

# Preliminary Proposal to Encode the Kurux Banna in UCS

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## 1. Introduction

The purpose of the documents is to bring the attention of the Unicode Technical Committee (UTC) the Kurux Banna. It provides a draft character repertoire, names list, and some specimens. An allocation for the script should be made in the roadmap to the Supplementary Multilingual Plane. The code chart, name list, and all information presented here are subject to change. Additional information will be provided as it is obtained.

## 2. Background

Kurux Banna (also called ‘*Kūrux Bannā Siki/Lipi*’ ଶିଳିପି ଶବ୍ଦରୁ ନିର୍ମିତ or ‘*Kūrux Tor*’ ଶିଳିପି ନାମ) is an alphasyllabary based upon the Brahmi model. Kurux Banna (ଶିଳିପି ଶବ୍ଦରୁ) is a script used for writing Kurukh (ISO 639:krx and ISO 639:xis; Tolong Siki: ଚିଞ୍ଚିକି, Kurux Banna: ଶିଳିପି, Devanagari: कुड़ुख, Odia: କୁଡୁଖ and Bengali: কুড়ুখ), a Northern Dravidian language of 2.28 million people (census 2011) primarily spoken in Odisha, Jharkhand, West Bengal, Chhattisgarh, Assam, etc. of India.

Kurux Banna is developed by Basudeo Ram Khalkho in Odisha during the 1990s. The first book written by him is found in ‘*Kūrux Bannā Lipi Arā Bakka Garhan Part-1*’. This script is revised once in 1998. Some letters and numbers were reshaped and added one more sign. Kurukh language is used by Oraon and Kisan people. This script is mostly use by the Oraon people, concentrated in northern Odisha. A number people of Kisan people are using this script also. Most of the users are from Odisha, some number of users is also from other states like Jharkhand and West Bengal. Another script developed by Dr. Narayan Oraon (L2/23-024) in 1999 for Kurukh is ‘Tolong Siki’ (ଚିଞ୍ଚିକି ଚିଞ୍ଚିକି), which is widely used in West Bengal and Jharkhand. Both the scripts are being used. Both the scripts are developed differently and they are not related to each other.

Kurux Banna has been accepted as the official script by the *Kurux Bhasha Sahitya Vikas Parishad* (ଶିଳିପି ବାଣୀ ବିକାଶ ପରିଷଦ ନିର୍ଦ୍ଦେଶକ). Most of the books being published by this organization. Apart from this *All Odisha Kurukh Parha Yubak Sangh* (ସମସ୍ତ ଓଡ଼ିଶା କୁରୁଖ ପଢ଼ା ଯୁବାକ ସଂଘ) and *All India Kurukh Parha Yubak Sangh* (ସମସ୍ତ ଭାରତୀୟ କୁରୁଖ ପଢ଼ା ଯୁବାକ ସଂଘ) organizing various workshops all over the Odisha. *Raji Parha Bharat* (ରାଜୀ ପଢ଼ା ଭାରତ) organizing various workshop classes in Jashpur (Chhattisgarh). *Kūrux Bhāṣā Sāhitya Vikās Pariṣad, Jharkhand* (ଶିଳିପି ବାଣୀ ବିକାଶ ପରିଷଦ, ଝାଡ଼ଖଣ୍ଡ) is operating Kurukh schools in the state. Local organizations also use this script in their social gatherings or programs like: *Kurukh Jette Jatra* (ଶିଳିପି ଜିତ୍ତେ ଜାତ୍ରା), *Summer Vocation Student Meet* (ସମ୍ମତ ଶିଳିପି ଶିଳିପି ଶିଳିପି), *Daara Parha Barhabas* (ଦାଋ ପଢ଼ା ବାହାବାସ), etc.

There are 330+ digitized font (both in True Type and Open Type) designed by Basudeo Ram Khalkho himself. Some fonts are listed in comparison table and ‘*KuruxBanna Tirkey*’ font used in this proposal.

## 3. Writing System

### 3.1 Script Name

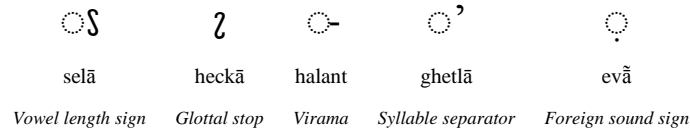
There are two main scripts for Kurukh: Kurux Banna and Tolong Siki. Both the scripts are also known as Kurukh Lipi. But the original name of this script is *Kūrux Bannā*. The word *Bannā* refers to the traditional signs that are used by the Kurukh community to decorate their homes and perform rituals. According to Basudeo Ram Khalkho, all the letters are made from the symbol called ‘*Ḍaṇḍā Kaṭṇā*’.

### 3.2 Structure

Kurux Banna is an alpha syllabic writing system based on simplified Brahmi model. It is written from left to right. Consonants may have an inherent vowel; typically is pronounced /a/ or /ə/, normally never occurs in final position. The script has conjunctions but *virama* also use to mute the inherent vowel. There is a font has a cursive form (ୱ, ୱି, ୱି, ୱି), some books call it a small casing letter. But this is nothing more than a glyphic variation.



There are 05 various signs ‘Cinhā’ ᱫᱷᱟᱱᱵᱟᱫᱽ:



- Sign ○᳚ *selā* is the prolongation /᳚:/sign of this script. It comes after the letter or vowel sign but comes before *ṭippā* and *candoṭippā* :  
 ᳚᳚ /kə:/, ᳚᳚᳚ /ki:/, ᳚᳚᳚ /kī:/, ᳚᳚᳚ /ku:/, ᳚᳚᳚ /kū:/, ᳚᳚᳚ /ke:/, ᳚᳚᳚ /kai:/, ᳚᳚᳚ /ko:/, ᳚᳚᳚ /kau:/,  
 ᳚᳚᳚ /kə:/, ᳚᳚᳚᳚ /kī:/, ᳚᳚᳚᳚ /kī:/, ᳚᳚᳚᳚ /kū:/, ᳚᳚᳚᳚ /kū:/, ᳚᳚᳚᳚ /kē:/, ᳚᳚᳚᳚ /kai:/, ᳚᳚᳚᳚ /kō:/, ᳚᳚᳚᳚ /kaū:/,  
 ᳚᳚᳚᳚ /kə:/, ᳚᳚᳚᳚᳚ /ki:/, ᳚᳚᳚᳚᳚ /kī:/, ᳚᳚᳚᳚᳚ /kū:/, ᳚᳚᳚᳚᳚ /kū:/, ᳚᳚᳚᳚᳚ /kē:/, ᳚᳚᳚᳚᳚ /kai:/, ᳚᳚᳚᳚᳚ /kō:/, ᳚᳚᳚᳚᳚ /kaū:/

- ᳚ *heckā* is the glottal stop /᳚/ of this script. It comes after the letter or signs:  
 ᳚᳚ /kə᳚/, ᳚᳚᳚ /ki᳚/, ᳚᳚᳚ /kī᳚/, ᳚᳚᳚ /ku᳚/, ᳚᳚᳚ /kū᳚/, ᳚᳚᳚ /ke᳚/, ᳚᳚᳚ /kai᳚/, ᳚᳚᳚ /ko᳚/, ᳚᳚᳚ /kau᳚/,  
 ᳚᳚᳚ /kə᳚:/, ᳚᳚᳚᳚ /ki᳚:/, ᳚᳚᳚᳚ /kī᳚:/, ᳚᳚᳚᳚ /ku᳚:/, ᳚᳚᳚᳚ /kū᳚:/, ᳚᳚᳚᳚ /ke᳚:/, ᳚᳚᳚᳚ /kai᳚:/, ᳚᳚᳚᳚ /ko᳚:/, ᳚᳚᳚᳚ /kau᳚:/

- Sign ○- *halant* is a VIRAMA sign of this script. It is used to make ligature and conjunctions. It never comes with a letter, always brings two letters together and sits in the middle of them.  
 Ligatures:

᳚᳚ *kṣa* <᳚ KA ○- VIRAMA ᳚ SSA>,  
 ᳚᳚ *jña* <᳚ JA ○- VIRAMA ᳚ NYA>,  
 ᳚᳚ *tra* <᳚ TA ○- VIRAMA ᳚ RA>

Conjunctions:

᳚᳚᳚ *kka* <᳚ KA ○- VIRAMA ᳚ KA>,  
 ᳚᳚᳚ *ja* <᳚ CA ○- VIRAMA ᳚ CA>,  
 ᳚᳚᳚ *ta* <᳚ TA ○- VIRAMA ᳚ TA>

It looks like Hyphen but its function is different. Hyphen is separately used in orthography.

- Sign ○’ *ghetlā* is a syllable boundary within a word. It may be unified with APOSTROPHE U+0027.

᳚᳚᳚᳚ /pardo/                      ᳚᳚᳚᳚’᳚ /pərd-o/,  
 ᳚᳚᳚᳚ /banna:/                      ᳚᳚᳚᳚’᳚ /ban-na:/

- Sign ○̣ *evā* is a NUKTA sign of this script. It is used for writing sounds that are not presented by a unique character, such as specific sounds and sounds that occur in Hindi-Urdu loanwords. This sign shown as ○̣ in Fig.3, due to printed issue.

Examples:

᳚᳚ *qa* <᳚ KA ○̣ NUKTA>,  
 ᳚᳚ *ya* <᳚ GA ○̣ NUKTA>,  
 ᳚᳚ *za* <᳚ JA ○̣ NUKTA>,  
 ᳚᳚ *fa* <᳚ PHA ○̣ NUKTA>

There are no script-specific signs of punctuation; conventional Latin signs are commonly used. [see fig.3]

.	;	,	-	?	!
gahlā ṭurā	miclā	ucrī ṭurā	pacā	paikā	isgā
<i>Full Stop</i>	<i>Semi Colon</i>	<i>Comma</i>	<i>Hyphen</i>	<i>Question Mark</i>	<i>Exclamation</i>
‘ ’	“ ”	( )	{ }	[ ]	
kaṭi delā	laṭi delā	kaṭi jalā	caṭi jalā	laṭi jalā	
<i>Single Quotes</i>	<i>Double Quotes</i>	<i>Parenthese</i>	<i>Braces</i>	<i>Brackets</i>	

There is a full set of decimal digits ‘Ganatī’ ଗନାତି: [see fig.4]

୦	୧	୨	୩	୪	୫	୬	୭	୮	୯
nidī	ond	ēr	mūnd	nāx	pance	soy	say	ax	nay
0	1	2	3	4	5	6	7	8	9

#### 4. Usage

The first school ‘Parha Adivasi Bal Vikash Loorkuriya’ was established in 1999 at Mudma, Jharkhand. There Kurukh language and Kurux Banna are the medium of instruction. Another school ‘Utkramit Prāthamik Vidhyālay Śaharberā’ established in 2018-19 at Saharbera, Jharkhand [see fig.29]. The first school ‘Addiyar’s Kurukh Loorkuriya’ in Odisha opened in Kalma of Rayagada district [see fig.30]. Along with this, Kurux Banna is being taught like Karanjia Primary School in many Government schools of Odisha. Many social institutions also run classes for adults such as: Kurukh Dara Parha, Addi Dharma Parha Manda and Raji Parha Sarna Prathna Sabha Bharat, Ranchi, etc. [see fig.33] Kurux Banna is currently used in writing and print for various purposes, as described below:

- **Educational Materials:** the first primer ‘Kūṛux Bannā Lipi Arā Bakka Garhan Part-1’ was published in 1991 by Basudeo Khalkho [see fig.10, 11, 12]. Another primer ‘Kūṛux Lipi Ṭurnā Parhnā’ was published in 1995 by the same author. These books are in handwritten form [see fig.13, 14, 15]. First digitized primer ‘Kūṛux Lipi Ṭurnā Bācnā’ (ନିମ୍ନୋକ୍ତ ପୁସ୍ତକ) is written by Basudeo Khalkho in 2012 [see fig.1, 2]. One more primer ‘Kūṛux Bannā Axaā’ (ନିମ୍ନୋକ୍ତ ପୁସ୍ତକ) is compiled by Ramchandra Xalxo in 2018. [see fig.7, 8, 9]
- **Newspaper:** ‘Pārḥā Rājī’ (ନିମ୍ନୋକ୍ତ ପତ୍ରିକା) is a Kurukh weekly newspaper runs by All India Kurukh Parha Yubak Sangh used Kurux Banna.[see fig.23]
- **Magazine:** first Kurukh magazine ‘Kūṛux Bijo Binko’ (ନିମ୍ନୋକ୍ତ ପତ୍ରିକା) published in 2016 written in both Odia and Kurux Banna script. Another magazine ‘Kūṛux Cambī Atxā’ (ନିମ୍ନୋକ୍ତ ପତ୍ରିକା) published in 2018. [see fig.22(a), 22(b)]
- **Ethnological works:** one book ‘Mukkā Sendrā’ (ନିମ୍ନୋକ୍ତ ପୁସ୍ତକ) was published in 2013 about historical background of Kurukh people. Karamdev Kujur’s ‘Karmā-Vrat Gahī Mahimā’ (କର୍ମ-ବ୍ରତ ଗହୀ ମହିମା/ପଠ୍ୟ-ପଠ୍ୟ ଗଣିତ) is a book based on Kurukh culture and folklore published in 2009. [see fig.24]
- **Literary works:** one prose ‘Kūṛux Khīrī Arā Katthṭūr’ (ନିମ୍ନୋକ୍ତ ପୁସ୍ତକ) published in 2017. [see fig.25]
- **Linguistic works:** a linguistic book ‘Kūṛux (Orāō) Bhāṣā Śikṣaṇ Pustikā’ (କୁରୁଖ (ଓରାଓ) ଭାଷା ଶିକ୍ଷଣ ପୁସ୍ତକ) is published by Academy of Tribal Languages & Culture, government of Odisha in 2015. It is written in Odia script, compiled by Dhaneswar Kerketta and Ramchandra Khalkho.
- **Digital Resources:** An Android Application ‘Kurukh Keyboard’ is available in Google Playstore. [see fig.47]
- **Workshops:** Many workshops still conducting by the various Kurukh associations throughout the years in Odisha, in India and in other countries states also. [see fig.46]
- **Other usage:** People are using the Kurux Banna in their rituals, walls, visiting card, invitation card, pamphlets, idol descriptions, posters, banner, book covers and sign boards. etc. [see fig.26, 28, 34, 35]

## 5. Historical Forms

Kurux Banna was revised in 1995 and 1998. Initially (in 1991) it did not have ञ NGA, ञ NYA, ञ NNA, ञ SSA, ञ XA, - VIRAMA and ◌ CANDOTIPPA. Which were included in 1995. There was some change in the signs of 1991; the position of ◌ *anusvara* was different. An additional symbol was ◌: *visarga* which was removed in 1995. The appearance of many letters and signs has been changed. Below was a comparison of the present letters with the letters of 1991:

<u>CURRENT</u>	<u>1991</u>
ञ A	ञ
ण I	ण
ण II	ण
ऊ U	ऊ
ऊ UU	ऊ
ई E	ई
ई AI	ई

<u>CURRENT</u>	<u>1991</u>
◌ -AA	◌
◌ -I	◌
◌ -II	◌
◌ -U	◌
◌ -UU	◌
◌ -E	◌
◌ -AI	◌
◌ -O	◌
◌ -AU	◌
◌ ANUSVARA	◌
◌ CANDOTIPPA	-
ऽ SELA	ऽ
ऽ HECHKA	ऽ
◌ NUKTA	-
◌ VIRAMA	-

CURRENT

𑌀 KA  
𑌁 KHA  
𑌂 GA  
𑌃 GHA  
𑌄 NGA  
𑌅 CA  
𑌆 CHA  
𑌇 JA  
𑌈 JHA  
𑌉 NYA  
𑌊 TTA  
𑌋 TTHA  
𑌌 DDA  
𑌍 DDHA  
𑌎 NNA  
𑌏 TA  
𑌐 THA  
𑌑 DA  
𑌒 DHA  
𑌓 NA  
𑌔 PA  
𑌕 PHA  
𑌖 BA  
𑌗 BHA  
𑌘 MA  
𑌙 YA  
𑌚 RA  
𑌛 LA  
𑌜 VA  
𑌝 SHA  
𑌞 SSA  
𑌟 SA  
𑌠 HA  
𑌡 RRA  
𑌢 RHA  
𑌣 XA

1991

𑌀  
𑌁  
𑌂  
𑌃  
-  
𑌅  
𑌆  
𑌇  
𑌈  
𑌉  
-  
𑌋  
𑌌  
𑌍  
-  
𑌏  
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𑌝  
-  
𑌟  
𑌠  
𑌡  
𑌢  
-

## 6. Proposed Unicode Repertoire

The proposed Unicode repertoire for ‘Kurux Banna’ contains of 68 characters: 7 vowels, 37 consonants, 5 various signs and 10 digits.

### 6.1 Vowel

<i>Glyph</i>	<i>Unicode Character name</i>	<i>Dev</i>	<i>Odia</i>	<i>Ben</i>
𑂀	KURUX BANNA LETTER A	अ	ଅ	অ
𑂁	KURUX BANNA LETTER I	इ	ଇ	ঈ
𑂂	KURUX BANNA LETTER II	ई	ଈ	ঐ
𑂃	KURUX BANNA LETTER U	उ	ଉ	ঊ
𑂄	KURUX BANNA LETTER UU	ऊ	ଊ	ঋ
𑂅	KURUX BANNA LETTER E	ए	ଏ	এ
𑂆	KURUX BANNA LETTER AI	ऐ	ଐ	ঐ

### 6.2 Consonants

<i>Glyph</i>	<i>Unicode Character name</i>	<i>Dev</i>	<i>Odia</i>	<i>Ben</i>
𑂇	KURUX BANNA LETTER KA	क	କ	ক
𑂈	KURUX BANNA LETTER KHA	ख	ଖ	খ
𑂉	KURUX BANNA LETTER GA	ग	ଗ	গ
𑂊	KURUX BANNA LETTER GHA	घ	ଘ	ঘ
𑂋	KURUX BANNA LETTER NGA	ङ	ଙ	ঙ
𑂌	KURUX BANNA LETTER CA	च	ଚ	চ
𑂍	KURUX BANNA LETTER CHA	छ	ଛ	ছ
𑂎	KURUX BANNA LETTER JA	ज	ଜ	জ
𑂏	KURUX BANNA LETTER JHA	झ	ଝ	ঝ
𑂐	KURUX BANNA LETTER NYA	ञ	ଞ	ঞ
𑂑	KURUX BANNA LETTER TTA	ट	ଟ	ট
𑂒	KURUX BANNA LETTER TTHA	ठ	ଠ	ঠ
𑂓	KURUX BANNA LETTER DDA	ड	ଡ	ড
𑂔	KURUX BANNA LETTER DDHA	ढ	ଢ	ঢ
𑂕	KURUX BANNA LETTER NNA	ण	ଣ	ণ
𑂖	KURUX BANNA LETTER TA	त	ତ	ত
𑂗	KURUX BANNA LETTER THA	थ	ଥ	থ
𑂘	KURUX BANNA LETTER DA	द	ଦ	দ
𑂙	KURUX BANNA LETTER DHA	ध	ଧ	ধ
𑂚	KURUX BANNA LETTER NA	न	ନ	ন

୩	KURUX BANNA LETTER PA	ପ	ପ	ପ
୩	KURUX BANNA LETTER PHA	ଫ	ଫ	ଫ
୩	KURUX BANNA LETTER BA	ବ	ବ	ବ
୩	KURUX BANNA LETTER BHA	ଭ	ଭ	ଭ
୩	KURUX BANNA LETTER MA	ମ	ମ	ମ
୩	KURUX BANNA LETTER YA	ଯ	ୟ	ୟ
୩	KURUX BANNA LETTER RA	ର	ର	ର
୩	KURUX BANNA LETTER LA	ଲ	ଲ	ଲ
୩	KURUX BANNA LETTER VA	ବ	ବ	ବ
୩	KURUX BANNA LETTER SHA	ଶ	ଶ	ଶ
୩	KURUX BANNA LETTER SSA	ଷ	ଷ	ଷ
୩	KURUX BANNA LETTER SA	ସ	ସ	ସ
୩	KURUX BANNA LETTER HA	ହ	ହ	ହ
୩	KURUX BANNA LETTER RRA	ଢ	ଢ	ଢ
୩	KURUX BANNA LETTER RHA	ଢ	ଢ	ଢ
୩	KURUX BANNA LETTER XA	୪	୪	୪
୩	KURUX BANNA LETTER HECHKA	-	-	-

### 6.3 Vowel Signs

<i>Glyph</i>	<i>Unicode Character name</i>	<i>Dev</i>	<i>Odia</i>	<i>Ben</i>
ା	KURUX BANNA LETTER SIGN AA	ା	ା	ା
ି	KURUX BANNA LETTER SIGN I	ି	ି	ି
ୀ	KURUX BANNA LETTER SIGN II	ୀ	ୀ	ୀ
ୁ	KURUX BANNA LETTER SIGN U	ୁ	ୁ	ୁ
ୂ	KURUX BANNA LETTER SIGN UU	ୂ	ୂ	ୂ
େ	KURUX BANNA LETTER SIGN E	େ	େ	େ
ୈ	KURUX BANNA LETTER SIGN AI	ୈ	ୈ	ୈ
ୋ	KURUX BANNA LETTER SIGN O	ୋ	ୋ	ୋ
ୌ	KURUX BANNA LETTER SIGN AU	ୌ	ୌ	ୌ



## 6.4 Various Signs

<i>Glyph</i>	<i>Unicode Character name</i>	<i>Dev</i>	<i>Odia</i>	<i>Ben</i>
◌̣	KURUX BANNA SIGN ANUSVARA	◌̣	◌̣	◌̣
◌̣̣	KURUX BANNA SIGN CANDOTIPPA	◌̣̣	◌̣̣	◌̣̣
◌̣̣̣	KURUX BANNA SIGN SELA	-	-	-
◌̣̣̣̣	KURUX BANNA SIGN NUKTA	◌̣̣̣̣	◌̣̣̣̣	◌̣̣̣̣
◌̣̣̣̣̣	KURUX BANNA SIGN VIRAMA	◌̣̣̣̣̣	◌̣̣̣̣̣	◌̣̣̣̣̣

## 6.5 Digits

There is full set of decimal digits: ୦ ZERO, ୧ ONE, ୨ TWO, ୩ THREE, ୪ FOUR, ୫ FIVE, ୬ SIX, ୭ SEVEN, ୮ EIGHT, ୯ NINE.

