



**REVIEW OF YANTRAS MENTIONED IN RASA TARANGANI**

**Dr. Dubey Somil\***

Medical Officer, Pt. Khushilal Sharma Government Ayurveda College and Institute, Bhopal, M.P-462003.

\*Corresponding Author: Dr. Dubey Somil

Medical Officer, Pt. Khushilal Sharma Government Ayurveda College and Institute, Bhopal, M.P-462003.

Article Received on 20/01/2019

Article Revised on 09/02/2019

Article Accepted on 01/03/2019

**ABSTRACT**

*Yantras* are the apparatus used to perform certain process like purification etc, on Mercury and other drugs of mercurial kingdom. There are innumerable *yantras* and each one is designed to meet the needs required in particular situation. Their nomenclatures is based on number of parameters, based on their shape (*dola yantra*), type of procedure carried out in them (*swedana yantra*), material used in assembling them (*lavana yantra*). *Rasa Tarangani* a *Rasa shastra* treatise of 20<sup>th</sup> century by *Sadananda Sharma* has enumerated nearly 20 types of *yantras* in 4<sup>th</sup> *Taranga*. He has given an elaborate definition of *yantras* as apparatus brought into use for safeguarding the mercury, minerals and other metals during various procedures like incineration etc. are called as *Yantras*. Present paper aims at bringing into light the *yantras* mentioned by *Rasa Tarangani* along with their uses and other specialities.

**KEYWORDS:** *Yantras, Rasa Tarangani, Sadananda Sharma.*

**INTRODUCTION-** Instruments or apparatus which brings mercury under control are called as *Yantras*.<sup>[1]</sup> Instruments which safeguard Mercury and other mercurial compounds during various procedures like incineration etc. are called as *yantras*.<sup>[2]</sup> *Sadananda Sharma* in his text *Rasa Tarangani* has enumerated various *yantras* along with their use in 4<sup>th</sup> *Taranga*. Here

he has mentioned very clearly about the procedure of assembling *yantras* along with its use in various procedures.

**MATERIAL AND METHODS**

20 types of *yantra* are mentioned in *Rasa Tarangani*. The details are tabulated as follows.

**Table No. 1: Showing The Name Of Yantras Along With Their Uses.**

S. No.	NAME OF THE YANTRA	USE
1.	<i>Dola yantra</i> (Swinging apparatus)	<i>Swedana</i> (fomentation), purification of impure drugs <sup>[3]</sup>
2.	<i>Urdhva Patana yantra</i>	<i>Urdhva patana Samskara</i> of Mercury (Sublimation) <sup>[4]</sup>
3.	<i>Adha Patana yantra</i>	<i>Adha patana</i> of Mercury (downward movement) <sup>[5]</sup>
4.	<i>Tiryak patana yantra</i>	<i>Tiryak patana</i> of Mercury (distillation) <sup>[6]</sup>
5.	<i>Bhasma yantra</i> (Ash apparatus)	Used for making <i>bhasma</i> (incineration) of arsenic compounds like <i>Hartala</i> (Orpiment) <sup>[7]</sup>
6.	<i>Kachapa yantra</i> (Tortoise apparatus)	<i>Gandhaka Jarana</i> (digestion of sulphur into mercury) Liquefaction of <i>Sattva</i> (metallic extracts) <sup>[8]</sup>
7.	<i>Bhudhara yantra</i> (Concealed apparatus)	<i>Gandhaka Jarana</i> (digestion of sulphur into Mercury) <sup>[9]</sup>
8.	<i>Mridanka yantra</i> (Mixing drum apparatus)	Artificial preparation of <i>Hingula</i> (Cinnabar) <sup>[10]</sup>
9.	<i>Sthali yantra</i> (Pot apparatus)	Digestion of metals in liquid media <sup>[11]</sup>
10.	<i>Baluka yantra</i> (sand apparatus)	For making <i>Kupipakwa rasayanas</i> <sup>[12]</sup>
11.	<i>Lavana yantra</i> (salt apparatus)	For making <i>Mriganka rasa</i> <sup>[13]</sup>
12.	<i>Putra yantra</i> (Incineration apparatus)	For making <i>bhasmas</i> (incineration of metals) <sup>[14]</sup>
13.	<i>Bhaspa swedana yantra</i> (Vapour apparatus)	<i>Swedana</i> (fomentation) of drugs and for making <i>Sattva</i> of drugs (extracts) <sup>[15]</sup>
14.	<i>Darvika yantra</i>	Purification of Sulphur, Lead, Tin <sup>[16]</sup>
15.	<i>Palika yantra</i> (Saucer apparatus)	<i>Gandhaka jarana</i> <sup>[17]</sup>
16.	<i>Damruka yantra</i> (drum apparatus)	Sublimation process <sup>[18]</sup>
17.	<i>Nadika yantra</i> (Distillation apparatus)	Preparation of <i>Arka</i> (Distillation) <sup>[19]</sup>

18.	<i>Patala yantra</i> (Oil extraction apparatus)	Extraction of oil <sup>[20]</sup>
19.	<i>Khalva yantra</i> (Mortar-pestle apparatus)	Various practical's like grinding, triturating. <sup>[21]</sup>
20.	<i>Ullukhal yantra</i> (pounding apparatus)	Pounding of materials. <sup>[22]</sup>

