On Takeo Dialects of Khmer: Phonology and Word List

MINEGISHI, Makoto University of Tokyo, Graduate School

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0. Introduction

It is generally admitted that the modern Khmer orthography reflects the phonological state of the former standard Khmer. Two sets of initial consonants are assumed from the present orthography; 'aghosa (voiceless)' and 'ghosa (voiced)'. On the other hand, a vowel nucleus is assumed to correspond to each vowel symbol in the orthography. Later, influenced by the contrast of initial consonants, each vowel nucleus split into two nuclei (some vowels split into more than two types due to the differences of some final consonants). Finally, because of the later loss of certain contrasts of the initial and some final consonants, these split-nuclei obtained the phonemic contrast.

Consequently, the modern Khmer orthography, in general, has two letters for a single initial stop, and one symbol for two vowel nuclei; e.g. in case of the standard Khmer, ka and ga for /k/, \bar{a} for [a:] and [eə]. Thus $k\bar{a}$ stands for [ka:], $g\bar{a}$ for [keə] respectively.

In addition to this articulatory differences of vowel nuclei, so-called 'phonation contrast', such as head register for 'aghosa', chest register for 'ghosa', has been observed since Henderson (1952),¹⁾ However, compilers of recent Khmer dictionaries do not seem to agree as to whether they should regard this register contrast as a distinctive feature. According to the author's latest examination (in 1982–84), only few informants have retained such a suprasegmental contrast. Instead, a number of regional varieties in segmental differences, especially in vowel nuclei, are observed.²⁾

As is often the case with language communities where political centralization has not been achieved, the standard Khmer (hereafter ST) is not prevailing in Cambodia. It follows that almost every individual has his own idiolect in this country. This paper deals with the data collected in 1984 in Japan

¹⁾ Henderson, Eugénie J. A. "The main features of Cambodian pronunciation" BSOAS 14, pp. 149-74, 1952.

²⁾ For a survey of Khmer dialects, see Minegishi, Makoto "Modern Khmer Orthography and its Dialects", 'Gengo Kenkyu' No. 88, pp. 41-67, 1985.

from two informants, whose dialects we will call hereafter as TK 1 and TK 2.

place of birth			sex age (in 1984)
***	1 00	TZ1 TO 1 101 .1	1 00

TK 1: Khaet Takeo, Srok Treang, Khum Prei Sloek. male 32 TK 2: Khaet Takeo, Srok Kaoh Ondaet, Khum Prei Khlaa. female 19

The speaker of TK 1 lived in his birthplace for seventeen years and stayed in Phnom Penh for a year, then came to Japan. The speaker of TK 2 also lived in her birthplace for seventeen years and came to Japan by way of Thailand.

Takeo is one of the Cambodian Province (Khaet) located in about sixty-five kilometers south of Phnom Penh. TK 1, TK 2 and Phnom Penh dialect are apparently similar with regard to the fact that we can establish a set of consonant correspondences among them. Furthermore, the same historical change of */r/ into /ĥ/ and the successive development of the tonal contrast are observed in TK1 and Phnom Penh dialect. However as far as the vowel contrasts are concerned, there are striking similarities among TK 1, TK 2, and the northwestern Khmer dialects, such as the ones in Siem Reap and Bat Dambang, the cities which are located about 300 kilometers from Takeo.

The aim of this paper is to elaborate the author's description of Takeo phonological systems in order to show the similarities among these dialects. Since Khmer dialectology is still in its earliest stage, it would be helpful to present the word list together with the phonemic inventory. It should be noted that the English translations given in the word list are presented only for the convenience of the readers who are not acquainted with the Khmer transliteration developed and used by Huffman *et al.* (1978).³⁾

1. Consonants

The phonemic inventory of initial consonants in TK 1 and TK 2 is the same as that in ST, except that $/\hbar/$ in TK 1 is not found in ST. The $/\hbar/$ in TK 1 corresponds to /r/ in ST. There is also /r/ in TK 1 which corresponds to /r/ in ST, but this phoneme can be regarded as a sophisticated pronunciation adopted from the prestigious standard language. Therefore it can be regarded as exceptional.

It should be noted that the $/\hbar/$ is accompanied by a rising-falling tone (/2-3-1/) which contrasts with a normal level tone (/3-3/). The development of the tonal contrast, though it has not yet reached to the stage of being 'phonemic' contrast, could be motivated by the historical change of */r/ into $/\hbar/$ in TK 1. In this respect, TK 1 appears to be related to the neighboring

³⁾ Huffman, F. E. and Proum, Im 'English-Khmer Dictionary' New Haven and London, 1978.

Phnom Penh dialect where, according to Sakamoto (1968),⁴⁾ three-tone system is observed.

As for final consonants in TK 1 and TK 2, k in the present-day orthography corresponds to either one of [c] [?] and [k] according to its preceding vowel. The consonant [c] appears after /ii/, /ee/ and /ae/. The palatalization of */k/ to /c/ is assumed from the orthography, which is due to the assimilation to the front vowels. Note that the palatalization is not exclusive phenomenon in TK 1 and TK 2, but occurred in many other Khmer dialects, including ST. As long as the author has examined so far, /k/ is palatalized into /c/ in the speech of all the subjects.

As is the same as in ST, the reduction of the elements in the first syllable (so-called minor syllable) is common in most of the bisyllabic words; *i.e.*, the loss of the initial, or final consonant, or the vowel in the first syllable.

Furthermore, the phonological changes of some initial consonant clusters occurred in TK 2. Notice that in the following examples, /s/ /c/ /k/, the first element of the cluster, in TK 2 corresponds to /c/ /s/ /t/ respectively in ST.

ST	TK 2
/cb/	/s b /
/cv/	/sv/
/cm/	/sm/
/cr/	/sr/
/cl/	/sl/
/cn/	/sn/
/ck/	/sk/
/sm/	/cm/
/sr/	/cr/
/sn/	/cn/
/sk/	/ck/
/sŋ/	/cŋ/
/tn/	/kn/

These data, as well as the present-day orthography, suggest that the consonant clusters in TK 2 are derived from the consonant clusters of the earlier stage which is assumed to have the same consonant clusters as ST. There are some words which were not subject to such changes. But these exceptions could be explained as the adoption of standard forms. The last correspondence has only one example in the collected data: ST [thnol] and TK 2 [khnol], where aspiration is not phonologically distinctive.

⁴⁾ Sakamoto, Yasuyuki "The standard Khmer language and its Phnom Penh dialect" 'Tônan Ajia Kenkyû' vol. 6–2, 1968.

2. Vowels

The vowel systems in TK 1 and TK 2 are slightly different from each other. However they share some significant characteristics which is common to some of the northwestern dialects. That is,⁵⁾

- 1. Loss of the so-called register contrast.
- 2. Merger of the three front vowels, e_1 , e_2 , and ae_2 in the orthography.
- 3. Merger of the two middle long vowels, oe_2 and y_1 in the orthography.
- 4. Merger of the two back vowels, o_2 and u_1 in the orthography.

It is important to note here that these characteristics are not observed in the dialect of Phnom Penh, even though Phnom Penh is closer to the area where TK 1 and TK 2 are spoken than the northwestern areas of the country.

We tentatively assume that phonological contrast of vowels is as given below. Transliterations are also given in parentheses.

TK	1		ТK	2
Long v	owels	Long vowels		
/ii ii	uu /	/ ii	ii	uu /
ee əə		ee	99	oo /
/ aa	၁၁ /		aa	၁၁ /
Long d	iphthongs	Lor	ng di	phthongs
iə iə	uə	/iə	ŧә	uə /
eə ae	ou		ae	ou /
аә	ОЭ		аә	
ao			ao	1
Short v	rowels	Sho	rt vo	owels
/ i • i	u /	/ i	i	u /
e ə	o /	/ e	ə	o /
/ a	\mathfrak{o}	1 /	a	ɔ /
Short d	liphthongs	Sho	ort d	iphthongs
/ ε a	wo /	/		wo /
/	э ә /	/		
TK	1		тк	2
Long v		Lo		owels
$/ii/=(\bar{\imath}_2)$		/ii/=	-	

⁵⁾ Hereafter, we will attach subscripts 1 and 2 to the vowel symbols in the orthography. The subscript 1 indicates that the vowel symbol co-occurs with the so-called 'aghosa' (voiceless) letters, and the subscript 2 with the 'ghosa' (voiced) letters. In case a vowel symbol always stands for a single vowel nucleus, no subscript is added to the vowel symbol.

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/ee/=(e_1; e_2; ae_2)
                                                          /ee/=(e_1; e_2; ae_2)
/\overline{i}i/=(\overline{y}_2)
                                                          /\overline{i}i/=(\overline{y}_2)
/\partial \vartheta / = (\overline{y}_1; oe_2)
                                                          /\partial \partial / = (\overline{y}_1; oe_2)
/aa/=(\bar{a}_1)
                                                          /aa/=(\bar{a}_{1})
/\mathrm{u}\mathrm{u}/=(\bar{\mathrm{u}}_2)
                                                          /\mathrm{u}\mathrm{u}/=(\bar{\mathrm{u}}_2)
/33/=(a_1)
                                                          /oo/=(a_2)
                                                          /33/=(a_1)
    Long diphthongs
/i = (ia)
                                                             Long diphthongs
/ea/=(\bar{a}_2)
                                                          /i = (\bar{a}_2; ia)
/i = (\dot{y}a)
                                                          /i = (ar_2; a_2; a_2; a_3, amn_2, ah_2; \dot{y}_2)
/ae/=(ae_1)
                                                          /ae/=(ae_1)
/a = (oe_1)
                                                          /a = (oe_1)
/ao/=(o_1)
                                                          /ao/=(o_1)
/ua/=(ua)
                                                          /ua/=(ua)
/ou/=(\bar{u}_1; o_2)
                                                          /ou/=(\bar{u}_1; o_2)
/o_2/=(a_2; a_2)
                                                             Short vowels
    Short vowels
                                                          /i/=(ih_2)
/i/=(ih_2)
                                                          /e/=(ic_2, ec_2, i\tilde{n}_2, e\tilde{n}_2; e\dot{h}_1, ae\dot{h}_1;
/e/=(ic_2, ec_2, i\tilde{n}_2, e\tilde{n}_2; e\dot{h}_1,
                                                                                  eh_2, aeh_2; ai_2)
             aeh_1; eh_2, aeh_2; ai_2)
                                                          /\dot{i}/=(\dot{y}_2, i_2)
/\dot{i}/=(\dot{y}_2, i_2)
                                                          / \vartheta / = (\tilde{i}_1; \dot{y}_1, \dot{i}_1; ic_1, ec_1, i\tilde{n}_1, e\tilde{n}_1)
/\partial/=(\bar{i}_1; \dot{y}_1, \dot{i}_1; ic_1, ec_1, i\tilde{n}_1,
                                                         /a/=(\hat{a}_1, \bar{a}m\dot{n}_1, a\dot{h}_1, \bar{a}m_1; ai_1, au_1)
             en_1; \bar{u}v_1; au_2)
                                                         /u/=(u_2, áp_2; am_2, um_2)
/a/=(\hat{a}_1, \bar{a}mn_1, ah_1, \bar{a}m_1; ai_1,
                                                         /o/=(u_1; \bar{u}v_1; au_2; um_1)
             au<sub>1</sub>)
                                                          /9/=(a_1; am_1)
/u/=(u_2; am_2, um_2)
/o/=(u_1; um_1)
                                                             Short diphthongs
/9/=(a_1; am_1)
                                                         /\text{wo}/=(\acute{a}_2)
   Short diphthongs
/\epsilon a/=\hat{a}_2, \bar{a}m\dot{n}_2, a\dot{h}_2)
/wo/=(\acute{a}_{2}, oh_{2})
/29/=(\hat{a}_2, \bar{a}m_2)
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It should be noted here that \hat{a}_2 in TK 2 did not split according to its following consonant; while in ST, \hat{a}_2 split into [$\epsilon \bar{\nu}$] and [$\nu \bar{\nu}$]. This is a unique characteristics of the TK 2 dialect.

