Proposal to Encode Chisoi in the Universal Character Set

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1. Introduction

This is a proposal to encode Chisoi in the Universal Character Set. Chisoi is used to in West Bengal, Odisha and Jharkhand for writing the Kurmali /Kudmali language. This document provides a description of the writing system, implementation details, a code chart and names list, and a few specimens.

2. Backgrounds

Chisoi (ষ্টমেণ্ডে) is a script used for writing Kurmali (Devanagari:কুরमालि, Bengali:কুড়মালি, Odia:କୁଡ଼ମାଲି, Chisoi:ক্রেডেম্বেরে)(ISO 639-3:kyw)[12], is an Indo-Aryan language of 556,089 people (census 2011) primarily spoken in Saraikela Kharswan District, East Singhbhum District, West Singhbhum District, Ranchi District of Jharkhand; Mayurbhanj District, Kendujhar District, Jajpur District and Sunargarh District of Odisha; Purulia District, Bankura District, Jhargram District and Paschim Medinipur District of West Bengal. It is also mother tongue of some people of Chhattisgarh, Assam and other parts of India even in Bangladesh and Nepal. Kurmali language is spoken by Kurmi people, mainly. It also spoken by many other people of Jungle Mahal area i.e, Bagal, Kamar, Kamhar, Tanti, Harhi, Muchi, Napit, Dhopa, Dhai, etc. It was recognized as an additional official language of Jharkhand and West Bengal.[12]

Kurmali Language written in four scripts i,e. Chisoi, Devanagari, Bengali and Odia. Devanagari and Bengali are commonly used in official purposes in Jharkhand and West Bengal, but Chisoi is the own script of Kurmali Language. Many peoples and Kurmali linguists created their own Kurmali script in last few decades, but unfortunately those are not accepted by the people and not implemented later. Jayanta Kumar Mahata of Bamundiha village, Medinipur district had invented Chisoi scripts in 1986. He gets inspiration to create a new writing system from his grandfather. His grandfather was one of the famous Kurmali folklore singer of his time. He started to collect various ancient symbols, Rangolis, Alpanas, ritual signs of Kurmali communities from his school time [see fig.1]. After completing his graduation, he created



Figure 1: Showing various Kurmali traditional symbols as well as Rangoli and Alpanas.

Jayanta Kumar Mahata published 'Kurmali Chisoi Chinhap' in 1994. He composed Kurmali Grammer in 2007. He established 'All India Kurmali Chisoi-A Society' তন চাম্ট্রাট তথেগানেত তথেগানেত বার্ট্রাট্রেট না 1994 and 'Kurmali Chisoi-A writers and Artist Association' in 2009. In 2016, Jayanta Kumar Mahata, Narayan Mahata along with 3 more people established 'Kurmali Chisoi Chari Foundation' trustee-board. Later he established 'Kurmali Chisoi-A Teachers' Association' তথ্যপানের কর্মান্তন তেইনামের ১মান্তনার্থন নার্থনার প্রায়ের বিষয়ের বিষয All India Kurmali Chisoi-A Society opened first Kurmali private elementary schools and adult education center in 2009. Now, more than 100 schools are running in all over the Jungle Mahal region. These schools are specifically for Kurmali mother tongue and Chisoi learning. In 2009, some schools got formal recognition from state Govt. Nowadays, 10 Kurmali elementary schools are running under Govt. of India's Sarva Shiksha Abhiyan सर्व शिक्षा अभियान and Samagra Shiksha Abhiyan समग्र शिक्षा अभियान schemes, like Gadra, Sonakhuli, Joypur, Barsole, Dwarkanath, etc. [see fig.10][see fig.16]

One digitized font "KurmaliChisoy" (True Type) available for Chisoi, was designed by Pankaj Mahato in the year 2000. All the Kurmali books, magazines, banners, pamphlets, etc used this font. Another True Type font "Chisoi" designed by Nurul Alam Ador and Biswajit Mandal in the year of 2021, specifically for this proposal. "Chisoi" True Type Font is used in the proposed code chart and names list. This font is accepted by various Kurmali associations. [see table no.1]

2.1 Usage

Chisoi is currently used in writing and print for various purposes:

Educational Materials

Primary level educational materials for Kurmali in Chisoi published by All India Kurmali Chisoi-A Society, Raghunathpur, Jhargram District (W.B.). Examples of primers are 'Kurmāli Cisoi Cinhāp' কথেমানের কটনাই ระหุบเซอุ for class-l [1]and 'Kuṛmāli Cisoi Cinhāp Dôṛi Khỗaṛā' ชะบงและ ธะสะ ธะหุบเซอุ ยงะ ซำเหนต for class-2, etc in 2009.[see fig.7][2]

Newspaper

A weekly newspaper of Kurmali ' $\bar{A}dd\bar{a}s'$ recall in Chisoi first time published in 1st Dec 2016, edited by Narayan Mahata[see fig.5][10]. Now it is not publishing from 2 years due to COVID pandemic. New edition will be published in new font so soon. Another monthly magazine 'Pôrôm' প্রম (2017) published in Bengali, sometime it carries Kurmali articles.[see fig.20][11]

• Ephemera

'Kurmali Chisoi-A Teachers' Association' হত্যেশনেই ইইনতই- ই ইউটেই মনেওমইয়ে produces and distributed various posters, banners and pamphlets.[see fig.8]

Linguistic works

The Kurmali-to-English dictionary in Chisoi *'Kurmāli Sārā bỗārār' ธะเ*บนส่ว สเตบส อัตเบลช edited by Narayan Mahata in 2014. [see fig.14][8]

Literary Works

Kurmali poetry book 'Kurmāli Cāri Disā' হুরেডারের ব্রুমের by poet Mangal Mahata written in both Chisoi and Bengali scripts in 2016 [see fig.22][7]. Another Kurmali poetry book 'Cāricethā' อัติพระประเท written by linguist Narayan Mahata in 2014 [see fig.23][6]. The Kurmali prose in Chisoi 'Bulān' อะสเติม written by Maniklal Mahata in 2018 [see fig.21][9].

Workshops

'All India Kurmali Chisoi-A Society' তন চুদ্দুত্বাত তথ্যথানেত তথ্যথানেত কাল্ডের নার্ভারতেই conducts Half Yearly Chisoi Teaching-Learning Workshop every year.

3. Script

The script is assigned the name 'Chisoi'. The proposed characters are intended for presenting current forms of Chisoi. The set consists of 41 characters: 28 letters, 2 signs, 1 punctuation and 10 digits.

3.1 Structure

Chisoi (also called as Kuṛmāli Cisoi লেখেনের ১১৪৪১, Cisôi lipi ১১৪৪১ নালের or Cisoi lipi ১১৪৪১ নালের) is written from left-to-right. It has a feature of an alphabet: vowels are written as full letters, with no vowel-modifiers. However consonants may have an inherent vowels; it typically is pronounced [ɔ] or [ə], normally never occurs in final position but some cases it can occur during to pronounce 'Tadbhav तद्भव' words. It means Sanskrit words with some variations. For examples: ঝামেণ 'sāntô' Peaceful, এই। 'môstô' Big in size, ইর্ণাপাণ 'ôbgônôtô' Known, etc[see fig.18].

