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# Phonological System of Bangla Rahri Upobhasa (Dialect) Found in and around Kolkata Area

**Inzamul Sarkar, MA in Linguistics** 

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#### **Abstract:**

Rahri, a dialect of Bangla language, is considered as the standard dialect of Bangla, in the same way as we consider Khariboli for Hindi. Rahri came into literary use since the early of 20<sup>th</sup> century, and by the beginning of 21<sup>st</sup> century it had become the dominant literary language as well as the standard colloquial form of speech among the educated Bengali. Although there is a good amount of similarity between the written texts and spoken, to a very considerable degree, the spoken form of Rahri variety is quite different from the standard Bangla language. In view of that, this study, as part of a well comprehensive study, aims to establish the Consonantal and Vocalic sound system of Rahri Upobhasa.

**Keywords:** Rahri, Phonemic Inventory, Consonantal, Vocalic, Gemination

#### **Introduction:**

Suniti Kumar Chatterji(1926) divided the Bangla language into four dialects: 'Rarh', 'Bongo', 'Kamrup' and 'Borendro'; later on Sukumar Sen(1939) added an extra one and divided the Bangla language into five: 'Rahri', 'Bongali', 'Kamrupi', 'Borendri' and 'Jharkhondi'. Bangla is spoken in Bangladesh and in West Bengal by 250 million speakers. West Bengal and East Bengal (Bangladesh) dialects are mutually intelligible. However, there are some dialects, for example, Bongali and Kamrupi of Bangladesh, which would not be understood by the speakers of the Rahri dialect in West Bengal. During the standardization of Bangla language in the 18<sup>th</sup> and 19<sup>th</sup> century Rahri was accepted as the standard colloquial dialect of Bangla language, generally spoken in large part of South-West part of West Bengal. This paper presents the phonemic inventory of the Bangla dialect spoken in Kolkata and its surroundings.

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**Location of the Dialect:** 

Rahri is spoken in the districts of North Bengal including Pabna, Bogra, Rajshahi in

Bangladesh. In West Bengal the cultural elite were mostly from the regions

of Kolkata, Hooghly, Howrah, North 24 Parganas and Nadia speak the standard colloquial

Bangla language, termed as Pramita and it is also derived from Rahri.

**Methods:** 

Sound recordings of native speakers of Rahri Upobhasa were made including lists of words

and sentences. Data was recorded by a sound recording program and then transcribed in ELAN.

**2.1.1.** Consonantal Phonemic Inventory:

Rahri dialect has twenty nine oral and nasal consonants of different places and manners of

articulation. With regard to place of articulation, Rahri consonants can be classified into:

bilabial, alveolar, post-alveolar, retroflex, palatal, velar and glottal. For manner of articulation,

Rahri consonants can be classified into plosives, nasals, falp or tap, fricatives, approximants,

and lateral approximants. The following table represents the consonantal inventory of Rahri.

**Table 1: Consonantal Inventory of Rahri** 

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		Bilabial	Dental	Alveolar	Retroflex	Palatal	Velar	Post- Velar
Plosiv	/es							
	Voiceless							
	Unaspirated	p	ţ		ţ	c	k	
	Aspirated	p <sup>h</sup>	<u>t</u> h		ţh	C <sup>h</sup>	k <sup>h</sup>	
	Voiced							
	Unaspirated	b	₫		ģ	J	g	
	Aspirated	b <sup>h</sup>	₫ <sup>h</sup>		ģ <sup>h</sup>	$\mathfrak{J}^{\mathrm{h}}$	g <sup>h</sup>	
Nasal		m		n			ŋ	
Flap or Tap				r	τ			
Fricative/Spirants				S		ſ		h
Lateral				1				

# 2.2.1. Manner of Articulation:

(I) Plosives: Rahri has eighteen plosives in total, eight of which manifest contrast in terms of aspiration. The tongue is positioned in four distinct areas when articulating Rahri plosives; these are: bilabial, labiodental, alveolar, post-alveolar, retroflex, palatal, velar, and glottal. The following list shows Rahri plosives with illustrative examples.

