g, 34 g

Generalised method of *Gandhaka Drava paka* method of *Pottali karma* is followed by maintaining *Mrudvagni* between 190° C to 215°C. After attaining the features of *Pottali siddhi lakshanas* like *Vyoma*

*varna* of *Gandhaka*, burning of silk cloth & metallic sound the heating is stopped. And *Pottali* is removed, scrapped for adhered *Gandhaka* and polished.



**silkcloth**



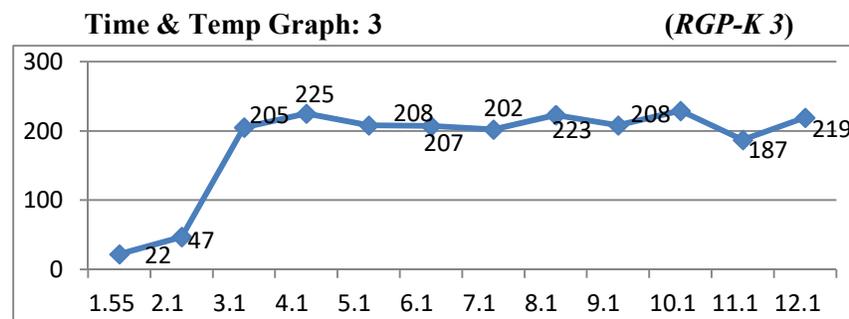
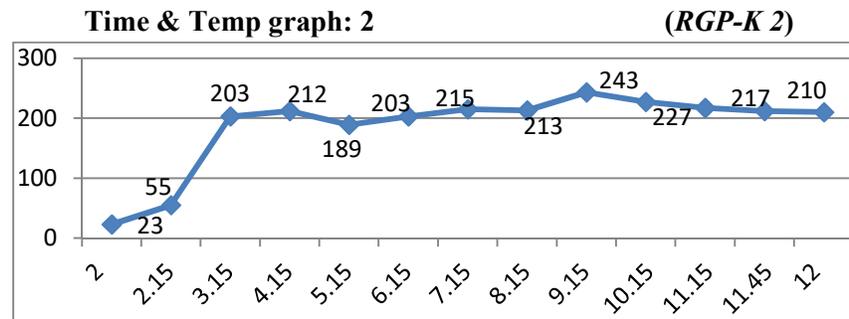
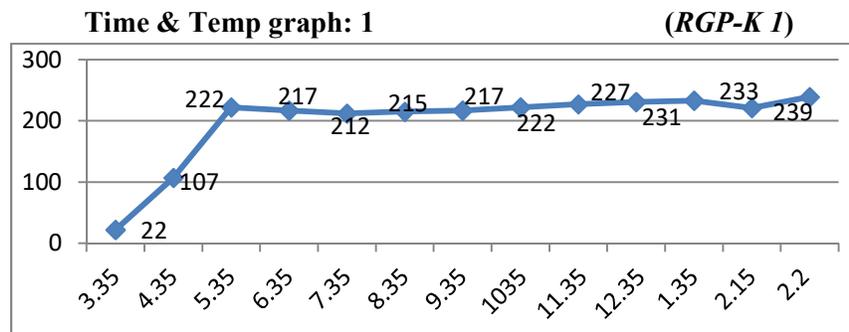
**Pottali tied to Iron rod**



**Valuka Yantra**

Immersion of *Pottali* in *Gandhaka drava**Vyoma varna*, Burnt silk cloth and Polished *Pottali*RGP-KTemperature pattern and Observation of RGP-K:**Table: N**

