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Review Article

Namarupa Vigyana: As a tool to study the controversy of Alaabu

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ABSTRACT:

Alaabu is a fruit bearing climber belonging to a well known family Cucurbitaceae. Species of this family belong to wild as well as edible variety which has medicinal and nutritional value. Synonyms are very important tool for classification, identification, and usage of medicinal plants in the field of Dravyaguna vidyana. Namarupa vigyana is a branch of Dravyaguna vigyana which gives an idea about the morphological characters, utility in the treatment, place of origin, habitat, historical background of that dravya on the basis of basonyms and synonyms. In Ayurvedic lexicons single synonym is used for two or more than two herbs which are totally different in morphology which creates controversy. Various Nigantu of Dravyaguna mentioned different types of Alaabu and their different synonyms. Many of them gives an idea about morphological characters, habitat, its pharmacological properties (Rasa, Guna, Virya, Vipaka), and varieties of Alaabu. Namarupa vigyana can be used as a tool to overcome controversy of Alaabu. In ancient times there was no system of morphological description of plants as done nowadays. Botanically two species can be correlated with Alaabu i.e. Lagenaria siceraria and Cucurbita maxima.

KEY WORDS: Namarupa vigyana, Controversy, Species of Alaabu

INTRODUCTION:

Ayurveda is the science of life. Aim of this science is "to protect health of the healthy and alleviate disorders in the diseased". To fulfil this aim Dravya (Substance) is required. In vedic literature limited dravya were introduced but with the time being many new dravyas got introduced. As acharaya Charaka said that every drug on the earth has some or the other medicinal properties and can be used as medicine. In ancient and medieval times, there appropriate methodology was morphological description of plants as done nowadays. Ayurveda has some reference books known as Nighantus which contains the scattered references of Dravyas from various Samhitas. The Ancient Nighantus contained only the synonyms of Dravyas, quiet later on properties and actions were added to it and a new pattern of Nighantus were evolved. Synonyms are very important tool classification, identification, and usage of medicinal plants in the field of Dravyaguna vidyana. Synonyms of dravya gives an idea about morphological characters, utility in the treatment, place of origin, habitat, historical background of that dravya. In Ayurvedic lexicons single synonym is used for two or more than two herbs which are totally different in morphology which creates controversy. The Ayurvedic and Sanskrit literature has described a herb with many synonyms, which do not precisely indicate the botanical source but many a times attribute to therapeutic utility of the plant. For a single herb various synonyms are mentioned in Ayurvedic lexicons on the basis of morphology, habitat, origin, therapeutic uses etc.

by using different similes which are leading causes of controversy. Poor understanding and parallel evolved knowledge systems are some of the reasons leads to controversy. A huge controversy can be seen regarding medicinal plants. Synonym related controversy can be ruled out by using binomial nomenclature. Such controversy can be seen regarding many Dravya one of them is Alaabu.

There are many dravya mentioned in Ayurveda which can be used for medicine as well as food purpose one of them is Alaabu. Alaabu is a fruit which belongs to a well-known family known as Cucurbitaceae or gourd family. It is one of the excellent fruit for human being made and gifted by the nature having composition of all the essential constituents that are required for normal and good human health. Botanically two varieties can be correlated with Alaabu i.e. Lagenaria siceraria and Cucurbita maxima. Lagenaria siceraria is Lauki while Cucurbita maxima is Kaddu. Flowers of both the species are monoicous, L. siceraria bears white colored flowers while C. maxima bears Yellow colored flowers. Most of the species belonged to this family having both varieties wild as well as cultivated. Alaabu fruit pulp is used as emetic and purgative. In Ayurvedic text many more references can be seen regarding medicinal utility of Alaabu.

Aim:

- To assess the role of Namarupa vigyana
- To overcome the controversy of Alaabu with the help of Namarupa vigyana.

Objectives:

• Literature research

Methodology:

Literature research were done from all the Samhita, Nigantu of Dravyaguna vigyana and compiled it.

