### ECHO-FORMATION IN GTA?

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Gta?, also known as Dideyi, is a South Munda language spoken by some 3,000 people living in the district of Koraput in Orissa. A characteristic feature of this language is the use of echo-words, particularly in the speech of women. This paper gives an analysis of one class of Gta? echo-words, namely those phonologically derivable from their base words, and offers a set of rules governing their formation. Also discussed are the function of the various types of echo-words on the semantic level, their grammatical position, and their relationships in neighbouring languages.

## Rules of Formation

- $Rule\ 1$ . Echo-words are formed by changing only the vowels of the base word.
- Rule 2. The echo-word must differ from the base word. The vowel of univocalic base words is reflected as either /a/ or /i/ in the echo-word. For base-word /u, e, o/ the vowel /a/ is preferred, while for base-word / $\epsilon$ / the vowel /i/ is preferred.
- $Rule\ 3.$  The vowels of disyllabic base words are reflected in the echo-word as follows:
  - a. Both vowels are reflected as either /a/ or /i/: or
  - b. Only one of the base-word vowels is reflected as /a/ or /i/ while the other is reflected unchanged; or
  - %. The first vowel (V $^1$ ) changes to /u/ while the second (V $^2$ ) changes to /a/.
- $Rule\ 4.$  In the case of trisyllabic base words, one, two or all three of the vowels (in adjacent

llables) are reflected as either /a/ or /i/.

 $Rule\ 5.$  The echo-forms of compound words, respective of their vocalic structure, are derived follows:

- a. In the case of compound verbs consisting of two verb stems, one or both stems undergo change, depending on their relationship with each other;
- b. Nominal combining forms occurring with verb stems change independently; those attached to noun stems change only at par with the main stem.
- c. In verbal constructions incorporating a prefix, both the prefix and the stem change as a unit.

tes on the Rules

Rule 1.

In only one case, kuma-cuma, do we find at the echo-form cuma is apparently derived from ma 'to bathe' by change of consonant. Here, hower, cuma is to be treated as a tag-word rather than a phonologically derived echo-word.

Rule 2.

Diphthongs are reduced as follows: /ua/ /i/, /ue/ > /i/ or /a/, /ui/ > /a/, /ia/ > /i/, e/ > /a/. Examples:

```
'basket'
a > i
          qna?
                            > ani?
          miã
                  'blood'
                            > m i î
          nswa
                  'spade'
                            > nsi
                  'name'
i > a
          mni
                            > mna
                  'louse'
          qsi
                            > asa
u > a/i
          qsu?
                  'dog'
                            > gsa? / gsi?
                  'pig'
          gbug
                            > gbag / gbig
e > a/i
          sle
                  'work'
                            > sla / sli
          bcwe?
                  'tama-
                            > bca? / bci?
                   rind'
                  'road'
          luen
                            > lan / lin
o > a/i
          tbo?
                  'earth'
                            > tba? / tbi?
          mmon
                  'uncle'
                            > mman / mmin
```

```
ε > i
                'chick- > gsin / (gsan)
        gsεŋ
                 en t
                'rope'
         ghε?
                         > ahi?
```

By this rule, disyllabic base words may

Rule 3.

ing table.

Class 6:

correspond to as many as seven different types of echo-words: (1) CaCa, (2) CiCi, (3) CVCa, (4) CVCi, (5) CaCV, (6) CiCV, and (7) CuCa. These types are illustrated by the twenty-five examples in the follow-

As is shown in the table, all possible echoforms are permitted under classes 1, 2, and 5; under classes 3, 4, 6, and 7, on the other hand, there are restrictions with regard to some forms. In these excluded cases the quality and sequence of vowels in the base word do not allow the expected alternation for the formation of echo-words of a given pattern.

these restrictions follows (the symbol x = "does notbecome"). (a)  $V^2$  high x /a/ when  $V^1$  is /i/ (cf. items Class 3: 1 and 2).

