The Nava Gana System for Classification of Contemporary Talas By Dr. Vinod Vidwans

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[The author of this paper has developed a 'Generative Theory of Indian Music' (GTIM). Following information is based on the excerpts from this theory.]

Nava Gana Classification of Contemporary Talas

The Nava Gana system is developed because it is difficult to properly classify the contemporary Talas as per the traditional norms. The major issue arises due to three or four different traditions of Talas that are prevalent currently in India such as the North Indian Talas, Suladi Sapta Talas, and the Chapu Talas of Carnatic music and the ancient Talas described in treatises. The Nava Gana system accommodates all the existing Talas including ancient, medieval and the contemporary Talas. It synthesizes the traditional Anga system prevalent in Carnatic music with the Vibhaga system of North Indian music seamlessly. The new vocabulary of Tala Bols taking Tabla Bols as the basic units to represent percussion strokes brings in a kind of uniformity across diverse Tala systems prevalent today. This does justice to the temporal aesthetics of Tala as well as the psycho-acoustic aesthetics of Tala.

Following description uses a particular way of representing and describing all the *Talas* including North Indian and Carnatic *Talas*. It uses a sophisticated system developed in Carnatic music for showing *Anga* structure of a *Tala*. For showing the *Anga* structure symbols like 'I', 'O', and 'U' are used. To show *Suladi Sapta Talas* this system is used traditionally. Accordingly, 'I' represents the *Anga* value in terms of number of *Matras* or *Aksharas* and it is variable as per the *Jati/ Gana* of the *Tala*. For instance, *Chatarashra Gana* value of 'I' will be 4 because the number of *Matras* in the *Anga* of a *Chatarashra Gana* is 4, while for *Tryashra Jati/ Gana* the value of 'I' will be 3 for the same reason. Values of 'O' and 'U' are fixed. 'O' and 'U' normally represent the parts of the *Upanga*. 'O' is called *Druta* and it has fixed value of 2 *Matras* or *Aksharas*. 'U' is called *Anudruta* and it has fixed value of 1 *Matra* or *Akshara*. The *Suladi Sapta Talas* are represented in the traditions as follows and this representation is smoothly accommodated in the *Nava Gana* system. *Sapta Talas* are as follows: *Dhruva Tala*-IOI, *Matya Tala*-IOI, *Roopaka Tala* (Carnatic)- OI, *Jhampa Tala*-IUO, *Triputa Tala*-IOO, *Ata Tala*-IIOO, and *Eka Tala* (Carnatic) - I. Same system is adopted to describe a *Tala* under every *Gana* in the following descriptions.

After this information some more specific information about the *Talas* is also provided. It includes the information about the total number of *Matras* in a *Tala*, number of *Vibhagas*, number of *Angas*, number of *Pratyangas*, and number of *Upangas* if any. This is the bare minimum information that is provided about all the *Talas* classified under the *Nava Gana* system. Apart from this information some more additional information about North Indian *Talas* is provided. It covers the structure of the signature *Anga* of a specific *Tala* along with the *Krama* type of the *Pratyangas* and the *Tala Bols*. This information is provided only for North Indian *Talas*. For Carnatic *Talas* this information is not provided because it was felt that

some more research needs to be done in this regard. For the same reason information is not provided about the *Chapu Talas*, 72 *Melakarta Talas* and ancient *Talas*.

Tryashra Gana

North Indian Talas

Tala	Khanda	Ма	Vib	A	Pr	Up	Krama	Signature Anga
Name		tra	ha	n	aty	an		
			ga	g	an	ga		
				a	ga			
Dadara	II (3-3)	6	2	2	1	0	Sarala	[[Sam], [Dha, Dhi, Na]]
							[3]	

Tryashra Gana

Suladi Sapta Talas

Name	Khanda	Matra	Vibhaga	Angas	Pratyanga	Upanga
Dhruva Tala	IOII (3-2-3-3)	12	3	3	1	1
Matya Tala	IOI (3-2-3)	8	2	2	1	1
Roopaka Tala	OI (2-3)	5	1	1	1	1
(Carnatic)						
Jhampa Tala	IUO (3-1-2)	6	1	1	1	2
Triputa Tala	IOO (3-2-2)	7	1	1	1	2
Ata Tala	IIOO (3-3-2-2)	10	2	2	1	2
Eka Tala	I (3)	3	1	1	1	0
(Carnatic)						