Nirukti –

Alaabu – Na lambte iti | Labi avasamsrane | (Bha. Pra. Shaakavarga)

Synonyms of Alaabu

A considerable amount of information was or might be recorded in the literature under one or synonyms. The establishment more synonyms represents a synthesis of your knowledge of the plants concerned. Ayurvedic text synonyms gives an idea about identification, structure, qualities, habitat, karma, nature of dravya etc. So in Ayurveda synonyms have more significant value for identification of dravya. Various synonyms are mentioned in Brihatrayi. In various Nigantu synonyms are mentioned according to their different shapes, size, and properties. Acharya Charak has mentioned various synonyms in their Ikshwaaku kalpa adhyay (Kalpasthan) –

Lambaa atha katukaalaabuni pindaphalaa tathaa $\|3\|$

Ikshvaakuh phalinee chaiva prochyate tasya kalpnaa ||4|| (C. K. Ikshvaakukalpah)

Acharya Charak mentioned various synonyms in Kalpasthan of Charak Samhita as follows-

Lamba, Katukalaabu, Tumbi, Pindaphala, Ikshwaaku.

Meaning of some synonyms:

Ikshwaku - While cutting the fruit it creates a sound "*Ikshu*". Thus, it is known as *Ikshwaku*.

Katu-tumbi – it is bitter in taste and pacifies the *Pitta and Kapha Dosha*.

Alaabu- Fruit of the plant doesn't hang from its climber but it needs support, thus, it is known as *Alaabu*

Mahaphala- Fruit is big in size

Tikta-beeja- seeds are bitter in taste.

Types and Synonyms of Alaabu

In Samhita and Nigantu (lexicon) various types of Alaabu which having different synonyms and morphological as well as pharmacological properties are mentioned.

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Types		M.N.	Expes and Synonym B.N.	K.N.	R.N.		
Mishtatumbi		Mishtaa Mahatumbi Rajalaabu Alaabuni	-	-	-		
Katu-tuml	bi	Mishtaphali Raajputri Dugdhini	-	-	-		
Alaabu	Dirghaa	-	Alaabu bhed	-	-		
Alaabu	Vartulaa	-		-	-		
Madhural	aabu	-	Mishta-tumbi	-	-		
Katu-tuml	bi	-	Ikshwaaku Mahaaphala	-	-		
Rajalaabu		-	-	Mahaatumbi Madhuralaabu Shakalaabu Tumbak Bhakshalaabu	-		
Katu-tumbi		-	-	Lambaa Tumbi Pinda-phala Raajanya Tikta-beeja Tikta-alaabu Mahaphala Raajputri Dugdhinika Dugdhika	-		
Kumbhatumbi		i -		-	Goraksh-tumbi Gorkshi Navalaambu Kumbhalaambu Ghantalaambu Kubha-tumbi		
Ksheeratumbi		-	-	-	Dugdha-tumbi Dirgha-vruttaphala Ikshwaaku Kshirini Dugdha-beeja Danta-beeja Payaswini Mahaavalli Alaambuj Shramaghni		
Bhutumbi		ımbi -		-	Naag-tumbi Shakrachap samudbhava Divya-tumbi Devavyay		

Table No. 2: Vernacular names of Alaabu

Sr. No.	Language	Vernacular names
1.	Sanskrit	Tumbi Ishavaaku, Katutumbi, Tiktaalaabu, Alabu.
2.	Hindi	Lauki, Ghia
3.	Bengali	Laus, Lokitumbi
4.	English	Bottle Gourd
5.	Gujrati	Dudi, Tumbadi
6.	Kannad	Isugumbala, Tumbi
7.	Malayalam	Chorakka, Churan, Choraikka, Piccura, Tumburini, Cura, Tumburu
8.	Marathi	Bhopla
9.	Punjabi	Tumbi, Dani
10.	Tamil	Shorakkai, Surai, Suraikkai
11.	Telgu	Sorrakaya, Anapakaya
12.	Urdu	Ghiya, Lauki