## 6.6 Punctuation

There are no script-specific punctuation marks. Latin marks, such as : , < > ; \_ ‘ ’ () ? \ / - and ! are used.

## 7. Collation

The collation order is as follows:

< ୩ A < ୩ I < ୩ II < ୩ U < ୩ UU < ୩ E < ୩ AI < ୩ KA < ୩ KHA < ୩ GA < ୩ GHA < ୩ NGA < ୩ CA < ୩ CHA < ୩ JA < ୩ JHA < ୩ NYA < ୩ TTA < ୩ TTHA < ୩ DDA < ୩ DDHA < ୩ NNA < ୩ TA < ୩ THA < ୩ DA < ୩ DHA < ୩ NA < ୩ PA < ୩ PHA < ୩ BA < ୩ BHA < ୩ MA < ୩ YA < ୩ RA < ୩ LA < ୩ VA < ୩ SHA < ୩ SSA < ୩ SA < ୩ HA < ୩ RRA < ୩ RHA < ୩ XA < ୩ HECHKA < ୩ SIGN AA < ୩ SIGN I < ୩ SIGN II < ୩ SIGN U < ୩ SIGN UU < ୩ SIGN E < ୩ SIGN AI < ୩ SIGN O < ୩ SIGN AU < ୩ SIGN ANUSVARA < ୩ SIGN CANDOTIPPA < ୩ SIGN SELA < ୩ SIGN NUKTA < ୩ SIGN VIRAMA < ୦ DIGIT ZERO < ୧ DIGIT ONE < ୨ DIGIT TWO < ୩ DIGIT THREE < ୪ DIGIT FOUR < ୫ DIGIT FIVE < ୬ DIGIT SIX < ୭ DIGIT SEVEN < ୮ DIGIT EIGHT < ୯ DIGIT NINE

## 8. Linebreaking

Linebreaks may occur after an orthographic syllable. Hyphens or other marks indicating continuance are not used.

## 9. Acknowledgements

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- Basudeo Ram Khalkho
- Shyam Murmu
- Mangla Xalxo
- Roshan Toppo
- Sankar Oraon Tirkey



## b. Linebreaking

In the format of LineBreak.txt:

```
xxx00..xxx2B ; AL # [44] KURUX BANNA LETTER A .. KURUX BANNA LETTER HECHKA
xxx2C..xxx34 ; CM # [09] KURUX BANNA LETTER SIGN AA .. KURUX BANNA LETTER SIGN AU
xxx35..xxx39 ; CM # [05] KURUX BANNA SIGN ANUSVARA .. KURUX BANNA SIGN VIRAMA
xxx40..xxx49 ; NU # [10] KURUX BANNA DIGIT ZERO .. KURUX BANNA DIGIT NINE
```

## c. Syllabic Categories

In the format of IndicSyllabicCategory.txt:

```
# Indic_Syllabic_Category=Bindu
xxx35..xxx36 ; Bindu # Mc [02] KURUX BANNA SIGN ANUSVARA .. KURUX BANNA SIGN CANDOTIPPA
# Indic_Syllabic_Category=Nukta
xxx38 ; Nukta # Mn KURUX BANNA SIGN NUKTA
# Indic_Syllabic_Category=Virama
xxx39 ; Virama # Mn KURUX BANNA SIGN VIRAMA
# Indic_Syllabic_Category=Vowel_Independent
xxx00..xxx06 ; Vowel_Independent # Lo [07] KURUX BANNA LETTER A .. KURUX BANNA LETTER AI
# Indic_Syllabic_Category=Consonant_Dependent
xxx2B..xxx33 ; Consonant_Dependent # Mn [09] KURUX BANNA LETTER SIGN AA .. KURUX BANNA LETTER SIGN AU
# Indic_Syllabic_Category=Consonant
xxx07..xxx2B ; Consonant # Lo [37] KURUX BANNA LETTER KA .. KURUX BANNA LETTER HECHKA
# Indic_Syllabic_Category=Tone_Mark
xxx37 ; Tone_Mark # Mn KURUX BANNA SIGN SELA
# Indic_Syllabic_Category=Number
xxx40..xxx49 ; Number # Nd [10] KURUX BANNA DIGIT ZERO .. KURUX BANNA DIGIT NINE
```

## d. Positional Categories

In the format of IndicPositionalCategory.txt:

```
# Indic_Positional_Category=Right
xxx2C ; Right # Mc KURUX BANNA SIGN AA
xxx2E..xxx34 ; Right # Mc [07] KURUX BANNA LETTER SIGN II .. KURUX BANNA LETTER SIGN AU
xxx37 ; Right # Mn KURUX BANNA SIGN SELA
xxx39 ; Right # Mn KURUX BANNA SIGN VIRAMA
# Indic_Positional_Category=Left
xxx2D ; Left # Mc KURUX BANNA SIGN I
# Indic_Positional_Category=Top
xxx35..xxx36 ; Top # Mn [02] KURUX BANNA SIGN ANUSVARA .. KURUX BANNA SIGN CANDOTIPPA
# Indic_Positional_Category=Bottom
xxx38 ; Bottom # Mn KURUX BANNA SIGN NUKTA
```

U+xxx00

KURUX BANNA

U+xxx3F

	xxx0	xxx1	xxx2	xxx3	xxx4
0	ᱠ	ᱡ	ᱢ	ᱣ	ᱤ
1	ᱥ	ᱦ	ᱧ	ᱨ	ᱩ
2	ᱪ	ᱫ	ᱬ	ᱭ	ᱮ
3	ᱯ	ᱰ	ᱱ	ᱲ	ᱳ
4	ᱵ	ᱶ	ᱷ	ᱸ	ᱹ
5	ᱺ	ᱻ	ᱼ	ᱽ	᱾
6	᱿	᱀	᱁	᱂	᱃
7	᱄	᱅	᱆	᱇	᱈
8	᱉	᱊	᱋	᱌	ᱍ
9	ᱎ	ᱏ	᱐	᱑	᱒
A	᱓	᱔	᱕		
B	᱖	᱗	᱘		
C	᱙	ᱚ	ᱛ		
D	ᱜ	ᱝ	ᱞ		
E	ᱟ	ᱠ	ᱡ		
F	ᱢ	ᱣ	ᱤ		

## Independent Vowels

xxx00	ᱠ	KURUX BANNA LETTER A <ul style="list-style-type: none"><li>• Also used as a LETTER carrier</li></ul>
xxx01	ᱡ	KURUX BANNA LETTER I
xxx02	ᱢ	KURUX BANNA LETTER II
xxx03	ᱣ	KURUX BANNA LETTER U
xxx04	ᱤ	KURUX BANNA LETTER UU
xxx05	ᱥ	KURUX BANNA LETTER E
xxx06	ᱦ	KURUX BANNA LETTER AI

## Consonants

xxx07	ᱧ	KURUX BANNA LETTER KA
xxx08	ᱨ	KURUX BANNA LETTER KHA
xxx09	ᱩ	KURUX BANNA LETTER GA
xxx0A	ᱪ	KURUX BANNA LETTER GHA
xxx0B	ᱫ	KURUX BANNA LETTER NGA
xxx0C	ᱬ	KURUX BANNA LETTER CA
xxx0D	ᱭ	KURUX BANNA LETTER CHA
xxx0E	ᱮ	KURUX BANNA LETTER JA
xxx0F	ᱯ	KURUX BANNA LETTER JHA
xxx10	ᱰ	KURUX BANNA LETTER NYA
xxx11	ᱱ	KURUX BANNA LETTER TTA
xxx12	ᱲ	KURUX BANNA LETTER TTHA
xxx13	ᱳ	KURUX BANNA LETTER DDA
xxx14	ᱴ	KURUX BANNA LETTER DDHA
xxx15	ᱵ	KURUX BANNA LETTER NNA
xxx16	ᱶ	KURUX BANNA LETTER TA
xxx17	ᱷ	KURUX BANNA LETTER THA
xxx18	ᱸ	KURUX BANNA LETTER DA
xxx19	ᱹ	KURUX BANNA LETTER DHA
xxx1A	ᱺ	KURUX BANNA LETTER NA
xxx1B	ᱻ	KURUX BANNA LETTER PA
xxx1C	ᱼ	KURUX BANNA LETTER PHA
xxx1D	ᱽ	KURUX BANNA LETTER BA
xxx1E	᱾	KURUX BANNA LETTER BHA
xxx1F	᱿	KURUX BANNA LETTER MA
xxx20	ᱠ	KURUX BANNA LETTER YA
xxx21	ᱡ	KURUX BANNA LETTER RA
xxx22	ᱢ	KURUX BANNA LETTER LA
xxx23	ᱣ	KURUX BANNA LETTER VA
xxx24	ᱤ	KURUX BANNA LETTER SHA
xxx25	ᱥ	KURUX BANNA LETTER SSA
xxx26	ᱦ	KURUX BANNA LETTER SA
xxx27	ᱧ	KURUX BANNA LETTER HA
xxx28	ᱨ	KURUX BANNA LETTER RRA
xxx29	ᱩ	KURUX BANNA LETTER RHA
xxx2A	ᱪ	KURUX BANNA LETTER XA
xxx2B	ᱫ	KURUX BANNA LETTER HECHKA = Glottal Stop

## Dependent Vowel Signs

xxx2C	◌	KURUX BANNA LETTER SIGN AA
xxx2D	◌ ◌	KURUX BANNA LETTER SIGN I
xxx2E	◌ ◌	KURUX BANNA LETTER SIGN II
xxx2F	◌ ◌	KURUX BANNA LETTER SIGN U
xxx30	◌ ◌	KURUX BANNA LETTER SIGN UU
xxx31	◌ ◌	KURUX BANNA LETTER SIGN E
xxx32	◌ ◌	KURUX BANNA LETTER SIGN AI
xxx33	◌ ◌	KURUX BANNA LETTER SIGN O
xxx34	◌ ◌	KURUX BANNA LETTER SIGN AU

## Various Signs

xxx35	◌◌	KURUX BANNA SIGN ANUSVARA
xxx36	◌◌	KURUX BANNA SIGN CANDOTIPPA
xxx37	◌◌	KURUX BANNA SIGN SELA
xxx38	◌◌	KURUX BANNA SIGN NUKTA
xxx39	◌◌	KURUX BANNA SIGN VIRAMA

## Digits

xxx40	0	KURUX BANNA DIGIT ZERO
xxx41	1	KURUX BANNA DIGIT ONE
xxx42	୧	KURUX BANNA DIGIT TWO
xxx43	୩	KURUX BANNA DIGIT THREE
xxx44	୫	KURUX BANNA DIGIT FOUR
xxx45	୬	KURUX BANNA DIGIT FIVE
xxx46	୭	KURUX BANNA DIGIT SIX
xxx47	୮	KURUX BANNA DIGIT SEVEN
xxx48	୯	KURUX BANNA DIGIT EIGHT
xxx49	୯	KURUX BANNA DIGIT NINE

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कुँडुख बन्ना बड़ा एवं छोटा अक्षर

स्वर वर्ण (Vowels)

अ आ इ ई उ ऊ ए ऐ ओ औ अं अँ ऽ ॐ

अ आ इ ई उ ऊ ए ऐ ओ औ अं अँ ऽ ॐ

ऽ (सेला) - लम्बी ध्वनि (Long Phonetic Symbol)      ॐ (हेचका) - विकारी 'अ' (Glotal Stop)

व्यञ्जन वर्ण (Consonant)

Kurukh Numerals

क ण ण	ख ए ए	ग ण ण	घ ण ण	ङ ढ ढ	० = 0
च ढ ढ	छ ण छ	ज ण ज	झ ण झ	ञ ण ञ	१ = 1
ट ढ ट	ठ ण ठ	ड ण ड	ढ ण ढ	ण ण ण	२ = 2
त ण त	थ ए थ	द ण द	ध ण ध	न ण न	३ = 3
प ण प	फ ण फ	ब ण ब	भ ण भ	म ण म	४ = 4
य ए य	र ए र	ल ण ल	व ण व	श ण श	५ = 5
ष ण ष	स ए स	ह ए ह	क्ष ण क्ष	त्र ण त्र	६ = 6
ञ ण ञ	ट ण ट	ड ण ड	ढ ण ढ	ण ण ण	७ = 7
					८ = 8
					९ = 9
					१० = 10

Fig 2: Kurux Banna script with cursive form (small letter). (Khalkho, 51:2012)

## सूचक चिन्ह- (Punctuation Marks)

चिन्ह	कुरुख	हिन्दी	ଓଡ଼ିଆ	अंग्रेजी
ॐ	- सेला	- लम्बी ध्वनि	- ଲମ୍ବା ଧ୍ୱନି	-(Long Phone)
ॐ	- हेचका	- विकारी 'अ'	- ବିକାରୀ 'ଅ'	-(Glotal Stop)
ँ	- चन्दोटिप्पा	- चन्द्र विन्दु	- ଚନ୍ଦ୍ର ବିନ୍ଦୁ	-(Nasal Vowel Index)
ं	- टिप्पा	- नासिक्य स्वर सूचक	- ନାସିକ୍ୟ ସ୍ୱର ସୂଚକ	-(Nasal Vowel Index)
ॐ	- घेतला	- शब्द खण्ड सूचक	- ଶବ୍ଦ ଖଣ୍ଡ ସୂଚକ	-(Syllable Index)
ॐ	- पचा	- संयोजक चिन्ह	- ସଂଯୋଜକ ଚିହ୍ନ	-(Hyphen)
ॐ;	- मिचला	- सेमीकॉलन	- ସେମିକୋଲନ	-(Semi Colon)
ॐ,	- उचरी टुड़ा	- अर्द्ध विराम	- ଅର୍ଦ୍ଧ ବିରାମ	-(Comma)
ॐ.	- गहला टुड़ा	- पूर्ण विराम	- ପୂର୍ଣ୍ଣ ବିରାମ	-(Full Stop)
ॐ?	- पईका	- प्रश्न चिन्ह	- ପ୍ରଶ୍ନ ଚିହ୍ନ	-(Question Mark)
ॐ!	- इसगा	- विस्मय सूचक चिन्ह	- ବିସ୍ମୟ ସୂଚକ ଚିହ୍ନ	-(Exclamation)
‘ॐ’	- कटि डेला	- लघु उद्धरण चिन्ह	- ଲଘୁ ଉଦ୍ଧୃତ ଚିହ୍ନ	-(Single Quotes)
“ॐ”	- लटि डेला	- दीर्घ उद्धरण चिन्ह	- ଦୀର୍ଘ ଉଦ୍ଧୃତ ଚିହ୍ନ	-(Double Quotes)
(ॐ)	- कटि जला	- छोटा कोष्ठ	- ଛୋଟ ବନ୍ଧନୀ	-(Small Bracket)
{ॐ}	- चटि जला	- मझला कोष्ठ	- ମଞ୍ଜଳ ବନ୍ଧନୀ	-(Middle Bracket)
[ॐ]	- लटि जला	- बड़ा कोष्ठ	- ବଡ଼ ବନ୍ଧନୀ	-(Large Bracket)
ॐ	- एवाँ	- विदेशज ध्वनि सूचक	- ବିଦେଶୀୟ ଧ୍ୱନି ସୂଚକ	-(Foreign sound indicator)

## गणितिक चिन्ह -(Mathematical symbol)

+	- जोड़	- जोड़ चिन्ह	- ଯୋଗ ଚିହ୍ନ	-(Addition)
-	- घटाव	- घटाव चिन्ह	- ବିଯୋଗ ଚିହ୍ନ	-(Substraction)
X	- गुणा	- गुणा चिन्ह	- ଗୁଣନ ଚିହ୍ନ	-(Multiplication)
÷	- भाग	- भाग चिन्ह	- ବିଭକ୍ତ ଚିହ୍ନ	-(Division)
=	- बराबरी	- बराबर चिन्ह	- ସମାନ ଚିହ୍ନ	-(Equator)

Fig 3: list of punctuation marks used in Kurux Banna script. (Khalkho, 21:2012)

**୧୦୧୨୩୪୫୬୭୮୯୧୦ କୁରୁଖ ଗନତୀ କୁଡୁଖ ଗନତୀ କୁଡୁଖ ଗନତୀ**

Digital

୧	୧	୧୧	୧୧	୧୧	୧୧	୧୧	୧୧	୧୧	୧୧	୧୧
୨	୧୨	୧୧୨	୧୧୨	୧୧୨	୧୧୨	୧୧୨	୧୧୨	୧୧୨	୧୧୨	୧୧୨
୩	୧୩	୧୧୩	୧୧୩	୧୧୩	୧୧୩	୧୧୩	୧୧୩	୧୧୩	୧୧୩	୧୧୩
୪	୧୪	୧୧୪	୧୧୪	୧୧୪	୧୧୪	୧୧୪	୧୧୪	୧୧୪	୧୧୪	୧୧୪
୫	୧୫	୧୧୫	୧୧୫	୧୧୫	୧୧୫	୧୧୫	୧୧୫	୧୧୫	୧୧୫	୧୧୫
୬	୧୬	୧୧୬	୧୧୬	୧୧୬	୧୧୬	୧୧୬	୧୧୬	୧୧୬	୧୧୬	୧୧୬
୭	୧୭	୧୧୭	୧୧୭	୧୧୭	୧୧୭	୧୧୭	୧୧୭	୧୧୭	୧୧୭	୧୧୭
୮	୧୮	୧୧୮	୧୧୮	୧୧୮	୧୧୮	୧୧୮	୧୧୮	୧୧୮	୧୧୮	୧୧୮
୯	୧୯	୧୧୯	୧୧୯	୧୧୯	୧୧୯	୧୧୯	୧୧୯	୧୧୯	୧୧୯	୧୧୯
୧୦	୧୧୦	୧୧୧୦	୧୧୧୦	୧୧୧୦	୧୧୧୦	୧୧୧୦	୧୧୧୦	୧୧୧୦	୧୧୧୦	୧୧୧୦

୦ ୧ ୧୧ ୧୧ ୧୧ ୧୧ ୧୧ ୧୧ ୧୧ ୧୧ ୧୧୦  
 ଗୁଣା ଶାଂଢ ଶୈଢ ମାଠଢ ଠାଠଢ ଠିଠଢ ଠାଠଢ ଠାଠଢ ଶାଠଢ ଠଠଢ ଠାଠଢ  
 ନିଦି ଠାଠଢ ଠାଠଢ ମୁନ୍ଦ ନାଠଢ ପଠଢ ଠାଠଢ ଠାଠଢ ଠାଠଢ ଠାଠଢ ଠାଠଢ ଠାଠଢ  
 ନିଦି ଠାଠଢ ଠାଠଢ ମୁନ୍ଦ ନାଠଢ ପଠଢ ଠାଠଢ ଠାଠଢ ଠାଠଢ ଠାଠଢ ଠାଠଢ ଠାଠଢ  
 ନିଦି ଠାଠଢ ଠାଠଢ ମୁନ୍ଦ ନାଠଢ ପଠଢ ଠାଠଢ ଠାଠଢ ଠାଠଢ ଠାଠଢ ଠାଠଢ ଠାଠଢ  
 NIDI OND ENR MUND NAX PANCHE SOY SAY AX NAY DOY