A statement giving the phonological background of

- (b)  $V^2$  high front x /a/ when  $V^1$  is mid (cf. 11 and 16).
- (c) Vowel harmony blocks change (cf. 13, 14, 18, 19). (a)  $V^2 \times /i / \text{ when } V^1 \text{ is } /a / \text{ (cf. 22, 23, })$
- Class 4: 24, 25). (b)  $V^2$  u x /i/ when  $V^1$  is back (cf. 7, 17).
  - (c)  $V^2$  e x /i/ when  $V^1$  is /o/ (cf. 18).

14, 18, 19). (b)  $V^1$  mid  $\times$  /i/ except when it is back and  $V^2$  is low (cf. 12, 13, 14, 15, 17, 18, 19).

(c)  $V^1$  u x /i/ when  $V^2$  is front mid (cf. 8)

(a) Vowel harmony blocks change (cf. 7, 13,

- ass 7: (a)  $V^1$  a x /u/ when  $V^2$  is back of (cf. 22, 24).
  - (b)  $V^1$  i x /u/ except when  $V^2$  is back of (cf. 1, 3, 5).
  - (c)  $V^1$  mid x /u/ except when  $V^2$  is /u/ (cf. 11, 13, 14, 15, 16, 18, 19, 20).

By this rule, echo-words corresponding to

Rule 4.

isyllabic base words fall into twelve types:

(a) CaCaCa, (2) CiCiCi, (3) CaCaCV, (4) CiCiCV,
(b) CVCaCa, (6) CVCiCi, (7) CaCVCV, (8) CiCVCV,
(c) CVCaCV, (10) CVCiCV, (11) CVCVCa, and (12) CVCVCi.

(c) cnce there are not a great many trisyllabic words in the language, these types may be illustrated with a law examples. The restricted cases (marked as -) how the same phonological conditions as in the case

Rule 5.

disyllabic words.

Morphology and semantics also play a considerable role in the echo-formation of compound ords. While the same phonological rules govern the erivational process in these cases, application of mese rules is directed to each component rather than to the whole compound. Hence compound base words cometimes have partial echo-words.

a. Verb stems compounded together now two types of relationship to one another:

1) the two stems may be main verbs occurring in equence, or (2) one stem may be a main verb while he other is a subsidiary employed for some modifiation of the meaning. In echo-formations from ompounds of the first type both verb stems may hange independently; in those from compounds of the econd type the main verb alone can have an echo-form, he subsidiary verb not changing independently of the ther member. Examples (following page).

Echo-Word\*

	:		
	:	>	
	Ċ	200	
		-	
	:	_	
		_	

Ca	
	meat

young man

ngire

cimur

horn mango

pog

kitoŋ

CVCa

þΨ

part of loom pure (water)

gendre

12. 13. 14.

selro

wrapper

kesu

merin

parakeet

horl13

gir1

sela

spine

tõkur

hunchback

bedbug ch1111

10.

to meet

pit

diran uli kuru kure? kupro kuka

						He as
use; -	+ = fn	base word;	bw = ba	iations:	Note the following abbreviations:	Note th
	•					
	,					
рм	ı	þм	+	ρM	wooden seat	bala
ρM	1	=	+	+	fish	ha?do
ρM	1	<b>;</b> ;	+	+	moom	harke
рм	1 9	ii	+	+,	leaf	pałdu
рм	Ъw	H .	+	+	flower	sari
T .	+	ρM	+ 1	+	mountain	konda
+ ,	+	1 :	+ 7	+	necklace	tohõ
+	1 -	1 .	+	+ 1	rice (cooked)	e l e
CaCV	CVC1	CVCa	Cici	CaCa		CVCV
,	r	า	7	T		