Time	Temp ( <sup>0</sup> c)	Observation
1.45 Am	22 <sup>0</sup> C	Fire ignited
2.00 Am	28 <sup>0</sup> C	
2.15 Am	57 <sup>0</sup> C	
2.30 Am	65 <sup>0</sup> C	
2.45 Am	107 <sup>0</sup> C	<i>Gandhaka</i> started to melt
3.00 Am	170 <sup>0</sup> C	Scum removed
3.15 Am	205 <sup>0</sup> C	
3.30 Am	210 <sup>0</sup> C	<i>Gandhaka</i> melted completely
3.45 Am	222 <sup>0</sup> C	<i>Pottali</i> immersed
4.00 Am	222 <sup>0</sup> C	
4.15 Am	220 <sup>0</sup> C	
4.30 Am	218 <sup>0</sup> C	Yellow colour of sulphur is seen
4.45 Am	217 <sup>0</sup> C	
5.00 Am	216 <sup>0</sup> C	Fumes of sulphur started to appear.
5.15 Am	216 <sup>0</sup> C	
5.30 Am	215 <sup>0</sup> C	Golden yellow colour of sulphur
5.45 Am	212 <sup>0</sup> C	
6.00 Am	212 <sup>0</sup> C	Scum collected at the surface of <i>paka</i> is removed
6.15 Am	213 <sup>0</sup> C	
6.30 Am	214 <sup>0</sup> C	Sulphur- Brownish yellow colour
6.45 Am	215 <sup>0</sup> C	Sulphur became more viscous
7.10 Am	217 <sup>0</sup> C	
9.20 Am	217 <sup>0</sup> C	Brown colour of sulphur is observed
9.35 Am	217 <sup>0</sup> C	Sulphur fumes became denser
9.50 Am	219 <sup>0</sup> C	
10.50 Am	223 <sup>0</sup> C	
11.05 Am		Dark brown colour of <i>Gandhaka</i> is seen
11.35 Am	227 <sup>0</sup> C	
11.50 Am	228 <sup>0</sup> C	Bluish black colour of <i>Gandhaka</i>
12.05 pm	230 <sup>0</sup> C	<i>Pottali siddhi lakshanas</i> appeared and <i>Pottali</i> removed



[Similar Temperature pattern and Observation are followed for RGP-B & RGP- I]

**RESULTS:**

**PHARMACEUTICAL STUDY:**

Yield of Preparation of *Hingulotha Parada*:

**Table: 01**

Extraction of <i>Parada</i> from <i>Hingula</i>	Initial wt. of <i>Hingula</i> (860g)	Wt. of <i>Parada</i> extracted	Loss	<i>Parada</i> Obtained in %	Total Yield in
1 <sup>st</sup> Batch	230 g	135 g	95 g	58.69	507g
2 <sup>nd</sup> Batch	200 g	120 g	80 g	60	
3 <sup>rd</sup> Batch	230 g	130 g	100 g	56.52	
4 <sup>th</sup> Batch	200 g	122 g	78 g	61	59.05 %

Yield of *Gandhaka* after *Shodhana*:

Total *Gandhaka* taken: 48.210 kg, Total loss: 2.440kg, Total yield: 45.770 kg

Observations made during *Swarna-pisti*:

**Table: 02**

<i>Swarna Pisti</i>	<i>Suddha Swarna Patra</i>	<i>Hingulottha Parada</i>	<i>Nimbu Swarasa</i>	<i>Saindhava Lavana</i>	<i>Swarna Pisti after Prakshalana</i>	Loss during <i>Pisti</i>
1	2.587 g	41 g	60 ml	1 pinch	43.587 g	0

*Kajjali* distribution for Pilot study and Main study:

**Table: 03**

<i>Kajjali</i> for	Wt. before <i>bhavana</i>	Wt. after <i>bhavana</i>	Wt. gain	For pilot study	For main study
<i>RGP-K</i>	238.6 g	250 g	11.4 g	80 g	120 g
<i>RGP-B</i>	238.6 g	295 g	56.4 g	100 g	145 g
<i>RGP-I</i>	238 g	270 g	31.4 g	100 g	120 g

*Pakakala*:

The *Pakakala* of Respective *Pottali* known by Pilot study are:

**Table: 04**

<i>Pottalis</i>	From the beginning of process	After the melting of sulphur
<i>RGP-K</i>	11 hrs	09 hrs
<i>RGP-B</i>	09 hrs	07 hrs
<i>RGP-I</i>	08 hrs	06 hrs

MAIN STUDY:

Observations:

**Table: 05**

<i>Pottali</i> in 3 batches	Duration Hrs	Wt. Before <i>Gandhaka paka</i>	Wt. After <i>Gandhaka paka</i>	Yield	Total Before <i>Paka</i>	Total Before <i>Paka</i>	Total Yield	
<i>RGP - K</i>	1	8:45	40 g	47 g	7g	120 g	144.5 g	24.5 g Gain (19.5%)
	2	9:35	40.5 g	47.5 g	7g			
	3	8:20	39.5 g	50 g	9.5g			
<i>RGP - B</i>	1	7:45	44 g	34 g	10 g	140.5 g	110 g	30.5 g Loss (21.7%)
	2	7	44.5 g	33 g	11.5 g			
	3	7:15	52 g	43 g	9 g			
<i>RGP - I</i>	1	6	32 g	28.5 g	3.5 g	100 g	89 g	11 g Loss (11%)
	2	6	34 g	30.5 g	3.5 g			
	3	6:30	34 g	30 g	4 g			

## DISCUSSION

*Rasagarbha Pottali* is a *Sagandha*, *Sagni*, *Bahirdhooma*, *Gandhaka jaarita*, *Kajjali bandha Pottali Kalpana* containing *Parada*, *Shuddha Gandhaka*

*churna*. In the current experiment *RGP* is prepared from the *bhavana* medias i.e. *Kumari swarasa (RGP-K)*, *Isabgol (RGP-I)* and *Babbula Nirayasa*

(RGP-B) and its comparative pharmaceutical study is undertaken.

Kajjali Mardana: After 72 hrs *Kajjali* appeared Smooth and *Rekhapornata test* found positive. For



*Kajjali* >

Bhavana dravyas: *Kumari Swarasa* contains *aloe resin A, B, C* and *Aglyconealoesone* “These resinous constituents bind the ingredients of RGP-K firmly and give shape and compactness.” Other constituents are: *Hydroxyanthraquinone, barbaloin, γ-hydroxy aloin isomers and emodin chrysophanol derivatives* will aid medicinal attributes to the *Kajjali*. Shape of *Pottali* after *paka*: *Poogakara* is retained.

*Babbula Nirayasa* also called as *Gum Arabic* is the mixture of *polysaccharides* and *glycoprotein* gives it the properties of glue and thus acts as a binding agent in RGP-B. Shape of *Pottali* after *paka*: Round / Bolus & brittle, because of early melting of gum and loosening of bonds.

Since the *Isabgol* or *Psyllium Ovata*, contains high fiber that varies from 75 % to 80%, and a *polysaccharide Mucilage*, these properties attributes the *Laxative* and *binding* property to the RGP-I. Shape of *Pottali* after *paka* is retained but slightly compressed because of fiber and elastic property of *Isabgol*

Pakakala and Compactness of Pottali:

By knowing the pilot study and the Main study it is confirmed that:

1. *Pakakala* of RGP-K is found to be 9 hrs. It is well compact with good hardness
2. RGP-B's *pakakala* is estimated as 7 hrs. The *Pottali* reduces its hardness and becomes more brittle by more *pakakala* because of the property attributed by *Gum Acacia*.

better fineness and smoothness of *Kajjali, mardana* was continued up to 280 hrs.



*Rekhapurnata* >

3. RGP-I *Pakakala* is estimated as 6 hrs. The *Pottali* is hard but its shape is slightly compressed after *paka* because of the elastic property of fibers present in *Isabgol*

## CONCLUSION

*Pottali Kalpana* can be understood as a specific Pharmaceutical technique which is intended for keeping different constituents in their processed, purified, incinerated, *sindhoora* form into unique complex formula. As per the classical reference the three types of *Rasagarbha Pottalis* were prepared by three *bhavana dravyas* i.e. *Kumari swarasa, Babbula Nirayasa* and *Isabgol*.

By analyzing the comparative pharmaceutical points, one can conclude that, RGP-K, RGP-B and RGP-I all the three *Pottalis* can be prepared in 9hrs, 7hrs and 6 hrs of *Pakakala* respectively.

*Pakakala* should be optimum. Giving more heat may break the *Pottali* into cracks and its hardness will reduce.

Shape of RGP-K is retained in *Poogakara* even after *Gandhaka paka*. RGP-I is hard but its shape is slightly compressed after *paka* because of the elastic property of fibers present in *Isabgol*. RGP-B attained round shape since the *Gum Acacia* which is a *bhavana dravyas* will get melted early. *Kumari swarasa* attributed *Rasayana* property to the *Pottali*. *Isabgol* as a *laxative* the property is attributed to the *Pottali*.

*Babbula* is a gum; due to intense heat exposure it attained a round shape and brittle in consistency.

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