୧୦ ୧୧୦ ୧୧୧୦ ୧୧୧୦ ୧୧୧୦ ୧୧୧୦ ୧୧୧୦ ୧୧୧୦ ୧୧୧୦ ୧୧୧୦  
 ଠାଠଢ, ଠାଠଢ, ମାଠଢ, ଠାଠଢ, ଠାଠଢ, ଠାଠଢ, ଠାଠଢ, ଠାଠଢ, ଠାଠଢ, ଠାଠଢ, ଠାଠଢ  
 ଦାଠଢ, ଏନ୍ଦି, ମୁନ୍ଦି, ନାଠଢ, ପନ୍ଦି, ଠାଠଢ, ଠାଠଢ, ଠାଠଢ, ନାଠଢ, ଠାଠଢ, ଠାଠଢ  
 ଦାଠଢ, ଏନ୍ଦି, ମୁନ୍ଦି, ନାଠଢ, ପନ୍ଦି, ଠାଠଢ, ଠାଠଢ, ଠାଠଢ, ନାଠଢ, ଠାଠଢ, ଠାଠଢ  
 DOY ENDI MUNDI NAXDI PANDI SOYDI SAYDI AXDI NAYDI SUDDI

Fig 4: Kurux Banna digits. (Khalkho, 55:2012)

गणहण (रुहण) ककहरा (पड़हरा)


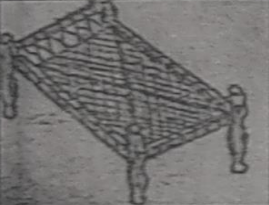



क का कि की कु कू के कै को कौ कं कँ

क	क	का	कि	की	कु	कू	के	कै	को	कौ	कं	कँ
ख	ख	खा	खि	खी	खु	खू	खे	खै	खो	खौ	खं	खँ
ग	ग	गा	गि	गी	गु	गू	गे	गै	गो	गौ	गं	गँ
घ	घ	घा	घि	घी	घु	घू	घे	घै	घो	घौ	घं	घँ
ङ	ङ	ङा	ङि	ङी	ङु	ङू	ङे	ङै	ङो	ङौ	ङं	ङँ
च	च	चा	चि	ची	चु	चू	चे	चै	चो	चौ	चं	चँ
छ	छ	छा	छि	छी	छु	छू	छे	छै	छो	छौ	छं	छँ
ज	ज	जा	जि	जी	जु	जू	जे	जै	जो	जौ	जं	जँ
झ	झ	झा	झि	झी	झु	झू	झे	झै	झो	झौ	झं	झँ
ञ	ञ	ञा	ञि	ञी	ञु	ञू	ञे	ञै	ञो	ञौ	ञं	ञँ
ट	ट	टा	टि	टी	टु	टू	टे	टै	टो	टौ	टं	टँ
ठ	ठ	ठा	ठी	ठी	ठु	ठू	ठे	ठै	ठो	ठौ	ठं	ठँ
ड	ड	डा	डि	डी	डु	डू	डे	डै	डो	डौ	डं	डँ
ढ	ढ	ढा	ढि	ढी	ढु	ढू	ढे	ढै	ढो	ढौ	ढं	ढँ
ण	ण	णा	णि	णी	णु	णू	णे	णै	णो	णौ	णं	णँ
त	त	ता	ति	ती	तु	तू	ते	तै	तो	तौ	तं	तँ
थ	थ	था	थि	थी	थु	थू	थे	थै	थो	थौ	थं	थँ
द	द	दा	दि	दी	दु	दू	दे	दै	दो	दौ	दं	दँ
ध	ध	धा	धि	धी	धु	धू	धे	धै	धो	धौ	धं	धँ






गणहण (रुहण) ककहरा (पड़हरा)

न	न	ना	नि	नी	नु	नू	ने	नै	नो	नौ	नं	नँ
प	प	पा	पि	पी	पु	पू	पे	पै	पो	पौ	पं	पँ
फ	फ	फा	फि	फी	फु	फू	फे	फै	फो	फौ	फं	फँ
ब	ब	बा	बि	बी	बु	बू	बे	बै	बो	बौ	बं	बँ
भ	भ	भा	भि	भी	भु	भू	भे	भै	भो	भौ	भं	भँ
म	म	मा	मि	मी	मु	मू	मे	मै	मो	मौ	मं	मँ
य	य	या	यि	यी	यु	यू	ये	यै	यो	यौ	यं	यँ
र	र	रा	रि	री	रु	रू	रे	रै	रो	रौ	रं	रँ
ल	ल	ला	लि	ली	लु	लू	ले	लै	लो	लौ	लं	लँ
व	व	वा	वि	वी	वु	वू	वे	वै	वो	वौ	वं	वं
श	श	शा	शि	शी	शु	शू	शे	शै	शो	शौ	शं	शँ
ष	ष	षा	षि	षी	षु	षू	षे	षै	षो	षौ	षं	षँ
स	स	सा	सि	सी	सु	सू	से	सै	सो	सौ	सं	सँ
ह	ह	हा	हि	ही	हु	हू	हे	है	हो	हौ	हं	हँ
क्ष	क्ष	क्षा	क्षि	क्षी	क्षु	क्षू	क्षे	क्षै	क्षो	क्षौ	क्षं	क्षँ
त्र	त्र	त्रा	त्रि	त्री	त्रु	त्रू	त्रे	त्रै	त्रो	त्रौ	त्रं	त्रँ
ज्ञ	ज्ञ	ज्ञा	ज्ञि	ज्ञी	ज्ञु	ज्ञू	ज्ञे	ज्ञै	ज्ञो	ज्ञौ	ज्ञं	ज्ञँ
ड़	ड़	ड़ा	ड़ि	ड़ी	ड़ु	ड़ू	ड़े	ड़ै	ड़ो	ड़ौ	ड़ं	ड़ँ
ढ़	ढ़	ढ़ा	ढ़ि	ढ़ी	ढ़ु	ढ़ू	ढ़े	ढ़ै	ढ़ो	ढ़ौ	ढ़ं	ढ़ँ
ख्व	ख्व	ख्वा	ख्वि	ख्वी	ख्वु	ख्वू	ख्वे	ख्वै	ख्वो	ख्वौ	ख्वं	ख्वँ

Fig 5: shows consonant-vowel ligatures. (Khalkho, 30-31:2012)

କୃଷ୍ଣ ବନ୍ନା ଦେଶ-ସାଧନ		
	ଠ କ କ କ	ଠାଠା କଚୁଆ କଛୁଆ କଛୁଆ
	ଥ ଖ ଖ ଥ	ଥଥୀ ଖଟି ଖଟୀ ଥଟି
	ଗ ଗ ଗ ଗ	ଗଢ଼େ ଗଦହା ଗଦହା ଗଦହା
	ଘ ଘ ଘ ଘ	ଘଢ଼ୀ ଘଡ଼ୀ ଘଡ଼ୀ ଘଡ଼ୀ
	ଝ ଝ ଝ ଝ	ଝଝଝ ଅୟଝ ଅୟଝ ଅୟଝ

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କୃଷ୍ଣ ବନ୍ନା ଦେଶ-ସାଧନ		
	ଢ ଚ ଚ ଚ	ଢ଼ଢ଼ୀ ଚମ୍ବୀ ଚମ୍ବୀ ଚମ୍ବୀ
	ଢ ଛ ଛ ଛ	ଢ଼ଢ଼ୀ ଛକନୀ ଛକନୀ ଛକନୀ
	ଜ ଜ ଜ ଜ	ଜଞ୍ଜୀ ଜଲ୍ଲୀ ଜଲ୍ଲୀ ଜଲ୍ଲୀ
	ଝ ଝ ଝ ଝ	ଝଞ୍ଜା ଝଞ୍ଜା ଝଞ୍ଜା ଝଞ୍ଜା
	ଝ ଝ ଝ ଝ	ଝଞ୍ଜା ଝିଞ୍ଜା ଝିଞ୍ଜା ଝିଞ୍ଜା

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Fig 6: Extracted from Kūṛux Lipi Ṭṛṇā Bācnā . (Khalkho, 14-15:2012)