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No.	Sounds	Linguistic Description	Word list	Gloss
1.	/ <b>p</b> /	Voiceless Unaspirated Bilabial Stop	/pa:khi/	bird
2.	/pʰ/ Voiceless Aspirated Bilabial Stop		/phul/	flower
3.	/b/	Voiced Unaspirated Bilabial Stop	/bætha/	pain
4.	/b <sup>h</sup> /	Voiced Aspirated Bilabial Stop	/bha:ri/	weighty
5.	/ <u>t</u> /	Voiceless Unaspirated Dental Stop	/tama/	copper
6.	/ <u>t</u> h/	Voiceless Aspirated Dental Stop	/ <b>t</b> ha:1a/	plate
7.	/d/	Voiced Unaspirated Dental Stop	/dudh/	milk
8.	/dħ/	Voiced Aspirated Dental Stop	/dhan/	paddy
9.	/t/ Voiceless Unaspirated Alveolar Stop		/ta:ka/	money
10.	/t <sup>h</sup> /	Voiceless Aspirated Alveolar Stop		lip
11.	/d/	Voiced Unaspirated Alveolar Stop	/da:l/ pulse	
12.	/ <b>d</b> <sup>h</sup> /	Voiced Aspirated Alveolar Stop	/dha:k/	drum
13.	/c/	Voiceless Unaspirated Palatal Stop	/cosma/	spectacles
14.	/c <sup>h</sup> /	Voiceless Aspirated Palatal Stop	/chotô/	small
15.	/k/	Voiceless Unaspirated Velar Stop	/kibhabe/	how
16.	/k <sup>h</sup> /	Voiceless Aspirated Velar Stop	Voiceless Aspirated Velar Stop /kha:bar/ food	
17.	/g/ Voiced Unaspirated Velar Stop /ga:li/		abuse	
18.	/g <sup>h</sup> /	Voiced Aspirated Velar Stop	/gho:ra:/	horse

(II) Nasal: Rahri has three nasal consonants; a bilabial nasal, alveolar nasal and a velar nasal as shown in the following examples.

No.	Sounds	Linguistic Description	Word list	Gloss
1.	/m/	Voiced Bilabial Nasal	/mon/	Mind
2.	/n/	Voiced Alveolar Nasal	/nodi/	River

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3.	/ ŋ/	Voiced velar Nasal	/siŋhô/	Lion

(III) Flap or Tap: There are two Flap or Tap in Rahri, both are voiced, one alveolar and one retroflex as shown in the following examples.

No.	Sounds	Linguistic Description	Word list	Gloss
1.	/ <b>r</b> /	Voiced alveolar tap	/ra: <u>t</u> /	night
2.	/ɣ/	Voiced Retroflex tap	/pahaʈ/	hill

**(IV) Fricative:** Rahri dialect has three fricatives and all of them are voiceless. The following list exemplifies each of them.

No.	Sounds	Linguistic Description	Word list	Gloss
1.	/s/	Voiceless alveolar fricative	/sa: <u>t</u> /	seven
2.	/ ʃ/	Voiceless palatal fricative	/ʃiʃu/	chid
3.	/h/	Voiceless post-velar fricative	/ha <u>t</u> /	hand

(V) Lateral: Rahri has one lateral sound /l/ as illustrated below:

No.	Sounds	<b>Linguistic Description</b>	Word list	Gloss
1.	/1/	Voiced alveolar lateral	/lal/	red

# 2.2.2. Sound Occurrence of Consonants in Rahri: Initial, Medial and Final

No.	Sound	Initial	Medial	Final
1.	/ <b>p</b> /	/pakʰi/	/kapor/	/sap/
2.	/ <b>p</b> ʰ/	/phul/	/tophat/	/borop <sup>h</sup> /

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3.	/b/	/bæthə/	/lomba/	/sob/	
4.	/b <sup>h</sup> /	/bʰaɾi/	/bibhokto/	/zib <sup>h</sup> /	
5.	/ <u>t</u> /	/tama/	/notun/	/ra: <u>t/</u>	
6.	/ <u>t</u> h/	/thala/	/matha/	/ro <u>t</u> ʰ/	
7.	/ <u>d</u> /	/dudh/	/kada/	/holud/	
8.	/ <b>d</b> ʰ/	$/\dot{q}^{\rm h}$ ən/	/gadha/	/o∫udʰ/	
9.	/t/	/ta:ka/	/bristi/	/pet/	
10.	/t <sup>h</sup> /	/thot/	/cit <sup>h</sup> i/	/ka:t <sup>h</sup> /	
11.	/d/	/dal/	/adda/		
12.	/ <b>d</b> ʰ/	/dhak/	/bôrnadd <sup>h</sup> o/		
13.	/c/	/cosma/	/ũcu/	/k̃ac/	
14.	/c <sup>h</sup> /	/choto/	/pichone/	/mac <sup>h</sup> /	
15.	/k/	/kibhabe/	/taka/	/b̃adik/	
16.	/k <sup>h</sup> /	/kʰabar/	/kokhon/	/ak <sup>h</sup> /	
17.	/g/	/gali/	/sugondho/	/rag/	
18.	/gʰ/	/ghota/	/agʰat̪/	/meg <sup>h</sup> /	
19.	/m/	/mas/	/kamṛanô/	/gorom/	
20.	/n/	/nak/	/zana/	/agun/	
21.	/ ŋ/	×	/siŋho/	/eboŋ/	
22.	/r/	/ra: <u>t</u> /	/bristi/	/tomot/	
23.	/ʊ/	×	/kamṛano/	/pahat/	
24	/s/	/sa: <u>t</u> /	/bristi/	/toktobos/	
25.	/ֈ/	\lot\	/dorja/	/sobuJ/	
26.	/ <b>J</b> h/	/Jhop/	/bojhapora/	/sãjʰ/	
27.	/h/	/hat/	/loha/	/bah/	