3. Word list⁶⁾

FRANSLITERATION	TK 1	TK 2	MEANING
l. a ₁			
ka	[kɔ:]	[kɔ:]	neck
kra	[khɔ:]	[krɔ:]	poor
kraļa	[kəlɔ:]	_	potter
ṭaṃpa	[təbɔ:]	-	four
ta	[tɔ:]	[tɔ:]	to continue
thma	[thmɔ:]	[thmɔ:]	stone
panta	[pətɔ:]	[bonto:]	to continue
lqa	[lə³ɔ:]	[:c ^ç Gl]	good
sa	[so:]	[:ca]	white
par	[bɔ:]	[bɔ:]	to drive
sarasar	[səsə:]	[:cset]	pillar
skar	[skɔ:]	[chkɔ:]	sugar
qaksar	[aso:]	[aso:]	letter
qaṅkar	[ŋkɔ:]	[ɔŋkɔ:]	husked rice
qar	[5:]	[:c ^ç]	glad
kak	[kɔ:ʔ]	[kɔ:ʔ]	to congeal
kracak	[kəcɔ:ˀ]	[kɔcɔ: ^ʔ]	nail
kqak	[k²ɔ:²]	[k²ɔ:²]	to cough
pak	[pɔ: ₅]	[bɔ:ʔ]	to answer
sampak	[səbɔ: [?]]	[s:cdmcs]	skin
kaṅ	[kɔ:ŋ]	[kɔ:ŋ]	wheel
khnaṅ	[khnɔ:ŋ]	[khnɔ:ŋ]	back
khyaṅ	[khcɔ:ŋ]	[khcɔ:ŋ]	shellfish
can	[cɔ:ŋ]	[cɔ:ŋ]	to tie
chlań	[chlɔ:ŋ]	[slɔ:ŋ]	to cross
ṭaṃpaṅ	[təbɔ:ŋ]	[dɔmbɔ:ŋ]	stick
paṅ	[bɔ:ŋ]	[bɔ:ŋ]	elder brother
ṭap	[dɔ:p]	[dɔ:p]	bottle
tap	[tɔ:p]	[tɔ:p]	to answer
kraham	[kəhɔ:m]	[kəhɔ:m]	red
thay	[thɔːi̯]	[thɔːi̯]	to retreat

⁶⁾ An asterisk * in the word list indicates that the word form in TK 1 or TK 2 is an exception to the rules of phonological correspondences between the Takeo dialects, TK 1 and TK 2, and the former standard Khmer assumed from the present-day orthography.

TRANSLITERATION	TK 1	TK 2	MEANING
\mathbf{a}_{2}			
ga	[ko·ɔ]	-	dumb
'nа	[root]	_	curved
janla	[cəloːɔ]		to threaten
ba	[coq]	[po:]	to carry on the hip
la	[c·of]	[lo:]	to try
gar	[ko·ɔ]	[ko:]	kapok
jhar	[cho·ɔ]	[cho:]	to stand up
phgar	[phko ⁻ 2]	[phko:]	thunder
bhar	[crodq]	[pho:]	to tell a lie
var	[c.o <i>n</i>]	[vo:]	to spoil
sgar	[sko·ɔ]	[sko:]	drum
babak	[pəpoɔk]	[pəpo:k]	cloud
mak	[ma·o]	[mao]	to come
yak	*[jo [,] 2]	*[jo:]	to take
rak	*[c·od]*	*[ro:]	to look for
ralak	[alook]	[lɔlo:k]	wave
jralaṅ	[cəloɔŋ]	_	valley
ban	[boɔù]	[po:ŋ]	egg
raṅ	[ficon]	[ro:ŋ]	to support
grap	[kĥoɔp]	[kro:p]	to cover
bram	[phoom]	[pro:m]	to agree
sgam	[skoom]	[sko:m]	thin
ray	[icod]	[ro:i̯]	a hundred
3. á ₁			
krakhvák	[kəkhʊɔˀ]	[krɔkhʊɔˀ]	dirty
pák	$[p_{2_{5}}]$	[bɔˀ]	to fan
sák	[sɔ²]	[sca]	hair
qākrák	[a:krɔˀ]	[a:krɔˀ]	bad
cán	[cɔŋ]	[cɔŋ]	to want
trán	[thoŋ]	[thoŋ]	straight
thán	[thoŋ]	[thoŋ]	bag
thlán	[thloŋ]	[thloŋ]	deaf
klás	[khlɔh]	_	parasol
rapás	[ləbɔh]	[rɔbɔh]	thing
qás	[roh]	[roh]	all
koḥ	[kɔh]	[kɔh]	island
canloh	[cənləh]	[cɔnlɔh]	interval

TRANSLITERATION	TK 1	TK 2	MEANING	
ţoḥ	[dɔh]	[dɔh]	breast	
poḥ	[bɔh]	[bɔh]	to throw away	
stoh	[sdoh]	[hcba]	to spit	
hát	[hɔt]	[hɔt]	exhausted	
qán	$[nc^{\varsigma}]$	[nc ^ç]	to diminish	
ţáp	[qcb]	[dɔp]	ten	
sqáp	$[qc^{\varsigma}a]$	$[{ m qc}^{ m c}{ m s}]$	to hate	
khyál	[kcɔl]	[kcɔl]	wind	
thnál	[thnɔl]	[khnɔl]	street	
4. á ₂ , oḥ ₂				
jañják	[ncwok]	[concwok]	to suck	
lák	[lwok]	[lwok]	to sell	
khbás	[khpwoh]	[khpwoh]	high	
bás	[pwoh]	[pwoh]	snake	
rás	[rwoh]	[rwoh]	to live	
jhmoḥ	$[{ m chmwoh}]$	[smoh]	name	
jhloḥ	[chlwoh]	[sloh]	to quarrel	
boḥ	[pwoh]	[pwoh]	stomach	
rát	[rwot]	[rot]	to run	
saṃbát	[səpwot]	[sɔmpot]	sarong	
dán	[twon]	[ton]	soft	
dhṅán	[thŋwon]	[thŋon]	heavy	
prabandh	[pəpwon]	[propon]	wife	
randh	[ĥwon]	[ron]	hole	
5. $\mathbf{\check{a}r}_2$				
jăr	[c·oɔ]	[cɨ·a]	sap	
ñăr	[cron]	[6'in]	to tremble	
daṃbăr	[təmpo'ɔ]	[təmpɨˈə]	page	
dharm	[tho ⁻ 2]	[thɨːə]	Buddhist Law	
barņ	[c.od]	[e·ɨq]	color	
bibarņ	[c·oq ^ç iq]	- , '	exhibition	
bhjăr	_	[pcɨːə]	to fix	
rañăr	[ano·ɔ]	[aɲɨːə]	to shiver	
valli°	$[vo \cdot o]$	[vɨ'ə]	creeping plant	
6. ā ₁				
caṅkā	[cəkaː]	[cəka:]	jaw	
phkā	[phka:]	[phka:]	flower	

TRANSLITERATION	TK 1	TK 2	MEANING
snā	[sna:]	[cna:]	bow
smā	[sma:]	[chma:]	shoulder
srā	[sĥa:]	[cra:]	alcohoric drink
kār	[kaː]	[ka:]	work
caṃkār	[cəmka:]	[cəkaː]	field
samrāk	[sɔmraː²]	*[sɔmra [?]]	to rest
khāṅ	[khaːŋ]	[kha:ŋ]	side
kradās	[kəda:h]	[krɔdaːh]	paper
khlāc	[khla:c]	[khla:c]	worried
paṅhāñ	[pəŋhaːɲ]	[boŋhaːn]	to show
pād	[ba:t]	[ba:t]	yes
sqāt	[s ² a:t]	[s ² a:t]	clean
qaṇtāt	[nda:t]	[ɔnda:t]	tongue
crān	[cha:n]	*[cha:n]	to push
pān	[ba:n]	[ba:n]	to obtain
p″onmān	[poma:n]	[poma:n]	how much
slāp	[sla:p]	[sla:p]	wing
chṅāy	[chŋaːi̯]	[sŋaːi̪]	far
phkāy	[phka:i]	[phkaːi̯]	star
kpāl	[kba:l]	[kba:l]	head
srāl	*[sĥæəl]	[sra:l]	light weighted
ţāv	[daːu̯]	[daːɰ]	sword
pāv	[baːu̯]	[baːɰ]	sack made of jute
qāv	[²aːu̯]	[²aːɯ̯]	clothes
7. $\bar{\mathbf{a}}_2$			
jā	[ce·ə]	[ci'ə]	to be
raṇā	[ləŋe [,] ə]	[rəŋiˈə]	cold
lā	[le·ə]	[li [,] ə]	to leave
vā	[ve·ə]	[vi·ə]	he, it
dvār	[thve·ə]	[thvi·ə]	door
vār	$[ve^{}$ e $]$	$[vi\cdot a]$	to crawl
bāky	[peə [?]]	[piə ^ʔ]	word
bāṅ	[peəŋ]	[piəŋ]	jar
lāṅ	[leəŋ]	[liəŋ]	to wash
lṅāc	[ləŋeəc]	[ləŋiəc]	evening
dāñ	[teəɲ]	[tiən]	to pull
jāti	[ceət]	[ciət]	taste
gmān	[khmeən]	[khmiən]	not to be