**कुँडुख उराँव भाषा की लिपि “कुँडुख बन्ना”**

𑂔𑂕𑂖𑂗𑂘𑂙𑂚𑂛𑂜𑂝𑂞𑂟𑂠𑂡𑂢𑂣𑂤𑂥𑂦𑂧𑂨𑂩𑂪𑂫𑂬𑂭𑂮𑂯𑂰𑂱𑂲𑂳𑂴𑂵𑂶𑂷𑂸𑂺𑂹𑂻𑂼𑂽𑂾𑂿𑃀𑃁𑃂𑃃𑃄𑃅𑃆𑃇𑃈𑃉𑃊𑃋𑃌𑃍𑃎𑃏𑃐𑃑𑃒𑃓𑃔𑃕𑃖𑃗𑃘𑃙𑃚𑃛𑃜𑃝𑃞𑃟𑃠𑃡𑃢𑃣𑃤𑃥𑃦𑃧𑃨𑃩𑃪𑃫𑃬𑃭𑃮𑃯𑃰𑃱𑃲𑃳𑃴𑃵𑃶𑃷𑃸𑃹𑃺𑃻𑃼𑃽𑃾𑃿𑄀𑄁𑄂𑄃𑄄𑄅𑄆𑄇𑄈𑄉𑄊𑄋𑄌𑄍𑄎𑄏𑄐𑄑𑄒𑄓𑄔𑄕𑄖𑄗𑄘𑄙𑄚𑄛𑄜𑄝𑄞𑄟𑄠𑄡𑄢𑄣𑄤𑄥𑄦𑄧𑄨𑄩𑄪𑄫𑄬𑄭𑄮𑄯𑄰𑄱𑄲𑄳𑄴𑄵𑄶𑄷𑄸𑄹𑄺𑄻𑄼𑄽𑄾𑄿𑅀𑅁𑅂𑅃𑅄𑅅𑅆𑅇𑅈𑅉𑅊𑅋𑅌𑅍𑅎𑅏𑅐𑅑𑅒𑅓𑅔𑅕𑅖𑅗𑅘𑅙𑅚𑅛𑅜𑅝𑅞𑅟𑅠𑅡𑅢𑅣𑅤𑅥𑅦𑅧𑅨𑅩𑅪𑅫𑅬𑅭𑅮𑅯𑅰𑅱𑅲𑅳𑅴𑅵𑅶𑅷𑅸𑅹𑅺𑅻𑅼𑅽𑅾𑅿𑆀𑆁𑆂𑆃𑆄𑆅𑆆𑆇𑆈𑆉𑆊𑆋𑆌𑆍𑆎𑆏𑆐𑆑𑆒𑆓𑆔𑆕𑆖𑆗𑆘𑆙𑆚𑆛𑆜𑆝𑆞𑆟𑆠𑆡𑆢𑆣𑆤𑆥𑆦𑆧𑆨𑆩𑆪𑆫𑆬𑆭𑆮𑆯𑆰𑆱𑆲𑆳𑆴𑆵𑆶𑆷𑆸𑆹𑆺𑆻𑆼𑆽𑆾𑆿𑇀𑇁𑇂𑇃𑇄𑇅𑇆𑇇𑇈𑇉𑇊𑇋𑇌𑇍𑇎𑇏𑇐𑇑𑇒𑇓𑇔𑇕𑇖𑇗𑇘𑇙𑇚𑇛𑇜𑇝𑇞𑇟𑇠𑇡𑇢𑇣𑇤𑇥𑇦𑇧𑇨𑇩𑇪𑇫𑇬𑇭𑇮𑇯𑇰𑇱𑇲𑇳𑇴𑇵𑇶𑇷𑇸𑇹𑇺𑇻𑇼𑇽𑇾𑇿𑈀𑈁𑈂𑈃𑈄𑈅𑈆𑈇𑈈𑈉𑈊𑈋𑈌𑈍𑈎𑈏𑈐𑈑𑈒𑈓𑈔𑈕𑈖𑈗𑈘𑈙𑈚𑈛𑈜𑈝𑈞𑈟𑈠𑈡𑈢𑈣𑈤𑈥𑈦𑈧𑈨𑈩𑈪𑈫𑈬𑈭𑈮𑈯𑈰𑈱𑈲𑈳𑈴𑈶𑈵𑈷𑈸𑈹𑈺𑈻𑈼𑈽𑈾𑈿𑉀𑉁𑉂𑉃𑉄𑉅𑉆𑉇𑉈𑉉𑉊𑉋𑉌𑉍𑉎𑉏𑉐𑉑𑉒𑉓𑉔𑉕𑉖𑉗𑉘𑉙𑉚𑉛𑉜𑉝𑉞𑉟𑉠𑉡𑉢𑉣𑉤𑉥𑉦𑉧𑉨𑉩𑉪𑉫𑉬𑉭𑉮𑉯𑉰𑉱𑉲𑉳𑉴𑉵𑉶𑉷𑉸𑉹𑉺𑉻𑉼𑉽𑉾𑉿𑊀𑊁𑊂𑊃𑊄𑊅𑊆𑊇𑊈𑊉𑊊𑊋𑊌𑊍𑊎𑊏𑊐𑊑𑊒𑊓𑊔𑊕𑊖𑊗𑊘𑊙𑊚𑊛𑊜𑊝𑊞𑊟𑊠𑊡𑊢𑊣𑊤𑊥𑊦𑊧𑊨𑊩𑊪𑊫𑊬𑊭𑊮𑊯𑊰𑊱𑊲𑊳𑊴𑊵𑊶𑊷𑊸𑊹𑊺𑊻𑊼𑊽𑊾𑊿𑋀𑋁𑋂𑋃𑋄𑋅𑋆𑋇𑋈𑋉𑋊𑋋𑋌𑋍𑋎𑋏𑋐𑋑𑋒𑋓𑋔𑋕𑋖𑋗𑋘𑋙𑋚𑋛𑋜𑋝𑋞𑋟𑋠𑋡𑋢𑋣𑋤𑋥𑋦𑋧𑋨𑋩𑋪𑋫𑋬𑋭𑋮𑋯𑋰𑋱𑋲𑋳𑋴𑋵𑋶𑋷𑋸𑋹𑋺𑋻𑋼𑋽𑋾𑋿𑌀𑌁𑌂𑌃𑌄𑌅𑌆𑌇𑌈𑌉𑌊𑌋𑌌𑌍𑌎𑌏𑌐𑌑𑌒𑌓𑌔𑌕𑌖𑌗𑌘𑌙𑌚𑌛𑌜𑌝𑌞𑌟𑌠𑌡𑌢𑌣𑌤𑌥𑌦𑌧𑌨𑌩𑌪𑌫𑌬𑌭𑌮𑌯𑌰𑌱𑌲𑌳𑌴𑌵𑌶𑌷𑌸𑌹𑌺𑌻𑌼𑌽𑌾𑌿𑍀𑍁𑍂𑍃𑍄𑍅𑍆𑍇𑍈𑍉𑍊𑍋𑍌𑍍𑍎𑍏𑍐𑍑𑍒𑍓𑍔𑍕𑍖𑍗𑍘𑍙𑍚𑍛𑍜𑍝𑍞𑍟𑍠𑍡𑍢𑍣𑍤𑍥𑍦𑍧𑍨𑍩𑍪𑍫𑍬𑍭𑍮𑍯𑍰𑍱𑍲𑍳𑍴𑍵𑍶𑍷𑍸𑍹𑍺𑍻𑍼𑍽𑍾𑍿𑎀𑎁𑎂𑎃𑎄𑎅𑎆𑎇𑎈𑎉𑎊𑎋𑎌𑎍𑎎𑎏𑎐𑎑𑎒𑎓𑎔𑎕𑎖𑎗𑎘𑎙𑎚𑎛𑎜𑎝𑎞𑎟𑎠𑎡𑎢𑎣𑎤𑎥𑎦𑎧𑎨𑎩𑎪𑎫𑎬𑎭𑎮𑎯𑎰𑎱𑎲𑎳𑎴𑎵𑎶𑎷𑎸𑎹𑎺𑎻𑎼𑎽𑎾𑎿𑏀𑏁𑏂𑏃𑏄𑏅𑏆𑏇𑏈𑏉𑏊𑏋𑏌𑏍𑏎𑏏𑏐𑏑𑏒𑏓𑏔𑏕𑏖𑏗𑏘𑏙𑏚𑏛𑏜𑏝𑏞𑏟𑏠𑏡𑏢𑏣𑏤𑏥𑏦𑏧𑏨𑏩𑏪𑏫𑏬𑏭𑏮𑏯𑏰𑏱𑏲𑏳𑏴𑏵𑏶𑏷𑏸𑏹𑏺𑏻𑏼𑏽𑏾𑏿𑐀𑐁𑐂𑐃𑐄𑐅𑐆𑐇𑐈𑐉𑐊𑐋𑐌𑐍𑐎𑐏𑐐𑐑𑐒𑐓𑐔𑐕𑐖𑐗𑐘𑐙𑐚𑐛𑐜𑐝𑐞𑐟𑐠𑐡𑐢𑐣𑐤𑐥𑐦𑐧𑐨𑐩𑐪𑐫𑐬𑐭𑐮𑐯𑐰𑐱𑐲𑐳𑐴𑐵𑐶𑐷𑐸𑐹𑐺𑐻𑐼𑐽𑐾𑐿𑑀𑑁𑑂𑑃𑑄𑑅𑑆𑑇𑑈𑑉𑑊𑑋𑑌𑑍𑑎𑑏𑑐𑑑𑑒𑑓𑑔𑑕𑑖𑑗𑑘𑑙𑑚𑑛𑑜𑑝𑑞𑑟𑑠𑑡𑑢𑑣𑑤𑑥𑑦𑑧𑑨𑑩𑑪𑑫𑑬𑑭𑑮𑑯𑑰𑑱𑑲𑑳𑑴𑑵𑑶𑑷𑑸𑑹𑑺𑑻𑑼𑑽𑑾𑑿𑒀𑒁𑒂𑒃𑒄𑒅𑒆𑒇𑒈𑒉𑒊𑒋𑒌𑒍𑒎𑒏𑒐𑒑𑒒𑒓𑒔𑒕𑒖𑒗𑒘𑒙𑒚𑒛𑒜𑒝𑒞𑒟𑒠𑒡𑒢𑒣𑒤𑒥𑒦𑒧𑒨𑒩𑒪𑒫𑒬𑒭𑒮𑒯𑒰𑒱𑒲𑒳𑒴𑒵𑒶𑒷𑒸𑒻𑒻𑒼𑒽𑒾𑒿𑓀𑓁𑓃𑓂𑓄𑓅𑓆𑓇𑓈𑓉𑓊𑓋𑓌𑓍𑓎𑓏𑓐𑓑𑓒𑓓𑓔𑓕𑓖𑓗𑓘𑓙𑓚𑓛𑓜𑓝𑓞𑓟𑓠𑓡𑓢𑓣𑓤𑓥𑓦𑓧𑓨𑓩𑓪𑓫𑓬𑓭𑓮𑓯𑓰𑓱𑓲𑓳𑓴𑓵𑓶𑓷𑓸𑓹𑓺𑓻𑓼𑓽𑓾𑓿𑔀𑔁𑔂𑔃𑔄𑔅𑔆𑔇𑔈𑔉𑔊𑔋𑔌𑔍𑔎𑔏𑔐𑔑𑔒𑔓𑔔𑔕𑔖𑔗𑔘𑔙𑔚𑔛𑔜𑔝𑔞𑔟𑔠𑔡𑔢𑔣𑔤𑔥𑔦𑔧𑔨𑔩𑔪𑔫𑔬𑔭𑔮𑔯𑔰𑔱𑔲𑔳𑔴𑔵𑔶𑔷𑔸𑔹𑔺𑔻𑔼𑔽𑔾𑔿𑕀𑕁𑕂𑕃𑕄𑕅𑕆𑕇𑕈𑕉𑕊𑕋𑕌𑕍𑕎𑕏𑕐𑕑𑕒𑕓𑕔𑕕𑕖𑕗𑕘𑕙𑕚𑕛𑕜𑕝𑕞𑕟𑕠𑕡𑕢𑕣𑕤𑕥𑕦𑕧𑕨𑕩𑕪𑕫𑕬𑕭𑕮𑕯𑕰𑕱𑕲𑕳𑕴𑕵𑕶𑕷𑕸𑕹𑕺𑕻𑕼𑕽𑕾𑕿𑖀𑖁𑖂𑖃𑖄𑖅𑖆𑖇𑖈𑖉𑖊𑖋𑖌𑖍𑖎𑖏𑖐𑖑𑖒𑖓𑖔𑖕𑖖𑖗𑖘𑖙𑖚𑖛𑖜𑖝𑖞𑖟𑖠𑖡𑖢𑖣𑖤𑖥𑖦𑖧𑖨𑖩𑖪𑖫𑖬𑖭𑖮𑖯𑖰𑖱𑖲𑖳𑖴𑖵𑖶𑖷𑖸𑖹𑖺𑖻𑖼𑖽𑖾𑗀𑖿𑗁𑗂𑗃𑗄𑗅𑗆𑗇𑗈𑗉𑗊𑗋𑗌𑗍𑗎𑗏𑗐𑗑𑗒𑗓𑗔𑗕𑗖𑗗𑗘𑗙𑗚𑗛𑗜𑗝𑗞𑗟𑗠𑗡𑗢𑗣𑗤𑗥𑗦𑗧𑗨𑗩𑗪𑗫𑗬𑗭𑗮𑗯𑗰𑗱𑗲𑗳𑗴𑗵𑗶𑗷𑗸𑗹𑗺𑗻𑗼𑗽𑗾𑗿𑘀𑘁𑘂𑘃𑘄𑘅𑘆𑘇𑘈𑘉𑘊𑘋𑘌𑘍𑘎𑘏𑘐𑘑𑘒𑘓𑘔𑘕𑘖𑘗𑘘𑘙𑘚𑘛𑘜𑘝𑘞𑘟𑘠𑘡𑘢𑘣𑘤𑘥𑘦𑘧𑘨𑘩𑘪𑘫𑘬𑘭𑘮𑘯𑘰𑘱𑘲𑘳𑘴𑘵𑘶𑘷𑘸𑘹𑘺𑘻𑘼𑘽𑘾𑘿𑙀𑙁𑙂𑙃𑙄𑙅𑙆𑙇𑙈𑙉𑙊𑙋𑙌𑙍𑙎𑙏𑙐𑙑𑙒𑙓𑙔𑙕𑙖𑙗𑙘𑙙𑙚𑙛𑙜𑙝𑙞𑙟𑙠𑙡𑙢𑙣𑙤𑙥𑙦𑙧𑙨𑙩𑙪𑙫𑙬𑙭𑙮𑙯𑙰𑙱𑙲𑙳𑙴𑙵𑙶𑙷𑙸𑙹𑙺𑙻𑙼𑙽𑙾𑙿𑚀𑚁𑚂𑚃𑚄𑚅𑚆𑚇𑚈𑚉𑚊𑚋𑚌𑚍𑚎𑚏𑚐𑚑𑚒𑚓𑚔𑚕𑚖𑚗𑚘𑚙𑚚𑚛𑚜𑚝𑚞𑚟𑚠𑚡𑚢𑚣𑚤𑚥𑚦𑚧𑚨𑚩𑚪𑚫𑚬𑚭𑚮𑚯𑚰𑚱𑚲𑚳𑚴𑚵𑚷𑚶𑚸𑚹𑚺𑚻𑚼𑚽𑚾𑚿𑛀𑛁𑛂𑛃𑛄𑛅𑛆𑛇𑛈𑛉𑛊𑛋𑛌𑛍𑛎𑛏𑛐𑛑𑛒𑛓𑛔𑛕𑛖𑛗𑛘𑛙𑛚𑛛𑛜𑛝𑛞𑛟𑛠𑛡𑛢𑛣𑛤𑛥𑛦𑛧𑛨𑛩𑛪𑛫𑛬𑛭𑛮𑛯𑛰𑛱𑛲𑛳𑛴𑛵𑛶𑛷𑛸𑛹𑛺𑛻𑛼𑛽𑛾𑛿𑜀𑜁𑜂𑜃𑜄𑜅𑜆𑜇𑜈𑜉𑜊𑜋𑜌𑜍𑜎𑜏𑜐𑜑𑜒𑜓𑜔𑜕𑜖𑜗𑜘𑜙𑜚𑜛𑜜𑜝𑜞𑜟𑜠𑜡𑜢𑜣𑜤𑜥𑜦𑜧𑜨𑜩𑜪𑜫𑜬𑜭𑜮𑜯𑜰𑜱𑜲𑜳𑜴𑜵𑜶𑜷𑜸𑜹𑜺𑜻𑜼𑜽𑜾𑜿𑝀𑝁𑝂𑝃𑝄𑝅𑝆𑝇𑝈𑝉𑝊𑝋𑝌𑝍𑝎𑝏𑝐𑝑𑝒𑝓𑝔𑝕𑝖𑝗𑝘𑝙𑝚𑝛𑝜𑝝𑝞𑝟𑝠𑝡𑝢𑝣𑝤𑝥𑝦𑝧𑝨𑝩𑝪𑝫𑝬𑝭𑝮𑝯𑝰𑝱𑝲𑝳𑝴𑝵𑝶𑝷𑝸𑝹𑝺𑝻𑝼𑝽𑝾𑝿𑞀𑞁𑞂𑞃𑞄𑞅𑞆𑞇𑞈𑞉𑞊𑞋𑞌𑞍𑞎𑞏𑞐𑞑𑞒𑞓𑞔𑞕𑞖𑞗𑞘𑞙𑞚𑞛𑞜𑞝𑞞𑞟𑞠𑞡𑞢𑞣𑞤𑞥𑞦𑞧𑞨𑞩𑞪𑞫𑞬𑞭𑞮𑞯𑞰𑞱𑞲𑞳𑞴𑞵𑞶𑞷𑞸𑞹𑞺𑞻𑞼𑞽𑞾𑞿𑟀𑟁𑟂𑟃𑟄𑟅𑟆𑟇𑟈𑟉𑟊𑟋𑟌𑟍𑟎𑟏𑟐𑟑𑟒𑟓𑟔𑟕𑟖𑟗𑟘𑟙𑟚𑟛𑟜𑟝𑟞𑟟𑟠𑟡𑟢𑟣𑟤𑟥𑟦𑟧𑟨𑟩𑟪𑟫𑟬𑟭𑟮𑟯𑟰𑟱𑟲𑟳𑟴𑟵𑟶𑟷𑟸𑟹𑟺𑟻𑟼𑟽𑟾𑟿𑠀𑠁𑠂𑠃𑠄𑠅𑠆𑠇𑠈𑠉𑠊𑠋𑠌𑠍𑠎𑠏𑠐𑠑𑠒𑠓𑠔𑠕𑠖𑠗𑠘𑠙𑠚𑠛𑠜𑠝𑠞𑠟𑠠𑠡𑠢𑠣𑠤𑠥𑠦𑠧𑠨𑠩𑠪𑠫𑠬𑠭𑠮𑠯𑠰𑠱𑠲𑠳𑠴𑠵𑠶𑠷𑠸𑠺𑠹𑠻𑠼𑠽𑠾𑠿𑡀𑡁𑡂𑡃𑡄𑡅𑡆𑡇𑡈𑡉𑡊𑡋𑡌𑡍𑡎𑡏𑡐𑡑𑡒𑡓𑡔𑡕𑡖𑡗𑡘𑡙𑡚𑡛𑡜𑡝𑡞𑡟𑡠𑡡𑡢𑡣𑡤𑡥𑡦𑡧𑡨𑡩𑡪𑡫𑡬𑡭𑡮𑡯𑡰𑡱𑡲𑡳𑡴𑡵𑡶𑡷𑡸𑡹𑡺𑡻𑡼𑡽𑡾𑡿𑢀𑢁𑢂𑢃𑢄𑢅𑢆𑢇𑢈𑢉𑢊𑢋𑢌𑢍𑢎𑢏𑢐𑢑𑢒𑢓𑢔𑢕𑢖𑢗𑢘𑢙𑢚𑢛𑢜𑢝𑢞𑢟𑢠𑢡𑢢𑢣𑢤𑢥𑢦𑢧𑢨𑢩𑢪𑢫𑢬𑢭𑢮𑢯𑢰𑢱𑢲𑢳𑢴𑢵𑢶𑢷𑢸𑢹𑢺𑢻𑢼𑢽𑢾𑢿𑣀𑣁𑣂𑣃𑣄𑣅𑣆𑣇𑣈𑣉𑣊𑣋𑣌𑣍𑣎𑣏𑣐𑣑𑣒𑣓𑣔𑣕𑣖𑣗𑣘𑣙𑣚𑣛𑣜𑣝𑣞𑣟𑣠𑣡𑣢𑣣𑣤𑣥𑣦𑣧𑣨𑣩𑣪𑣫𑣬𑣭𑣮𑣯𑣰𑣱𑣲𑣳𑣴𑣵𑣶𑣷𑣸𑣹𑣺𑣻𑣼𑣽𑣾𑣿𑤀𑤁𑤂𑤃𑤄𑤅𑤆𑤇𑤈𑤉𑤊𑤋𑤌𑤍𑤎𑤏𑤐𑤑𑤒𑤓𑤔𑤕𑤖𑤗𑤘𑤙𑤚𑤛𑤜𑤝𑤞𑤟𑤠𑤡𑤢𑤣𑤤𑤥𑤦𑤧𑤨𑤩𑤪𑤫𑤬𑤭𑤮𑤯𑤰𑤱𑤲𑤳𑤴𑤵𑤶𑤷𑤸𑤹𑤺𑤻𑤼𑤽𑤾𑤿𑥀𑥁𑥂𑥃𑥄𑥅𑥆𑥇𑥈𑥉𑥊𑥋𑥌𑥍𑥎𑥏𑥐𑥑𑥒𑥓𑥔𑥕𑥖𑥗𑥘𑥙𑥚𑥛𑥜𑥝𑥞𑥟𑥠𑥡𑥢𑥣𑥤𑥥𑥦𑥧𑥨𑥩𑥪𑥫𑥬𑥭𑥮𑥯𑥰𑥱𑥲𑥳𑥴𑥵𑥶𑥷𑥸𑥹𑥺𑥻𑥼𑥽𑥾𑥿𑦀𑦁𑦂𑦃𑦄𑦅𑦆𑦇𑦈𑦉𑦊𑦋𑦌𑦍𑦎𑦏𑦐𑦑𑦒𑦓𑦔𑦕𑦖𑦗𑦘𑦙𑦚𑦛𑦜𑦝𑦞𑦟𑦠𑦡𑦢𑦣𑦤𑦥𑦦𑦧𑦨𑦩𑦪𑦫𑦬𑦭𑦮𑦯𑦰𑦱𑦲𑦳𑦴𑦵𑦶𑦷𑦸𑦹𑦺𑦻𑦼𑦽𑦾𑦿𑧀𑧁𑧂𑧃𑧄𑧅𑧆𑧇𑧈𑧉𑧊𑧋𑧌𑧍𑧎𑧏𑧐𑧑𑧒𑧓𑧔𑧕𑧖𑧗𑧘𑧙𑧚𑧛𑧜𑧝𑧞𑧟𑧠𑧡𑧢𑧣𑧤𑧥𑧦𑧧𑧨𑧩𑧪𑧫𑧬𑧭𑧮𑧯𑧰𑧱𑧲𑧳𑧴𑧵𑧶𑧷𑧸𑧹𑧺𑧻𑧼𑧽𑧾𑧿𑨀𑨁𑨂𑨃𑨄𑨅𑨆𑨇𑨈𑨉𑨊𑨋𑨌𑨍𑨎𑨏𑨐𑨑𑨒𑨓𑨔𑨕𑨖𑨗𑨘𑨙𑨚𑨛𑨜𑨝𑨞𑨟𑨠𑨡𑨢𑨣𑨤𑨥𑨦𑨧𑨨𑨩𑨪𑨫𑨬𑨭𑨮𑨯𑨰𑨱𑨲𑨳𑨴𑨵𑨶𑨷𑨸𑨹𑨺𑨻𑨼𑨽𑨾𑨿𑩀𑩁𑩂𑩃𑩄𑩅𑩆𑩇𑩈𑩉𑩊𑩋𑩌𑩍𑩎𑩏𑩐𑩑𑩒𑩓𑩔𑩕𑩖𑩗𑩘𑩙𑩚𑩛𑩜𑩝𑩞𑩟𑩠𑩡𑩢𑩣𑩤𑩥𑩦𑩧𑩨𑩩𑩪𑩫𑩬𑩭𑩮𑩯𑩰𑩱𑩲𑩳𑩴𑩵𑩶𑩷𑩸𑩹𑩺𑩻𑩼𑩽𑩾𑩿𑪀𑪁𑪂𑪃𑪄𑪅𑪆𑪇𑪈𑪉𑪊𑪋𑪌𑪍𑪎𑪏𑪐𑪑𑪒𑪓𑪔𑪕𑪖𑪗𑪘𑪙𑪚𑪛𑪜𑪝𑪞𑪟𑪠𑪡𑪢𑪣𑪤𑪥𑪦𑪧𑪨𑪩𑪪𑪫𑪬𑪭𑪮𑪯𑪰𑪱𑪲𑪳𑪴𑪵𑪶𑪷𑪸𑪹𑪺𑪻𑪼𑪽𑪾𑪿𑫀𑫁𑫂𑫃𑫄𑫅𑫆𑫇𑫈𑫉𑫊𑫋𑫌𑫍𑫎𑫏𑫐𑫑𑫒𑫓𑫔𑫕𑫖𑫗𑫘𑫙𑫚𑫛𑫜𑫝𑫞𑫟𑫠𑫡𑫢𑫣𑫤𑫥𑫦𑫧𑫨𑫩𑫪𑫫𑫬𑫭𑫮𑫯𑫰𑫱𑫲𑫳𑫴𑫵𑫶𑫷𑫸𑫹𑫺𑫻𑫼𑫽𑫾𑫿𑬀𑬁𑬂𑬃𑬄𑬅𑬆𑬇𑬈𑬉𑬊𑬋𑬌𑬍𑬎𑬏𑬐𑬑𑬒𑬓𑬔𑬕𑬖𑬗𑬘𑬙𑬚𑬛𑬜𑬝𑬞𑬟𑬠𑬡𑬢𑬣𑬤𑬥𑬦𑬧𑬨𑬩𑬪𑬫𑬬𑬭𑬮𑬯𑬰𑬱𑬲𑬳𑬴𑬵𑬶𑬷𑬸𑬹𑬺𑬻𑬼𑬽𑬾𑬿𑭀𑭁𑭂𑭃𑭄𑭅𑭆𑭇𑭈𑭉𑭊𑭋𑭌𑭍𑭎𑭏𑭐𑭑𑭒𑭓𑭔𑭕𑭖𑭗𑭘𑭙𑭚𑭛𑭜𑭝𑭞𑭟𑭠𑭡𑭢𑭣𑭤𑭥𑭦𑭧𑭨𑭩𑭪𑭫𑭬𑭭𑭮𑭯𑭰𑭱𑭲𑭳𑭴𑭵𑭶𑭷𑭸𑭹𑭺𑭻𑭼𑭽𑭾𑭿𑮀𑮁𑮂𑮃𑮄𑮅𑮆𑮇𑮈𑮉𑮊𑮋𑮌𑮍𑮎𑮏𑮐𑮑𑮒𑮓𑮔𑮕𑮖𑮗𑮘𑮙𑮚𑮛𑮜𑮝𑮞𑮟𑮠𑮡𑮢𑮣𑮤𑮥𑮦𑮧𑮨𑮩𑮪𑮫𑮬𑮭𑮮𑮯𑮰𑮱𑮲𑮳𑮴𑮵𑮶𑮷𑮸𑮹𑮺𑮻𑮼𑮽𑮾𑮿𑯀𑯁𑯂𑯃𑯄𑯅𑯆𑯇𑯈𑯉𑯊𑯋𑯌𑯍𑯎𑯏𑯐𑯑𑯒𑯓𑯔𑯕𑯖𑯗𑯘𑯙𑯚𑯛𑯜𑯝𑯞𑯟𑯠𑯡𑯢𑯣𑯤𑯥𑯦𑯧𑯨𑯩𑯪𑯫𑯬𑯭𑯮𑯯𑯰𑯱𑯲𑯳𑯴𑯵𑯶𑯷𑯸𑯹𑯺𑯻𑯼𑯽𑯾𑯿𑰀𑰁𑰂𑰃𑰄𑰅𑰆𑰇𑰈𑰉𑰊𑰋𑰌𑰍𑰎𑰏𑰐𑰑𑰒𑰓𑰔𑰕𑰖𑰗𑰘𑰙𑰚𑰛𑰜𑰝𑰞𑰟𑰠𑰡𑰢𑰣𑰤𑰥𑰦𑰧𑰨𑰩𑰪𑰫𑰬𑰭𑰮𑰯𑰰𑰱𑰲𑰳𑰴𑰵𑰶𑰷𑰸𑰹𑰺𑰻𑰼𑰽𑰾𑰿𑱀𑱁𑱂𑱃𑱄𑱅𑱆𑱇𑱈𑱉𑱊𑱋𑱌𑱍𑱎𑱏𑱐𑱑𑱒𑱓𑱔𑱕𑱖𑱗𑱘𑱙𑱚𑱛𑱜𑱝𑱞𑱟𑱠𑱡𑱢𑱣𑱤𑱥𑱦𑱧𑱨𑱩𑱪𑱫𑱬𑱭𑱮𑱯𑱰𑱱𑱲𑱳𑱴𑱵𑱶𑱷𑱸𑱹𑱺𑱻𑱼𑱽𑱾𑱿𑲀

<p>𑂔 𑂕</p> <p>𑂔𑂕𑂔</p> <p>अड्डो थाड्ढु</p>	
<p>𑂔𑂕 𑂔𑂕</p> <p>𑂔𑂕𑂔</p> <p>आली थाली</p>	
<p>𑂔𑂕 𑂔𑂕</p> <p>𑂔𑂕𑂔</p> <p>इंदरा ङ्ङरु</p>	

(03)

Fig 8: Extracted from *Kūṛux Bannā Axaā* . (Xalxo, 03: 2018)



Fig 9: Extracted from *Kūṛux Bannā Axaā* . (Xalxo, 04: 2018)



Old Primers: (these are in handwritten from and having initial forms of Kurux Banna letters)  
 Kūṛux Bannā Lipi Arā Bakka Gaṛhan Part-1 (1991):

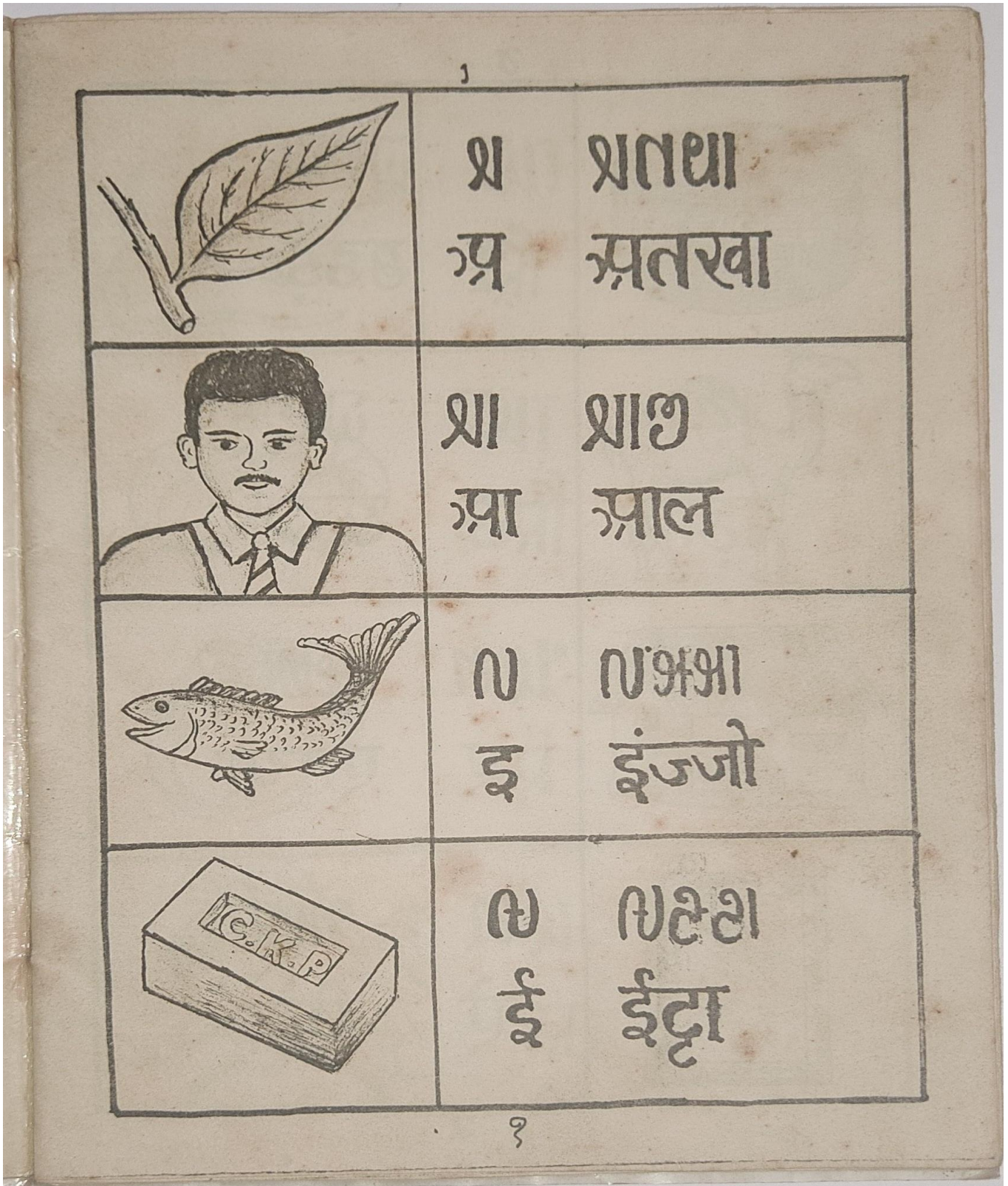






Fig 10: Extracted from Kūṛux Bannā Lipi Arā Bakka Gaṛhan Part-1. (Khalkho, 1: 1991)