18. 119. 20. 21. 22. 23. 24. = not in us

10 11	- = bw	= 6 = 1	+ =5 .	= 2 -	= 6 = 5	= 6 = 5	1	
6	= bw	" E	= bw	+	= bw	=bw	+	
8	+	+	+	= bw	+	1	ı	
2	= b w	= 1	= 3	+	33	33	+	
9	1	1	+	= 2	+	+	+	
5	= b w	Ti o	+	+	+	+	1	
4	+	= 2	+	= 2	= 2	= 2	+	
<b>69</b>	= bw	=bw = 2	+	+	+	+	+	
87	+	+	+	+	+	+	+	
1	=bw	+	+	+ 1	+	+	+	
Meaning	dn	priest	scorpion	a bat	crocodile	free drink	rope-hanger	
Base-word	aratra	palasi	ngomare	picoŗi	mosali	sewari	onoro	

+ 0, 0, 0, 1

```
ype 1: gu?-teg 'to pull and break' >
               gu?-tag, gu?-tig, ga?-tag, ga?-tig,
               gi?-tag, gi?-tig, ga?-teg, gi?-teg.
        ha?-pia? 'to bite and tear' >
               ha?-pi?, hi?-pi?, hi?-pia?.
        jog-tlak 'to pick up and throw' >
               jog-tlik, jag-tlak, jig-tlik, jig-tlak.
"ype 2: gwe?-we 'to die away' >
               ga?-we, gwe?-ga?-we.
        ria-bi? 'to heat water to give' >
               ri-bi?, ria-ri-bi?.
        ran-wig 'to bring home' >
               ran-wag, rin-wig, ran-rin-wig.
               b. Nouns in Gta? ordinarily have two
orms, one a free full form, the other a bound short
form. These latter occur only when the noun is
compounded with some other stem for derivational courposes, and are hence labeled "combining forms".
combining forms occurring with verb stems can be
choed independently of the verb stems; those occur-
ing with noun stems either remain intact or change
at par with the main stems. Examples:
"ype 1: sur-cu 'to fry in oil' >
               sur-ca, sur-ci, sar-ca, sir-ci, sar-cu.
         gag-bo? 'to tie onto the head' >
               gag-ba?, gig-bi?, gag-bi?, gig-ba?,
               qiq-bo?.
        tur-tia 'to graze cattle' >
               tar-ti, tir-ti, tar-tia, tir-tia.
'ype 2: kula-re 'kinsman' >
               kala-re, kili-re.
         sari-ja 'paddy flower' >
               sara-ja, siri-ji, siri-ja.
```

bara-ko 'peacock feather' >
 bara-ka, biri-ki, biri-ko.

ull-so 'mango wood' >
ala-sa, ili-si, ala-so, ili-so.

hun-be 'baby bear' >
han-ba, hin-bi, han-be, hin-be.

c. Inflectional and derivational prefixes--such as the pronominal prefixes /-na-/ 'you (sg.)', /-pa-/ 'you (dual)', /-pe-/ 'you (pl.)', the causative /a?-/, the reciprocal /ho-/, and the indicator of the plurality of the object, /ma-/-- change along with the verb stem in its echo-formation. Examples:

pe andi pe-we pa-we la 'Wherever you all go and so forth'.

a?con-i?cin 'to feed and the like'.

ho-t(m)ia-hi-t(m)ia 'to collide with each other, and so on'.

me bole cili ma-con mi-cin ce 'He is eating rice and meat together etc.'  $\mbox{}^{\mbox{\tiny t}}$ 

### Semantic Functions

The Gta? echo-word broadly designates thing, manner, quality or action of a general nature in relation to the specific idea of the base word. However, any given base word may have a number of echo-words and each type of echo-form may entail a different shade of meaning, however vague or marginal that may be. From the semantic point of view, the types of echo-forms derivable from one base form can be grouped into four broad categories:

- a-forms, indicating gross variety;
- i-forms, indicating diminutive or tender variety;
- u/a-forms, indicating variety different from a related category;

- partially changed forms, indicating inferior variety:
  - a. a-forms, indicating grossness;
  - i-forms, indicating tenderness.