TRANSLITERATION	TK 1	TK 2	MEANING
ghlān	[khleən]	[khliən]	hungry
mān	[meən]	[miən]	to have
sbān	[speən]	[spiən]	bridge
jamrāp	[cɔmĥeəp]	[cɔmriəp]	to inform
dāp	[teəp]	[tiəp]	low
rāp	[reəp]	[riəp]	level
sdāp	[steəp]	[stiəp]	to search for
jhām	[cheəm]	[chiəm]	blood
mrām	[məĥeəm]	[məriəm]	finger
dūlāy	[təleə <u>i</u>]	[təliəi]	wide
niyāy	*[njai̯]	*[njei̯]	to talk
yāy	[jeəi̯]	*[jai̯]	grandmother
vāy	*[wai̯]	*[wai̯]	to hit
vāl	[veal]	[viəl]	plain
8. $\hat{\mathbf{a}}_1$, $\bar{\mathbf{a}}m\dot{\mathbf{n}}_1$, $\bar{\mathbf{a}}m\dot{\mathbf{n}}_1$			
khvâk	$[khva^{\gamma}]$	[khva [?]]	to lack
câk	[ca [?]]	[ca ⁹]	to sting
ţâk	[da ⁷]	[da ⁷]	to put on
prâk	[pra ⁹]	[pra ⁷]	silver
m″âk	[ma ⁷]	[ma [?]]	friend
kamlāṃṅ	[kəmlaŋ]	[kəmlaŋ]	power
khlāṃṅ	[khlaŋ]	[khlaŋ]	strong
chnāṃṅ	[chnaŋ]	[snaŋ]	pan
chpāṃṅ	[chbaŋ]	[sbaŋ]	to fight
qāṃṅ	[²aŋ]	[²aŋ]	to roast
krâs	[krah]	[krah]	thick
câs	[cah]	[cah]	old
tâs	[dah]	[dah]	to raise
thṁâs	*[thŋa:h]	[thŋah]	forehead
phlâs	[phlah]	[phlah]	to move
khlaḥ	[khlah]	[khlah]	some
sraḥ	[srah]	*[seah]	pond
kâc	[kac]	[kac]	to break
khsâc	[khsac]	[khsac]	sand
sâc	[sac]	[sac]	meat
khlâñ	[khlan]	[khlan]	fat
câñ	[can]	[can]	to lose
	[Caji]	[-0]	1000

TRANSLITERATION	TK 1	TK 2	MEANING
saṃṇâñ	[səmnan]	[sɔmnaɲ]	net
kât	[kat]	[kat]	to cut
pât	[bat]	[bat]	to disappear
satv	[sat]	[sat]	animal
kân	[kan]	[kan]	to hold
câp	[cap]	[cap]	to catch
prâp	[pheap]	[prap]	to tell
samlâp	[səmlap]	[sɔmlap]	to kill
stâp	[sdap]	[sdap]	to listen
qăbd	[ap]	[²ap]	\log
khāṃ	[kham]	[kham]	to bite
cāṃ	[cam]	[cam]	to remember
chnām	[chnam]	[chnam]	year
ñ″āṃ	[nam]	[nam]	to eat
thnāṃ	[thnam]	[thnam]	medicine
prām	[pĥeam]	[pram]	five
stām	[sdam]	[sdam]	right
kap″âl	[kəpal]	[kəpal]	ship
9. $\hat{\mathbf{a}}_2$, $\bar{\mathbf{a}}_{\mathbf{m}_2}$			
gât	[kɔət]	[kɨət]	he, she
dât	[tɔət]	[tɨət]	to kick
dhât	[thɔət]	[thɨət]	fat
mât	[mɔət]	[mɨət]	mouth
jân	[cɔən]	[cɨən]	to step on
mân	[mɔən]	[mɨən]	chicken
grâp	[krɔəp]	[krɨəp]	seed
'nâp	[ŋɔəp]	[ŋɨəp]	to die
ñâp	[qecn]		fast
râp	[qech]	[rɨəp]	to count
nām	[məəm]	[nɨəm]	to accompany
rām	[mech]	[rɨəm]	to dance
thbâl	[thpɔəl]	[thpɨəl]	cheek
bâl	[poəl]	$[\mathbf{p_{i}al}]$	to touch
râl	[hɔəl]	[rɨəl]	every
sgâl	[skɔəl]	[skiəl]	to be acquainted with
10. $\hat{\mathbf{a}}_2$, $\bar{\mathbf{a}}$ m $\hat{\mathbf{h}}_2$, $\hat{\mathbf{a}}$ h $_2$	The state of the s		
trajâk	[təcɛa ^ʔ]	[trɔcɨəˀ]	cool

TRANSLITERATION	TK 1	TK 2	MEANING
dhâk	[thɛaˀ]	[thɨəˀ]	to kick
dhlâk	[thlɛaˀ]	[thlɨəˀ]	to fall
bâk	[pɛaˀ]	$[p_i = 0]$	part
bhñâk	[phɲɛaˀ]	[phnɨəˀ]	surprised
lâk	[lɛaˀ]	[lɨəˀ]	to hide
qnak	*[nɛaˀ]	*[nɨəˀ]	you
jañjāṃṅ	[ɲcɛaŋ]	[ciɲcɨəŋ]	wall
dāṃṅ	[teaŋ]	[tɨəŋ]	all
rā ṃ ṅ	[reaŋ]	[rɨəŋ]	dry
khdaḥ	[khteah]	[khtɨəh]	pan
jhnaḥ	[chneah]	[snɨəh]	to win
phdah	[phtɛah]	[phtɨəh]	house
braḥ	[pĥɛah]	[prɨəh]	saint
raḥ	[reah]	[rɨəh]	to rise
11. i ḥ ₂			
khdiḥ	[khtih]	[khtih]	coconut milk
jiḥ	[cih]	[cih]	to ride
jriḥ	[crih]	[crih]	to brush past
mlih	[məlih]	[mə $lih]$	jasmine
riḥ	[rih]	[rih]	to think
viḥ	[vih]	[vih]	almost
neḥ	*[nih]	*[nih]	this
12. ī ₁			
ktī	[kdəi̯]	[kdə $i]$	legal case
khcī	[khcəi̯]	[khcəi̯]	young
khñī	[khɲəi̯]	[khɲəi̯]	ginger
khlī	[khləi̯]	[khləi̯]	short
chī	[chəi̯]	[chəi̯]	to eat
ţī	$[\mathrm{d}əi]$	$[\mathrm{d} e \mathrm{i}]$	earth
trī	[thəi]	*[trai̯]	fish
thī	[thəi̯]	[thəi̯]	why
thmī	$[{ m thmei}]$	[thməi̯]	new
thvī	[thvəi]	[thvəi]	skill
pī	[þəi̯]	[jed]	three
p″ī	[jeq]	- ,	oboe
pārī	[jeĥej]	[bərəi̯]	cigarette
ptī	[pdəi̯]	[jebq]	husband

TRANSLITERATION	TK 1	TK 2	MEANING
lpī	[ləbəi]	[ləbə <u>i</u>]	famous
stī	[sdəi̯]	[sdəi̯]	to speak
srī	[sĥəi̯]	[srəi̯]	woman
sqī	[s²əi̯]	$[\dot{s}^{\varsigma}a]$	what
${f q}$ ī	[i̞e̞ɾ]	[i̞eɾ̞]	what
qvī	[eg v eg	[əvəj]	what
13. ī ₂			
jī	[ci:]	[ciː]	ancestor
ñī	[ni:]	[ni:]	female
dī	[ti:]	[ti:]	place
bī	[pi:]	[pi:]	from
qaṃbī	[mpi:]	[:iqmc]	about
mī	[mi:]	[mi:]	noodle
lī	[li:]	[li:]	to bear on one's shoulder
dhūlī	[thu:li:]	[thu:li:]	dust
s'ī	[si:]	[si:]	to eat
bīr	[pi:]	[pi:]	two
jīk	[ci:c]	[ci:c]	to dig
rīk	[ri:c]	[ri:c]	in bloom
līṅ	[liːɲ]	[liːɲ]	to roast
mamīs	*[mmih]	[mmi:h]	hair, feather
14. \dot{y}_1 , \dot{i}_1			
phý k	[phək]	[phək]	to drink
s lýk	[slək]	[slək]	leaf
khỳṅ	[khəŋ]	[khəŋ]	to get angry
chqỳṅ	[c³əŋ]	$[\mathrm{c}^{\flat}\mathfrak{d}]$	bone
ţŷ'n	$[\mathrm{d} \mathfrak{s} \mathfrak{y}]$	$[\mathrm{d} \mathfrak{d} \mathfrak{g}]$	to know
pỳṅ	[bəŋ]	[bəŋ]	lake
sravýň	$[\mathtt{s}\mathtt{ə}v\mathtt{ə}\mathfrak{y}]$	$[s u a \eta]$	drunk
kāṃpit	[kəbət]	[kəmbət]	knife
citt	[cət]	[cət]	heart
pid	[bət]	[bət]	to close
phcit	[psət]	[psət]	navel
phsit	[psət]	[psət]	mushroom
hit	[hət]	[hət]	to smell
klin	[khlən]	[khlən]	scent