Table No. 3: Gana of Alaabu

Sr. No.	Name of samhita / Nighantu	Varga/ Gana	References
1.	Charak Samhita	Shaak varga	Cha. Su. 27/112
2.	Sushrut samhita	Vaamak	Su. Su. 39/3
		Madhur varga	Su. Su. 42/18
		Shaak varga	Su. Su. 46/211
3.	Ashatang Hridayam	Vaamak	A.H. 15/1
4.	Bhavaprakash Nigantu	Shaak varga	Bha. Ni. 58-59
5.	Dhanvantari Nigantu	Guduchyadi varga	Dha. Ni. 173-175
6.	Nigantu Aadarsh	Kushmandadi varga	227
7.	Madanpaal Nigantu	Shaak varga	10-11
8.	Dravyaguna Sangraha	Shaak varga	34-35
9.	Kaiyyadev Nigantu	Oshadhi varga	537-540
			541-543
10.	Raj Nigantu	Mulakaadi varga	162-168
11.	Saraswati Nigantu	Lataadi varga	217-218
12.	Shodhal Nigantu	Guduchyaadi varga	212-213

Pharmacological Consideration:

This section deals with the *rasapanchak vivechan* as described by various Authors and tabulates the various therapeutic uses of *Alaabu*

Table No. 4: Rasapanchak of Alaabu

Rasapanchak		C.S.	S.S.	A.S./ A.H.	M.N.	B.P.	K.N.	R.N.	D.N.	N.A.	D.S.
	Madhur	+	+								
Ras	Katu								+		
	Tikta					+	+		+		+
Guna	Sheet	+			+	+	+	+			+
	Guru	+			+	+		+			
	Snigdha										
	Ruksha	+									+
Virya	Ushna										
-	Sheet	+									
Vipak	Madhur	+									
	Katu					+	+				
	Kaphapittahar				+						
Dosha	Pittaghna				+			+		+	
karma	Vatapittahar						+				+
	Kaphaghna								+	+	

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Karma of Alaabu:

Karma, in the context of pharmacology, relates to action on organs, *doshas, dhatus* and *malas* which are required for homeostasis of the person. In other words, karma is the response of living tissue to *dravya*.

Table No. 5: Karma of Alaabu

Samanya Karma	C.S.	S.S.	A.S/ A.H	M.N.	B.N	K. N.	R. N.	D. N.	Sh. N.	D. S.	S. N.
			А.п			IN.	IN.	14.	IN.	ъ.	11.
Rechak	+										
Vaamak	+	+	+			+		+		+	
Vrishya				+	+		+				
Hridya				+	+					+	
Vaatpittajwarhar					+						
Pittakasvishahar					+						
Ruchikar					+						
Dhatupushtikar/balapushti					+		+				
vivardhan											
Mutrashodhana						+					
Vishahar						+		+			+
Vatapittajit						+					
Shramaghna							+		+		
Gabhaposhakrut							+				
Pitttaghna							+				
Kasahar								+			
Shwaasahar								+			
Chhardihar								+			
Shoolhar								+			
Shophahar								+			
Kaphaghna									+		
Malabhedini										+	
Vatashleshmakar										+	

Table NO 6: Rogaghnata of Alaahu

Table No. 6: Rogaghnata of Alaabu											
Rogaghnata	C.S.	S.S.	A.H.	H.S.	Ch.D.	Bh.S.	M.N.	B.N.	K.N.	D.N.	R.M.
Kushtha	+	-	-	-	-	-	-	-	-	-	-
Ashmari	-	-	+	-	-	-	-	-	-	-	-
Pradar	-	-	-	-	-	+	-	-	-	-	-
Naadivran	-	-	-	-	-	+	-	-	-	-	-
Arsha	-	-	-	-	+	-	-	-	-	-	-
Galganda	-	-	-	-	+	+	-	-	-	-	-
Shotha	-	-	-	+	-	-	-	-	-	-	-
Karnarog	-	-	-	+	-	-	-	-	-	-	-
Kaas		-	-	-	-	-	+	-	+	+	-
Shwaas		-	-	-	-	-	-	-	+	+	-
Jwar	-	-	-	-	-	-	-	+	+	-	-
Chhardi	-	-	-	-	-	-	-	-	-	+	-
Vran	-	-	-	-	-	-	-	-	-	+	-
Dantarog	-	-	-	-	-	-	-	-	-	-	+

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Rogaghnata of Alaabu:

Baalaanam dantaroge

Katvalaabvaah samaadaay moolam dantarogaapaham syaacchishoh | (Raaj Martanda)

Yonidoshe

Katukaalaabusamsiddham tailambhyanjjanaadbhavet | Yinidoshaharam naaryaah garbhamutpaadyepi || (Vaidya Manorama)