The script has no regular system of conjuncts but it has virama to mute the inherent vowel[see fig.2,3,4 &5]. The letter \$ JARAH [h] is used after consonants to indicate aspirations: 28 khô [kho], vis ghô [gho], 38 chô [tho], vis jhô [ʤʰɔ], etc.

Chisoi is an alphabetical script that is written from left-to-right. There are no attested ligatures. The typical didactic presentation of Chisoi is shown with one major section; signs are included in this section. The section is a chart with ten rows and three columns, where first to fourth, sixth and seventh row's first letter is a vowel, and the letter names are based on Brahmic style.

2	7	7
A	BA	AAI
স	ч	þ
AA	GA	TA
L	검	М
E	SA	NA
5	7	ຆ
I	KA	RA
ч	υ	υ
MA	НА	RRA
૮	€	ન
U	DA	LA

9	യ	8
0	NYA	NGA
ំ	리	υ
ANUSVARA	YA	DDA
3	갢	며
CA	JA	PA
CA Z	JA	PA Q

3.2 Chisoi Sign ANUSVARA <^>>

The sign ($\mathring{\mathbf{o}}$) is written on the top of the vowels and consonants in question except JARAH. It is a nasalization mark of Chisoi. It corresponds to the Candrabindu in Devanagari, Bengali and Odia. Its IPA is [$\mathring{\mathbf{o}}$]. For examples: $\mathring{\mathbf{c}}$ [$\mathring{\mathbf{o}}$], $\mathring{\mathbf{c}}$ [$\mathring{\mathbf{o}}$], $\mathring{\mathbf{c}}$ [$\mathring{\mathbf{o}}$], $\mathring{\mathbf{c}}$ [$\mathring{\mathbf{o}}$], etc. To represent the nasalized aspirated consonants, the position of sign ($\mathring{\mathbf{o}}$) will on the top of the consonant letter, not on the top of JARAH. For examples: $\mathring{\mathbf{c}}$ [$\mathring{\mathbf{o}}$ [$\mathring{\mathbf{o}}$ [$\mathring{\mathbf{o}}$], $\mathring{\mathbf{o}}$ [$\mathring{\mathbf{o}}$ [$\mathring{\mathbf{o}}$], $\mathring{\mathbf{o}}$ [$\mathring{\mathbf{o}}$ [$\mathring{\mathbf{o}}$], $\mathring{\mathbf{o}}$], $\mathring{\mathbf{o}}$ [$\mathring{\mathbf{o}}$], $\mathring{\mathbf{o}}$], $\mathring{\mathbf{o}}$], $\mathring{\mathbf{o}}$ [$\mathring{\mathbf{o}}$], $\mathring{\mathbf{o}}$], $\mathring{\mathbf{o}}$], $\mathring{\mathbf{o}}$ [$\mathring{\mathbf{o}}$], $\mathring{\mathbf{$

In the attached specimens SIGN ANUSVARA shown as (o), it is due to lack of Unicode standard font. The actual sign of ANUSVARA is (°). It has similarity in glyph with 'COMBINING RING ABOVE' U+030A (°), but this proposal for separate encoding of CHISOI SIGN ANUSVARA.

3.2.1 Position of Chisoi Sign ANUSVARA < . >

The position of sign (°) will on the top of the both vowels and consonants. But in the old font "KurmaliChisoy" shows different positions for different letters. It occurs due lack of Unicode standardization. Actually the correct position of sign (°) is the top middle of the letters. For example:

Figure 2: Comparison between original font (first line) and new font (bottom line). Old font is showing non similarities in position of Anusvara but the new font showing accurate top middle position of Anusvara.

3.3 Chisoi letter JARAH <\$>

The letter (3) JARAH 'Jôrô'hô' ขบบ means 'to add'. It is used after consonants to indicate aspirations [6]. JARAH never place in the initial position of any Kurmali words, always used after consonants. It never carry SIGN ANUSVARA < > and VIRAMA < >.

In Kurmali writing system there is no use of visarga. JARAH is the unique character which is not available in Devanagari, Bengali and Odia scripts because it used to make aspirated consonants. For examples: $(c^{\hat{n}})$ 379, $(c^{\hat{n}})$ 38, $(c^{\hat{n}})$ 39, $(c^{\hat{n}})$ 39, $(c^{\hat{n}})$ 39, $(c^{\hat{n}})$ 30, $(c^{\hat{n}})$ 319, $(c^{\hat{n}})$ 319

It has similarity in glyph with 'BENGALI SIGN VISARGA' U+0983 (3), but this proposal for separate encoding of CHISOI LETTER JARAH [see fig.12].

3.4 Chisoi Sign VIRAMA < <>

It is also known as 'Sis'ô' 려려라. The sign (ූ) is written in the beneath of the letters in question. Chisoi has no regular system of conjuncts, VIRAMA functions as like to mute the inherent vowel either [5] or [8] of the consonants. For examples: $\mathbf{Z}[k]+=\mathbf{Z}[k]$, $\mathbf{v}[g]+=\mathbf{v}[g]$, $\mathbf{v}[g]+=\mathbf{v}[p]$, $\mathbf{z}[g]+=\mathbf{v}[g]$, $\mathbf{z}[g]+=\mathbf{v}[g]$, $\mathbf{z}[g]+=\mathbf{v}[g]$, $\mathbf{z}[g]+=\mathbf{v}[g]$, $\mathbf{z}[g]+=\mathbf{v}[g]$

To represent the inherent vowel less aspirated consonants, the position of sign () will beneath of the consonant letter, not beneath of JARAH. For examples: $\mathfrak{E}^{\mathfrak{g}}[k^{\hat{n}}]+=\mathfrak{F}^{\mathfrak{g}}[k^{\hat{n}}], \mathfrak{V}[\mathfrak{g}^{\hat{n}}]+=\mathfrak{V}[\mathfrak{g}^{\hat{n}}], \mathfrak{S}[\mathfrak{g}^{\hat{n}}]+=\mathfrak{F}^{\mathfrak{g}}[\mathfrak{g}^{\hat{n}}]$ ซะ[c^h g]+=ซะ[c^h g], c^h g]+=+= c^h g] งวะ[c^h g] งวะ

3.4.1 Other uses of Chisoi Sign VIRAMA <>>

Glottalizational mark: if last consonant of any word contains VIRAMA <>> and a letter before LETTER A <<>> contains VIRAMA <্>, it reflects glottal stop phoneme. For examples: מינאים [cnhɔrʔ] 'inexpert', שישה [cgcmʔ] 'not moving', एठ्डा क्रिक्टा?] 'dirtful' हाइराइ [sis?a] 'stop', etc.

Virama with LETTER I: if vowel LETTER I <さ> contains VIRAMA <っ, so left sided consonant as well vowel letter will pronounce with [o] sound. For examples: চেই্মফনে [aoinɔʈal] 'Eight' , ষ্ট্রেরা [dʒoidʰa] 'warrior' and কলেই [tʃisoi] 'Chisoi'[see fig.12].