Chatarashra Gana

North Indian Talas

Tala	Khanda	Ма	Vib	A	Pr	Up	Krama	Signature Anga
Name		tra	ha	n	aty	an		
			ga	g	an	ga		
				a	ga			
Adda	II (4-4)	8	2	2	1	0	Sarala	[[Sam], [Dha, Dhi, Dhagi,
							[4]	Dhin]]
Dhumali	II (4-4)	8	2	2	2	0	Sarala	[[Sam], [Dhin, Dhin, Dha,
							[2, 2]	Dhin]]
Ekatala	III (4-4-	12	3	3	2	0	Sarala	[[Sam], [Dha, Tirkit, Dhin,
	4)						[2, 2]	Dhin]]

Kerava	II (4-4)	8	2	2	1	0	Sarala	[[Sam], [Dha, Gi, Na, Ti]]
							[4]	
Tilwada	IIII (4-4-	16	2	4	1	0	Sarala	[[Sam], [Dha, Dhin, Dhin,
(Type 1)	4-4)						[4]	Dha]]
Trital or	IIII (4-4-	16	2	4	1	0	Sarala	[[Sam], [Dha, Dhin, Dhin,
Teena	4-4)						[4]	Dha]]
Tala								

Chatarashra Gana

Suladi Sapta Talas

Name	Khanda	Matra	Vibhaga	Angas	Pratyanga	Upanga
Dhruva Tala	IOII (4-2-4-4)	14	3	3	1	1
Matya Tala	IOI (4-2-4)	10	2	2	1	1
Roopaka Tala	OI (2-4)	6	1	1	1	1
(Carnatic)						
Jhampa Tala	IUO (4-1-2)	7	1	1	1	2
Triputa Tala	IOO (4-2-2)	8	1	1	1	2
Ata Tala	IIOO (4-4-2-2)	12	2	2	1	2
Eka Tala	I (4)	4	1	1	1	0
(Carnatic)						

Khanda Gana

North Indian Talas

Tala	Khanda	Ма	Vib	A	Pr	Up	Krama	Signature <i>Anga</i>
Name		tra	ha	n	aty	an		
			ga	g	an	ga		
				a	ga			
Jhampa	II (5-5)	10	2	2	2	0	Anulom	[[Sam], [Dhi, Na], [Dhi, Dhi,
							<i>a</i> [2, 3]	Na]]
Jhapatal	II (5-5)	10	2	2	2	0	Anulom	[[Sam], [Dhi, Na], [Dhi, Dhi,
а							<i>a</i> [2, 3]	Na]]

Khanda Gana

Suladi Sapta Talas

Name	Khanda	Matra	Vibhaga	Angas	Pratyanga	Upanga
Dhruva Tala	IOII (5-2-5-5)	17	3	3	1	1
Matya Tala	IOI (5-2-5)	12	2	2	1	1
Roopaka Tala	OI (2-5)	7	1	1	1	1

(Carnatic)						
Jhampa Tala	IUO (5-1-2)	8	1	1	1	2
Triputa Tala	IOO (5-2-2)	9	1	1	1	2
Ata Tala	IIOO (5-5-2-2)	14	2	2	1	2
Eka Tala	I (5)	5	1	1	1	0
(Carnatic)						

Tryashra Guru Gana

No North Indian Talas for this Gana

Tryashra Guru Gana

Suladi Sapta Talas

Name	Khanda	Matra	Vibhaga	Angas	Pratyanga	Upanga
Dhruva Tala	IOII (6-2-6-6)	20	3	3	1	1
Matya Tala	IOI (6-2-6)	14	2	2	1	1
Roopaka Tala	OI (2-6)	8	1	1	1	1
(Carnatic)						
Jhampa Tala	IUO (6-1-2)	9	1	1	1	2
Triputa Tala	IOO (6-2-2)	10	1	1	1	2
Ata Tala	IIOO (6-6-2-2)	16	2	2	1	2
Eka Tala	I (6)	6	1	1	1	0
(Carnatic)						