## DISCUSSION

*Yantras* are an integral part of *Rasa Shastra*. The concept of *yantra* is based on the concept of safeguarding Mercury and other drugs of mercurial system during the *Rasa* procedures like *swedana*, incineration etc. *Yantra* play an important role in accomplishment of *rasa* procedures. Also, they are designed according to the need of the process like for purification of drugs requiring mild to moderate temperature *Swedana yantra* can be used. *Gandhaka jarana* is an important procedure in *rasa shastra*, *yantras* like *Bhudhara yantra*, *kachapa yantra* are vital aspect of this process. Particular type of drugs known as *Kupipakwa Rasayansa* like *Rasa Sindoor* can be prepared by help of *Baluka yantra*. *Yantras* can be also be modified according to the need or type of process required, like in *baluka yantra* in place of using *baluka*, salt can also be used so it becomes *Lavana yantra*; which is specifically used in making *Mriganka rasa*. Important aspect of discussing *yantra* mentioned in *Rasa Tarangani* is that it is a recent text of *rasa shastra* i.e 20<sup>th</sup> century, also very clear and elaborate discussion of *yantra*, it's assembling, usage is given by author. Nearly 20 types of *yantra* are mentioned in this book.

## CONCLUSION

Apparatus which bring Mercury under control are called as *yantras*. *Rasa Tarangani* an important text of *Rasa Shastra* has mentioned nearly 20 types of *yantra*. Proper knowledge of *yantra* enables a practitioner to operate the process of drug manufacturing with accuracy.

## REFERENCES

- Chapter 10/1: Siddhinandan Mishra: Yasodhara bhatta: *Rasa Prakasha Sudhakara*: 2013: Varanasi: Chaukhambha Orientalia: pg. no.220.
- Chapter 04/1: Kashinatha Shastri: Sadananda Sharma: *Rasa Tarangani*: 2012: Delhi: Motilal Banarasi Das Publication: pg. no. 41.
- Chapter 04/2-5: Kashinatha Shastri: Sadananda Sharma: *Rasa Tarangani*: 2012: Delhi: Motilal Banarasi Das Publication: pg. no. 42.
- Chapter 04/7-10: Kashinatha Shastri: Sadananda Sharma: *Rasa Tarangani*: 2012: Delhi: Motilal Banarasi Das Publication: pg. no. 43.
- Chapter 04/11-12: Kashinatha Shastri: Sadananda Sharma: *Rasa Tarangani*: 2012: Delhi: Motilal Banarasi Das Publication: pg. no. 45.
- Chapter 04/13-15: Kashinatha Shastri: Sadananda Sharma: *Rasa Tarangani*: 2012: Delhi: Motilal Banarasi Das Publication: pg. no. 46.
- Chapter 04/16-17: Kashinatha Shastri: Sadananda Sharma: *Rasa Tarangani*: 2012: Delhi: Motilal Banarasi Das Publication: pg. no. 47.
- Chapter 04/18-20: Kashinatha Shastri: Sadananda Sharma: *Rasa Tarangani*: 2012: Delhi: Motilal Banarasi Das Publication: pg. no. 48.
- Chapter 04/21: Kashinatha Shastri: Sadananda Sharma: *Rasa Tarangani*: 2012: Delhi: Motilal Banarasi Das Publication: pg. no. 48-49.
- Chapter 04/22-27: Kashinatha Shastri: Sadananda Sharma: *Rasa Tarangani*: 2012: Delhi: Motilal Banarasi Das Publication: pg. no. 49-50.
- Chapter 04/28: Kashinatha Shastri: Sadananda Sharma: *Rasa Tarangani*: 2012: Delhi: Motilal Banarasi Das Publication: pg. no. 52.
- Chapter 04/29-31: Kashinatha Shastri: Sadananda Sharma: *Rasa Tarangani*: 2012: Delhi: Motilal Banarasi Das Publication: pg. no. 29-31.
- Chapter 04/32: Kashinatha Shastri: Sadananda Sharma: *Rasa Tarangani*: 2012: Delhi: Motilal Banarasi Das Publication: pg. no. 54.
- Chapter 04/33-34: Kashinatha Shastri: Sadananda Sharma: *Rasa Tarangani*: 2012: Delhi: Motilal Banarasi Das Publication: pg. no. 54.
- Chapter 04/35-38: Kashinatha Shastri: Sadananda Sharma: *Rasa Tarangani*: 2012: Delhi: Motilal Banarasi Das Publication: pg. no. 54.
- Chapter 04/39: Kashinatha Shastri: Sadananda Sharma: *Rasa Tarangani*: 2012: Delhi: Motilal Banarasi Das Publication: pg. no. 56.
- Chapter 04/40: Kashinatha Shastri: Sadananda Sharma: *Rasa Tarangani*: 2012: Delhi: Motilal Banarasi Das Publication: pg. no. 56.
- Chapter 04/41: Kashinatha Shastri: Sadananda Sharma: *Rasa Tarangani*: 2012: Delhi: Motilal Banarasi Das Publication: pg. no. 57.
- Chapter 04/42-46: Kashinatha Shastri: Sadananda Sharma: *Rasa Tarangani*: 2012: Delhi: Motilal Banarasi Das Publication: pg. no. 57-58.
- Chapter 04/47-52: Kashinatha Shastri: Sadananda Sharma: *Rasa Tarangani*: 2012: Delhi: Motilal Banarasi Das Publication: pg. no. 58-59.
- Chapter 04/53: Kashinatha Shastri: Sadananda Sharma: *Rasa Tarangani*: 2012: Delhi: Motilal Banarasi Das Publication: pg. no. 60.
- Chapter 04/58-62: Kashinatha Shastri: Sadananda Sharma: *Rasa Tarangani*: 2012: Delhi: Motilal Banarasi Das Publication: pg. no. 61.