3.5 Chisoi letter AAI <₹>

It is a diphthong vowel letter with combination of LETTER AA and LETTER I. Its glyph is a combination of two letters দে+ፘ=๒. Its IPA is [ai]. To represent this sound we use आइ (in Devanagari), আই (in Bengali) and ଆଇ (in odia). For examples: ৮৮৫ 'Āinā' /আइনা/আইনা/আଇনা, Mirror and ৮৮৮ে 'Āīsā' /আइঁমা/আইঁসা/আଇঁথা, name of a month, etc.

3.6 Chisoi letter RRA<v>

It is the voiced retroflex flap r[r] of Chisoi. To represent this sound we use র (in Devanagari), ড় (in Bengali) and φ (in odia). For examples: **েহ্সেড** (ôbgôr)अब्जाड/অব্গড়/ଅ令্ଗଡ়, 'Stupid', **েদেড-হ্সেড** (ôgôr-bôgôr)अगड-बगड/অগড়-বগড়/ଅଗଡ଼-ବଗଡ଼, 'Meaningless', etc.

3.5 Digits

There is full set of decimal digits: O ZERO, O ONE, TWO, THREE, S FOUR, S FIVE, C SIX, P SEVEN, U EIGHT, **ω** NINE [see fig.25].

3.6 Punctuations

Chisoi uses DANDA () in place of full stop. It has similarity in glyphs with DEVANAGARI DANDA U+0964. But this proposal is for separate encoding of DANDA. There are no script-specific punctuation marks. Latin marks, such as: ; " () ? / - and ! are used [see fig.24].

4. Character names

The name of the script is Chisoi 'Cisoi' 52405' Symbol'. The name Chisoi first time found in the literature of Kurmali 'Kurmāli Cisoi Cinhāp'. Proposed character names for this proposal are given below [see table no.1].

<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>
2	A	ô	[c]	7	KA	kô	[kɔ]	ક	NGA	ô'n	[ŋɔ]
7	BA	bô	[cd]	ຆ	RA	rô	[cn]	3	CA	cô	[ʧɔ]
স	AAI	ā'i	[ai]	ч	MA	mô	[cm]	Z,	JA	jô	[ʤ၁]
7	AA	ā	[a]	υ	НА	hô	[hɔ]	히	PA	pô	[cq]
ч	GA	gô	[gɔ]	v	RRA	ŗô	[cŋ]	ំ	ANUSVARA	õ	[~]
þ	TA	tô	[<u>t</u> ɔ]	4	U	u	[u]	리	YA	ôy	[c <u>i</u>]
L	E	е	[e]	£	DA	dô	[dɔ]	ν	DDA	ô′ḍ	[dɔ]
સ	SA	sô	[sɔ]	ન	LA	lô	[cl]	2	TTA	ţô	[cj]
М	NA	nô	[cn]	9	0	0	[o]	0	JARAH	jôŗô'hô	[^h]
5	I	i	[i]	ക	NYA	'iñ	[ɲɔ]	্	VIRAMA	sis'ô	

Table 1: column A is showing letters and signs, column B is proposed character names, column C is showing original or indigenous name of letters and column D is showing IPA.

5. Character Shapes

The Chisoi proposed here for encoding in the UCS in the Standard Chisoi, the font "CHISOI" for the proposed was drawn by Nurul Alam Ador and Biswajit Mandal in the year 2021 [see fig.9]. The original font "KURMALICHISOY" was drawn by Pankaj Mahato in the year 2009. All the Kurmali books, documents, specimens, etc those attached here are in original font. The new "CHISOI" font used here because original font having lots of imperfections ,that is lack of standard qualities in glyphs, problems in positioning of signs, non collinearity in letters and perfect spacing problems in letters. The comparison table no. 1 includes Pankaj Mahato's original font "KURMALICHISOY" and new "CHISOI" font [see table no.2].

5.1 Shapes and collinearities

In the original font having the problem of standard quality in glyphs of letters as well as having problem in coaxial of letters. Some letters heights and sizes are different from others. Attached specimens are showing this problem. The new font is perfectly collinear and good looking.



Figure 3: Comparison between original font (first line) and new font (bottom line). Old font is showing non collinearities of letters but the new font showing perfect collinearities as well as beautiful sorts.

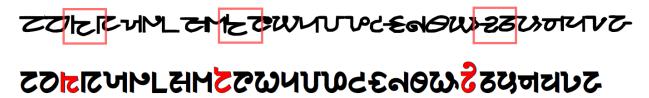


Figure 4: Comparison between original font (first line) and new font (bottom line). Old font is showing the wrong position and size of letter AAI, I and NGA but the new font showing the perfectness.

5.2 Space between two letters

We are having the proper spacing and gap problem between two letters in the original font. Letters are not perfectly set in the position that is why some letters become stuck with each other and looking like a conjunction.[see fig.13]



Figure 5: Comparison between original font (first line) and new font (bottom line). Old font is showing the spacing problems between two letters but the new font showing accurate gap between two letters.

6. Tentative Characters Properties

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xxxx00;CHISOI LETTER A;Lo;0;L;;;;N;;;;
xxxx01;CHISOI LETTER BA;Lo;0;L;;;;N;;;;
xxxx02;CHISOI LETTER AI;Lo;0;L;;;;N;;;;
xxxx03;CHISOI LETTER AA;Lo;0;L;;;;N;;;;
xxxx04;CHISOI LETTER GA;Lo;0;L;;;;N;;;;
xxxx05;CHISOI LETTER TA;Lo;0;L;;;;N;;;;
xxxx06;CHISOI LETTER E;Lo;0;L;;;;N;;;;
xxxx07;CHISOI LETTER SA;Lo;0;L;;;;;N;;;;
xxxx08;CHISOI LETTER NA;Lo;0;L;;;;;N;;;;
xxxx09;CHISOI LETTER I;Lo;0;L;;;;N;;;;
xxxx0A;CHISOI LETTER KA;Lo;0;L;;;;N;;;;
xxxx0B;CHISOI LETTER RA;Lo;0;L;;;;N;;;;
xxxx0C;CHISOI LETTER MA;Lo;0;L;;;;N;;;;
xxxx0D;CHISOI LETTER HA;Lo;0;L;;;;N;;;;
xxxx0E;CHISOI LETTER RRA;Lo;0;L;;;;;N;;;;
xxxx0F;CHISOI LETTER U;Lo;0;L;;;;N;;;;
xxxx10;CHISOI LETTER DA;Lo;0;L;;;;N;;;;
xxxx11;CHISOI LETTER LA;Lo;0;L;;;;N;;;;
xxxx12;CHISOI LETTER O;Lo;0;L;;;;N;;;;
xxxx13;CHISOI LETTER NYA;Lo;0;L;;;;N;;;;
xxxx14;CHISOI LETTER NGA;Lo;0;L;;;;N;;;;
xxxx15;CHISOI LETTER CA;Lo;0;L;;;;N;;;;
xxxx16;CHISOI LETTER JA;Lo;0;L;;;;N;;;;
xxxx17;CHISOI LETTER PA;Lo;0;L;;;;N;;;;
xxxx18;CHISOI SIGN ANUSVARA;Mn;0;NSM;;;;;N;;;;
xxxx19;CHISOI LETTER YA;Lo;0;L;;;;N;;;;
xxxx1A;CHISOI LETTER DDA;Lo;0;L;;;;N;;;;
xxxx1B;CHISOI LETTER TTA;Lo;0;L;;;;N;;;;
xxxx1C;CHISOI LETTER JARAH;Lo;0;L;;;;N;;;;
xxxx1D;CHISOI SIGN VIRAMA;Mc;9;NSM;;;;N;;;;
xxxx1E;<reserved>
xxxx1F;CHISOI DANDA;Po;0;L;;;;;N;;;;
xxxx20;CHISOI DIGIT ZERO;Nd;0;L;;0;0;0;N;;;;
xxxx21;CHISOI DIGIT ONE;Nd;0;L;;1;1;1;N;;;;
xxxx22;CHISOI DIGIT TWO;Nd;0;L;;2;2;2;N;;;;
xxxx23;CHISOI DIGIT THREE;Nd;0;L;;3;3;3;N;;;;
xxxx24;CHISOI DIGIT FOUR;Nd;0;L;;4;4;4;N;;;;
xxxx25;CHISOI DIGIT FIVE;Nd;0;L;;5;5;5;N;;;;
xxxx26;CHISOI DIGIT SIX;Nd;0;L;;6;6;6;N;;;;
xxxx27;CHISOI DIGIT SEVEN;Nd;0;L;;7;7;7;N;;;;
xxxx28;CHISOI DIGIT EIGHT;Nd;0;L;;8;8;8;N;;;;
xxxx29;CHISOI DIGIT NINE;Nd;0;L;;9;9;9;N;;;;
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7. Collations