Mishra Gana

North Indian Talas

Tala	Khanda	Ма	Vib	A	Pr	Up	Krama	Signature Anga
Name		tra	ha	n	aty	an		
			ga	g	an	ga		
				a	ga			
Dipacha	I (7)	14	2	2	2	0	Anulom	[[Sam], [[Dha, Dhin,
ndi							<i>a</i> [3, 4]	Avagraha], [Dha, Dha, Dhin,
								Avagraha]]
Jhumara	II (7-7)	14	2	2	2	0	Anulom	[[Sam], [Dha, Dha, Tirkit,
							<i>a</i> [3, 4]	Dhin, Dhin, Dhagi, Tirkit]]

Mishra Gana

Suladi Sapta Talas

Name	Khanda	Matra	Vibhaga	Angas	Pratyanga	Upanga
Dhruva Tala	IOII (7-2-7-7)	23	3	3	2	1
Matya Tala	IOI (7-2-7)	16	2	2	2	1
Roopaka Tala	OI (2-7)	9	1	1	2	1
(Carnatic)						
Jhampa Tala	IUO (7-1-2)	10	1	1	2	2
Triputa Tala	IOO (7-2-2)	11	1	1	2	2
Ata Tala	IIOO (7-7-2-2)	18	2	2	2	2
Eka Tala	I (7)	7	1	1	2	0
(Carnatic)						

Chatarashra Guru Gana

North Indian Talas

Tala	Khanda	Ма	Vib	A	Pr	Up	Krama	Signature <i>Anga</i>
Name		tra	ha	n	aty	an		
			ga	g	an	ga		
				a	ga			
Tilwada	II (8-8)	16	2	2	3	0	Anulom	[[Sam], [Dha], [Tirkit, Dhin,
(Type 2)							a [1,3,	Dhin], [Dha, Dha, Dhin,
							4]	Dhin]]

Chatarashra Guru Gana

Suladi Sapta Talas

Name	Khanda	Matra	Vibhaga	Angas	Pratyanga	Upanga
Dhruva Tala	IOII (8-2-8-8)	26	3	3	3	1
Matya Tala	IOI (8-2-8)	18	2	2	3	1
Roopaka Tala	OI (2-8)	10	1	1	3	1
(Carnatic)						
Jhampa Tala	IUO (8-1-2)	11	1	1	3	2
Triputa Tala	IOO (8-2-2)	12	1	1	3	2
Ata Tala	IIOO (8-8-2-2)	20	2	2	3	2
Eka Tala	I (8)	8	1	1	3	0
(Carnatic)						

Sankirna Gana

No North Indian Talas for this Gana

Sankirna Gana

Suladi Sapta Talas

Name	Khanda	Matra	Vibhaga	Angas	Pratyanga	Upanga
Dhruva Tala	IOII (9-2-9-9)	29	3	3	3	1
Matya Tala	IOI (9-2-9)	20	2	2	3	1
Roopaka Tala	OI (2-9)	11	1	1	3	1
(Carnatic)						
Jhampa Tala	IUO (9-1-2)	12	1	1	3	2
Triputa Tala	IOO (9-2-2)	13	1	1	3	2
Ata Tala	IIOO (9-9-2-2)	22	2	2	3	2
Eka Tala	I (9)	9	1	1	3	0
(Carnatic)						

Khanda Guru Gana

No North Indian Talas for this Gana

Khanda Guru Gana

Suladi Sapta Talas

Name	Khanda	Matra	Vibhaga	Angas	Pratyanga	Upanga
Dhruva Tala	IOII (10-2-10-10)	32	3	3	3	1
Matya Tala	IOI (10-2-10)	22	2	2	3	1
Roopaka Tala	OI (2-10)	12	1	1	3	1
(Carnatic)						
Jhampa Tala	IUO (10-1-2)	13	1	1	3	2
Triputa Tala	IOO (10-2-2)	14	1	1	3	2
Ata Tala	IIOO (10-10-2-2)	24	2	2	3	2
Eka Tala	I (10)	10	1	1	3	0
(Carnatic)						

Prakirna Gana

North Indian Talas

Tala	Khanda	Ма	Vib	A	Pr	Up	Krama	Signature Anga
Name		tra	ha	n	aty	an		
			ga	g	an	ga		
				a	ga			

Roopaka	I (7)	7	1	1	3	0	Viloma	[[Sam], [Dha, Dhi, Na], [Ti,
							[3, 2, 2]	Na], [Dhi, Na]]

Prakirna Gana

No Suladi Sapta Talas in the Prakirna Gana