TRANSLITERATION	TK 1	TK 2	MEANING
hýr	[həl]	*[haə]	peppery
qaṃpil	[mbəl]	[smbəl]	salt
15. $\dot{\mathbf{y}}_2$, $\dot{\mathbf{i}}_2$			
dadýk	[tətɨk]	[tətɨk]	to get wet
dý k	[tik]	[tɨk]	water
nýk	[nɨk]	[nɨk]	to think
br ýk	[pĥɨk]	[prɨk]	morning
nỳn	[nɨŋ]	[nɨŋ]	and
rỳ ṅ	[rɨŋ]	[rɨŋ]	hard
sdỳn	[stɨŋ]	[stɨŋ]	pond
r̄s	[rɨh]	[rɨh]	root
git	[kit]	[kɨt]	to consider
ňaňýt	[ŋɨt]	[ŋəŋɨt]	dark
jit	[cɨt]	[cɨt]	near
qādity	[atit]	_	sun
min	[mɨn]	[min]	not
brýl	[pĥɨl]	[prɨl]	hail
ril	[rɨl]	[rɨl]	blunt
manuss	*[mənɨh]	*[mənɨh]	man
prāṃbīr	*[mpɨl]	*[prampil]	seven
16. $\bar{\mathbf{y}}_1$			
pyr	[bəː]	[bə:]	Fr. beurre
t <u>y</u> n	[tə:ŋ]	[tə:ŋ]	to get angry
m″ȳṅ	[mə:ŋ]	[mə:ŋ]	tight
m″yn m″yn	[mə:n]	[mə:n]	ten thousand
raț y n	[lədə:n]	[ədə:n]	to speak slowly with
• 465			modulation
kaṃp"ȳt	[kəpəːt]	_	tight
kpȳt	[kbə:t]	_	to suck slowly
khlÿt		7	stern
khs y t	[ksəːt]	[khsəːt]	to sniff at
$\mathbf{p} \overline{\mathbf{y}} \mathbf{t}$	[bəːt]		to suck
praț t	[pədə:t]	[prodəːt]	lean
styt	[stəːt]	[stəːt]	slender
slȳt	[slə:t]	[sləːt]	fast
h⊽t	[həːt]	[həːt]	bronchitis
ļ⊽t	[ləːt]		haughty

TRANSLITERATION	TK 1	TK 2	MEANING
khnÿp	[khnəːp]	[khnəːp]	to flatter
p"ym	[pə:m]	[pə:m]	surprised
$ar{y}_2$			
$\mathbf{g}\overline{\mathbf{y}}$	[kɨ:]	[kɨ:]	to be
jamn ' y	[cəmŋɨː]	[cəmŋɨː]	disease
jh y	[chɨ:]	[chɨ:]	sick
₫ y	[dɨ:]	[dɨ:]	to insinuate
pañjh y	[pəchɨː]	[bənchɨ:]	to worry
banl y	[pəlɨ:]	[pənlɨ:]	light
bhl $ar{ extsf{y}}$	[phlɨ:]	[phli:]	bright
$rand\overline{y}$	[əntɨ:]	[rəntɨː]	to sound
${ m sb} \overline{{ m y}}$	[spɨ:]	[spɨ:]	gear
Ţ	[r i :]	[ri:]	or
ŗ Į	[lɨ:]	_	to hear
banyȳt	[pənjɨ:t]	[pənjɨ:t]	to prolong
bȳt	[pɨːt]	[pɨ:t]	to try
y y t	[jɨːt]	[jɨːt]	slow
r y t	*[rɨt]	_	to rub
y y n	[jɨ:n]	[ji:n]	long life
18. u ₁			
puk	[bok]	[bok]	to pound
sampuk	[səbok]	[sɔmbo̞k]	nest
sruk	[shok]	[crok]	country
knuṅ	[khnoŋ]	[khnoŋ]	inside
kruń	[khoŋ]	[kron]	town
khus	[khoh]	[khọh]	wrong
dus	[doh]	[doh]	rub
prus	[phoh]	[proh]	man
cuḥ	[coh]	[coh]	to get off
cramuḥ	[cəmoh]	[cəmoh]	nose
dut	[dot]	[dot]	to set fire
samudr	[səmot]	[səmot]	sea
puṇy	[bon]	[bon]	festival
squy	[s ⁹ oi]	[s ² oi]	to smell bad
19. $\mathbf{u_2}$, $\mathbf{\acute{a}p_2}$			
qāyu	[²aju²]	[aju²]	age
			_

RANSLITERATION	TK 1	TK 2	MEANING
graluk	[kəlok]	[krəlok]	wave
duk	[tok]	[tok]	keep
buk	[pok]	[pok]	beard
mukh	[mok]	[mok]	face
aubuk	[əpok]	[pok]	father
khduḥ	[khtuh]	[khtuh]	clot
caṃbuḥ	[cəpuh]	[cɔmpuh]	beak
damluḥ	[təmluh]	[tənluh]	to pierce
noh	*[nuh]	*[nuh]	that
buḥ	[puh]	[puh]	to boil
manuss	*[mənwh]	*[mənwh]	man
ruñ	[ĥoɲ]	[ron]	to push
buddh	[pot]	[pot]	Buddha
mut	[mot]	[mot]	sharp
mláp	[məlop]	[məlop]	shade
yáp	[jop]	[jop]	night
láp	[lop]	[lop]	to erase
kanduy	[kəto <u>i</u>]	[kətoi̯]	tail
ruy	[ĥoi̞]	[roi̯]	fly
qaṅguy	[ŋkoi̯]	[ɔŋkoi̯]	to sit
jul	[col]	[col]	to weave
mjul	[məcol]	[məcol]	needle
0. ū ₁			
kūr	[koʻu]	[koʻu]	to stir
ţūr	[doʻu]	[do•u]	to change
papūr	[bəboru]	[pəbo'u]	lip
ptūr	[pdo·u]	[pdo'u]	to change
sūr	[so'u]	[so'u]	sound
hūr	[ho·u]	[hoʻu]	to flow
qūr	[²o'u]	[poru]	stream
ţūn	[douŋ]	[douŋ]	coconut
tpūṅ	[təbouŋ]	$[dəbourak{\eta}]$	south
qaṇtūṅ	[ndouŋ]	[ndouŋ]	well
khūc	[khouc]	[khouc]	to go bad
ţūc	[douc]	[douc]	same
tūc	[touc]	*[tu:c]	small
crūt	[chout]	[srout]	to harvest child
		[koun]	

TRANSLITERATION	TK 1	TK 2	MEANING
ţūn	[doun]	[doun]	grandmother
pqūn	[p³oun]	[p³oun]	younger brother
sūny	[soun]	[soun]	zero
mhūp	[məhoup]	[məhoup]	food
caṅkūm	[cəkoum]	[cɔŋkoum]	canine tooth
cūl	[coul]	[coul]	to enter
ṭaṃpūl	[təboul]	_	roof
pramūl	[pəmoul]	[promoul]	to collect
21. ūv ₁			
chlūv	[chləu]	[slou]	ox
ṭankūv	[təkəu]	[təkou]	grub
tamrūv	[təmhəu]	[tɔmrou]	to require
trūv	[thəu]	[thou]	correct
phlūv	[phləu]	[phlou]	road
satrūv	[səthəu]	[sətrou]	enemy
sūv	[səu̯]	[so̞u̯]	rather
saṃkūv	[sɔmkəu̯]	_	gray-haired
skūv	[skəu̞]	[chko̞u̞]	gray-haired
spūv	[sbəu]	[sbou]	thatch
sramūv	[səməu̯]	[sɔmo̞u̞]	hairy
srūv	[shəu]	[crəu]	paddy
ilūv	[ələŭ]	[əló̞́u]	now
u	[əй]	_	father
$\mathbf{\tilde{u}}_2$. $\mathbf{\tilde{u}}_2$			
dhnū	[thnu:]	[thnu:]	bow
lū	[lu:]	[lu:]	to bark
gaṃnūr	[kəmnu:]	[komnu:]	to draw
jūr	[cu:]	[cu:]	sour
dhūr	[thu:]	[thu:]	relaxed
jrūk	[chu:k]	[sru:k]	pig
dūk	[tu:k]	[tu:k]	boat
drūń	[thu:ŋ]	[tru:ŋ]	chest
gūs	[ku:h]	[ku:h]	to make a trace
mūs	*[muh]	*[muh]	mosquito
būj	[puːc]	[puːc]	species
sdūc	[stuːc]	[stu:c]	to fish
gūth	[ku:t]	[kuːt]	bottom

TRANSLITERATION	TK 1	TK 2	MEANING
jūt	[cuːt]	[cu:t]	to wipe
jūn	[cu:n]	[cu:n]	to give
lūn	[lu:n]	[lu:n]	to crawl
rūp	[ruːp]	[ru:p]	picture
bhūmi	[phu:m]	*[phum]	village
mūl	[mu:l]	[mu:l]	round
23. ua			
khuar	[khu·o]	[khu·o]	brain
byuar	[pcu'o]	[pcu·o]	to suspend
bhjuar	[pcu'o]	[pcu'o]	to plough
suar	[su·o]	[su'o]	to ask
juan	[cuoŋ]	[cuoŋ]	bell
juas	[cuoh]	[cuoh]	to replace
jaṃnuas	[cəmnuoh]	[comnuoh]	to replace
rabuas	[ləbuoh]	[lobuoh]	wound
huas	[huoh]	[huoh]	to pass
paṅquac	[þəŋˀuoc]	[bɔŋˀuoc]	window
ruac	[ruoc]	[ruoc]	to finish
luac	[luoc]	[luoc]	to steal
jhmuañ	[chmuon]	[chmuon]	marchant
bruañ	[phuon]	[pruon]	arrow
kquat	[k²uot]	[k²uot]	to vomit
chkuat	[ckuot]	[skuot]	mad
suat	[suot]	[suot]	lung
snuat	[sŋuot]	[cŋuot]	dry
khluan	[khluon]	[khluon]	body
caṃnuan	[cəmnuon]	-	number
puan	[buon]	[buon]	four
juap	[cuop]	[cuop]	meet
kmuay	[khmuoi̯]	[khmuoi̯]	nephew
juay	[cuoi̯]	[cuoi̯]	to help
muay	[muoi̯]	[muoi̯]	one
raluay	[aluoi̯]	[ləluoi̯]	to decompose
țual	[duol]	[duol]	to fall over
dadual	[tətuol]	[totuol]	to receive
mual	[muol]	[muol]	twist
srual	[sruol]	[cruol]	easy