The collation order is as follows:

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2 ك > A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك A < ك
  \epsilon DA < \epsilon LA < \epsilon O < \epsilon NYA < \epsilon NGA < \epsilon CA < \epsilon J JA < \epsilon PA < \epsilon SIGN ANUSVARA < \epsilon YA < \epsilon ADD < \epsilon TTA < \epsilon
JARAH < Q SIGN VIRAMA < | DANDA < O DIGIT ZERO < O DIGIT ONE < O DIGIT TWO < O DIGIT THREE < O
    FOUR < S DIGIT FIVE < e DIGIT SIX < P DIGIT SEVEN < U DIGIT EIGHT < ω DIGIT NINE
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8. Acknowledgement

I would like to thank Jayanta kumar Mahata, Narayan Mahata, Nurul Alom Ador, All India Kurmali Chisoi-A Society and Kurmali Chisoi-A Teachers' Associations for support on a draft of this proposal and sharing insights on various aspects of encoding Chisoi.

	xxxx0	xxxx1	xxxx2
0	N	φ	0
1	0	7	5
2	ત	0	ડ
3	N	ঠ	9
4	5	જ	x
5	2	8	S
6	اـ	25	ψ
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Е	3		
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Letters and signs

xxxx00 **c** CHISOI LETTER A

xxxx01 o CHISOI LETTER BA

xxxx02 tc CHISOI LETTER AAI

xxxx03 **r** CHISOI LETTER AA

хххх04 ч CHISOI LETTER GA

xxxx05 № CHISOI LETTER TA

xxxx06 **L** CHISOI LETTER E

xxxx07 क्ष CHISOI LETTER SA

xxxx08 M CHISOI LETTER NA

xxxx09 ℃ CHISOI LETTER I

xxxx0A ? CHISOI LETTER KA

xxxx0B & CHISOI LETTER RA

XXXXOC 4 CHISOI LETTER MA

xxxx0D **u** CHISOI LETTER HA

XXXX0E V CHISOI LETTER RRA

xxxx0F & CHISOI LETTER U

xxxx10 € CHISOI LETTER DA

xxxx11 of CHISOI LETTER LA

xxxx12 6 CHISOI LETTER O

xxxx13 & CHISOI LETTER NYA

xxxx14 **%** CHISOI LETTER NGA

xxxx15 **6** CHISOI LETTER CA

xxxx16 3 CHISOI LETTER JA

xxxx17 च CHISOI LETTER PA

xxxx18 CHISOI SIGN ANUSVARA

xxxx19 a CHISOI LETTER YA

xxxx1A v CHISOI LETTER DDA

xxxx1B **c** CHISOI LETTER TTA

xxxx1C & CHISOI LETTER JARAH

xxxx1D ् CHISOI SIGN VIRAMA

Punctuation

xxxx1F | CHISOI DANDA

Digits

xxxx20 o CHISOI DIGIT ZERO

xxxx21 ک CHISOI DIGIT ONE

xxxx22 6 CHISOI DIGIT TWO

xxxx23 و Chisoi digit three

xxxx24 & CHISOI DIGIT FOUR

xxxx25 **s** CHISOI DIGIT FIVE

xxxx26 e CHISOI DIGIT SIX

xxxx27 P CHISOI DIGIT SEVEN

xxxx28 u CHISOI DIGIT EIGHT

xxxx29 ω CHISOI DIGIT NINE

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ORG	NEW	ORG	NEW		
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υ	υ			U	U
ᢧ	ν			W	ω
ح	c				
€	3				
ଧ	ન				

Table 2: Comparison of Chisoi font 'KurmaliChisoy' drawn by Pankaj Mahato(column 'ORG') and Nurul Alam Ador and Biswajit Mandal's font 'Chisoi' (column 'NEW')

<u>CHISOI</u>	<u>DEV</u>	BEN	<u>ODIA</u>	CHISOI	<u>DEV</u>	BEN	<u>ODIA</u>
2	अ	অ	ଅ	9	ओ, ो	ও, ো	ઉ, 6∙ા
8	ब	ব	ବ	യ	স	এ	ෂී
স	आइ, ाइ	আই, াই	ଆଇ, ାଇ	\$	ङ	હ	ଙ
71	आ, ा	আ, †	ଆ,।	8	च	চ	ଚ
ч	ग	গ	ଗ	Z,	ज	জ	ଜ
þ	त	ত	ତ	이	प	প	ପ
L	ए, े	এ, ে	ଏ, 6	ំ	ំ	٧	ullet
러	स	স	ସ	리	य	য়	ଯ୍
М	न	ন	ନ	ν	ड	ড	ଡ
૪	इ, ि	ই, ি	ଇ,ି	2	ट	ট	ଟ
7	क	ক	କ	0	N/A	N/A	N/A
ຆ	र	র	ର	্	્		_
ч	म	ম	ମ				
υ	ह	হ	ହ				
υ	ड़	ড়	ଡ଼				
૮	उ, ु	উ,ু	ଉ,ୁ				
£	द	দ	ଦ				
ન	ल	ল	ଲ				

Table 3: Comparison of basic letters of Chisoi with Devanagari, Bengali and Odia. In Chisoi letter Jarah is used to make aspirated letters but it is absent in Devanagari, Bengali and Odia.