੪

	ਐ ਵਯਯਾ ਊ ਤੁਤੁਤੁ
	ਐ ਐਟੀ ਊ ਊਂਟ
	ਐ ਐਯਾ ਊ ਐਝਯਾ
	ਐ ਐਯਾ ਊ ਐਨਾ

੨

Fig 11: Extracted from *Kūṛux Bannā Lipi Arā Bakka Garhan Part-1*. (Khalkho, 2: 1991)

𑌕𑌖𑌗 = वर्ण माला

𑌕𑌖𑌗 𑌕𑌖𑌗 = स्वर वर्ण

𑌕 𑌕𑌖 𑌕𑌗 𑌕𑌘 𑌕𑌙 𑌕𑌚 𑌕𑌛 𑌕𑌜 𑌕𑌝 𑌕𑌞 𑌕𑌟 𑌕𑌠 𑌕𑌡  
 - | | | | | | | | | | :  
 𑌕𑌢 𑌕𑌣 𑌕𑌤 𑌕𑌥 𑌕𑌦 𑌕𑌧 𑌕𑌨 𑌕𑌩 𑌕𑌪 𑌕𑌫 𑌕𑌬 𑌕𑌭 :

! (सेला) = प्लुत स्वर, ! (तला) = विकारी 𑌕



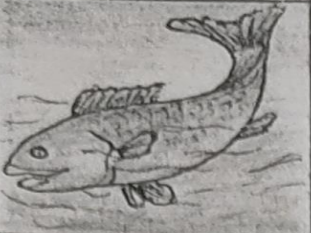
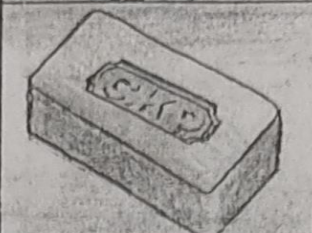
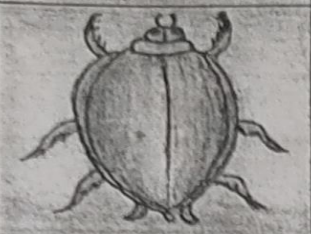

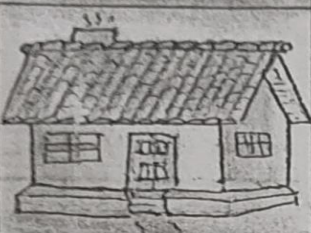
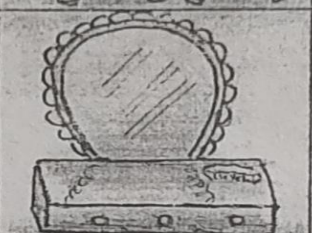


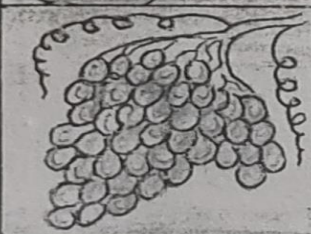

𑌕𑌮𑌕𑌯 = व्यञ्जन वर्ण

𑌕	𑌕𑌖	𑌕𑌗	𑌕𑌘	𑌕𑌙	𑌕𑌚	𑌕𑌛	𑌕𑌜
क	ख	ग	घ	च	छ	ज	झ
𑌕𑌝	𑌕𑌞	𑌕𑌟	𑌕𑌠	𑌕𑌡	𑌕𑌢	𑌕𑌣	𑌕𑌤
ट	ठ	ड	ढ	त	थ	द	ध
𑌕𑌥	𑌕𑌦	𑌕𑌧	𑌕𑌨	𑌕𑌩	𑌕𑌪	𑌕𑌫	𑌕𑌬
न	प	फ	ब	भ	म	य	र
𑌕𑌭	𑌕𑌮	𑌕𑌯	𑌕𑌰	𑌕𑌱	𑌕𑌲	𑌕𑌳	𑌕𑌴
ल	व	श	स	ह	ड	ढ	न्न

Fig 12: Shows old form letters from Kūṛux Bannā Lipi Arā Bakka Garhan Part-1. (Khalkho, 14: 1991)


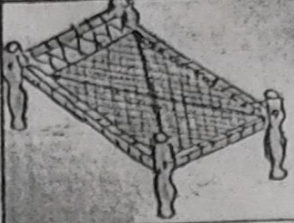

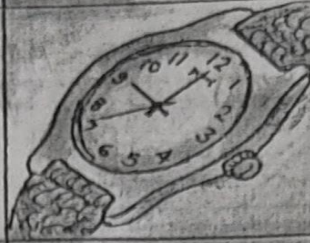
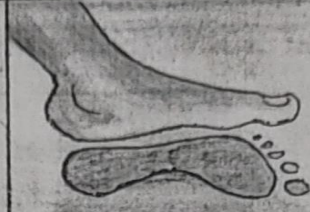
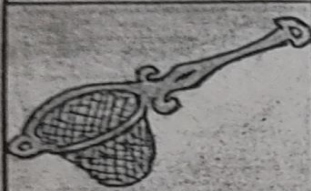
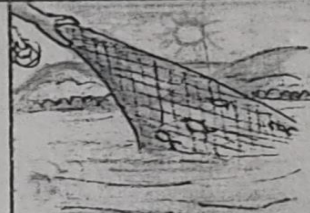
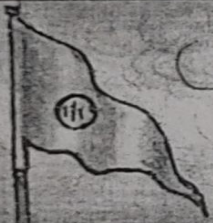
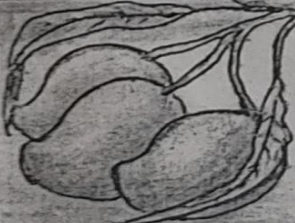



Fig 13: shows old forms of letters with Odia, Devanagari and Bengali translation. (Khalkho, 1: 1995)

	श - शयशा अ - A -		शा - शासुशा अ - आल्ली AA - AALI
	ल - लयशा इ - इन्नो I - INJO		ल - लटेठा ई - ईठा I: - I:TTA
	व - वयशा उ - उरु U - URU		व - वटे ऊ - ऊट U: - U:NT
	म - मयशा ए - एडपा A -		म - मयशा ऐ - A: -
	श - शयशा ओ - ओडा O - ODA		श - शयशा औ - औडा AO - AONDA
	शं - अं - AN		श: - अ: - AH

२

Fig 14: Extracted from *Kūṛux Lipi Ṭurnā Paṛhnā*. (Khalkho, 2: 1995)

	ଠ - ଠାକିଆ କ - କछुआ K - KACHHUA		ଥ - ଥଟୀ ଖ - ଖଟୀ KH - KHATI
	ଣ - ଣଢ଼ା ଟ - गदहा Q - GADHA		ଠ - ଠଟୀ ଷ - ଷଢ଼ୀ GH -
	ଠ - ଡ - NG -		ଠ - ଠାମ୍ବୀ - ଚମ୍ବୀ CHAMBI
	ଠ - ଠାଳୀ ଛ - ଛକନୀ CHH - CHHANKI		ଖ - ଖାଲୀ ଜ - ଜ J - JALLI
	ଝ - ଝାଣ୍ଡା ଞ - झण्डा JH - JHANDA		ଞ - ଟ - YN -
	ଡ - ଡାକିଆ ଟ - टाखा T - TATKHA		ଠ - ଠାଳ ଠ - ଠାଳୁ TH - THANI

୪

Fig 15: Extracted from Kūṛux Lipi Ṭurnā Paṛhnā . (Khalkho, 3: 1995)



Fig 16: shows the Kurux Banna alphabet chart. (2022)





Handwritten texts:

Author's text

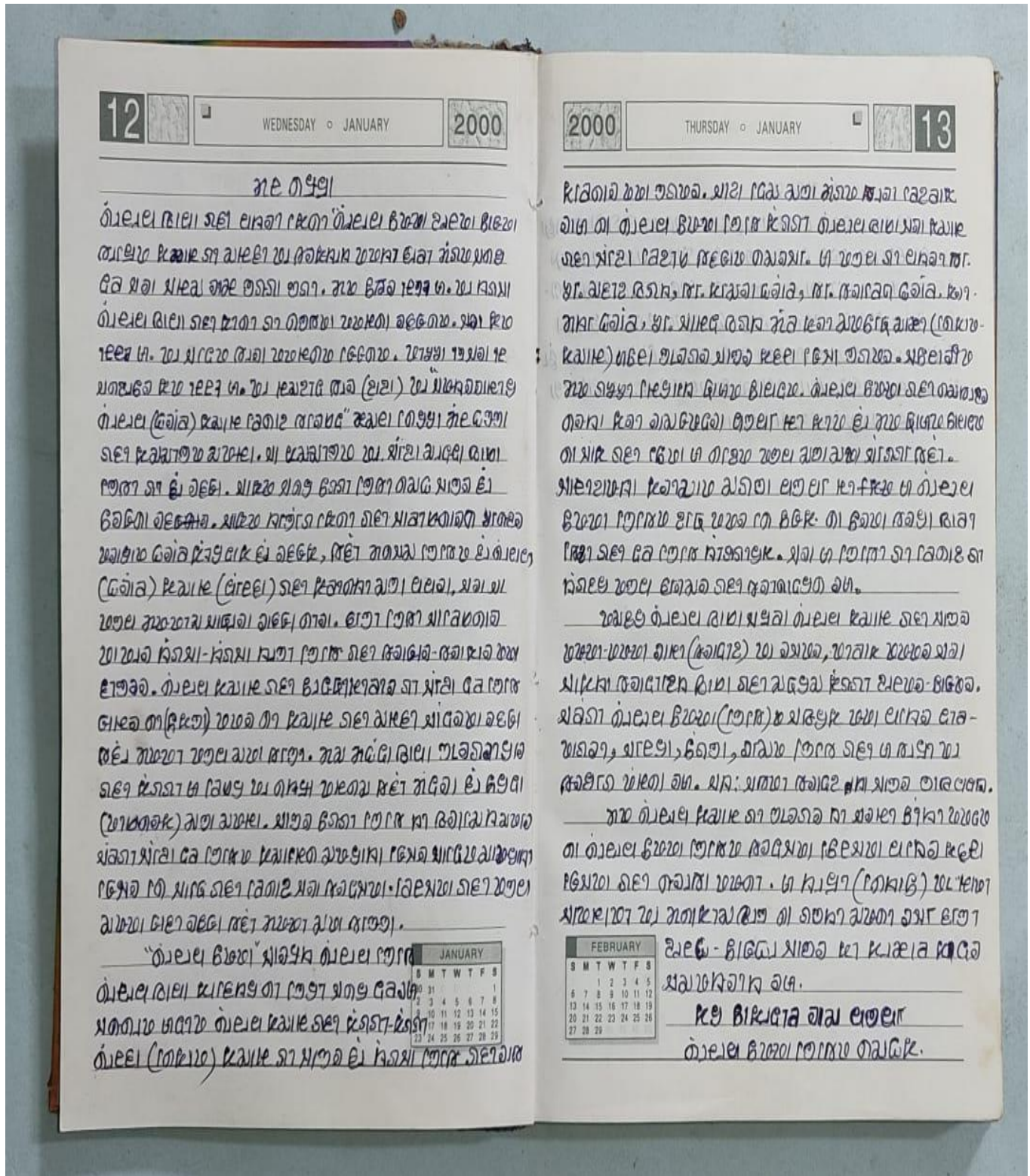


Fig 18: Shows author's diary. (2000)

TE 9 PRO  
CAMERA

### ദേവ ഹാരാ

ദേവ ഹാരാ യമഭരേ ന ഭരേഭര ഭരണമതി തതി.  
യതദേവ യ മനഃഭൃ ണാതി ഭൃണ യമഭരേ മദേവ മതി.

യമയമ നദേ ഹാരാ യ മദേ മേനയ നയ മതി മദേ,  
ഭരേഭര ഭരണ തതി മതി ന ദേവ ഹാരാ നയ മദേ.

യതല ഭരേ നയ യമയമ തതി നയ മേവ മതി,  
നാതനദേ മതി മേവ മതി ഭരേഭര ഭൃ നദേവ മതി.

ലദേവ ന മദേവ ഭരണമേവ മേവ നദേ ഹാരാ മദേ,  
ഭരേഭര ലലമേവ മേവ മേവേവ നദേ മേവേവ നദേ

മേവ മതി നദേ മ നേവേവ മേവേവ നദേ യതല യമ,  
മേവേവ മേവേവ നദേ മ മേവേവേവ മേവേവേവ നദേ

മേവേവ ഭരേ മേവേവ മതി, മേവേവ മേവേവേവ തതി,  
യതദേവ നദേവ നയ മതി മേവ, ഭരേഭര നയ മതി മേവ.

ഭരേഭര ഭൃ മേവേവേവ തതി, നയ ലലയമ നദേവ മതി,  
മേവേവ-മേവേവ മേവേവേവ, മേവേവ നയ മേവേവേവ.

നേവേവ മതി മേവ നദേ, നദേവ മേവേവ നദേ,  
യതല യമ മേവേവ-മേവേവ നദേ തതി, മേവേവ മേവേവേവ.

നേവേവേവ ഭരേഭര മേവേവ തതി, മേവേവ മേവേവേവേവ,  
മേവേവ മേവേവ തതി മേവേവ, മേവേവ നയ മേവേവേവേവ.

Fig 19: Handwritten text of a student on topic 'Dava Ḍaharā'.

SEPTEMBER

	W	T	F	S
3	4	5	6	7
8	9	10	11	12
13	14	15	16	17
18	19	20	21	22
23	24	25	26	27
28	29	30	31	

2019 NOVEMBER

S	M	T	W	T	F	S
				1	2	
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

October 2019  
**Tuesday 15**

മുഖ്യമന്ത്രി  
 മന്ത്രിമാർ  
 സർക്കാർ  
 വിദ്യാഭ്യാസ  
 ആരോഗ്യം  
 പൊതുമരാമത്ത്  
 കോടതി  
 മറ്റ്  
 വിവിധ  
 സ്ഥാപനങ്ങൾ  
 സർവ്വകലാശാലകൾ  
 മറ്റ്  
 വിവിധ  
 സ്ഥാപനങ്ങൾ  
 സർവ്വകലാശാലകൾ  
 മറ്റ്  
 വിവിധ  
 സ്ഥാപനങ്ങൾ

മിടലി വിത്തുവെക്കുന്നതിനായി നവംബർ മാസം മുഴുവൻ തുറന്നിരിക്കുന്നതിനെക്കുറിച്ച് വിവരങ്ങൾ നൽകിയിരിക്കുന്നു. മിടലി വിത്തുവെക്കുന്നതിനായി നവംബർ മാസം മുഴുവൻ തുറന്നിരിക്കുന്നതിനെക്കുറിച്ച് വിവരങ്ങൾ നൽകിയിരിക്കുന്നു. മിടലി വിത്തുവെക്കുന്നതിനായി നവംബർ മാസം മുഴുവൻ തുറന്നിരിക്കുന്നതിനെക്കുറിച്ച് വിവരങ്ങൾ നൽകിയിരിക്കുന്നു.

**Wednesday 16**

മിടലി വിത്തുവെക്കുന്നതിനായി നവംബർ മാസം മുഴുവൻ തുറന്നിരിക്കുന്നതിനെക്കുറിച്ച് വിവരങ്ങൾ നൽകിയിരിക്കുന്നു. മിടലി വിത്തുവെക്കുന്നതിനായി നവംബർ മാസം മുഴുവൻ തുറന്നിരിക്കുന്നതിനെക്കുറിച്ച് വിവരങ്ങൾ നൽകിയിരിക്കുന്നു. മിടലി വിത്തുവെക്കുന്നതിനായി നവംബർ മാസം മുഴുവൻ തുറന്നിരിക്കുന്നതിനെക്കുറിച്ച് വിവരങ്ങൾ നൽകിയിരിക്കുന്നു.

Fig 20: Diary written in Kurux Banna. (2019)







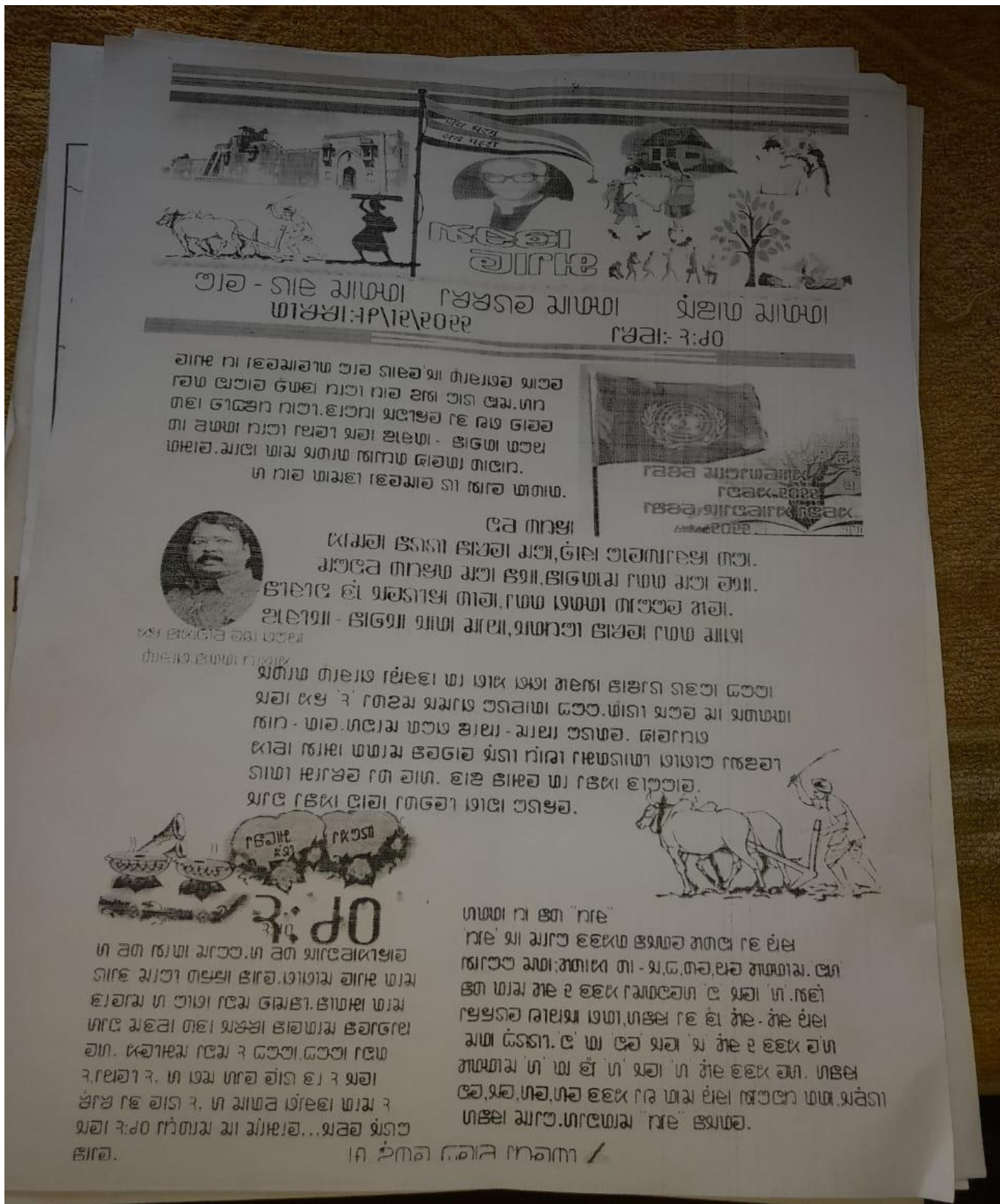


Fig 23: Shows the front page of 'Pārḥā Rājī' newspaper. (2022)





02  
 03

02  
 03

02  
 03

02  
 03

02  
 03

02  
 03

Fig 25: Extracted from topic 'Karam Pujā' of book Kūṛux Khīrī Arā Katthtūr (Khalkho, 02-03:2017)

**Banners:**



Fig 26: Kurux Banna used in various banners.