TRANSLITERATION	TK 1	TK 2	MEANING
24. oe ₁			
poe	[baˈə]	[baˈə]	if
soe	[sa·ə]	[sa·ə]	surface
toer	[da·ə]	[da'ə]	to walk
ṭamṇoer	[təmna·ə]	[dɔmna·ə]	travel
serasoer	[səsa·ə]	[sɔsa·ə]	to praise
hoer	[ha·ə]	[haˈə]	to fly
kamroek	[kəmhaək]	[kɔmraək]	to move
poek	[baək]	*[bə:k]	to open
stoen	[sdaəŋ]	*[sdə:ŋ]	thin
ļoen	[laəŋ]	[laəŋ]	to ascend
soec	[saəc]	*[sə:c]	to laugh
koet	[kaət]	*[kə:t]	to be born
croen	[cĥaən]	[sraən]	many
paṅkoen	[pəkaən]	[boŋkaən]	to increase
thoep	[thaəp]	[thaəp]	to smell
ciñcoem	[ncaəm]	[ncaəm]	eyebrow
chnoem	[chnaəm]	[snaəm]	wonderful
țoem	[daəm]	[daəm]	trunk
tanhoem	[təŋhaəm]	[dəŋhaəm]	to breathe
thloem	[thlaəm]	[thlaəm]	liver
soem	[saəm]	*[sə:m]	damp
hoem	[haəm]	[haəm]	swollen
chloey	[chlaəi̯]	[slaəi]	to answer
ramhoey	[ləhaəi]	[lɔmhaəi̯]	fresh
hoey	[haəi̯]	[haəi̯]	already
25. oe ₂			
kañjoe	[kəcəː]	[kɔɲcəː]	basket
jhoe	[chə:]	[chəː]	tree
dhvoe	[thəː]	[thəː]	to do
boe	[pəː]	[pəː]	to imitate
loe	[lə:]	[lə:]	above
loek	[ləːˀ]	[ləːˀ]	to raise
joeń	[cə:ŋ]	[cəːŋ]	foot
phloen	[phlə:ŋ]	[phlə:ŋ]	fire
yoen	[jəːŋ]	[jə:ŋ]	we
jroes	[cĥəːh]	[crəːh]	to choose
ñoes	*[nəh]	[nəːh]	sweat

TRANSLITERATION	TK 1	TK 2	MEANING
roes	[rə:h]	[rəːh]	to choose
qañjoeñ	[ncə:n]	-	to invite
doep	[təːp]	[təːp]	just
moel	[məː]	[məː]	to look at
26. ÿa			
nỳa	[ŋɨːə]	_	a kind of bed
jỳa	[cɨ·ə]	[cɨɨɔ]	to believe
jaṃnỳa	[cəmnɨ·ə]	[cɔmnɨ̞٠ə]	belief
týa	[t i 'ə]	_	short
ńỳak	[ŋɨəˀ]	[ŋɨəˀ]	to claim
thỳak	[thɨəˀ]	[thɨəˀ]	stick
smỳak	[smɨəˀ]	[smɨəˀ]	sober
kỳaṅ	[kɨəŋ]	[kɨəŋ] ๋	to go aground
ktỳaṅ	[kdɨəŋ]	[kdɨəŋ]	mortar with pestle
kpỳan	[kbɨəŋ]	[kbɨəŋ]	tile
grỳan	[krɨəŋ]	[krɨəŋ]	machine
nyan	[ŋɨəŋ]	_	dobtful
paṅkỳaṅ	[pəkɨəŋ]	[bɔŋkɨəŋ]	to strand
rỳan	[rɨəŋ]	[rɨəŋ]	story
lỳaṅ	[lɨəŋ]	[lɨəŋ]	yellow
sỳaṅ	[sɨəŋ]	[sɨəŋ]	brave
srỳan	[srɨəŋ]	[crɨəŋ]	drunk
khỳan	[khɨən]	[khɨən]	foundations
grýan	[kr i ən]	[kriən]	to make progress bit
8-7	[]		by bit
jỳan	[cɨən]	[cɨən]	to make progress
jaṃrỳan	[cəmr i ən]	[cɔmrɨən]	progress
tỳan	[tɨən]	[tɨən]	to warn
banlỳan	[pəlɨən]	[pɔnlɨən]	to hasten
bhỳan	[phɨən]	[phɨən]	friend
lỳan	[lɨən]	[lɨən]	fast
lpỳan	[ləbɨən]	[ləbɨən]	speed
nỳay	[nɨəi̯]	[nɨəi̞]	tired
lmỳay	[ləmɨəi̯]	[ləmɨəi]	soft
rỳay	[rɨəi̞]	[rɨəi̯]	often
27. ia			
biar	[eriq]	[e·iq]	enemy

TRANSLITERATION	TK 1	TK 2	MEANING
traciak	[trɔːciəˀ]	[təciə [?]]	ear
sliak	[sliə [?]]	[sliəˀ]	to wear
crian	[criəŋ]	[criəŋ]	to sing
camrian	[cəmhiəŋ]	[cɔmriəŋ]	song
bhliaṅ	[phliəŋ]	[phliəŋ]	rain
caṅqiat	[cəŋˀiət]	[cɔŋˀiət]	narrow
diat	[tiət]	[tiət]	again
ciñjian	[ɲciən]	[cənciən]	ring
paṅrian	[pəŋĥiən]	[bɔŋriən]	to teach
mian	[miən]	[miən]	longan
vian	[viən]	[viən]	bowel
qian	[riən]	[²iən]	ashamed
dhiap	[thiəp]	[thiəp]	to compare
priap	[priəp]	[priəp]	to compare
ciam	[ciəm]	[ciəm]	sheep
rial	[fiəl]	[riəl]	currency
rasial	[leise ^c]	[əsiəl]	afternoon
khiav	[khiəu̯]	[khiəu]	green, blue
28. e ₁			
kerti°	[ke:1]	[kẹ:]	fame
kañche	[kəchẹ:1]	-	basket
țer	[de:1]	[dę:]	to sew
saraser	[səseː1]	[təseː]	to write
țek	[de:1c]	[de:1c]	to sleep
phlek	[pleːɪc]	[phne:1c]	lightning
srek	[she:1c]	[sreːɪc]	thirsty
kmeṅ	[khme̞ːɹɲ]	[khmeːɪɲ]	child
chven	$[chve:\imath\mathfrak{n}]$	[sve:in]	left
preń	[preːɪn]	[preːɪɲ]	oil
phsen	[phseːɪn]	[pseːɪn]	other
saṃḷeṅ	[səmle̞ːɪɲ]	[sɔmle̞ːɪɲ]	voice
ces	[ceːɪh]	[ceːɪh]	thread
saṅket	[ŋke̞:t]	[sɔŋke̞:t]	to observe
sen	[seːn]	[seːn]	1/100 rial
29. e ₂			
ge	[keː1]	[keː]	they
de	[teːː]	[teː]	(negative particle