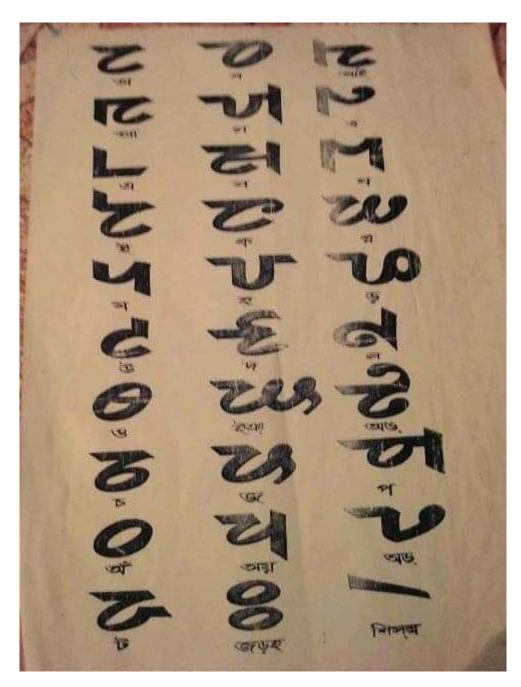


Figure 6: A chart showing letters of Chisoi with Bengali pronunciation from firstever draft of 'Kuṛmāli Cisoi Cinhāp' (1986).



5 S

Figure 7: A chart showing letters of Chisoi with Bengali pronunciation from book 'Kuṛmāli Cisoi Cinhāp' ชะเขนเละ ชะแบะ ชะกุบเรา (for class-I) (page no. 15)(2009).[1]



Figure 8: A school wall showing letters of Chisoi (2019).



Figure 9: showing chart of Chisoi drawn by a school student.

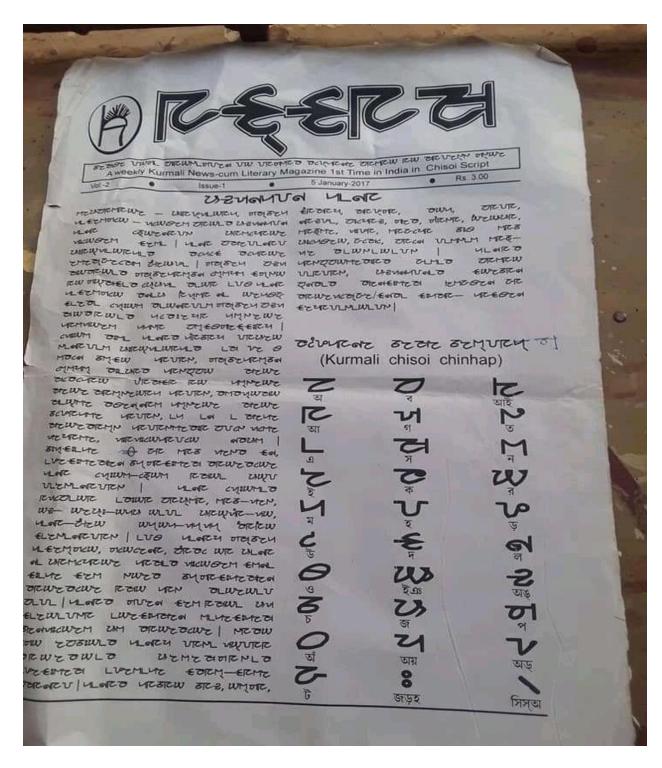


Figure 10: Showing the front page of Kurmali newspaper 'Āddās' ह्हास (2017).[10]



Figure 11: Showing the back page of Kurmali newspaper 'Āddās' **REERH** with Chisoi chart (2017).[10]

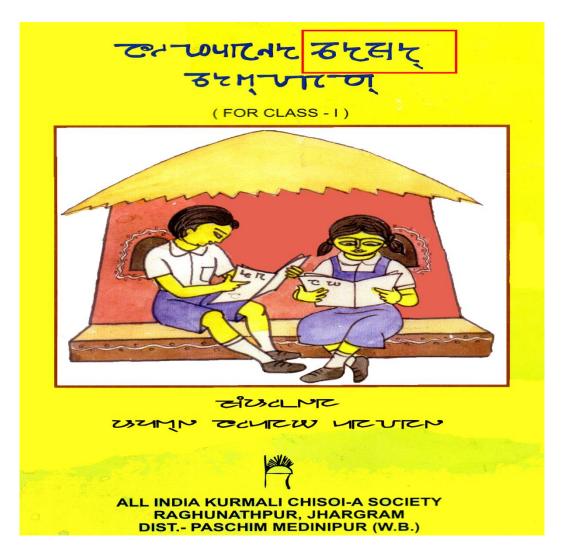


Figure 12: handwritten form of heading showing the spelling of Chisoi אביש having LETTER I with VIRAMA from the cover of Kurmali primer 'Kuṛmāli Cisoi Cinhāp' ชะบนสะ ระสะ ระทุบเซตุ (for class-I)(2009).[1]



Figure 13: Showing the banner of Kurmali Chisoi-A Teachers' Association' בששבשם באוסוד באושבע באוסיים וואסיים אוסיים באוסיים באוסיים באוסיים וואסיים באוסיים באוסיים וואסיים באוסיים באוסיים וואסיים באוסיים ב LZIOZIZULZIIZM having spacing problems between two letters.



Figure 14: Showing the keyboard layout of new 'Chisoi' font (2021).

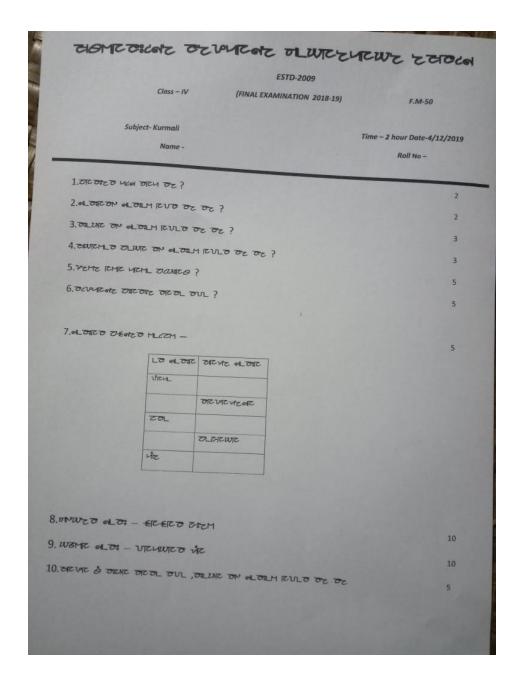


Figure 15: Showing the class 4th annual examination question paper of Kurmali subject from Sonakhuli Kurmali Primary School ESTD-2009 (2019).



Figure 16: Showing the Chisoi teaching is going on in 'Ānganwāḍi' Courtyard Shelter school.