While this type of classification on semantic grounds cannot be followed rigidly in all cases, it is nevertheless found to hold good in exemplary cases such as the base word kiton 'god'. The Gta? pantheon incompasses a number of gods, spirits, and other supernatural beings, all belonging to various classes and subclasses according to their appearance, powers, and activities. In each case the echo-forms of kiton indicate the specific class:

- katan 'supernatural being with powers equal to those of a kiton', for example a benevolent ghost.
- kitin 'supernatural being smaller and weaker than a kiton', for example a minor deity.
- kitan or katon 'supernatural being inferior in status to a kiton', for example a bad ghost.
- kutan 'supernatural being other than a kiton', including spirits, ghosts, and the like.

Another example is kesu 'wrapper'. This is a iece of thick cloth of a particular size and texture, sed to protect the body from cold. Other familiar rticles, similar to the kesu in form and function, are distinguished from it by echo-forms. Thus:

kasa 'any kind of cloth equivalent to the kesu in size and texture'.

kisi 'small or thin piece of cloth'.

- kesa or kasu 'a large piece of thick cloth, torn and worn out, serving as a kesu'.
- kesi 'a small piece of thin cloth, torn and worn out, serving as a kesu'.

kusa 'any other material usable against cold'.

In the same way the echo-words of bole 'rice' denote other foods:

- bala 'foodstuffs capable of constituting a main dish', such as millet gruel.
- bili 'snacks' and the like not constituting staple food.
- bale 'any type of food not made of grain', as tubers and mango-stones.

It must be noted that, regardless of the difference between a-forms and i-forms on the semantic level, the latter always find first preference in the speech of women. This circumstance only corroborates our classification, since i-forms connote smallness or tenderness, qualities characteristic of women's speech in many cultures.

# Tag-words and Repeated Words

Echo-words have nearly the same syntactic functions as tag-words. Semantically, the difference between them is that the latter refer to objects or actions of a nature similar to the base words from which they are derived, whereas the former denote objects or actions of a general nature. Perhaps because echo-words express only vague generality, tag-words are of more frequent occurrence. Thus it is always found that when a question is put with an echo-word the answer is given with a tag-word. In enquiring about the mobility of an invalid, for example, if one asks me olen-ilin ke 'Has he started to walk and the like?', the reply is me olen-dalia ke 'He has started to walk and wander about'--never mε olen-ilin ke. Similarly if the question is me bog-bag ke 'Did he beat [someone] or do things like

at?', the reply is me bog ke 'He beat...' but not bog-bag ke.

Tag-words are generally synonyms, antonyms, rrelative terms, or even meaningless ancillaries. most cases some sort of phonetic similarity can be cognized between them and the base word. A few camples are:

ndia?-sua 'water and fire' konda-bri 'mountains and forest' kiton-dewar 'gods, etc.' g-har-g-ta? 'Dom and Dideyi people' 'affliction and relief' lage-sare kia-ũhuã? 'paddy and millet' 'twigs and the like' pa?ru-krε lpo-lcir 'soft, etc.'

In contrast, repeated words have altogether ifferent semantic functions. These words contain he additional connotation of plurality and absolute sclusiveness. Thus dokra dokra we ge 'Only the old ersons went', me cili cili con ke 'He ate only the eat portion', me gali gali olen ke 'He wandered on he streets only', me olen olen we ke 'He went on bot only'.

## rammatical Position of Echo-words

Echo-words belong to the same form-class as heir base words. When they occur with nouns and erb stems, inflectional affixes are added finally the compound stem. Examples:

con 'to eat' > con-can-e 'He will eat and the like'.

ko 'to sit' > ko-ka ce 'after sitting,

In past-tense constructions echo-words occur only in interrogative sentences. The reason for this restriction seems to be that echo-words indicate a sense of vagueness and uncertainty, whereas past-tense constructions indicate specific actions known to have been performed. For the same reason there can be no imperative construction with echo-words.