Haarit Samhitaa

Karnaroge

Tumbirasam cha dhaaryet karnaroge prashasyate | (Haarit Samhita Chikitsa 43)

Shothe

Lomashaa katutumbi ch kanjjiken jalen vaa

Nishvaathya chaapi samswedastaryaivoshnen ten ch || (Haarit Samhita Chikitsa 26)

OBSERVATIONS AND DISCUSSION:

Madanpal Nighantu-

Mishtatumbi naam gunah:

Tumbi mishtaa mahaatumbi raajaalaaburlaabunee |

Mishta tumbiphalam vrushyam kaphpittaharm guru || Shaak varga 10

Katu-tumbi Naamgunaah :

Katu tumbee mishtaphalee raajputree cha dug-dhinee |

Katu tumbee himaa hrudyaa pittakaasavishaapahaa || Shaak varga 11

In *Madanpal Nighntu* two types of tumbi are mentioned as *Mistatumbi* and *Katutumbi*. *Mistha* means *Madhur* (sweet in taste). Fruit of this type is *Vrishya* (Aphrodisiac), *Guru* (heavy), suppressed the vitiated *kapha* and *pitta*. Tumbi, *Mishtaa* (Sweet in taste), *Mahatumbi* (Big in size), *Rajalaabu*, *Alaabu* are the synonyms of *Mishtatumbi*.

Cucurbita maxima is also sweet in taste, big in

size. Seeds of C.maxima are Aphrodisiac in nature. By comparing morphological and pharmacological properties of *Mishtatumbi* and C. maxima both are same. *Mishtatumbi* is a Sanskrit name for C. maxima.

other one is named as *Katu Tumbi* which is sheet (cold) in property and also have hridya action, suppresses the vitiated *pitta*, *kasahar*, *vishahar* in action. *Mishtaphali*, *raajaputri*, *dugdhini* are the synonyms for it.

Meaning of Synonyms

Katu Tumbi – Bitter in taste, pacifies kaph and pitta dosha and this Alaabu is used for the Vaman action.

Mishtaphali – Fruit having Sweet taste.

Lagenaria siceraria having both edible and wild variety also. Edible variety of L. siceraria having sweet taste (Mishthaphali), and is used as vegetable. Juice of this variety is been consumed by people for many health benefits such as weight loss, to control hypertension. L. siceraria have many shapes and sizes. In Marathi it is called as Dudhi Bhopla because its light green colour and its juice look like milky white in colour. Dugdhini synonym indicates the same properties as that of L. siceraria and except bitter taste, wild variety also shows same morphological characters. Due to bitter taste (Katu-Tumbi), this variety is used as emetic purpose (Vaamak).

Bhaavaprakash Nighantu

Alaabu – Tumbibhedah

Alaabu Kathitaa tumbee dvidhaa deerghaa cha vartulaa |

Madhuraalaabu -

Mishtatumbeephalam hrudyam pittashleshmaapahm guru |

Vrushyam ruchikaram proktam dhaatupushtivivardhanam || (Bha. Pra. Shaak varga 57-58)

Katu-tumbee

Ikshvaakuh katu tumbee syaatsaa tumbee cha mahaaphalaa |

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Katu tumbee himaa vrudyaa pittakaasavishaapahaa |

Tiktaa katurvipaake cha vaatapittajwaraantakrut || (bha. Pra. Shaak varga 58-59)

According to shape, Bhavaprakash quoted there are 2 types of Alaabu as – Dirghaa (long bottle gourd) and Vartulaa (round shaped). According to Bhavaprakash Alaabu is nothing but the type of Tumbi. He also stated about two types of Alaabu as- Madhuralaabu and Katutumbi. Madhuralaabu fruits are sweet in taste, Guru (heavy) in property and have Vrishya (Aphrodisiac), hridya, Dhaatu vardhan (gives strength to muscles and the whole body), Ruchikar (increases the taste) action. It suppresses the vitiated Pitta and Kapha dosha. It has same properties as that Madanpal Nigantu's Mishta tumbi so it can be corelated with Cucurbita maxima.