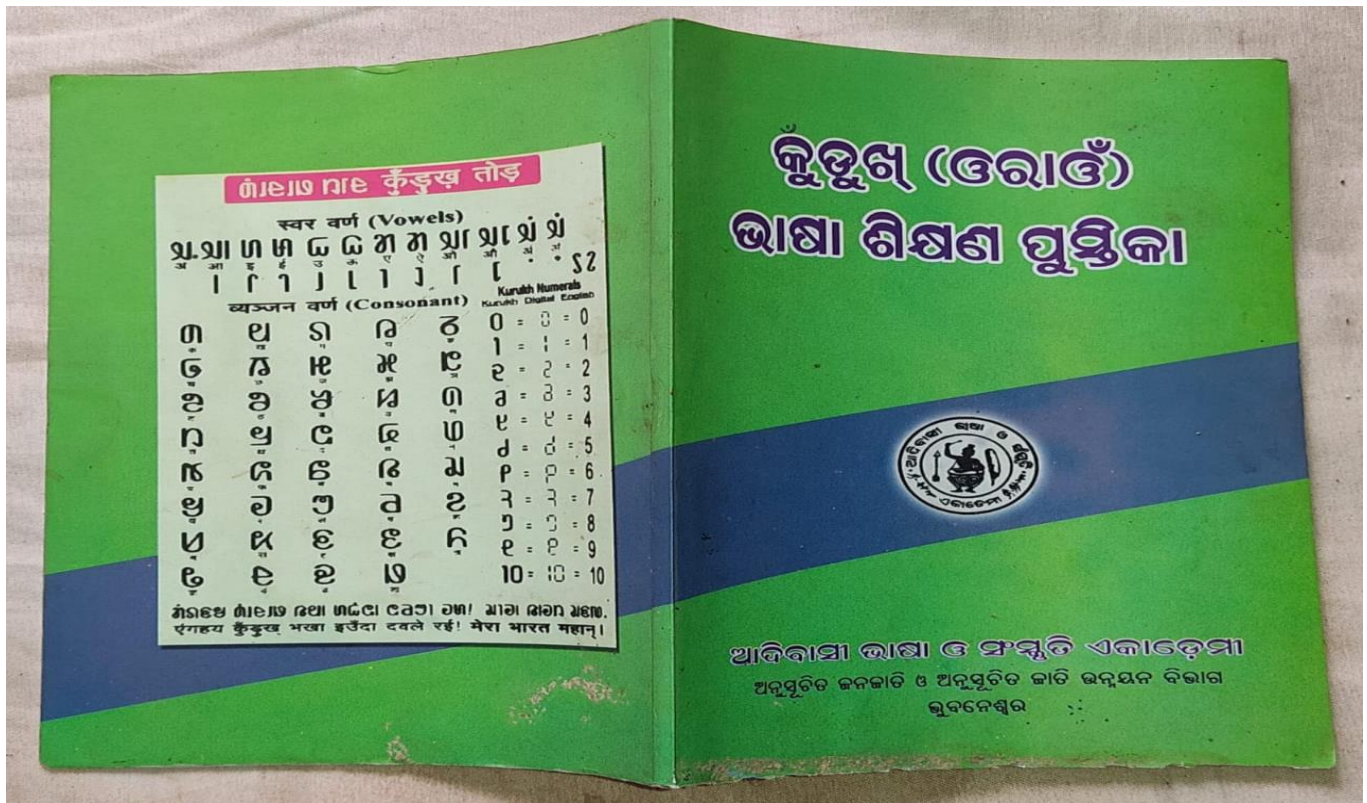


Fig 27: Kurux banna used in cover pages of various books.

**କୁଞ୍ଜୁର ଖାଷା ଏବଂ କୁଞ୍ଜୁର-ବନ୍ନା ଲିପି କୋ ସାଂସଦାନିକ ମାନ୍ୟତା କି ମାଂଗ**

ପିଛଲେ ଦିନାଂକ: 01 ଦିସଂବର 2018 (ଶନିବାର) କୋ କୁଞ୍ଜୁର-ଖାଷା ଏବଂ କୁଞ୍ଜୁର-ବନ୍ନା ଲିପି କୋ ସାଂସଦାନିକ ମାନ୍ୟତା କି ମାଂଗ କୋ ଲେକର ଏକ ବିଶାଳ ଜନମହାରେଲି ନିକାଳ କର 5-ସୂତ୍ରିୟ ମାଂଗ କୋ ଲେକର ଗଞ୍ଜକେଲା ଏ.ଡି.ଏମ. କେ ଜାରିଏ ଗଢ଼ପତି ତଥା ଗଞ୍ଜପାଳ ଏବଂ ମୁଖ୍ୟାଳୟ, କେନ୍ଦ୍ରିୟ ଖାଷା ବିଭାଗ, ଭାରତ ସରକାର କୋ ଜ୍ଞାପନ ସୌପା ଗୟା ।

ଯହ ସୂଚନା ଯୋଗ୍ୟ ହେଁ କି, ଅଲ ଓଡ଼ିଶା କୁଞ୍ଜୁର ପାଢ଼ହା ଯୁବକ ସଂଘ ଏବଂ କୁଞ୍ଜୁର ଖାଷା ସାହିତ୍ୟ ବିକାସ ପରିଷଦ, ଓଡ଼ିଶା, ଛତିସଗଡ଼, ଜ୍ଞାନଖଣ୍ଡ ତଥା ପ. ବଙ୍ଗାଳ କେ ଓର ସେ କୁଞ୍ଜୁର-ଖାଷା ଏବଂ କୁଞ୍ଜୁର-ବନ୍ନା ଲିପି କୋ ସାଂସଦାନିକ ମାନ୍ୟତା କି ମାଂଗ କୋ ଲେକର ଏକ ବିଶାଳ ଜନମହାରେଲି ନିକାଳ କର 5-ସୂତ୍ରିୟ ମାଂଗ କୋ ଲେକର ଗଞ୍ଜକେଲା ଏ.ଡି.ଏମ. କେ ଜାରିଏ ମହାମହିମ ଗଢ଼ପତି, ଭାରତ ସରକାର ତଥା ଓଡ଼ିଶା ଗଞ୍ଜପାଳ ଏବଂ ମୁଖ୍ୟାଳୟ, କେନ୍ଦ୍ରିୟ ଖାଷା ବିଭାଗ, ଭାରତ ସରକାର କୋ ଜ୍ଞାପନ ସୌପା ଗୟା ।

ଯହ ରୈଳି ଗଞ୍ଜକେଲା ବିରସା ମୁଞ୍ଡା ଚୌକ ସେ ମୁଖ୍ୟ ସହର କେ ବିଚୋବିଚ ଆବେଦକ ଚୌକ ହୋକର ଏ.ଡି.ଏମ. ଅଫିସ୍ ତରଫ୍ ପହଂଚା । କୁଞ୍ଜୁର-ଖାଷା କୋ ଭାରତୀୟ ସଂସଦାନିକ କି 8-ବିଂ ଅନୁସୂଚି ମେଂ ସାମିଲ କରନେ, କୁଞ୍ଜୁର-ବନ୍ନା ଲିପି କେ ଘାଟ୍ କୁଞ୍ଜୁର-ଖାଷା କୋ ଲିଖନ-ପଢ଼ନେ କି ମୁଖ୍ୟ-ମାଧ୍ୟମ କେ ରୂପ ସେ ସାଂସଦାନିକ ମାନ୍ୟତା, ଦେଶଭର କେ କୁଞ୍ଜୁର(ଉରାବ) ଜନଅବାଦି କ୍ଷେତ୍ରୋ ମେଂ କୁଞ୍ଜୁର ଶିକ୍ଷକୋ କି ନିଯୋଜନ, ଦେଶ କେ ବିଶ୍ୱବିଦ୍ୟାଳୟୋ ମେଂ ସ୍ୱତନ୍ତ୍ର କୁଞ୍ଜୁର ବିଭାଗ କି ମାଂଗ ଓର ଜ୍ଞାନଖଣ୍ଡ ରାଜ୍ୟ କେ କୁଞ୍ଜୁର-ପାଠ୍ୟକ୍ରମ କୋ ଦେଶଭର ମେଂ ଲାଗୁ କରନେ କି ମାଂଗ ଆଦି ସାମିଲ ଥି । ଦେଶଭର ସେ ଜନମହାରେଲି ମେଂ ହଜାରୋ କି ସଂଖ୍ୟା ମେଂ କୁଞ୍ଜୁର ଖାଷା ପାଠ୍ୟ ଲିଏ ।



**ଜନମହାରେଲି କେ ଘାଟ୍ କେନ୍ଦ୍ର ତଥା ରାଜ୍ୟ ସରକାର ସେ ପଂଚ-ସୂତ୍ରିୟ ମାଂଗ କି ଗଈଁ :**

- 1- କୁଞ୍ଜୁର-ଖାଷା କୋ ଭାରତୀୟ ସଂସଦାନିକ କି 8-ବିଂ ଅନୁସୂଚି ମେଂ ସାମିଲ କରନେ କି ମାଂଗ,
- 2- କୁଞ୍ଜୁର-ବନ୍ନା ଲିପି କେ ଘାଟ୍ କୁଞ୍ଜୁର-ଖାଷା କୋ ଲିଖନ-ପଢ଼ନେ କି ମୁଖ୍ୟ-ମାଧ୍ୟମ କେ ରୂପ ସେ ସାଂସଦାନିକ ମାନ୍ୟତା,
- 3- ଦେଶଭର କେ କୁଞ୍ଜୁର(ଉରାବ) ଜନଅବାଦି କ୍ଷେତ୍ରୋ ମେଂ କୁଞ୍ଜୁର ଶିକ୍ଷକୋ କି ନିଯୋଜନ କି ମାଂଗ,
- 4- ଦେଶଭର କେ ବିଶ୍ୱବିଦ୍ୟାଳୟୋ ମେଂ ସ୍ୱତନ୍ତ୍ର କୁଞ୍ଜୁର ବିଭାଗ କି ମାଂଗ
- 4- ଓର ଜ୍ଞାନଖଣ୍ଡ ରାଜ୍ୟ କେ କୁଞ୍ଜୁର-ପାଠ୍ୟକ୍ରମ କୋ ଦେଶଭର ମେଂ ଲାଗୁ କରନେ କି ମାଂଗ କି ଗଈଁ ।

ସ୍ୱରାଜ୍ୟ ବିଧାନ ସଭା  
ରାମଚନ୍ଦ୍ର ଛାଲକୋ  
ମହା ସଚିବ,  
ଅଲ ଓଡ଼ିଶା କୁଞ୍ଜୁର ପାଢ଼ହା ଯୁବକ ସଂଘ  
(ଖୋର୍ଦ୍ଧା-ପଞ୍ଚାୟତ ସଭା ପେଲୋ-ପଞ୍ଚାୟତ)  
(କୁଞ୍ଜୁର ଯୁବାଂଶ କା ପ୍ରାଧିକାର, ପାଠ୍ୟକ୍ରମ, ଶିକ୍ଷାନୁଷ୍ଠାନ, ସଂସ୍ଥାନ)

**କୁଞ୍ଜୁର-ଭାଷା ଏବଂ କୁଞ୍ଜୁର ବାନ୍ନା ଲିପିକୁ ସାଂସଦାନିକ ମାନ୍ୟତା ଦିଅନ୍ତୁ ବାବୁ**

ବିଶର ଚାରିଖ: 01 ଦିସଂବର 2018 (ଶନିବାର) ଦିନ କୁଞ୍ଜୁର-ଭାଷା ଏବଂ କୁଞ୍ଜୁର-ବାନ୍ନା ଲିପିକୁ ସାଂସଦାନିକ ମାନ୍ୟତା ଦିଅନ୍ତୁ ବାବୁ ବିଶର ଜନମହାରେଲି ପଞ୍ଚସପ୍ତାୟ ବାବୁ ନେଇ ଅନୁଷ୍ଠିତ ହୋଇଥିଲା । ଭାରତର କୋ ଏ.ଡି.ଏମ.ଏ. କେ ଦିଆରେ ରାଷ୍ଟ୍ରପତି ତଥା ରାଜ୍ୟପାଳ ଏବଂ ମୁଖ୍ୟମନ୍ତ୍ରୀ, ଦେଶମନ୍ତ୍ରୀ, ଭାଷା ବିଭାଗ, ଭାରତ ସରକାରଙ୍କୁ ବାବୁର ପଞ୍ଚମ ଦେଖାଯାଇଥିଲା ।

ସ୍ୱରାଜ୍ୟର ଯେ, ଅଲ ଓଡ଼ିଶା କୁଞ୍ଜୁର ପାଢ଼ହା ଯୁବକ ସଂଘ ଏବଂ କୁଞ୍ଜୁର ଖାଷା-ସାହିତ୍ୟ ବିଭାଗ ପରିଷଦ ଓଡ଼ିଶା, ଛତିସଗଡ଼, ଜ୍ଞାନଖଣ୍ଡ ତଥା ପ. ବଙ୍ଗାଳ କେ ଓର ସେ କୁଞ୍ଜୁର-ଖାଷା ଏବଂ କୁଞ୍ଜୁର-ବନ୍ନା ଲିପି କୋ ସାଂସଦାନିକ ମାନ୍ୟତା ଦାବି ଏବଂ ବିଶର ଜନମହାରେଲି ଭାରତର କୋ ମୁଖ୍ୟ ସହର ମଧ୍ୟରେ ଅନୁଷ୍ଠିତ ହେବ ବେଳେ ଅତିରିକ୍ତ ବିଶ୍ୱାସୀୟ ମନ୍ତ୍ରୀ ପଦ୍ମ କୁମାର ସିଂହାପାଲ । ଏହି ବାବୁ ପଞ୍ଚସପ୍ତାୟ ବାବୁ ନେଇ ଅନୁଷ୍ଠିତ ହୋଇଥିଲା । ଏହା ପରେ ଭାରତର କୋ ଏ.ଡି.ଏମ.ଏ. କେ ଦିଆରେ ରାଷ୍ଟ୍ରପତି ତଥା ରାଜ୍ୟପାଳ ଏବଂ ମୁଖ୍ୟମନ୍ତ୍ରୀ, ଦେଶମନ୍ତ୍ରୀ, ଭାଷା ବିଭାଗ, ଭାରତ ସରକାରଙ୍କୁ ବାବୁର ପଞ୍ଚମ ଦେଖାଯାଇଥିଲା ।

କୁଞ୍ଜୁର ଖାଷାକୁ ଭାରତୀୟ ସଂସଦାନିକ 8th Schedule କେ ସାମିଲ କରିବା, କୁଞ୍ଜୁର ବାନ୍ନା ଲିପି ଦ୍ୱାରା କୁଞ୍ଜୁର ଖାଷାକୁ ଲେଖିବା-ପଢ଼ିବାକୁ ମୁଖ୍ୟ ମାଧ୍ୟମ ରୂପେ ସାଂସଦାନିକ ମାନ୍ୟତା ଦେବା, କୁଞ୍ଜୁର (ଓଡ଼ିଆ) ଜନସଂଖ୍ୟା ବିଶିଷ୍ଟ କ୍ଷେତ୍ରରେ କୁଞ୍ଜୁର-ଖାଷାକୁ ନିୟୁତ୍ତି, ବିଶ୍ୱବିଦ୍ୟାଳୟ, ସ୍ୱତନ୍ତ୍ର କୁଞ୍ଜୁର ବିଭାଗ ବାବୁ ଏବଂ ଜ୍ଞାନଖଣ୍ଡ ରାଜ୍ୟରେ ବାବୁ ହୋଇଥିବା କୁଞ୍ଜୁର-ପାଠ୍ୟକ୍ରମ ସ୍ୱତନ୍ତ୍ର ସମ୍ପୂର୍ଣ୍ଣ ଦେଖାଯାଇ ବାବୁ କରିବା ନିମନ୍ତେ ବାବୁ ଦେଖାଯାଇଥିଲା ।

ବାବୁର କେ ଶହଶ୍ରୀଂସିତ କୁଞ୍ଜୁର-ଖାଷାମାନେ ଘୋର ଦେଖିଲେ ।

ଏହି ଅବସରରେ ବାବୁଦେବରାମ ଶାଳଖୋ, କୁଞ୍ଜୁର ବାନ୍ନା ଲିପିର ଅତିରକ୍ଷକ, ଜ୍ଞାନଖଣ୍ଡ, ପ. ବିଶର ଗ୍ରମ, ଚନ୍ଦ୍ର-ଧରପୁର କୁଞ୍ଜୁର-ବାନ୍ନା ଲିପି ଏବଂ କୁଞ୍ଜୁର-ଭାଷା ମହତ୍ତ୍ୱ ବିଷୟରେ ଆଲୋଚନା କଲେ । ମନରୋପ ମାଟ୍ରି, ବାଷ୍ପ ବସାଧର ତଥା ବାସ୍ପ-ସାଧନ, ବିଶ୍ୱାସୀୟ, ସ୍ୱରାଜ୍ୟ, କୁଞ୍ଜୁର-ବାନ୍ନା ଲିପିକୁ ସାଂସଦାନିକ ମାନ୍ୟତା ଦିଅନ୍ତୁ ବାବୁର ପଞ୍ଚମ ଦେଖାଯାଇଥିଲା ।

ଏହି ବାବୁ ପଞ୍ଚସପ୍ତାୟ ବାବୁ ନେଇ ଅନୁଷ୍ଠିତ ହୋଇଥିଲା । ଏହା ପରେ ଭାରତର କୋ ଏ.ଡି.ଏମ.ଏ. କେ ଦିଆରେ ରାଷ୍ଟ୍ରପତି ତଥା ରାଜ୍ୟପାଳ ଏବଂ ମୁଖ୍ୟମନ୍ତ୍ରୀ, ଦେଶମନ୍ତ୍ରୀ, ଭାଷା ବିଭାଗ, ଭାରତ ସରକାରଙ୍କୁ ବାବୁର ପଞ୍ଚମ ଦେଖାଯାଇଥିଲା ।

କୁଞ୍ଜୁର ଖାଷାକୁ ଭାରତୀୟ ସଂସଦାନିକ 8th Schedule କେ ସାମିଲ କରିବା, କୁଞ୍ଜୁର ବାନ୍ନା ଲିପି ଦ୍ୱାରା କୁଞ୍ଜୁର ଖାଷାକୁ ଲେଖିବା-ପଢ଼ିବାକୁ ମୁଖ୍ୟ ମାଧ୍ୟମ ରୂପେ ସାଂସଦାନିକ ମାନ୍ୟତା ଦେବା, କୁଞ୍ଜୁର (ଓଡ଼ିଆ) ଜନସଂଖ୍ୟା ବିଶିଷ୍ଟ କ୍ଷେତ୍ରରେ କୁଞ୍ଜୁର-ଖାଷାକୁ ନିୟୁତ୍ତି, ବିଶ୍ୱବିଦ୍ୟାଳୟ, ସ୍ୱତନ୍ତ୍ର କୁଞ୍ଜୁର ବିଭାଗ ବାବୁ ଏବଂ ଜ୍ଞାନଖଣ୍ଡ ରାଜ୍ୟରେ ବାବୁ ହୋଇଥିବା କୁଞ୍ଜୁର-ପାଠ୍ୟକ୍ରମ ସ୍ୱତନ୍ତ୍ର ସମ୍ପୂର୍ଣ୍ଣ ଦେଖାଯାଇ ବାବୁ କରିବା ନିମନ୍ତେ ବାବୁ ଦେଖାଯାଇଥିଲା ।

ବାବୁର କେ ଶହଶ୍ରୀଂସିତ କୁଞ୍ଜୁର-ଖାଷାମାନେ ଘୋର ଦେଖିଲେ ।

ଏହି ଅବସରରେ ବାବୁଦେବରାମ ଶାଳଖୋ, କୁଞ୍ଜୁର ବାନ୍ନା ଲିପିର ଅତିରକ୍ଷକ, ଜ୍ଞାନଖଣ୍ଡ, ପ. ବିଶର ଗ୍ରମ, ଚନ୍ଦ୍ର-ଧରପୁର କୁଞ୍ଜୁର-ବାନ୍ନା ଲିପି ଏବଂ କୁଞ୍ଜୁର-ଭାଷା ମହତ୍ତ୍ୱ ବିଷୟରେ ଆଲୋଚନା କଲେ । ମନରୋପ ମାଟ୍ରି, ବାଷ୍ପ ବସାଧର ତଥା ବାସ୍ପ-ସାଧନ, ବିଶ୍ୱାସୀୟ, ସ୍ୱରାଜ୍ୟ, କୁଞ୍ଜୁର-ବାନ୍ନା ଲିପିକୁ ସାଂସଦାନିକ ମାନ୍ୟତା ଦିଅନ୍ତୁ ବାବୁର ପଞ୍ଚମ ଦେଖାଯାଇଥିଲା ।

ଏହି ବାବୁ ପଞ୍ଚସପ୍ତାୟ ବାବୁ ନେଇ ଅନୁଷ୍ଠିତ ହୋଇଥିଲା । ଏହା ପରେ ଭାରତର କୋ ଏ.ଡି.ଏମ.ଏ. କେ ଦିଆରେ ରାଷ୍ଟ୍ରପତି ତଥା ରାଜ୍ୟପାଳ ଏବଂ ମୁଖ୍ୟମନ୍ତ୍ରୀ, ଦେଶମନ୍ତ୍ରୀ, ଭାଷା ବିଭାଗ, ଭାରତ ସରକାରଙ୍କୁ ବାବୁର ପଞ୍ଚମ ଦେଖାଯାଇଥିଲା ।



**ଜନମହାରେଲି ମାଧ୍ୟମରେ କେନ୍ଦ୍ର ତଥା ରାଜ୍ୟ ସରକାରଙ୍କୁ ଠାରେ ପାଞ୍ଚଦମା ବାବୁ:**

- 1- କୁଞ୍ଜୁର-ଖାଷାକୁ ଭାରତୀୟ ସଂସଦାନିକ 8th Schedule କେ ସାମିଲ କରିବା ଦାବି ବାବୁ,
- 2- କୁଞ୍ଜୁର-ବାନ୍ନା ଲିପି ଦ୍ୱାରା କୁଞ୍ଜୁର ଖାଷାକୁ ଲେଖିବା-ପଢ଼ିବାକୁ ମୁଖ୍ୟ ମାଧ୍ୟମ ରୂପେ ସାଂସଦାନିକ ମାନ୍ୟତା ଦାବି ବାବୁ,
- 3- ଦେଶଭର କୁଞ୍ଜୁର (ଓଡ଼ିଆ) ଜନସଂଖ୍ୟା ବିଶିଷ୍ଟ କ୍ଷେତ୍ରରେ କୁଞ୍ଜୁର-ଖାଷାକୁ ନିୟୁତ୍ତି ନିମନ୍ତେ ବାବୁ,
- 4- ସମଗ୍ର ଦେଶର ବିଶ୍ୱବିଦ୍ୟାଳୟ, ସ୍ୱତନ୍ତ୍ର କୁଞ୍ଜୁର ବିଭାଗ ବାବୁ ଏବଂ
- 5- ଜ୍ଞାନଖଣ୍ଡ ରାଜ୍ୟରେ ବାବୁ ହୋଇଥିବା କୁଞ୍ଜୁର-ପାଠ୍ୟକ୍ରମ ସ୍ୱତନ୍ତ୍ର ସମ୍ପୂର୍ଣ୍ଣ ଦେଖାଯାଇ ବାବୁ କରିବା ନିମନ୍ତେ ବାବୁ ଦେଖାଯାଇଥିଲା ।

ସ୍ୱରାଜ୍ୟ ବିଧାନ ସଭା  
ରାମଚନ୍ଦ୍ର ଛାଲକୋ  
ମହା ସଚିବ,  
ଅଲ ଓଡ଼ିଶା କୁଞ୍ଜୁର ପାଢ଼ହା ଯୁବକ ସଂଘ  
(ଖୋର୍ଦ୍ଧା-ପଞ୍ଚାୟତ ସଭା ପେଲୋ-ପଞ୍ଚାୟତ)  
(କୁଞ୍ଜୁର ଯୁବାଂଶ କା ପ୍ରାଧିକାର, ପାଠ୍ୟକ୍ରମ, ଶିକ୍ଷାନୁଷ୍ଠାନ, ସଂସ୍ଥାନ)

Fig 28: Kurux Banna used in heading of 'News Parha Rajee' newspapers (Hindi & Odia edition). (2018)

**School and Learning Institutions:**



*Fig 29: Pictures of Kurukh schools at Mudma (top) and Shahrabeda (bottom). (Jharkhand)*



Fig 30: Picture of Kurukh school at Kalma.(Odisha)



Fig 31: Pictures of Kurukh learning Centre at Panposh.(Odisha)



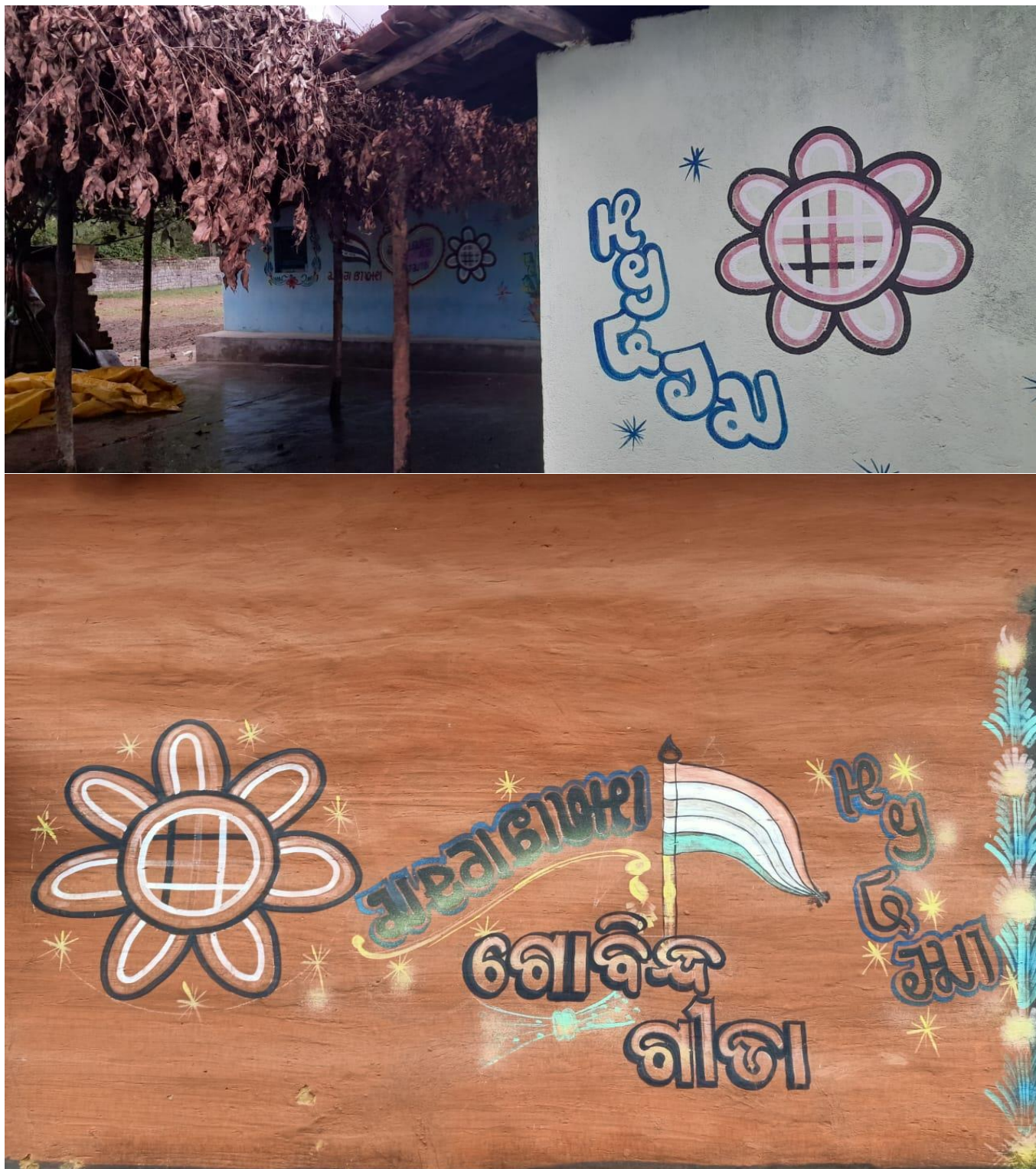
Fig 32: shows other community center cum learning institution.



Fig 33: pictures of a Kurux teaching class. (Odisha, 2023)



**Public spaces:**



*Fig 34: shows traditional wall paintings/decorations. (Odisha)*



Fig 35: shows some Bride name boards.



Fig 36: Kurux Banna used in ornaments.





Fig 38: Kurux Banna used in idol of Martyr Birsa Munda. (Odisha)



Fig 39: Kurux Banna used in sign board. (Chhattisgarh)



Fig 40: Kurux Banna used in worship places.(Balimorh, Odisha)



Fig 41: Kurux Banna used in Religious community place (Mudma, Jharkhand).



Fig 42: Kurux Banna used in wedding invitation cards.



*Fig 43: Kurux Banna used in community member badge. (2020)*



ଠୀ ଡ୍ରାଏ ଆମିନ୍ନ ଜାଠ ଠାୟାଠ ଡଠା (ଠାୟା) ଠାୟା ଗ୍ରାୟା  
KEY BOARD MAPPING FOR KURUKH BANNA (LIPI) BIG LETTAR

Full Copyright: Kurukh Font (Design by) Basudeo Ram Khalkho  
Free Download From <http://www.kurukhkhota.com>



Fig 44: Kurux Banna keyboard layout.



Fig 45: A Kurux Banna typeface dices.



Fig 46: A Kurux Banna workshop on the occasion of Sarhul puja.

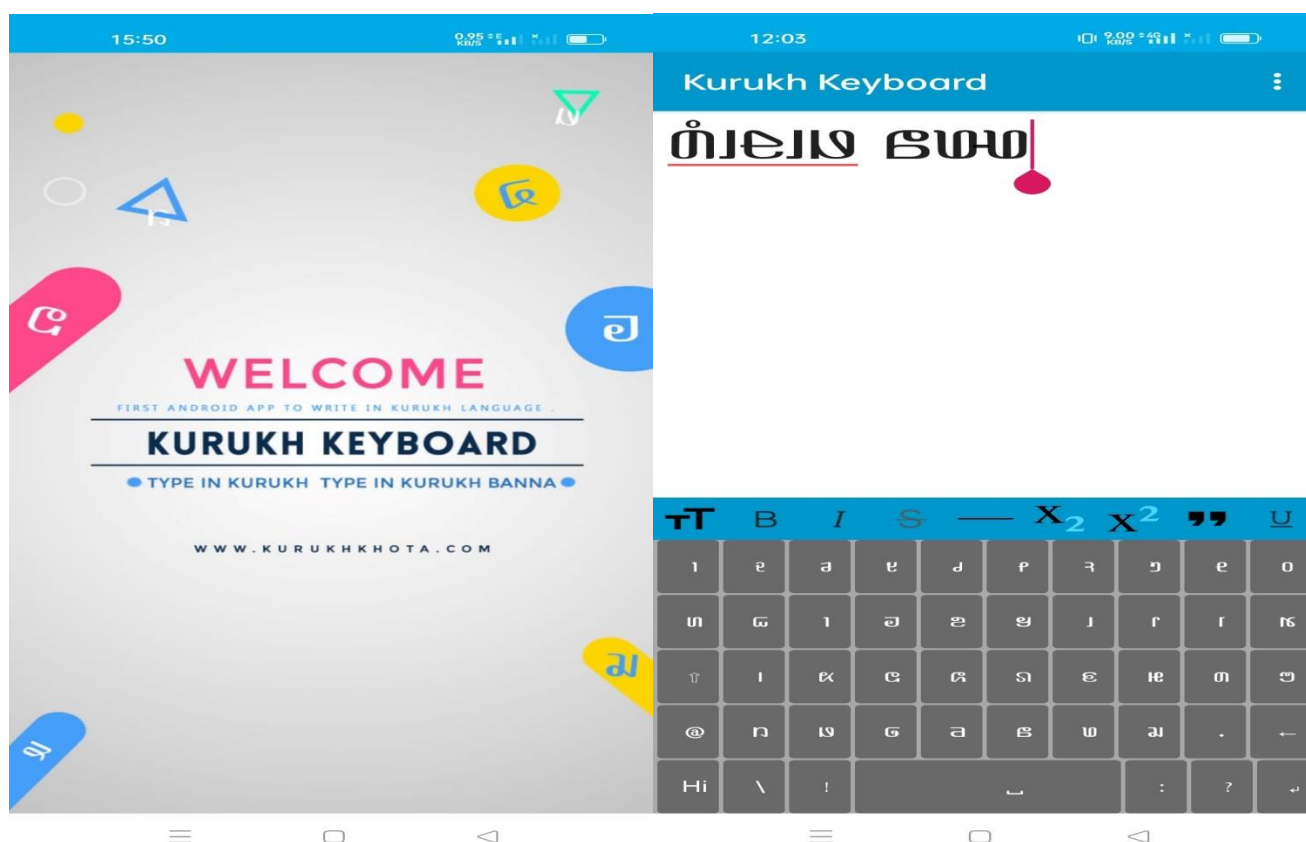


Fig 47: A Kurukh Keyboard Application.

Letter of Support from Kudukh Vikash Parishad.



# ଠୁଠୁଠୁ ଗାଠିଠି କୁଠୁଠୁ

## KUDUKH VIKASH PARISHAD

Nuagaon, Kuarmunda & Bisra, Dist. Sundargarh (Odisha)

Regd. No. SGD/2058/162/97

Head Office: KARTIK ORAON FIELD FULJHAR, MOB.9437479206

Ref. No. K.V.P. 07/23.....



Date 30/04/2023.....

To,  
Dr. Deborah Anderson  
Technical Director  
Unicode technical committee  
U.S.A.

From :-  
Kurukh Vikash Parishad  
Nuagaon, Kuarmunda & Bisra  
Dist: Sundargarh (Odisha)  
Regd. No. SGD/2058/162/97  
Head Office: Kartik Oraon Field, Fuljhar

Sub: Supporting letter for "Kurukh Banna" script Proposal Reg.

Dear Sir / Madam,

We on behalf of our organization Kurukh Vikash Parishad, Nuagaon, Kuarmunda, Bisra Sundargarh, Odisha, ested on 1997. Kurukh Vikash Parishad is socio cultural and educational organization of oraon society. Our organization has been working to preserve the kurukh language and culture of the oraon community by imparting cultural knowlege and training in kurukh language and Kurukh Banna (Script) to our oraon people.

We Would like to express our sincere appreciation to Linguist Biswajit Mandal for the effort he put into encoding the Kurukh Banna Script in Unicode the development in this regard is an essential step toward preserving the cuturar heritage and language of the oraon community enlight of this. We respectfully request the Unicode committee.

Thanking you,

*Moram*  
Secretary  
KUDUKH VIKASH PARISHAD  
Nuagaon, At-Kartik Oraon  
Padia Fuljhar, P.O.-Khuntagaon  
Via-Bisra, Dist. Sundargarh

Your's faithfully  
*1621 ୧୭୧୮*  
*Bkhalke*  
President  
KUDUKH VIKASH PARISAD  
Nuagaon, At-Kartik Oraon Field  
P.O.-Khuntagaon, Via-Bisra



**କୁରୁକ୍ଷ ଭାଷା ସାହିତ୍ୟା ବିକାଶ ପରିଷଦ, ଓଡ଼ିଶା**  
**KURUKH BHASHA SAHITYA VIKASH PARISHAD, ODISHA**

BALIJODI ORAON TOLI PARHA CAMPUS, SONA PARBAT, ROURKELA-16, DIST: SUNDARGARH ODISHA  
Phone: 9938446269, 9668339974, 7978120028. Email: kbsvp12@gmail.com

Ref. No. K.B.P. 03/23..

Date. 29.10.23...

To,

Dr. Deborah Anderson  
Unicode Technical Director  
Unicode Technical Committee, U.S.A.



From:

Sri Mangla Xalxo, Secretary  
Kurukh Bhasha Sahitya Vikash Parishad  
Balijodi, Oraon Toll Parha Manda, Rourkela-16,  
Dist: Sundargarh, (Odisha) Pin-769016

Sub: Supporting letter for Kurukh Banna script proposal Reg.

Sir/Madam,

We, on behalf of Kurukh Bhasha Sahitya Vikash Parishad is wings of the kurukh parha on organization Teachers, Intellectual, and cultural workers of the oraon community, formed in 2012 at Rourkela, Odisha. the organization's primary objective is to preserve the Kurukh language, promote the Kurukh Banna (Script), and develop Kurukh literature. Since its formation, the organization has been continuously working towards achieving these goal.

In 2012, Second edition the organization published 2nd book, Kurukh Banna Turna Bachna, Which is the primary book for learning Kurukh Banna Script. This book has been published in about eight edition to this, the organization has published the works of many Oraon community writers and also released a megazin named Kurukh chambi in 2018, written in the Kurukh Banna (script). The organization promotes kurukh literature by setting up book stalls at various cultural event, making the books available to kurukh speakers in Chattisgarh, Jharkhand, West Bengal, and Assam.

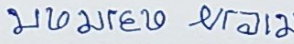
The organization also organizes seminars, webinar, and discussions from time to time to raise awareness about the current challenges faced by the kurukh language and culture and to find solutions to those challenges. As the kurukh language is written in different state e.g Devanagri, Roman, Odiya, Bengali (Script) thus it becomes difficult to pronounce it correctly, also such presence poses a challenge to achieving consistency in the literature of the language.

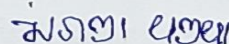
Therefore, the organization is trying to preserve the Kurukh language through the Kurukh Banna (Script) and promote uniformity in linguistic conservation and development in the community.

The organization is very delighted to know about the ongoing efforts of linguist Biswajit Mandal on unicode encoding for "Kurukh Banna Script". UNESCO has included the kurukh language in the list of endangered languages, and the language and culture are struggling for their existence. Therefore, our organization on behalf of kurukh speaking people urges to unicode committee to encode Kurukh Banna (Script) in unicode. This will help Kurukh language to get benefit of technological advancement and sustain its existence to future generation.

Thankyou.

Yours faithfully.

  
( MANMOHAN ORAM )  
President  
Kurukh Bhasha Sahitya  
Vikash Parishad, Odisha

  
( MANGLA XALXO )  
Genl. Secretary  
Kurukh Bhasha Sahitya  
Vikash Parishad, Odisha

**Letter of Support from All India Kurukh Parha Yubak Sangh.**

ଓଡ଼ିଆ ଭାଷା...!! ଓଡ଼ିଆ ଭାଷା...!! ଓଡ଼ିଆ ଭାଷା...!! ଓଡ଼ିଆ ଭାଷା...!! ଓଡ଼ିଆ ଭାଷା...!!

**ଓଡ଼ିଆ ଭାଷା...!!**  
**ALL INDIA KURUKH PARHA YUBAK SANGH**  
Jonkh-Erpa Ara Pello-Erpa  
(An Ancient, Traditional, Educational, Institution of Adivasi Kurukh Parha Youths.)  
Head Office: Addi-Dharam Parha Manda, Youth Centre, Deogaon, Jalda-'A' Block, Rourkela- 43, Dist: Sundargarh, Odisha, India.  
Mobile: 8763903014, 9348332091, 7008559265, 7653885722, 8102423220, 9937458781. E-mail ID: aikpys@gmail.com

Ref. No.: 008/ AIKPYS/ 2023

Dated: 01/05/ 2023

To,  
The Dr. Deborah Anderson,  
Unicode Technical Director,  
Unicode Technical Comittee, USA.



From,  
Mr. Ramchandra Xalxo, President,  
ALL INDIA KURUKH PARHA YUBAK SANGH- (Jonkh-Erpa Ara Pello-Erpa)  
An Ancient, Traditional, Educational, Institution Of Adivasi Kurukh Parha Youths.  
Head Office: Addi-Dharam Parha Manda, Youth Centre, Deogaon, Jalda-'A' Block, Rourkela- 43, Dist: Sundargarh, Odisha, India.

Sub: **Supporting Letter for Encoding KURUKH BANNA Script Proposal Regarding.**

Honorable Sir/Madam,

With reference to the subject cited above, we the Kurukh Youths of India seeking to encode Kurukh-Banna Script to enhance its writing & reading skills in the Technical World. We would like to draw your kind attention to the following few lines for your kind consideration.

1. AIKPYS- (Jonkh-Erpa Ara Pello-Erpa) is an Ancient, Traditional, Educational, Institution of Tribal Kurukh Parha Youths. The organization stands for the purely educational purpose to make kurukh youths aware towards their real Education-System, Socio-Cultural life and all that related with our life style. The organization organizes many Career-Guidance training programs & motivational programs on Kurukh-Language & Culture since last 2004 year. Also we are demanding constitutional rights of Kurukh-Language & Culture and its script KURUKH BANNA.
2. Kurukh is an ancient language belong to Dravidian family spoken by an Oraon Tribe (Kurukh or an Oraon Tribe has been identified under Article- 342 of Indian Constitution) of India and abroad. But it is going to meet it's own death by some reasons. In the current scenario it needs preservation & protection from the elements that caused death of Kurukh Language. More than 19 Million Kurukh (Oraon) People exist in Indian territory. Mr. Basudeoram Khalkho has created KURUKH BANNA Script is easy to write & read. Also it is acceptable by tha ORAON (KURUKH) community throughout the nation and abroad as per its scientific design.
3. We are glad to inform you that, Mr. Bishwajit Mandal, a dedicated activist on Kurukh language & script. We are very much elevated with knowing his effort & hard working for encoding KURUKH-BANNA Script in the UNICODE. We expect that, his effort may bring significant result to preserve Kurukh Language & It's Cultural Heritage at global level. Therefore, we specially request to UNICODE Committee to Encode KURUKH-BANNA Script as soon as possible.

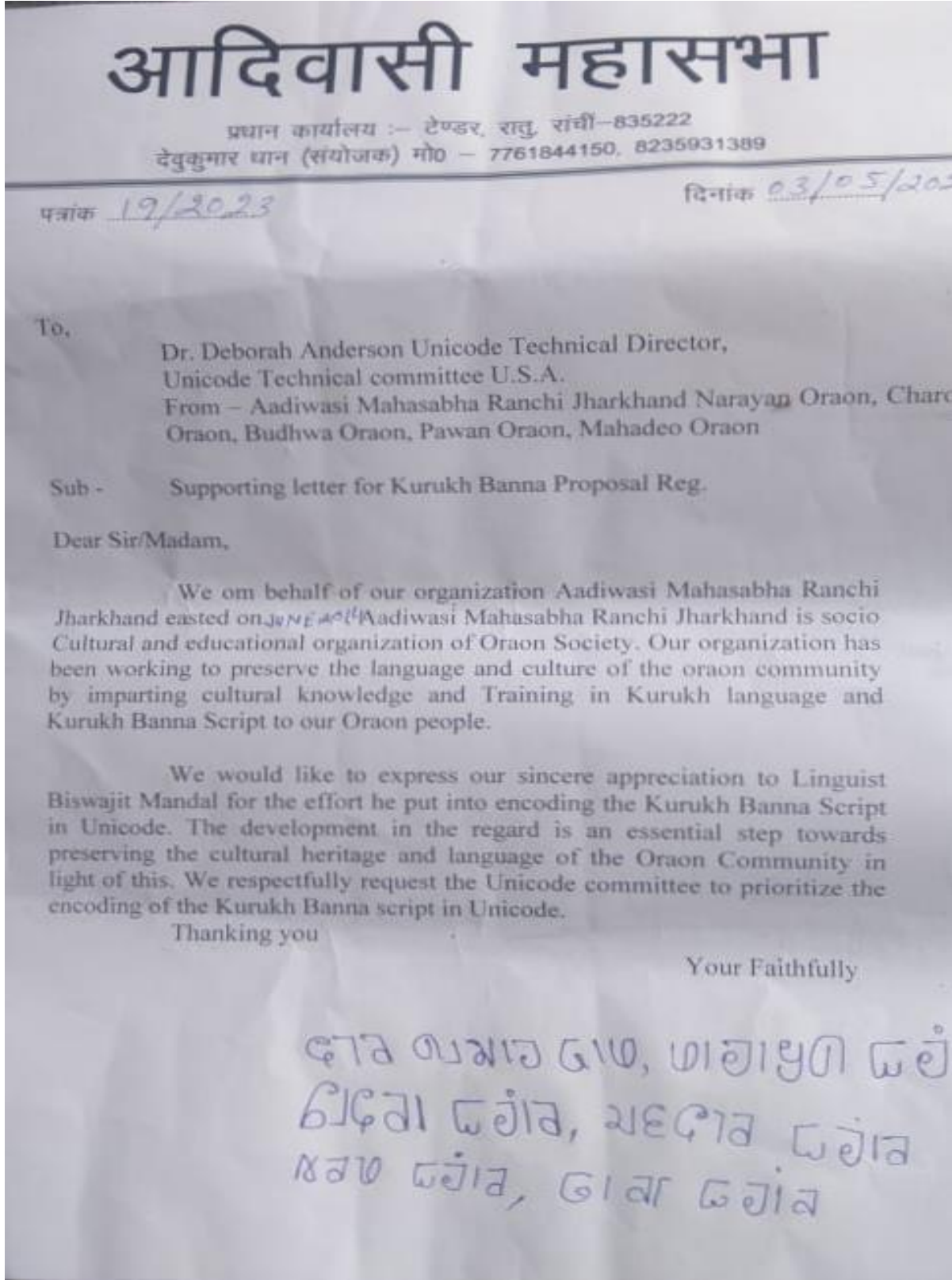
Thanking you,

Your's trustworthy

ଶ୍ରୀରାମଚନ୍ଦ୍ର ଖାଲ୍‌ଖୋ  
Mr. BURUNGA BARLA  
Chief Genl. Secretary  
AIKPYS, Jalda-'A' Block,  
RKL-43, Dist.: SNG, Odisha

ଶ୍ରୀରାମଚନ୍ଦ୍ର ଖାଲ୍‌ଖୋ  
Mr. RAMCHANDRA XALXO  
President  
AIKPYS, Jalda-'A' Block,  
RKL-43, Dist.: SNG, Odisha

Letter of Support from Aadiwasi Mahasabha.





**DURGAPUR KURUKH PARHA  
&  
ORAON CULTURAL TRUST**

Durgapur Orampara, Uditnagar, Rourkela – 769012  
Distt. – Sundargarh, Odisha

Regd. no. 1711502054

Contact no. 9668339974 (M)

E-mail: oraonculturaltrust@gmail.com

Ref. No.: DKPOCT/02/23

Date: 03/05/2023

To,

Dr. Deborah Anderson Unicode Technical Director,  
Unicode Technical Committee, U.S.A

From,

Manmohan Oram  
Durgapur, Orampara,  
Rourkela-12, Sundargarh

**Subject: Supporting letter for Kurukh Banna Proposal Reg.**

Dear Sir/ Madam,

With reference to the above subject, We on behalf of our institution wants to inform you that Durgapur Kurukh Parha & Oraon Cultural Trust traditional, socio-cultural and educational institution of the Oraon community located in Udit Nagar, Rourkela. As we know, UNESCO lists Kurukh language as an endangered language and our language and culture are struggling to survive. Many young people are moving away from their language and culture.

In such situation, as a custodian of community, organization working to preserve the language and culture of the Oraon Community by imparting cultural knowledge and training in Kurukh Banna script to the youth member of Oraon Community.

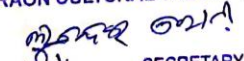
We are very delighted to teach that, linguist Biswajit Mandal is working towards Unicode Encoding for Kurukh Banna Script. We humbly request the Unicode Committee to encode the “Kurukh Banna Script” in Unicode. It will revive and promote our cultural heritage and ensure the survival of the Kurukh language for future generations. With access to online resources and digital content creation in our own Kurukh Banna Script, Kurukh speakers will be encouraged to use and promote the language, contributing to its preservation and revitalization.

With thanks and regards.

DURGAPUR KURUKH PARHA &  
ORAON CULTURAL TRUST

  
Manmohan Oram  
PRESIDENT

DURGAPUR KURUKH PARHA &  
ORAON CULTURAL TRUST

  
LUNDEI ORAM  
SECRETARY

DURGAPUR KURUKH PARHA &  
ORAON CULTURAL TRUST  
Regd No.- 1711502054  
Durgapur, Orampara, Rourkela  
Distt. Sundargarh, Odisha Pin-769012



# ଓଡ଼ିଆ ଶବ୍ଦର ଉଦ୍ଧାରଣ

## UDAAN SARNA SAMITI

Mandal Sai, Chakradharpur, Dist: West Singhbhum (Jharkhand)  
Mobile: 8340299426, 7488141794

Ref.No. USS 09/23.....



Date. 01/05/2023.....

To,  
Dr. Deborah Anderson  
Unicode Technical Director  
Unicode Technical Committee USA

**Sub: Supporting letter for Kuruk Banna proposal reg.**

Dear Sir,

We, on behalf of our organization, Udaan Sarna Samiti, Chakradharpur, Jharkhand would like to express our sincere appreciation to linguistic Biswajit Mandal for the effort he put into encoding the Kuruk Banna script in Unicode. The development in this regard is an essential step towards preserving the cultural heritage and language of the oraon community.

Udaan Sarna Samiti is a socio-cultural platform of our oraon society. Our organization has been working to preserve the language and culture of the oraon society by imparting knowledge and training in Kuruk language and Kuruk Banna script to our oraon community.

Inlight of the above, we respectfully request the Unicode committee to prioritize the encoding of the Kuruk Banna script in Unicode.

Thanking you

Yours faithfully

*Sidam Sirney*  
Secretary  
Udaan Sarna Samiti  
CKP, Jharkhand

*୧୩୦୧ ୧୩୧୮*  
(Udaan Sarna Samiti)  
President  
Udaan Sarna Samiti  
CKP, Jharkhand



Letter of Support from Rajee Parha.



# राजी पड़हा

उराँव आदिवासियों का पारम्परिक सामाजिक, सांस्कृतिक, धार्मिक एवं न्यायिक संगठन  
(रूढ़ि प्रथा संरक्षण समिति)



बाबा बिस्वजीत मंडल



बाबा कनिका उदय

मुख्यालय : नई रोहतासगढ़, सरना शक्ति पाठ, परसापानी, पो.अ. सेवारी, जहरीली - राजपुर, जिला - बलरामपुर, छत्तीसगढ़ (भारत), पिन 497118

क्रमांक ...13... /रा.प.भा./2023

दिनांक 28/4/23.....



To  
Dr. Deborah Anderson Unicode Technical Director,  
Unicode Technical Committee U.S.A.

From,  
Jugeswar Urang  
At/PO- Banipur  
Dist- Debrugarh, Assam  
Pin- 786003

Sub: Supporting letter for Kuruk Banna Proposal Reg.

Dear Sir/ Madam,

In reference to the above subject we on behalf of our organisation wants to inform you that Kurukh Rajeepadha Bharat is an ancient traditional, socio-cultural, and educational institution of the Oraon community located in at Pharsapani, PO- Sabari, Dist-Balrampur, Chhatisgarh. It is National level organization the Oraon People. As we know Kurukh language is listed as an Endangered language by UNESCO and our language and culture are struggling to survive.

In such situation, as a custodian of community, Kurukh Rajee Padha Bharat has been working to preserve the language and culture of the Oraon Community by imparting cultural knowledge and training in Kurukh language and Kurukh Banna script to the youth member of Oraon community.

It brings us great joy to learn to linguist Biswajit Mandal's efforts to encode the Kurukh Banna script in Unicode this achievement is sure to have a positive impact on the Oraon Community by allowing them to safeguard their cultural heritage and language. We humbly urge the Unicode committee to take swift action to encode the Kurukh Banna script in Unicode.

Thanking you,

Yours faithfully,

*Dhiraj Bhagat*  
DEWAN  
KURUX RAJEE PARHA  
BHARAT

Dhiraj Bhagat  
Nagra Kata  
PO- New Mal Bazar  
Dist- Siliguri, W.B.

*Edwad Tirkey*  
KAHTO  
KURUX RAJEE PARHA  
BHARAT

Edwad Tirkey  
At- Patelpara  
Ambicapur, C.G.

*Jugeswar Urang*  
BEL  
KURUX RAJEE PARHA  
BHARAT

Jugeswar Urang  
Banipur, Dist- Debrugarh  
Assam

*बंशीधर उराँव*  
BEL  
KURUKH PADA PARHA  
CHHATISHGARH

*बिजेद भगत*  
BEL  
KURUKH PADA PARHA  
JHARKHAND



# କୂରୁକ୍ଷ ଦାଦା ପାଠ୍ୟ ବିଦ୍ୟାଳୟ KURUKH DARA PARHA BALIJODI

(Gram Paramparik Gram Sabha)  
ROURKELA - 769016, DIST. SUNDARGARH, ODISHA



Ref No KDPB.05/23.....

Date: 01/05/2023.....

To  
Dr. Deborah Anderson Unicode Technical Director,  
Unicode Technical Committee U.S.A.

Sub: Supporting letter for Kuruk Banna Proposal Reg.

Dear Sir/ Madam,

In reference to the above subject we on behalf of our institution wants to inform you that Kurukh Dara Parha is an ancient traditional, socio-cultural, and educational institution of the Oraon community located in Balijodi, Rourkela, Odisha. As we know, Kurukh language is listed as an endangered language by UNESCO, and our language and culture are struggling to survive. Many young people are moving away from their language and culture.

In such situation, as a custodian of community, Kurukh Dada Parha has been working to preserve the language and culture of the Oraon Community by imparting cultural knowledge and training in Kurukh language and Kurukh Banna script to the youth member of Oraon community.

To further these efforts, we received a grant from the Government of Odisha in 1995. As a result, Kurukh Dada Parha now organize residential training camps on a large scale, making many young people aware of Kurukh language and Kurukh Banna script.

In 2018, Kurukh Dada Parha, in association with E-Disom Technology, launched the 'Kurukh Keyboard' Android App to learn and type in Kurukh Banna script on mobile devices. This initiative grabbed the attention of young member of community towards language and its script, also it inspired other traditional and customary Parha institutions in states like Chhattisgarh, Jharkhand, Bengal and Assam to make the Oraon community members revive their language, culture and script.

We are very delighted to learn that linguist Biswajit Mandal is working towards Unicode encoding for Kurukh Banna script. We humbly request the Unicode Committee to encode the 'Kurukh Banna Script' in Unicode. It will revive and promote our cultural heritage and ensure the survival of the Kurukh language for future generations. With access to online resources and digital content creation in our own Kurukh banna script, Kurukh speakers will be encouraged to use and promote the language, contributing to its preservation and revitalization.

Thanking you,

Yours faithfully,

ଅଧ୍ୟକ୍ଷ ଗାନ୍ଧୀ

କୂରୁକ୍ଷ ମୂଲି ପାଠ୍ୟ ବିଦ୍ୟାଳୟ

ବେଲ୍

ଚନ୍ଦ୍ରକାନ୍ତ ଚରାଣ

Bel  
Kurukh Muli Padha,  
Sambalpur

ପଦ୍ମା ରାୟ

କୂରୁକ୍ଷ ମୂଲି ପାଠ୍ୟ ବିଦ୍ୟାଳୟ

ବେଲ୍

ପଦ୍ମା ରାୟ

କୂରୁକ୍ଷ ମୂଲି ପାଠ୍ୟ ବିଦ୍ୟାଳୟ

ବେଲ୍

କୂରୁକ୍ଷ ଦାଦା ପାଠ୍ୟ ବିଦ୍ୟାଳୟ  
Mangala xalxo  
BEL  
KURUKH DADA PARHA  
Balijodi, Rourkela-16

**Letter of Support from Kukuda Kurukh Parha.**



କାନ୍ଦେ ଧାର୍ମେ !

କାନ୍ଦେ ବାଅଲ ! !

କାନ୍ଦେ ପାଡ଼ୁଡ଼ା !!!

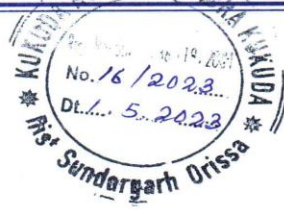
# KUKUDA KUDUKH PADHA

KUKUDA, BISRA BLOCK, DIST.-SUNDARGARH (ODISHA)

Regd. No. S/GD-4236-119/2001



Ref. No. 16/2023.....



Date. 5.20.23.

To

**Sr. Deborah Andersonn Unicode Technical Director  
Unicode Technical Committee USA**

From:

**Duda Tirkey Bel  
Kukuda Kuudukh Padha  
Vill. Kukuda, Po. Bisra Berkera  
Dist: Sundargarh Odisha**

**SUB:- Supporting letter for Kurukh Banna proposal Reg.**

Dear Sir/Madam,

On behalf of our organization Kurukh Dada Parha in reference to the above subject once to inform you that Kurukh Dara Parha Kukuda is an ancient traditional, social cultural and educational institute of the our locality, which is at Kukuda Po. Bisra, Birkera, Dist. Sundargarh, Odisha. As we know Kurukh language is listed as an endangered language by UNESCO our language and culture are struttling to survive. Many young people are moving away from their language and cultural.

In such situation as constudian of community Kurukh Dara Parh Kukuda has been working to preserve the language and culture of the Oraon community by imparting cultural knowledge and training in Kurukh language Kurukh Banna script to the youth member of Oraon community.

We are grateful for the hard and dedication shown by linguist Biswajit Mandal to encode the Kurukh Banna script in Unicode. This achievement will be significant milestone in the preservation of Oraon community's cultural heritage and language. As such as we humbly request the Unicode committee to encode the Kuruk Banna script in Unicode as soon as possible.

Thanking you,

Yours faithfully,

**DUDA TIRKEY**  
Dada Raja Bel  
Kukuda Kundukh Padha  
Kukuda

**ISO/IEC JTC 1/SC 2/WG 2**  
**PROPOSAL SUMMARY FORM TO ACCOMPANY SUBMISSIONS**  
**FOR ADDITIONS TO THE REPERTOIRE OF ISO/IEC 10646<sup>1</sup><sub>TP PT</sub>**

Please fill all the sections A, B and C below.

Please read Principles and Procedures Document (P & P) from <http://std.dkuug.dk/JTC1/SC2/WG2/docs/principles.html> for guidelines and details before filling this form.

Please ensure you are using the latest Form from <http://std.dkuug.dk/JTC1/SC2/WG2/docs/summaryform.html>.

See also <http://std.dkuug.dk/JTC1/SC2/WG2/docs/roadmaps.html> for latest Roadmaps.

**A. Administrative**

1. Title:	<b>Preliminary Proposal to Encode the Kurux Banna in UCS</b>	
2. Requester's name:	<i>Biswajit Mandal (biswajitmandal.bm90@gmail.com)</i>	
3. Requester type (Member body/Liaison/Individual contribution):	<i>Individual Contribution</i>	
4. Submission date:	<i>05/05/2023</i>	
5. Requester's reference (if applicable):		
6. Choose one of the following:		
This is a complete proposal:	<i>Yes</i>	
(or) More information will be provided later:	<i>No</i>	

**B. Technical – General**

1. Choose one of the following:		
a. This proposal is for a new script (set of characters):	<i>Yes</i>	
Proposed name of script:	<i>Kurux Banna</i>	
b. The proposal is for addition of character(s) to an existing block:		
Name of the existing block:		
2. Number of characters in proposal:	<i>68</i>	
3. Proposed category (select one from below - see section 2.2 of P&P document):		
A-Contemporary <input checked="" type="checkbox"/>	B.1-Specialized (small collection) <input type="checkbox"/>	B.2-Specialized (large collection) <input type="checkbox"/>
C-Major extinct <input type="checkbox"/>	D-Attested extinct <input type="checkbox"/>	E-Minor extinct <input type="checkbox"/>
F-Archaic Hieroglyphic or Ideographic <input type="checkbox"/>	G-Obscure or questionable usage symbols <input type="checkbox"/>	
4. Is a repertoire including character names provided?	<i>Yes</i>	
a. If YES, are the names in accordance with the "character naming guidelines" in Annex L of P&P document?	<i>Yes</i>	
b. Are the character shapes attached in a legible form suitable for review?	<i>Yes</i>	
5. Fonts related:		
a. Who will provide the appropriate computerized font to the Project Editor of 10646 for publishing the standard?	<i>Biswajit Mandal (biswajitmandal.bm90@gmail.com)</i>	
b. Identify the party granting a license for use of the font by the editors (include address, e-mail, ftp-site, etc.):	<i>Basudeo Ram Khalkho (basudeokhalkho1996@gmail.com)</i>	
6. References:		
a. Are references (to other character sets, dictionaries, descriptive texts etc.) provided?	<i>Yes</i>	
b. Are published examples of use (such as samples from newspapers, magazines, or other sources) of proposed characters attached?	<i>Yes</i>	
7. Special encoding issues:		
Does the proposal address other aspects of character data processing (if applicable) such as input, presentation, sorting, searching, indexing, transliteration etc. (if yes please enclose information)?	<i>Yes</i>	
	<i>See proposal for additional details</i>	

**8. Additional Information:**

Submitters are invited to provide any additional information about Properties of the proposed Character(s) or Script that will assist in correct understanding of and correct linguistic processing of the proposed character(s) or script. Examples of such properties are: Casing information, Numeric information, Currency information, Display behaviour information such as line breaks, widths etc., Combining behaviour, Spacing behaviour, Directional behaviour, Default Collation behaviour, relevance in Mark Up contexts, Compatibility equivalence and other Unicode normalization related information. See the Unicode standard at <http://www.unicode.org> for such information on other scripts. Also see Unicode Character Database ( <http://www.unicode.org/reports/tr44/> ) and associated Unicode Technical Reports for information needed for consideration by the Unicode Technical Committee for inclusion in the Unicode Standard.

### C. Technical - Justification

1. Has this proposal for addition of character(s) been submitted before?	No
If YES explain	
2. Has contact been made to members of the user community (for example: National Body, user groups of the script or characters, other experts, etc.)?	Yes
If YES, with whom?	<i>Basudeo Ram Khalkho, Mangla Xalxo, Manmohan Oram, Ramchandra Xalxo, Burunda Barla, Lundeï Oram, etc</i>
If YES, available relevant documents:	<i>See citations in text proposal</i>
3. Information on the user community for the proposed characters (for example: size, demographics, information technology use, or publishing use) is included?	Yes
Reference:	<i>See text of proposal</i>
4. The context of use for the proposed characters (type of use; common or rare)	Common
Reference:	<i>See text of proposal</i>
5. Are the proposed characters in current use by the user community?	Yes
If YES, where? Reference:	<i>See text of proposal</i>
6. After giving due considerations to the principles in the P&P document must the proposed characters be entirely in the BMP?	No
If YES, is a rationale provided?	
If YES, reference:	
7. Should the proposed characters be kept together in a contiguous range (rather than being scattered)?	Yes
8. Can any of the proposed characters be considered a presentation form of an existing character or character sequence?	No
If YES, is a rationale for its inclusion provided?	
If YES, reference:	
9. Can any of the proposed characters be encoded using a composed character sequence of either existing characters or other proposed characters?	No
If YES, is a rationale for its inclusion provided?	
If YES, reference:	
10. Can any of the proposed character(s) be considered to be similar (in appearance or function) to, or could be confused with, an existing character?	No
If YES, is a rationale for its inclusion provided?	
If YES, reference:	
11. Does the proposal include use of combining characters and/or use of composite sequences?	No
If YES, is a rationale for such use provided?	
If YES, reference:	
Is a list of composite sequences and their corresponding glyph images (graphic symbols) provided?	
If YES, reference:	
12. Does the proposal contain characters with any special properties such as control function or similar semantics?	No
If YES, describe in detail (include attachment if necessary)	
13. Does the proposal contain any Ideographic compatibility characters?	No
If YES, are the equivalent corresponding unified ideographic characters identified?	
If YES, reference:	