ktic [kdəc] [kdəc] to nip cpic [cbəc] [cbəc] to pick tic [təc] [təc] little m"ec [məc] [məc] why, how mtec [mdəc] [mdəc] why, how lpic [ləbəc] [ləbəc] trick samrec [səmfəc] [səmrəc] to decide stec [sdac] [sdac] king ceñ *[cən] *[cən] to go out chiñ [chən] *[chən] to gleam teñ [dən] *[dən] to chase away sñiñ *[snən] *[snən] bareness hiñ [hən] [hən] sour 31. ic_2, ec_2, iñ_2, eñ_2 khdec [khtec] [khtec] in small bits gec [kec] [kec] to avoid grec [kfec] [kfec] to sprain jhlec [chlec] [slec] to break up ñec [nec] [nec] to crush thbec [thpec] — to nip dic [tec] [tec] to sting dhmec [thmec] [thmec] to close the eyes bejir [pec] [pec] diamond bric [pfec] [prec] to blink brec [prec] [prec] a kind of bamboo	TRANSLITERATION	TK 1	TK 2	MEANING
damner	dade	[təteːː]	[tɔːte̞ː]	vacant
megh [me:1c] [me:1c] sky lekh [le:1c] [le:1c] number bhlen [phle:1n] [phle:1n] music len [le:1n] to play vanven [nve:1n] [vonve:1n] to get lost damret [tamfe:t] [tonre:t] to get lost damret [tamfe:t] [tamfe:t] to get lost damret [kade] [kdec] [topic] [tittle meret [mac] [mac] why, how meret [mac] why, how meret	danle	[təle̞ːː]	[tɔnle̞:]	river
lekh [le:tc] [le:tc] number bhlen [phle:tn] [phle:tn] music len [le:tn] [le:tn] to play vanven [lve:tn] [vojve:tn] to get lost damret [təmfie;t] [təmre;t] to take a nap bel [pe:tl] [pe:tl] time 30. ic_1, ec_1, in_1, en_1 ktic [kdəc] [kdəc] to nip cpic [cbəc] [cbəc] to pick tic [təc] [təc] little m"ec [məc] [məc] why, how mtec [mdəc] [mdəc] why, how lpic [ləbəc] [ləbəc] trick samrec [səmfiəc] [səmrəc] to decide stec [sdac] [sdac] king cen *[cən] *[cən] to go out chin [chən] *[chən] to gleam ten [dən] *[dən] to chase away snin *[snən] *[snən] bareness hin [hən] [hən] sour 31. ic_2, ec_2, in_2, en_2 khdec [khtec] [khtec] in small bits gec [kec] [kfec] to avoid grec [kfec] [slec] to break up nec [nec] [nec] to crush thbec [thpec] — to nip dic [tee] [thec] [pec] diamond bric [pfec] [pec] [pec] diamond bric [pfec] [prec] a kind of bamboo	daṃner	[təne̞ːː]	[tɔmne̞ː]	free
bhlen [phle:nn] [phle:nn] music len [le:nn] [le:nn] to play vanven [nve:nn] [vonve:nn] to get lost damret [təmhe:t] [təmre:t] to take a nap bel [pe:l] [pe:l] time 30. ic1, ec1, iñ1, eñ1 ktic [kdəc] [kdəc] to nip cpic [cbəc] [cbəc] to pick tic [təc] [təc] little m"ec [məc] [məc] why, how mtec [mdəc] [mdəc] why, how lpic [ləbəc] [ləbəc] trick samrec [səmhəc] [səmrəc] to decide stec [sdac] [sdac] king ceñ *[en] *[en] to go out chiñ [chən] *[chən] to gleam teñ [dən] *[dən] to chase away sniñ *[snən] *[snən] bareness hiñ [hən] [hən] sour 31. ic2, ec2, iñ2, eñ2 khdec [khec] [kec] to avoid grec [khec] [kec] to break up ñec [nec] [nec] to crush thec [thpec] — to nip dic [tee] [thec] [thmec] to close the eyes bejir [pec] [pec] diamond bric [phec] [pec] [pec] diamond bric [phec] [pec] [pec] to blink brec [prec] [pec] [pec] to blink brec [prec] [pec] [pec] a kind of bamboo	megh	[meːɪc]	[me̞:1c]	sky
len [le::n] [le::n] to play vanven [nve::n] [vonve::n] to get lost damret [təmfiet] [təmre:t] to take a nap bel [pe:l] [pe:l] time 30. ic1, ec1, iñ1, eñ1 ktic [kdəc] [kdəc] to nip cpic [cbəc] [cbəc] to pick tic [təc] [təc] little m"ec [məc] [məc] why, how mtec [mdəc] [mdəc] why, how lpic [ləbəc] [ləbəc] trick samrec [səmfəc] [səmrəc] to decide stec [sdac] [sdac] king ceñ [cən] [cən] to go out chiñ [chən] [chən] to gleam teñ [dən] [dən] to chase away sñiñ [snən] [hən] sour 31. ic2, ec2, iñ2, eñ2 khdec [khtec] [kec] to avoid grec [kfec] [kec] to sprain jhlec [chec] [slec] to break up ñec [nec] [nec] to crush thece [thpec] — to nip dic [thec] [tec] diamond bric [pfec] [pec] diamond bric [pfec] [pec] diamond bric [pfec] [pec] [pec] diamond bric [pfec] [pec] [pec] a kind of bamboo	lekh	[le̞ːɪc]	[le̞:1c]	number
vanven damret [ŋve:ɪn] [voŋve:ɪn] to get lost damet damet bel [pe:l] [tomre:t] to take a nap time 30. ic1, ec1, iñ1, eñ1 *** ktic [kdəc] [kdəc] to nip cec to pick cpic [cbəc] [cbəc] to pick tic [təc] [little m"ec mec [mac] [mac] why, how mtec [mdəc] [mdəc] why, how pic chia little samrec [mdəc] trick samrec [mdəc] samrəc] to decide stec (sdac] sadac] king ce (sdac] siac] king ce (sdac] sadac] king ce (sdac] sadac] king ce (sdac] king ce (sdac] king ce (sdac) king </td <td>bhlen</td> <td>[phle̞ːɪɲ]</td> <td>[phleːɪɲ]</td> <td>music</td>	bhlen	[phle̞ːɪɲ]	[phleːɪɲ]	music
damret [təmfiet] [təmret] to take a nap bel [petl] [petl] time 30. ic1, ec1, iñ1, eñ1 ktic [kdəc] [kdəc] to nip cepic [cbəc] [təc] little m'ec [itəc] [itəc] little m'ec [məc] [məc] why, how mtec [mdəc] [ibəc] trick samrec [səmfəc] [səmrəc] to decide stec [sdac] [sdac] king ceñ *[cən] to go out chiñ [chən] *[chən] to gleam teñ [dən] *[dən] to chase away sñiñ *[snən] *[snən] bareness hiñ [hən] [hən] sour 31. ic2, ec2, iñ2, eñ2 khdec [khtec] [khtec] in small bits gec [khec] [kec] to avoid grec [khec] [slec] to break up ñec [nec] [nec] to crush thec [thpec] — to nip dic dhmec [thmec] [thmec] to close the eyes bejir [pec] [pec] diamond bric [pfec] [pec] [pec] a kind of bamboo bric [pfec] [pec] [pec] to blink brec	leń	[le̞ːɪɲ]	[le̞:≀ɲ]	to play
bel [pe:l] [pe:l] time 30. ic1, ec1, iñ1, eñ1 ktic [kdəc] [kdəc] to nip cpic [cbəc] [cbəc] to pick tic [tac] [tac] little m"ec [məc] [məc] why, how mtec [mdəc] [ləbəc] trick samrec [səmfəc] [səmrəc] to decide stec [sdac] [sdac] king ceñ *[cən] *[cən] to go out chiñ [chən] *[dən] to gleam teñ [dən] *[dən] to chase away sñiñ *[snən] *[snən] bareness hiñ [hən] [hən] sour 31. ic2, ec2, iñ2, eñ2 khdec [khtec] [khtec] in small bits gec [kec] [kec] to avoid grec [khec] [slec] to break up ñec [nec] [nec] to crush thec [thpec] — to nip dic [tec] [tec] to sting dhmec [thmec] [thmec] to close the eyes bejir [pec] [pec] diamond bric [pfec] [prec] to blink brec [prec] [prec] a kind of bamboo	vanven	$[\mathfrak{y}v_{\mathbf{e}}:i_{\mathbf{n}}]$	[vɔŋve̞:ɪɲ]	to get lost
ktic [kdəc] [kdəc] to nip cpic [cbəc] [cbəc] to pick tic [təc] [təc] little m"ec [məc] [məc] why, how mtec [mdəc] [mdəc] why, how lpic [ləbəc] [ləbəc] trick samrec [səmfəc] [səmrəc] to decide stec [sdac] [sdac] king ceñ *[cən] *[cən] to go out chiñ [chən] *[chən] to gleam teñ [dən] *[dən] to chase away sñiñ *[snən] *[snən] bareness hiñ [hən] [hən] sour 31. ic_2, ec_2, iñ_2, eñ_2 khdec [khec] [khec] in small bits gec [kec] [kec] to avoid grec [kfec] [slec] to break up ñec [nec] [nec] to crush thbec [thpec] — to nip dic [tec] [tec] to sting dhmec [thmec] [thmec] to close the eyes bejir [pec] [pec] diamond bric [pfec] [prec] to blink brec [prec] [prec] a kind of bamboo	damret	[təmhe̞ːt]	[tɔmre̞ːt]	to take a nap
ktic [kdəc] [kdəc] to nip cpic [cbəc] [cbəc] to pick tic [təc] [təc] little m"ec [məc] [məc] why, how mtec [mdəc] [mdəc] why, how lpic [ləbəc] [ləbəc] trick samrec [səmfəc] [səmrəc] to decide stec [sdac] [sdac] king ceñ *[cən] *[cən] to go out chiñ [chən] *[chən] to gleam teñ [dən] *[dən] to chase away sñiñ *[snən] *[snən] bareness hiñ [hən] [hən] sour 31. ic_2, ec_2, iñ_2, eñ_2 khdec [khtec] [khtec] in small bits gec [kec] [kec] to avoid grec [kfec] [kfec] to sprain jhlec [chlec] [slec] to break up ñec [nec] [nec] to crush thbec [thpec] — to nip dic [tec] [tec] to sting dhmec [thmec] [thmec] to close the eyes bejir [pec] [pec] diamond bric [pfec] [prec] to blink brec [prec] [prec] a kind of bamboo	bel	[peːl]	[peːl]	time
cpic [cbəc] [cbəc] to pick tic [təc] [təc] little m"ec [məc] [məc] why, how mtec [mdəc] [ləbəc] trick samrec [səmfəc] [səmrəc] to decide stec [sdac] [sdac] king ceñ *[cən] *[cən] to go out chiñ [chən] *[dən] to chase away sñiñ *[snən] [hən] sour 31. ic², ec², iñ², eñ² khdec [khtec] [khtec] in small bits gec [kec] [kec] to avoid grec [khec] [kec] to break up ñec [nec] [nec] to crush thbec [thpec] — to nip dic [tec] [tec] to sting dhmec [thmec] [pec] diamond bric [pfec] [pec] to blink brec [prec] [pec] a kind of bamboo	30. \mathbf{ic}_1 , \mathbf{ec}_1 , $\mathbf{i\tilde{n}}_1$, $\mathbf{e\tilde{n}}_1$			
tic [təc] [təc] little m"ec [məc] [məc] why, how mtec [mdəc] [ləbəc] trick samrec [səmfəc] [səmrəc] to decide stec [sdac] [sdac] king ceñ *[cən] *[cən] to go out chiñ [chən] *[dən] to chase away sñiñ *[snən] *[snən] bareness hiñ [hən] [hən] sour 31. ic₂, ec₂, iñ₂, eñ₂ khdec [khtec] [kec] to avoid grec [kfec] [kec] to break up ñec [nec] [nec] to crush thbec [thpec] — to nip dic dhmec [thmec] [pec] diamond bric [pfec] [pec] [pec] diamond bric [pfec] [prec] a kind of bamboo	ktic	[kdəc]	[kdəc]	to nip
m"ec [mac] [mac] why, how mtec [mdac] [labac] why, how lpic [labac] [labac] trick samrec [samfac] samrac] to decide stec [sdac] [sdac] king ceñ *[can] *[can] to go out chiñ [chan] *[chan] to gleam teñ [dan] *[snan] bareness hiñ [han] [han] sour 31. ic_2, ec_2, iñ_2, eñ_2 khdec [khtec] [khtec] in small bits gec [kec] [kec] to avoid grec [kfiec] [krec] to sprain jhlec [chlec] [slec] to break up ñec [nec] [nec] to crush thbec dic [tec] [tec] to sting dhmec [thmec] [thmec] to close the eyes bejir [pec] [pec] diamond bric [pfiec] [prec] to blink brec [prec] [prec] a kind of bamboo	cpic	[cbəc]	[cbəc]	to pick
mtec [mdəc] [mdəc] why, how lpic samrec [səmfəc] [səmrəc] to decide stec [sdac] [sdac] king ceñ *[cən] to go out chiñ [chən] *[chən] to gleam teñ [dən] *[snən] to chase away sñiñ *[snən] [hən] sour 31. ic2, ec2, iñ2, eñ2 khdec [khtec] [khtec] in small bits gec [kec] [kec] to avoid grec [kfec] [kfec] to sprain jhlec [chlec] [slec] to break up ñec [thpec] — to nip dic [tec] to close the eyes bejir [pec] [pec] diamond bric [pfec] [prec] to blink brec [prec] [prec] a kind of bamboo	tic	[təc]	[təc]	little
lpic [ləbəc] [ləbəc] trick samrec [səmhəc] [səmrəc] to decide stec [sdac] [sdac] king ceñ *[cən] *[cən] to go out chiñ [chən] *[chən] to gleam teñ [dən] *[dən] to chase away sñiñ *[snən] hiñ [hən] [hən] sour 31. ic_2, ec_2, iñ_2, eñ_2 khdec [khtec] in small bits gec [kec] [kec] to avoid grec [khec] [khec] [krec] to sprain jhlec [chlec] [slec] to break up ñec [nec] [nec] to crush thbec [thpec] — to nip dic [tec] [tec] to sting dhmec [thmec] [pec] diamond bric [pfiec] [prec] to blink brec [prec] [prec] a kind of bamboo	m"ec	[məc]	[mac]	why, how
samrec [səmfəc] [səmrəc] to decide stec [sdac] [sdac] king ceñ *[cən] *[cən] to go out chiñ [chən] *[chən] to gleam teñ [dən] *[dən] to chase away sñiñ *[snən] *[snən] bareness hiñ [hən] [hən] sour 31. ic, ec, iñ, eñ, khdec [khtec] [khtec] in small bits gec [kec] [kec] to avoid grec [khec] [krec] to sprain jhlec [chlec] [slec] to break up ñec [nec] [nec] to crush thbec [thpec] — to nip dic [tec] [tec] to sting dhmec [thmec] [thmec] to close the eyes bejir [pec] [pec] diamond bric [phec] [prec] to blink brec [prec] [prec] a kind of bamboo	mtec	$[\mathrm{md}\mathfrak{s}\mathrm{c}]$	[mdəc]	why, how
stec [sdac] slac] king ceñ *[cən] *[cən] to go out chiñ [chən] *[chən] to gleam teñ [dən] *[dən] to chase away sñiñ *[snən] *[snən] bareness hiñ [hən] [hən] sour 31. ic, ec, iñ, eñ, khdec [khtec] [khtec] in small bits gec [kec] [kec] to avoid grec [khec] [krec] to sprain jhlec [chlec] [slec] to break up ñec [nec] [nec] to crush thbec [thpec] — to nip dic [tec] [tec] to sting dhmec [thmec] [thmec] to close the eyes bejir [pec] [pec] diamond bric [phec] [prec] to blink brec [prec] [prec] a kind of bamboo	lpic	[ləbəc]	[ləbəc]	trick
ceñ *[cạn] *[cạn] to go out chiñ [chən] *[chạn] to gleam țeñ [dən] *[dạn] to chase away sñiñ *[sṇạn] *[sṇạn] bareness hiñ [hən] [hən] sour 31. ic₂, ec₂, iñ₂, eñ₂ khdec [khtec] [khtec] [kec]	samrec	[səmhəc]	[səmrəc]	to decide
chiñ [chən] *[chən] to gleam țeñ [dən] *[dən] to chase away sñiñ *[snən] *[snən] bareness hiñ [hən] [hən] sour 31. ic2, ec2, iñ2, eñ2 khdec [khtec] [khtec] in small bits gec [kec] [kec] to avoid grec [khec] [krec] to sprain jhlec [chlec] [slec] to break up ñec [nec] [nec] to crush thbec [thpec] — to nip dic [tec] [tec] to sting dhmec [thmec] [thmec] to close the eyes bejir [pec] [pec] diamond bric [phec] [prec] to blink brec [prec] [prec] a kind of bamboo	stec	[sdac]	[sdac]	king
teñ [dən] *[dən] to chase away sñiñ *[snən] bareness hiñ [hən] [hən] sour 31. ic2, ec2, iñ2, eñ2 khdec [khtec] [khtec] in small bits gec [kec] [kec] to avoid grec [khec] [krec] to sprain jhlec [chlec] [slec] to break up ñec [nec] [nec] to crush thbec [thpec] — to nip dic [tec] [tec] to sting dhmec [thmec] [thmec] to close the eyes bejir [pec] [pec] diamond bric [phec] [prec] to blink brec [prec] [prec] a kind of bamboo	ceñ	*[cə̞ɲ]	*[cə̞ɲ]	to go out
sñiñ *[snən] *[snən] bareness hiñ [hən] [hən] sour 31. ic2, ec2, iñ2, eñ2 khdec [khtec] [khtec] in small bits gec [kec] [kec] to avoid grec [khec] [krec] to sprain jhlec [chlec] [slec] to break up ñec [nec] [nec] to crush thbec [thpec] - to nip dic [tec] [tec] to sting dhmec [thmec] [thmec] to close the eyes bejir [pec] [pec] diamond bric [phec] [prec] to blink brec [prec] [prec] a kind of bamboo	chiñ	[chəɲ]	*[chə̞n]	to gleam
hiñ [hən] [hən] sour 31. ic₂, ec₂, iñ₂, eñ₂ khdec [khtec] [khtec] in small bits gec [kec] [kec] to avoid grec [kĥec] [krec] to sprain jhlec [chlec] [slec] to break up ñec [nec] [nec] to crush thbec [thpec] — to nip dic [tec] [tec] to sting dhmec [thmec] [thmec] to close the eyes bejir [pec] [pec] diamond bric [pĥec] [prec] to blink brec [prec] [prec] a kind of bamboo	țeñ	[dən]	*[də̯n $]$	to chase away
khdec [khtec] [khtec] in small bits gec [kec] [kec] to avoid grec [khec] [slec] to break up ñec [nec] [nec] to crush thbec [thpec] - to nip dic [tec] [tec] to sting dhmec [thmec] [thmec] to close the eyes bejir [pec] [pec] to blink brec [prec] [prec] a kind of bamboo	sñiñ	*[sɲə̞n]	*[sɲə̞ɲ]	bareness
khdec [khtec] [khtec] in small bits gec [kec] [kec] to avoid grec [kĥec] [krec] to sprain jhlec [chlec] [slec] to break up ñec [nec] [nec] to crush thbec [thpec] - to nip dic [tec] [tec] to sting dhmec [thmec] [thmec] to close the eyes bejir [pec] [pec] diamond bric [pĥec] [prec] to blink brec [prec] [prec] a kind of bamboo	hiñ	[hən]	[hən]	sour
gec [kec] [kec] to avoid grec [khec] [krec] to sprain jhlec [chlec] [slec] to break up ñec [nec] [nec] to crush thbec [thpec] - to nip dic [tec] [tec] to sting dhmec [thmec] [thmec] to close the eyes bejir [pec] [pec] diamond bric [phec] [prec] to blink brec [prec] [prec] a kind of bamboo	31. \mathbf{ic}_2 , \mathbf{ec}_2 , $\mathbf{i\tilde{n}}_2$, $\mathbf{e\tilde{n}}_2$			
grec [kĥec] [krec] to sprain jhlec [chlec] [slec] to break up ñec [nec] [nec] to crush thbec [thpec] - to nip dic [tec] [tec] to sting dhmec [thmec] [thmec] to close the eyes bejir [pec] [pec] diamond bric [pĥec] [prec] to blink brec [prec] [prec] a kind of bamboo	khdec	[khtec]	[khtec]	in small bits
jhlec [chlec] [slec] to break up ñec [nec] [nec] to crush thbec [thpec] - to nip dic [tec] [tec] to sting dhmec [thmec] [thmec] to close the eyes bejir [pec] [pec] diamond bric [pĥec] [prec] to blink brec [prec] [prec] a kind of bamboo	gec	[kec]	[kec]	to avoid
ñec[nec][nec]to crushthbec[thpec]-to nipdic[tec][tec]to stingdhmec[thmec][thmec]to close the eyesbejir[pec][pec]diamondbric[phec][prec]to blinkbrec[prec][prec]a kind of bamboo	grec	[kĥec]	[krec]	to sprain
thbec [thpec] - to nip dic [tec] [tec] to sting dhmec [thmec] [thmec] to close the eyes bejir [pec] [pec] diamond bric [phec] [prec] to blink brec [prec] [prec] a kind of bamboo	jhlec	[chlec]	[slec]	to break up
dic[tec][tec]to stingdhmec[thmec][thmec]to close the eyesbejir[pec][pec]diamondbric[phec][prec]to blinkbrec[prec][prec]a kind of bamboo	ñec	[nec]	[nec]	to crush
dic[tec][tec]to stingdhmec[thmec][thmec]to close the eyesbejir[pec][pec]diamondbric[phec][prec]to blinkbrec[prec][prec]a kind of bamboo	thbec	[thpec]	_	to nip
dhmec[thmec][thmec]to close the eyesbejir[pec][pec]diamondbric[pfec][prec]to blinkbrec[prec][prec]a kind of bamboo			[tec]	-
bejir [pec] [pec] diamond bric [phec] [prec] to blink brec [prec] [prec] a kind of bamboo	dhmec			to close the eyes
bric [pĥec] [prec] to blink brec [prec] [prec] a kind of bamboo	bejir			· · · · · · · · · · · · · · · · · · ·
brec [prec] [prec] a kind of bamboo	•			to blink
	brec			a kind of bamboo
Li i Li i	bhlec	[phlec]	[phlec]	to forget

FRANSLITERATION	TK 1	TK 2	MEANING
mic	[mec]	[mec]	to blink
mrec	[mrec]	[mərec]	pepper
rec	[rec]	[rec]	chipped
lic	*[ləc]	*[ləc]	west
lic	[lec]	[lec]	to sink
vec	[vec]	[vec]	to pack
jreñ	[cĥeɲ]	[cren]	bored
diñ	[ten]	[ten]	to buy
dhmeñ	[thmen]	[thmen]	tooth
beñ	[pen]	[pen]	full
miñ	[men]	[men]	just past
viñ	[ven]	[ven]	to return
veñ	[ven]	[ven]	twist
2. ae ₁			
kae	[kaˈe̞]	[ka·e̞]	to repair
khae	[kha·ę]	[kha•e]	month
khsae	[ksa·e]	[ksa·e]	rope
chkae	[chka'e]	[ska·e]	dog
tae	[ta'e]	[ta·e]	tea
panlae	[pəla·e]	[pəla·e]	vegetable
phlae	[phla·e]	[phla·e]	fruit
m"ae	[ma·e]	[ma·e]	mother
srae	[sha·e]	[cra'e]	paddy field
taer	[da•e]	*[deː]	also
kqaek	[k²aec]	[k [?] aec]	crow
caek	[caec]	[caec]	to distribute
taek	[daec]	[daec]	iron
paek	[baec]	[baec]	to break
pampaek	[mbaec]	[bɔmbaec]	to break
rahaek	[ləhaec]	[ləhaec]	torn
santaek	[səndaec]	[sədaec]	bean
spaek	[sbaec]	[sbaec]	skin
sraek	[shaec]	[craec]	to shout
sqaek	[s ² aec]	[s ² aec]	tomorrow
haek	[haec]	[haec]	to tear
kanlaeń	[kəlaen]	[kɔnlaen]	place
kaen	[kaen]	[kaen]	elbow
Rucii	[Kuc]i]	[phsaen]	smoke

TRANSLITERATION	TK 1	TK 2	MEANING
saeń	[saen]	[saen]	to carry
snaen	[snaen]	[snaeɲ]	horn
eṅ	[² aen]	[²aeɲ]	oneself
'n"aet	[ŋaet]	[ŋaet]	baby
chqaet	[c ⁷ aet]	[s ² aet]	bored
qaṇtaet	[ndaet]	[ˀɔndaet]	to float
paep	[baep]	[baep]	sort
phqaem	[p³aem]	[p³aem]	sweet
kqael	[k²ael]	[kˀael]	dirt
hael	[hael]	[hael]	to swim
33. ae ₂			
gae	[keː1]	[ke̞ː]	gizzard
babae	[pape:i]	[pɔːpe̞ː]	goat
bhnaek	[phneːɪc]	[phneːːːc]	eye
maek	[me:ic]	_	branch
raek	[reːɪc]	[reːɪc]	to carry with a pole on one's shoulder
prajaeń	[pəce̞ː≀ɲ]	[prɔce̞ːɪɲ]	to compete
baeṅ	[peːɪɲ]	[peːɪŋ]	grass
laen	*[laen]	*[laen]	to give up
laṃbaeṅ	$[\mathrm{mpe}:i_{\mathtt{J}}]$	[lompe:in]	javelin
vaen	$[v$ ę: \imath ɲ $]$	[ve $in]$	long
bedy	[pe̞ːt]	[pe̞:t]	doctor
maen	[meːn]	[meːn]	true
34. e ḥ ₁ , ae ḥ ₁			
kneh	[kŋɛh]	[kŋɛh]	to complain
khmeḥ	[khmɛh]	[khmɛh]	vinegar
khveh	[kveh]	[kυεh]	to scratch out
cańkeh	[cəkɛh]	[cəŋkɛh]	waist
ceḥ	[cεh]	[cɛh]	to know
cheḥ	[chɛh]	[chɛh]	to burn
pe <u>ḥ</u>	[beh]	[bɛh]	to pick up
preḥ	[preh]	[preh]	to crack
phaeḥ	[phɛh]	[pheh]	ash
seḥ	[seh]	[sɛh]	horse
		[creh]	to patch up

TRANSLITERATION	TK 1	TK 2	MEANING
slaeḥ	[sleh]	[clɛh]	to stop telling for a moment
qeḥ	[²ɛh]	[²ɛh]	to scratch
35. eh_2 , aeh_2			
babh la eḥ	[pəphlɛh]	[pəphlɛh]	to insist
radeḥ	[ətɛh]	[rətɛh]	cart
laeḥ	[lɛh]	[lɛh]	to excuse
veḥ	_	$[v \epsilon h]$	to escape
sandeḥ	_	[səntɛh]	distorted
saṃyeḥ	[səmjɛh]	[səmjɛh]	with the hem down
sdaeḥ	[stɛh]	[steh]	with the hem down
sbaeḥ	[speh]	[speh]	to hang down
mdes	*[məte:h]	*[məte·h]	chili
36. ai ₁			
khvai	[khvai]	[khvaj]	to steam
cai	[cai]	[cai]	louse
chnai	_	[chnai]	to grind
țai	[dai̯]	[dai]	hand
thai	[thai]	[thai]	Thai
thṅai	[thŋai̯]	[thŋai]	day
prai	[pĥai]	[prai]	salty
m″ai	[mai]	[mai]	to doubt
r″ai	[rai]	[rai]	a unit for area (Thai)
spai	[sbai]	[sbai]	awrap
hai	[hai]	[hai]	liable
vāy	$[va\dot{i}]$	$[va\dot{i}]$	to hit
37. ai ₂			
gai	[kei̯]	[kei̯]	to cheat
dai	[tei̯]	[tei̯]	cloth-shoulder bag
dhmai	[thmei]	[thmei]	jute
nai	[nei̯]	[nei]	of
pambhlai	[mphlei]	[bɔmphlei̯]	to add in
phdai	[phtei]	[phtei]	stomach
brai	[phei]	[prei]	forest
mamai	[mɔmei̯]	[mɔmei̯]	to imagine
mbhai	[məphei]	[məphei]	twenty
rai	[ĥei̯]	[rei]	to contribute

TRANSLITERATION	TK 1	TK 2	MEANING
ranai	[ĥəŋei̯]	[rɔŋei̯]	to blot
ravai	[ləvei̯]	[lɔʊei̯]	to spin
raṃbai	[rəpei̞]	[rɔmpei̯]	to look constantly
lai	[lei̯]	[lei̞]	to divide up
lalai	[ləlei̞]	[lɔlei̯]	high and distant
vai	[vei]	[vei]	quick witted
sdai	[stei̯]	[stei̯]	to sieve
sbai	[spei]	[spei̯]	cabbage
38. 0 ₁			
kho	[kha·o]	*[kho:]	trousers
kor	[ka·o]	[ka·o]	to shave
cor	[ca·o]	[ca·o]	thief
snor	[sŋa·o]	[chŋa·o]	to boil
krok	[kĥaok]	*[kĥo:k]	to get up
trațok	[tədaok]	[tɔdaok]	bell
thok	[thaok]	[thaok]	cheap
pok	[baok]	[baok]	to beat
sok	[saok]	[saok]	to mourn
koń	[kaoŋ]	[kaoŋ]	bent
m″oṅ	[maoŋ]	[maoŋ]	hour
khmoc	[khmaoc]	*[khmo:c]	ghost
sramoc	[smaoc]	[səmaoc]	ant
krom	[kĥaom]	*[kho:m]	under
srom	[shaom]	*[sho:m]	envelope
kroy	[kĥaoi̯]	*[kĥoːi̯]	behind
khsoy	[ksaoi̯]	*[ksoːi̯]	weak
ţoy	[daoi̯]	*[doːi̯]	by means of
paṇtoy	[bəndaoi̯]	[ˈbɔndaoi̯]	length
oy	[aoi̯]	[aoi̯]	to give
col	[caol]	[caol]	to throw away
sramol	[smaol]	[smaol]	shadow
39. o ₂			
go	[koʻu]	[ko·u]	ox
lok	[louk]	[louk]	you, world
yon	[jouŋ]	[jouŋ]	to swing
raloń	[alouŋ]	[lɔlouŋ]	wet
dos	[touh]	[touh]	guilt

TRANSLITERATION	TK 1	TK 2	MEANING
pandos	[bontouh]	—	to criticize
roc	[rouc]	[rouc]	wane of moon
lot	[lout]	[lout]	to jump
nom	[noum]	[noum]	urine
rom	[roum]	[roum]	hair
jhmol	[chmoul]	[smoul]	male
yol	[joul]	[joul]	to hang down
40. au ₁			
ktau	[kdaɯ̞]	[kdaɰ]	hot
kracau	[kəcaw]	[krɔcaɯ]	to claw at
krau	[khaw]	[kraw]	outside
khcau	[khcaw]	[khcaw]	a kind of shellfish
khmau	[khmaw]	[khmaw]	black
khlau	[khlaw]	[khlaw]	ignorant
cau	[caw]	[caw]	grandchild
chau	[chaw]	[chaw]	raw
ṭau	[daໝ]	[daw]	destination
pau	[baˈw]	*[bao]	to suck
msau	[məsa]	[məsa]	flour
saur°	[saw]	[saw]	Saturday
smau	[smaw]	[smaw]	grass
hau	[haໝ]	*[hao]	to call
ļau	$[la \underline{w}]$	$[la \underline{w}]$	floor
41. au ₂			
jrau	[chəŭ]	[cro̞u̯]	deep
jaṃrau	[cəmhəu]	[cəmro̞u̯]	depth
dau	[təŭ]	[to̞u̯]	to go
nau	[nəŭ]	[no̞u̯]	to be
bau	[bəñ]	[pọu]	youngest of a family
brau	$[\mathbf{p} \mathbf{h} a u]$	[prǫŭ]	unmarried
bhlau	[phləu]	[phlo̞u̞]	thigh
lamnau	[ləmnəu]	[lomno̞u̯]	address
lbau	[ləpəu]	*[ləpəu]	pumpkin
saṃbau	[səmpəu]	*[səmpəu]	junk
qaṃbau	[ɔmbəñ]	[xōdmc]	sugarcane
42. am ₁			
kraṃ	[khom]	[krɔm]	suffering

TRANSLITERATION	TK 1	TK 2	MEANING
khaṃ	[khɔm]	[khɔm]	to try
cam	[com]	[com]	to darn
cram	[chɔm]	[crɔm]	to stamp
craļam	[cələm]	[crɔlɔm]	to mistake
daṃ	[dɔm]	[mcb]	to hit with a hammer
prathaṃ	[pəthəm]	[prothom]	impatient
phnam	[phŋɔm]	[phŋɔm]	to steam
phsam	[phsom]	[phsom]	to unite
haṃ	[mch]	[hɔm]	sober
43. u m ₁			
kuṃ	[kǫm]	[kǫm]	to prohibit
krum	[krom]	[krom]	group
khñuṃ	[khŋọm]	[khṇọm]	I
ṭuṃ	[dǫm]	[dǫm]	piece
phtuṃ	[pdom]	[pdom]	to form
phluṃ	[phlom]	[phlom]	to blow
mtuṃ	[mədom]	[mədom]	a piece
suṃ	[sǫm]	[sǫm]	to ask
smuṃ	[smom]	[smom]	beggar
qum	$[m\dot{\phi}^c]$	[point]	to row
44 . am $_2$, um $_2$			
gruṃ	[krom]	[krom]	shellfish
ghuṃ	[khom]	[khom]	village
ghmuṃ	[khmom]	[kmom]	bee
juṃ	[com]	[com]	around
duṃ	[tom]	[tom]	ripe
dham	$[{ m thom}]$	[thom]	big
naṃ	[nom]	[nom]	cake
phgum	[phkom]	[phkom]	to assemble
phjuṃ	[phcom]	[phcom]	to gather
phnaṃ	[phnom]	[phnom]	mountain
mum	[mom]	[mom]	angle
yaṃ	[jom]	[jom]	to cry
rum	[rom]	[rom]	to wind
h"um	[hom]	[hom]	to wind
q"um	*[°om]	*[°om]	uncle, aunt