## Echo-formation in Neighbouring Languages

Gta? echo-formation shows some striking similarities with echo-formation in neighbouring Munda languages such as Remo and Gorum as well as in the Desia
dialect of Oriya spoken in the Koraput Munda region.
The most conspicuous feature they have in common with
Gta? is that echo-words in all three of these languages are also derived from base words by changes in
the vowels alone. However, the vowels of base words
in Remo, Gorum and Desia do not change in as many
alternative ways as they do in Gta?, and a given base
word does not seem to have more than one echo-form.
The following types of vowel change are to be observed

### Remo

- a. All vowels change to either /a/ or /i/;
- b.  $v^1 > /u/, v^2 > /a/;$
- c.  $v^2 > /a/$  or /i/,  $v^1$  remains intact.

These changes are exemplified by the following:  $^{3}$ 

Type a:

to /a/:

Vowels in the following sequences change

```
'kebra'
                       >
                           kakap
     e - e
              kekep
                                     'bird'
     i - i
              piri?
                           para?
                       >
                                    'kotri deer'
                            salap
              sulup
                       >
                                     'man'
              remo
                            rema
     e - ɔ
                       >
                                     'dog'
              guso?
                           qasa?
     u - o
                       >
                                     'goat'
     i - e
              gime?
                            gama?
                       >
             in the following sequences change
     Vowels
                                     'kangu grain'
                            irin
              ၁၂၁၅
                       >
                                     'cital deer'
                            ilim
     e - a
              elam
                       >
                                     'mandia millet'
                            si?mi
     a - e
              sa?me
                                     'biri pulse'
                            rimig
              rumag
                       >
     u - a
Type b:
                                     'tree'
              semuk
                            sumak
     e - u
                       >
              keron
                            kuran
                                     'paddy'
     e - ɔ
                       >
Type c:
     v^2 /i, o/ > /a/; v^2 /a/ > /i/ in the
```

ollowing sequences:

### Gorum

All vowels change to either /a/ or /i/;  $v^1 > /u/, v^2 > /i/.$ ъ.

hese changes are exemplified by the following: $^{\mathsf{5}}$ 

# Type a:

o /i/:

## Desia

a. The vowel of univocalic verb roots changes as follows:

b. The vowel of univocalic noun stems having the pattern  $\text{C}^1\text{V}^x\text{C}^2$  changes to /u/, and /a/ is added finally to the echo-form.

c. The vowels of disyllabic words change

These changes are exemplified by the following:

# Type b:

		φοΙ	>	<b>ḍul</b> a	'drum'
		jor	>	jura	'fever'
		mac	>	muca	'fish'
Туре	c:				
	(1)	pila	>	pili	'child'
		kumḍa	>	kumdi	'pumpkin'
		mera	>	meŗi	'post'
		coța	>	coţi	'lame'
		gornđa	>	gərndi	'rags'
	(2)	bana	>	buni	'loincloth'
	(3)	sili	>	sula	'wheel'
		celi	>	cula	'goat'
		jõtu	>	jũta	'anîmal'
		poti	>	puta	'book'

pani > puna

On the basis of the above, and since it is found at echo-words in most Dravidian and Indo-Arvan nguages are derived by changing the consonants of e base word, we may suppose that echo-formation by anging only the vowels of the base is an essentially nda feature; and more particularly a feature of the raput Munda languages.

'water'

<sup>1</sup> Gta? materials for this paper were collected in 70-71 from Mr. Dobek Pujari, Mrs. Ratna, and Mrs. suma of Oringi Koraput, while much of the research s supported by a grant from the National Science undation. I am grateful to Dr. Norman H. Zide of e University of Chicago for his many valuable ggestions on earlier drafts.

 $<sup>^2</sup>$ See K. Mahapatra and Norman H. Zide, "Gta? minal Combining Forms," in Indian Linguistics,

 $<sup>^{3}</sup>$ My Remo examples are taken from S. Bhattacharya, Bonda Dictionary, Poona, 1968.

A species of striped cat-like animal.

 $^{5}\mathrm{My}$  Gorum examples are taken from my personal field-notes from Balram Mudli, Semla.

<sup>6</sup>My Desia examples are taken from my own 1970 dissertation on Desia, unpublished.