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5-53-55-55-55	रभार जार प्	ИK



Figure 17: Showing the positioning of Jarah and Virama from book 'Kuṛmāli Cisoi Cinhāp' ਫ਼ਰਪਾਰਜ਼ਟ ਡਟਸਟ੍ਰ ชะพุทธษุ (for class-I) (page no. 14)(2009).[1]

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2183-21W	CLWUU	JOHON



Figure 18: Showing the positing of Chisoi sign Anusvara from book 'Kuṛmāli Cisoi Cinhāp' ਫਟਿਪਪਟ ਫਟਿਪਟ ਨੇ ਸ਼ਿਲ੍ਹਾ ਹੈ ਤੋਂ ਸ਼ਿਲ੍ਹ ਤੋਂ ਦੁਸ਼ਤ ਹੈ ਤੋਂ ਸ਼ਿਲ੍ਹਾ ਹੈ ਤੇ ਸ਼ਿਲ੍ਹਾ ਹੈ ਤੋਂ ਸ਼ਿਲ੍ਹ ਹੈ ਤੋਂ ਸ਼ਿਲ੍ਹਾ ਹੈ ਤੇ ਸ਼ਿਲ੍ਹਾ ਹੈ ਤੋਂ ਸ਼ਿਲ੍ਹ ਤੋਂ ਸ਼ਿਲ੍ਹਾ ਹੈ ਤੋਂ ਸ਼ਿਲ੍ਹਾ ਹੈ ਤੋਂ ਸ਼ਿਲ੍ਹਾ ਹੈ ਤੋ ชะพุบเซ-ทุ (for class-I) (page no. 13)(2009).[1]

activities sie sie sieniem (Kurmali Sarha Bhnarhar) Z [a] - OCCUPANT STEERS UPOLO ZQUIM | The first letter of the Kurmali chisoi alphabet. ZQии (abgarh)—ис. Stupid, Worthless MEUZ DOCE! ≥ [a]-≥. aLCWM! CLWIC memorisation ZQUOZVIME (abgairhna)-UC.III shaped; ugly wome o or o mevel Z[a]-ZI. ICOICO OLWIC exclamazquew (abgar)-t. harm; dissertion, -MY DEME | vice one Z [a] - WK MEUZ DIESZO nega-ਟਰਚ਼(abas)-ਅਟ. unruly; ਰਚ਼ tion. ME | OLWE MEVE ULNIC uncontroellabla コレフトモミ Z [ah]-uc.V. ves ਟਰਰਟਰ੍ (abais)–ਅਟ. certainly; בם [ah ba] - ער. סוב סוב שובישוב LOSSIM MESEN MENE DIEMME ATMINED SHOLD EINS NEDE DENIE OUT, IC. adzaw (absar)-t. leisure, respite, dressed between uncle and nephew; wowen olure | SAME DESCE SENE ट्राट (abka)—स. noisy playing or zoww (abganata)ーた known frisking in sport; マスマ でしいっ I MEMSKS DEMES DIENW MEST ICM CILML (MESNEY) EOCO YEME ULMPLM ! てマッにW (abgar)ーロ.た.harm CQVICW zqwic (abra)—□. inactive; improper sittine position; Macucare ZOUCZME (abguina)—VC. having DOIZ WUTE no qualities; अटिक प्रथम भटिएट ।

Figure 19: Showing the front page of Kurmali-English Dictonary 'Kuṛmāli Sāṛā bỗāṛār' **๕๔ษ๚ะส สเตน** สเตน ชาตามา (page no. 01)(2014).[8]



Figure 20: Showing the logo of 'Sarva Śikṣā Abhiyān' Education for All written in Chisoi from (2019).

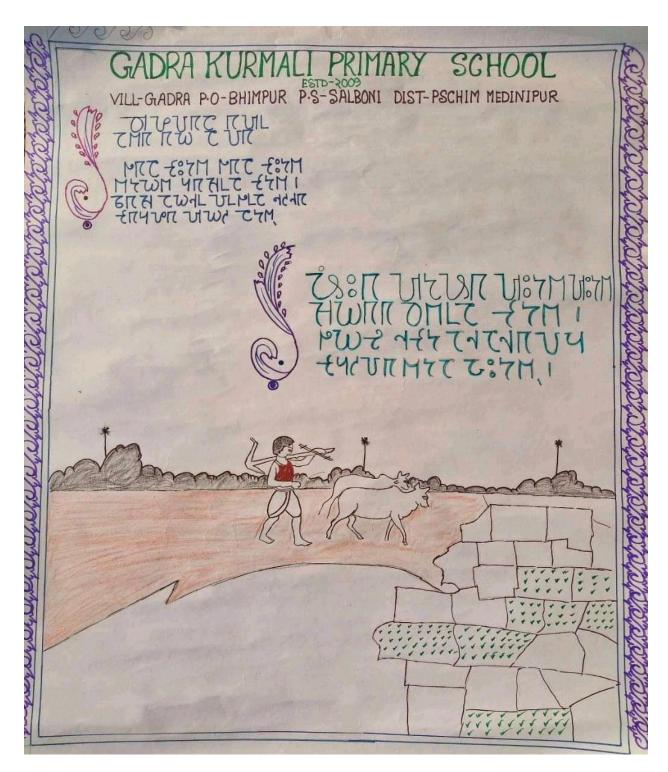


Figure 21: Showing the Kurmali poem chart drawn by a student from Gadra Kurmali primary school.





Figure 22: Showing the school banner and classroom of 'Gādrā Kuṛmāli Pəraimāri Iskul' พยงมา ฮะบบเล่ร

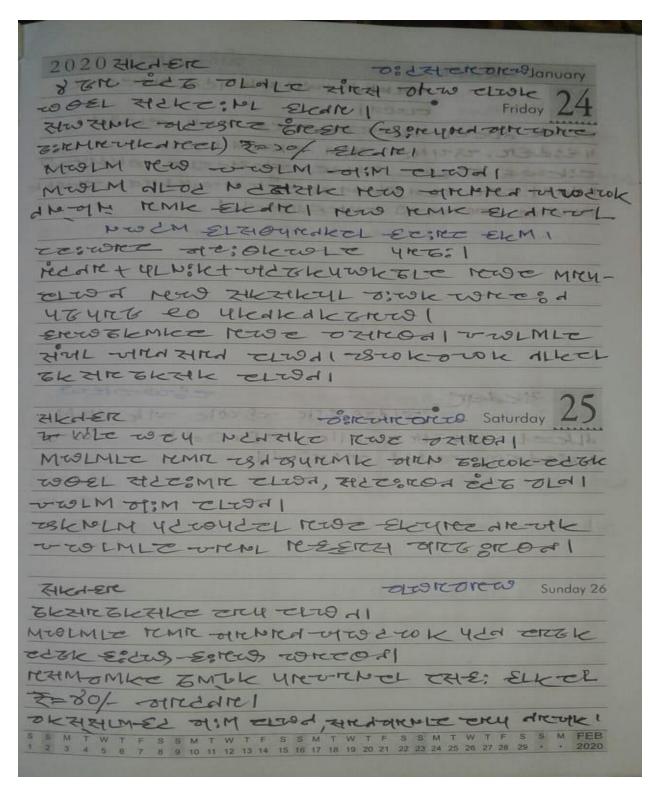


Figure 23: Showing the diary maintaining in Chisoi provided by Narayan Mahata. (2020, Jan)

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Figure 24: Showing the Chisoi punctuation mark DANDA from book 'Kuṛmāli Cisoi Cinhāp' ટરખાટનટ કટકાર્ટ્ ช่องเลรร-I, Chapter **นะช** ฮชอ 'Môkôr Pôrôb' (2009).[1]