The other one is *Katutumbi* which have *Sheet*, Hridya (beneficial for heart), pacifies pitta, Kasahar (effective in cough), Vishahar. It is Tikta (bitter) in taste, has Katu (sour) Vipaka. Ikshwaaku, Mahaphala, Tumbi are synonyms for *Katutumbi*. While cutting the fruit it creates a sound "Ikshu". Thus, it is known as Ikshwaku. Acharya Charak entitled a complete chapter "Ikshvakukalpah" in which different formulations of Ikshvaku are mentioned as Vaamak action (Emetic). He mentioned various synonyms as follows- Lamba, Katukalaabu, Tumbi, Pindaphala, Ikshwaaku. Lamba means long in shape and size. English name of L. siceraria is bottle gourd. Katukalaabu is bitter (wild) in taste. Pindaphala denotes the shape of Alaabu. Ikshvaku, Katukalaabu, Katu-tumbi these synonyms gives the idea of its pharmacological properties and considered as wild variety of Alaabu which having Vaamak action. Botanically it may be corelated with Lagenaria siceraria having different shapes and sizes.

Raaj Nighantu

Kumbhatumbee – Alaabubhedah

Gorakshatumbee gorakshee navaalamburghantaabhidhaa |

Kubhaalaamburghantaalambuh kumbhatumbee cha saptadhaa ||

Kumbhatumbee samadhuraa shishiraa pit-tahaarinee |

Guruh santarpanee ruchyaa viryapushtibalapradaa || (Raa. Ni. Mulakaadi varga 162-163)

Ksheeratumbee – Alaabubhedah

Ksheeratumbee dugdhatumbee dirghavrutta-phalaamidhaa |

Ikshvakuh kshatriyavaraa deerghabeejaa mahaaphalaa ||

Ksheerinee dugdhabeejaa cha dantabeeja payasvinee |

Mahaaballee hyalaambujah shramaghnee sharabhumitaa ||

Tumbee samadhuraa snigdhaa pittaghnee garbhaposhakrut |

Vrushyaa vaatapradaa chaiv balapushti vivardhanee || (Ra. Ni. Mulakaadi varga 167-168)

Bhutumbee

Bhutumbee naagatumbee cha shakrachaapasamudbhavaa |

Valmeekasambhavaa devee divyatumbee shadaavhayaa || (Ra. Ni. Mulakaadi varga 167-168)

According to Rajanigantu Kubhatumbi, Ksheertumbi, Bhutumbi are the types of Alaabu.

Kumbha-tumbi

It is Madhur in taste. It pacifies the pitta dosha, have Guru (heavy) property, Santarpan action. It gives strength to body. *Goraksha tumbi, Gorkshi, Navalaambu, Ghanta-Alaabu, Kumbha -Alambu, Ghanta, Alaabu* these synonyms are mentioned in Rajnigantu

Meaning of synonyms –

Kumbh-a tumbi- type of *Alaabu* which is spherical in shape.

Ghanta Alaabu – bell shaped Alaabu

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By considering all the synonyms and other properties of *Kumbha tumbi* it may be Cucurbita maxima or edible variety of Lagenaria siceraria.

Ksheer-tumbi-

According to Rajnigantu, ksheer-tumbi is a type of Alaabu. Synonyms mentioned for ksheer-tumbi are Dugdha-tumbi, Dirghavruttaphala, Ikshwaaku, Kshatriyavara, Dirghabeeja, Mahaaphala, Ksheerini, Dugdhabeeja, Dantabeeja, Payaswini, Mahaballi, Alambuja, Shramaghni, Sharabhumita. It has following properties – Madhur (Sweet) in taste, Snigdha Guna, pacifies pitta dosh, nourishes fetus, Vrishya (Aphrodisiac), and gives strength to the body.

Meaning of synonyms

Dugdha tumbi - Tumbi having milky white colour.

Dugdhabeeja – seeds having milky white colour

Dirghavruttaphala – long bottle shape fruit

Dirghabeeja- long seeds

Dantabeeja – seeds look like teeth

Synonyms of *Ksheer tumbi* gives an idea about its morphology as well as pharmacology which resembles with the properties of Lagenaria siceraria. So this type of Alaabu can be considered as L. siceraria.

Bhu-tumbi-

Naagtumbi, Shakrachapasamudbhava, Valmik-sambhava, Devi, Divya-tumbi, Shadavyay are the synonyms mentioned by Rajnigantu for bhu-tumbi.

Kaiyyadev Nigantu :-

Rajaalaabu

Rajaalaaburmahaatumbee madhuraalaabuni mataa |

Shaakaalaabustumbakah syaad bhak-shaalaaburlaabunee ||

Raajaalaabu gunaah:

Raajalaabu himam ruksham vrushyam vishtambhi vaatalam |

Swaadupaakarasam bhedi kaphapittaharam guru || (Kai. Ni. Oshadhee varga 537-538)

Tumbee shaakam

Tadvat shleshmakarm tumbashaakam guru vishaapaham |

Krumishramaharam graahi himam vaishadyanaashanam ||

Alaabunalikaa (vrunta)

Alaabunalikaa gurvee madhuraa pittanaashinee | Vaatashleshmakaree snigdhaa sheetalaa malabhedinee || (Kai. Ni. Oshadhee varga 540)

According to kaiyyadev Nigantu Rajaalabu and Katutumbi have different properties as-

Rajaalabu, mahatumbi, madhuralaabu, Shakalaabu, tumbaka, Bhakshalaabu are synonyms mentioned by kaiyadev. It is edible variety.

Rajalaabu have Madhur (sweet) taste, Madhur Vipaka, Sheet Virya (potency). Also it is Vrishya (Aphrodisiac), pacifies vata, pitta and kapha dosha, Guru (heavy). It can be used as vegetable. Kaiyyadev stated that Tumbi is vegetable and it is Guru (heavy), aggravates kapha dosh. It removes toxins from body (vishapaham). It have antihelminthic (krumi), stress reliever (shramahar), Anti-diarrhoeal (Graahi) action.

By considering its morphological as well as pharmacological properties it can be corelated with Cucurbita maxima.

Katu tumbee

Tumbee lambaa pindaphalaa raajanyaa prava-raaparaa |

Katu tumbee tikshaabeejaa tiktaalaaburmahaaphalaa || 541||

Raajaputree pindaphalaa dugdhineekaa cha dugdhikaa |

Tumbee tiktaa katuh paake vaamanee vaatapittajeet ||542||

Ahrudyaa sheetalaa kaasashvaasjwaravishaapahaa |

Alaabupatram madhuram pittaghnam mutrashodhanam ||543||

Katu-tumbi, Lambaa, Pindaphala, Raajanyaa, Pravaraparaa, tiktabijaa, tiktalaabu, mahaphalaa, Rajaputri, dugdhinika, Dugdhika are the synonyms for Katu-tumbi stated by Kaiyyadev. It is Tikta (bitter) in taste, Katu Vipaka. It is used for emesis. It suppresses the vitiated Vata and Pitta dosha. Somehow, Bhavaprakash and Kaideva mentioned similar synonyms for Katu tumbi. By considering morphological as well as pharmacological property it can be corelated with L. siceraria.

Leaves of *Alaabu* are *Madhur* in taste. It pacifies *Pitta dosha* and has diuretic action.

CONCLUSION:

Namarupa vigyana is a branch of Dravyaguna vigyana which gives an idea about the morphological characters, utility treatment, place of origin, habitat, historical background of that dravya on the basis of basonyms and synonyms. Botanically Cucurbita maxima and Lagenaria siceraria both can be considered as Alaabu. But Lagenaria siceraria has two varieties as wild and edible. Ikshvaku, Katu tumbi, Katukaalaabu these synonyms of Alaabu are considered for the wild variety of Lagenaria siceraria which is used for the emetic purpose. Some synonyms like Dirghaa, Lamba, Dantabeeja, Dirghabeeja, Dirghavruttaphala, Raajanya, Dugdhini, Ksheerini Ghantalaabu, Gorkshi. Gorkhalaabu can be considere for edible as well as wild variety of Lagenaria siceraria. Whereas Alaabu which is sweet in taste and having Vrishya (Aphrodisiac) action, and also these synonyms as Mishtha tumbi, Vartula, Mahaphala, Rajalaabu, Kumbhalaabu in the literature can be considered as Cucurbita maxima.

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