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28.	/ <b>ʃ</b> /	/ʃiʃu/	/kaʃpʰul/	/bikaʃ/
29.	/1/	/lebu/	/patla/	/cul/

#### 2.3.1. Minimal Pairs in Consonants:

Aspiration and Voicing are two distinctive features in Bengali consonants. We will look for the minimal pairs representing consonantal contrastive segments below:

b and bh: /basa/ (abode) and /bhasa/ (float)

#### • Bilabial Plosive:

Symbol	Sound
p	Voiceless, Unaspirated Bilabial
$p^{\rm h}$	Voiceless, Aspirated Bilabial
b	Voiced, Unaspirated Bilabial
$b^{\rm h}$	Voiced, Aspirated Bilabial
	Minimal Pairs: p and ph: /pat/ (jute) and /phat/ (fracture)

#### • Palatal Plosive:

Symbol	Sound
c	Voiceless, Unaspirated Palatal
$c^{h}$	Voiceless, Aspirated Palatal
J	Voiced, Unaspirated Palatal
J h	Voiced, Aspirated Palatal

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**Minimal Pairs:** c and  $c^h$ : cal and  $c^h$ hal, j and  $j^h$ : jal and  $j^h$ al

#### • Velar Plosive:

Symbol	Sound
k	voiceless, unaspirated velar
$k^{\rm h}$	voiceless, aspirated velar
g	voiced, unaspirated velar
$g^{ m h}$	voiced, aspirated velar

Minimal Pairs: k and kh: kal and khal, kobôr and khobôr

g and gh: gas and ghas, ga and gha

# 2.4. Consonant Clusters:

Consonant clusters occur either at the initial or at the middle position of words in Rahri dialect. They never occur at the final position, whenever words end with consonant cluster will automatically followed by the inherent vowel ô.

# 2.4.1. Initial clusters

No.	Clusters	Words	Meaning
1.	/dr/	/dɾirô/	firm
2.	/t̪r/	/t̪ribʰuɟ/	triangle
3.	/kr/	/kriʃok/	farmer
4.	/ʃr/	/ʃroddٍʰa/	reverence
5.	/ml/	/mlan/	pale

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6.	/gr/	/grônthi/	glands
7.	/st/	/stor/	layer

# 2.4.2. Medial Clusters

No.	Clusters	Words	Meaning
8.	/ntr/	/jontrô/	machine
9.	/n <b>d</b> /	/dondô/	conflict
10.	/ntৄ/	/ontor/	heart
11.	/ndٍʰ/	/ondٍ <sup>h</sup> ô/	blind
12.	/rkʰ/	/muɾkʰô/	fool
13.	/r <b>ď</b> /	/sordi/	cold
14.	/ rtٍ/	/gor <b>t</b> ô/	hole

Final consonants are very much rare in Rahri dialect of Bengali. In some other dialects, for example, in some Eastern dialects, final consonant clusters including nasal and its counterpart oral stop occur frequently. The word /cand/ of Eastern dialect becomes /cad/ in Rahri with nasalized vowel in the place of final cluster.

# 3.1. Vocalic Phonemic Inventory:

The Rahri vocalic system has seven pure vowel phonemes. The system can be represented as follows.

**Table 2: Vocalic Inventory of Rahri:** 

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Vowels	Front	Central	Back
High	i		u
High-Mid	e		0
Low-Mid	æ	Э	
Low		a	

The following are Rahri lexical items containing Rahri vowels.