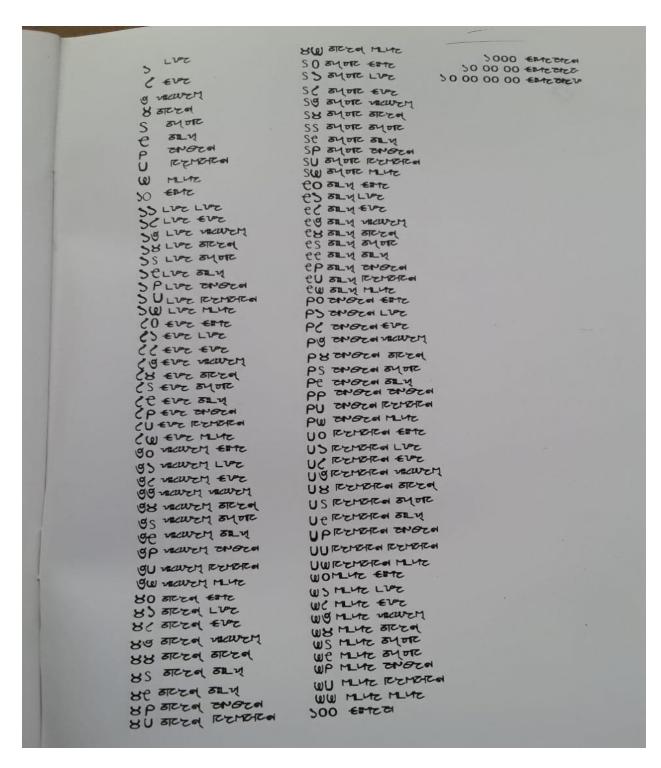


Figure 25: Showing the Chisoi digits from book 'Kurmāli Cisoi Cinhāp' ਫਾਰਪਾਰਕਟ ਫਟਸਟ੍ਰ ਫਟਸਟ੍ਰ class-I, last page (2009).[1]

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দুই বাংলার আর বাংলার বাইরের পরমবন্ধুর হদিশ

उপদেষ্টা মণ্ডলी অনুপম মিশ্র, প্রশান্ত চট্টোপাধ্যায়, জয়া মিত্র, সুখবিলাস বর্মা, জাকির হোসেন, ড. শিশির মজুমদার, সুনীল চন্দ, রুবি পালটোধুরী, নন্দিতা পালটোধুরী, হিমাংশু হালদার, রতন বসু মজুমদার, দীপদ্ধর দে, রাজা গুহ, প্রসূন ভৌমিক, অরূপশঙ্কর মৈত্র, শক্তিমান ঘোষ, সুজয় চক্রবর্তী, সৈকত ভট্টাচার্য

মধুমঙ্গল মালাকার, মঞ্জু মালাকার, সুনীল মালাকার, ডমন মুর্মু, গণেশ রবিদাস, ক্ষিরোদাবালা সরকার, ষতী পরম বন্ধরা জয়সোয়াল, আকুলবালা সরকার, কার্তিক দাস, বাতালু রায়, সাঞ্জুলাল সরকার, তপন সরকার, অশোক রায়, অঞ্জলী রায়, হৃষিকেশ রায় অবিভক্ত দিনাজপুর, নারায়ণ চন্দ্র পৈত দ ২৪ পরগণা, শীতল ফৌজদার বিষ্ণুপুর, গীতা কর্মকার, শিল্পডাঙা বিকনা বাঁকুড়া, শ্যামল মিস্ত্রী, মধু নায়েক, নারায়ণ মাহাত, যতীন মাহাত পশ্চিম মেদিনীপুর, গজেন্দ্র মালাকার, জিতেন বর্মন, নমিতা সরকার, গনাত রাভা, অনিমেষ মালাকার জলপাইগুড়ি, সন্তোষ দে জ্যোৎস্না দে দেওয়ানহাট, দেবব্রত সরকার রসিকবিল কোচবিহার, আশু বাগচী নকশালবাড়ি দার্জিলিং, বিশ্বেন্দু নন্দ, ইন্দুভূষণ নন্দ, বিশ্বেশ্বরী পঞ্চাধ্যায়ী, ড. ললিতা ঘোষ, সৌমিত্র ভট্টাচার্য, তুহিন মুখোপাধ্যায়, ড. সোমা মুখোপাধ্যায়, মুণাল গোস্বামী কলকাতা, স্থপন মিত্র, আসানসোল আশিস মালাকার বনকাপাসি বিকাশ জয়নাবাদ, দুর্গাপুর, মাণিক সূত্রধর, নতুনগ্রাম বর্ধমান, চন্দ্রশেখর ভট্টাচার্য কোনগর হুগলি, মোহন বিশ্বাস উ ২৪ প্রগণা, ধর্মেন্দ্র সূত্রধর চড়িদা, নিতাই নন্দী রঘুনাথপুর পুরুলিয়া, পার্থ পঞ্চাধ্যায়ী পূর্ব মেদিনীপুর, বড় বাস্কে বোলপুর সুনীল সরেন রবিন সরেন সিউড়ি সুবল দাস বৈরাগ্য বঙ্গনগর বীরভূম, হরিপদ বসাক ফুলিয়া নদীয়া, শ্রীনাথ টুডু বিধান টুডু মালদা, অরুণ ভাষ্কর মুর্শিদাবাদ এবিএম আনিসুজ্জামান, মো. শাহিনুর রশিদ ঢাকা চন্দন শফিকুল কবীর ইতালি সোফি রিখটার, সুজয় চক্রবর্তী জামানি

সম্পাদক বিশ্বেন্দ্র নন্দ

সম্পাদকীয় দপ্তর

২৪/১৮, নাবালিয়া পাড়া রোড বড়িযা কলকাতা ৭০০০০৮, ৯৪৭৫২১৩৭৮৮, ০৮৩৩৫০১৪৮০৮ উত্তরবঙ্গ মধুমঙ্গল মালাকার, মুস্কিপুর, বড়গ্রাম দক্ষিণ দিনাজপুর, ৭৩৩১২৮, ০৯৭৩২৩৭০৯৪৬ বাংলাদেশ জাকির হোসেন, বাড়ি নং ৮/১৪, ব্লক বি, লালমাটিয়া ঢাকা ১২০৭, ১১৫৫৮৬৮ lokfolk.blogspot.in, buybengalihandicrafts.blogspot.in, facebook.com/ ourparam, biswendu@yahoo.com

অক্ষরবিন্যাস কলাবতী মুদ্রা ।। ছাপা ইউনিক প্রিন্টাস ।। পরম মূল্য ২৫ টাকা অঙ্কন: সৌমিত্র ভট্টাচার্য, বিধান বিশ্বাস, গোপী দে সরকার, চন্দন শফিকুল কবীর নামান্ধন সৌমিত্র ভট্টাচার্য সংগঠনের জন্য যোগাযোগ বাংলাদেশ, নাগরিক উদ্যোগ, লালমাটিয়া, ঢাকা।। উত্তরবন্ধ, মধুমঙ্গল মালাকার