No.	Sound	Linguistic Description	Word	Gloss
1.	/ <b>i</b> /	high front unrounded vowel	/bristi/	Rain
2.	/e/	mid front unrounded vowel	/ekti/	One
3.	/æ/	low front unrounded vowel	/bætha/	Pain
4.	/a/	low central unrounded vowel	/das/	Slave
5.	/ɔ/	Low-mid central rounded vowel	/ də]/	Ten
6.	/o/	mid back rounded vowel	/ <b>d</b> oʃ/	Fault
7.	/u/	high back rounded vowel	/buri/	old woman

#### **Nasalization:**

Each of the above oral vowels has its corresponding nassalized form, /i/-/i/, /e/-/e/, /e/-e/, /e/-

Here are some examples for minimal pairs based on nasalization:

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No.	Sound	Word	Meaning	Word	Meaning
1.	/i/-/ĩ/	/chit/	printed cloth	/c <sup>h</sup> ĩţ/	Eccentric
2.	/e/-/ẽ/	geo	singer	gẽo	Rustic
3.	/æ/-/ <b>æ/</b>	/ţækô/	bald headed	/ tæ̃kô/	Corner of a Sari (a kind of dress for women)
4.	/a/-/ã/	kada	clay	kãḍa	Weep
5.	/ɔ/-/ɔ̃/	boti	pill	bõti	Instrument for cutting fish
6.	o/-/õ/	p <sup>h</sup> ota	bloom	p <sup>h</sup> õta	Droplets
7.	/u/-/ũ/	kuri	twenty	kũri	Bud

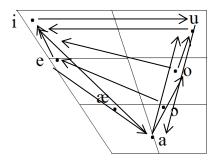
(Kostic & Das, 1972, p. 34)

# **Vowel Length:**

Although all the vowels of Bangla can be short or long, vowel length is not considered to be phonemic in Bangla. (Kostic & Das: 1972)

For example, /raːt/ and /rat/ both convey the same meaning i.e. night irrespective of different vowel length.

#### **Diphthongs:**



The exact number of Bangla Rahri diphthongs is still a matter of debate. However, in our research we have find 12 but obviously this is not exhaustive list. The vowels in Bangla

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diphthongs are usually of equal length, so that each individual member of the pair is pronounced with same audibility.

	Glides	Diphthongs	Word	Meaning
1.	Towards front-close	/ai/	/ai/	come
2.	Towards central-open	/ea/	/khea/	boat
3.	Towards central-open	/ua/	jua	gamble
4.	Towards front-close	/ɔi/	bəi	book
5.	Towards back-close	/ɔu/	bou	bride
6.	Towards back-close	/au/	k <sup>h</sup> au	eat
7.	Towards back-middle	/io/	/dio/	give
8.	Towards back-middle	/ao/	/ɟao/	go
9.	Towards back-close	/iu/	/ʃiuli/	a kind of flower
10.	Towards front-close	/oi	/oi/	that
11.	Towards front-close	/ei/	/nei/	hasn't
12.	Towards front-close	/ui/	/sui/	needle

# **Syllable Structure:**

A vowel can form a syllable of its own but consonants need vowels to form a syllable.

Single syllable can have the following sound sequences:

No.	Word	Meaning	Syllabic Structure
1.	e	this	V
2.	æk	one	VC

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3.	ca	tea	CV
4.	kaj	work	CVC
5.	gʰran	smell	CCVC
6.	stri	wife	CCCV

Two syllable words can have the following sound sequences:

No.	Word	Meaning	Syllabic Structure
7.	/agun/	fire	V-CVC
8.	/Jama/	shirt	CV-CV
9.	/moron/	soft	CV-CVC
10.	/ɟoŋgol/	jungle	CVC-CVC

There are some longer compound words found in Rhahri which have more than four or five syllables. Here are some examples of such words:

No.	Word	Meaning	Syllabic Structure
11.	/apadomostok/	cap-a-pie	VCV-CV-CVC-CVC
12.	/kiŋkortobbôbimur/	deflector	CVC-CVC-CVC-CV- CVC
13.	/oporibortoniota/	constancy	V-CV-CV-CVC-CV-V- CV
14.	/samonJossopurnô/	compatible	CV-CVC-CVC-CV-CVC-CV

# **Discussion and Conclusion:**

The major findings of the study can be summed up in the following ways. The Bangla Rahri phonemic inventory is made up of thirty six speech sounds, twenty nine consonantal and seven

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vocalic. Out of the twenty nine consonants eighteen are plosives, three nasals, two flaps, three fricatives and one lateral. With regard to place of articulation, there are five bilabials, four dentals, four alveolar, six retroflexes, five palatals, five velars and one post-velar. Final consonant clusters are absent in the Bangla Rahri Upobhasa. It is expected that this well comprehensive work would help to future researcher in further research in the particular dialect.

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Inzamul Sarkar
Department of Linguistics
Aligarh Muslim University, Aligarh
Aligarh-202002, India
Email: inzamulsarkar26@gmail.com

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Contact no. (+91)-9634426677