চতর্থ বছর ।। উনত্রিশ কল্প।। পৌষ ১৪২৪।। ৬

Figure 26: Showing the monthly magazine 'Pôrôm' written in both Kurmali and Bengali (2016).[11]

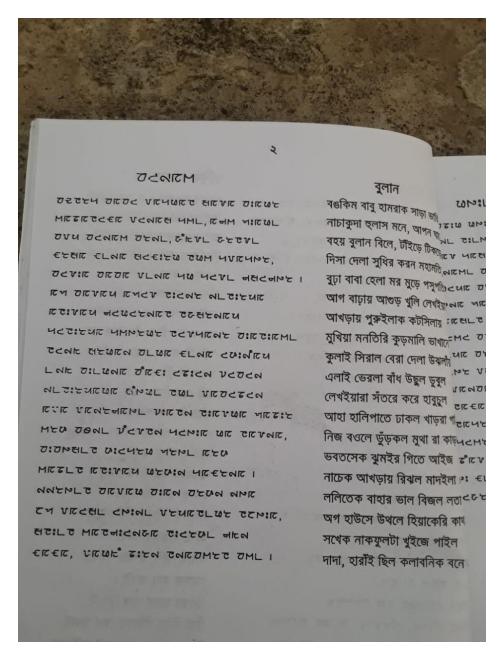


Figure 27: Showing the first poem of Kurmali book DealTH 'Bulān' written in both Chisoi and Bengali script (page no. 02)(2018).[9]

リスモイマ リスきんさ

Nでひるし にな:しで ひ:このの ひとて€€:に פוראיור מודפיו שכער, מרפות בונפוני שכעוני पट€टर पटसटर पटसरा पटणत यर मीतरथार । סבלהט סטובא עלא סבעה בלסהט, I WAIST SAME TON TAR HOND HAM PERS DEDCE MEDLE CEME ELECIL DEAL, TYRU HEL NRU HEL DRU TETAL I そしてでいい チレマでいい ひょって ひとれる भार या यास या अतिहरू । नयसार भार ए ए ECURU YEVEL DEDLE I DEGUEU C: CC VUS:L ECM CC UL CC VOLC, DN BL LEL NECL SECK HUHR EXNL LEIM EIRULT NEELL MICUK ETOLE TELW YIUL TRU AKYOLT WOL I

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Figure 28: Showing Kurmali poem 'Mudun Musun' **ฯ๘ะ๘๕ ฯ๘ะ๙๕** from book 'Kuṛmāli Cāri Disā' **๕๔ษ๚๛ ๕ ๕๛๖ £ZXIZ** (раде по. 15)(2014).[7]

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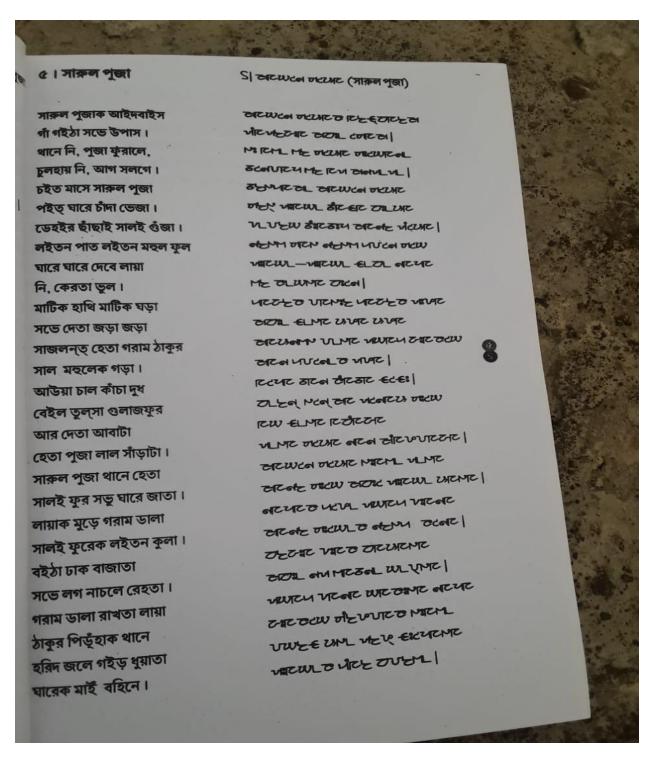


Figure 29: Showing the 5th poem 'Sārul Pujā' written in both Chisoi and Bengali scripts from book 'Cāriceṭhā' ชตพระเรา (page no. 05)(2014).[6]

A. Administrative

1. Title:

Proposal to Encode the Chisoi in Universal Character Set

2. Requester's name:

Biswajit Mandal (biswajitmandal.bm90@gmail.com)

3. Requester type (Member body/Liaison/Individual contribution):

Individual Contribution

- 4. Submission date: 29/05/2021
- 5. Requester's reference (if applicable):
- 6. Choose one of the following:

This is a complete proposal:

(or) More information will be provided later:

No

B. Technical - General

- 1. Choose one of the following:
- a. This proposal is for a new script (set of characters):

Yes

Proposed name of script:

Chisoi

b. The proposal is for addition of character(s) to an existing block:

Name of the existing block:

2. Number of characters in proposal:

3. Proposed category (select one from below - see section 2.2 of P&P document):

A-Contemporary X B.1-Specialized (small collection) B.2-Specialized (large collection)

C-Major extinct D-Attested extinct E-Minor extinct

F-Archaic Hieroglyphic or Ideographic G-Obscure or questionable usage symbols

4. Is a repertoire including character names provided?

a. If YES, are the names in accordance with the "character naming guidelines"

in Annex L of P&P document?

Yes

b. Are the character shapes attached in a legible form suitable for review?

Yes

- 5. Fonts related:
- a. Who will provide the appropriate computerized font to the Project Editor of 10646 for publishing the

Biswajit Mandal (biswajtmandal.bm90@gmail.com)

b. Identify the party granting a license for use of the font by the editors (include address, e-mail, ftp-site, etc.):

Nurul Alom Ador(nurulalomador@gmail.com) and Biswajit Mandal(biswajtmandal.bm90@gmail.com)

6. References:

a. Are references (to other character sets, dictionaries, descriptive texts etc.) provided?

Yes

b. Are published examples of use (such as samples from newspapers, magazines, or other sources) of proposed characters attached?

Yes

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)?

See proposal for additional details

8. Additional Information:

Submitters are invited to provide any additional information about Properties of the proposed Character(s)

that will assist in correct understanding of and correct linguistic processing of the proposed character(s) or script.

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.)?

If YES, with whom?

Jayanta kumar Mahata, Narayan Mahata

If YES, available relevant documents:

See citations in text of proposal

3. Information on the user community for the proposed characters (for example: size, demographics, information technology use, or publishing use) is included?

Yes

Reference:

See text of proposal

4. The context of use for the proposed characters (type of use; common or rare)

common

Reference:

See text of proposal

5. Are the proposed characters in current use by the user community?

Yes

If YES, where? Reference:

See text of proposal

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?

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? control function or similar semantics?

If YES, is a rationale for such use provided?

control function or similar semantics?

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?

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: