

ଅ	ଓ	ଌ
A	BA	AAI
ଐ	ଏ	ୌ
AA	GA	TA
ଋ	ଌ	ୠ
E	SA	NA
ଓ	ଌ	ଌ
I	KA	RA
ଏ	ୂ	ୃ
MA	HA	RRA
ଌ	ଌ	ଌ
U	DA	LA
ଌ	ଌ	ଌ
O	NYA	NGA
ଌ	ଌ	ଌ
CA	JA	PA
ଌ	ଌ	ଌ
ANUSVARA	YA	DDA
ଌ	ଌ	ଌ
TTA	JARAHA	SISO

3.2 Chisoi sign ANUSVARA<ଌ>

- The sign (ଌ) is written on the top of the vowels and consonants in question except JARAHA. It is a nasalization mark of Chisoi. It corresponds to the Candrabindu in Devanagari, Bengali and Odia. Its IPA is [̃]. For examples: ଌ[ଌ], ଌ[ଌ], ଌ[ଌ], ଌ[kଌ], ଏ[gଌ], etc. To represent the nasalized aspirated consonants, the position of sign (ଌ) will be, For examples: ଌ: [kʰଌ], ଏ: [gʰଌ], ଌ: [pʰଌ], ଌ: [tʰଌ], ଌ: [dʰଌ], etc. [see fig.18]
- In the attached specimens sign ANUSVARA shown as (ଌ), it is due to font's standard. The actual sign of ANUSVARA is (ଌ). It has similarity in glyph with 'COMBINING RING ABOVE' U+030A (ଌ), but this proposal for **separate** encoding of CHISOI SIGN ANUSVARA.

3.2.1 Position of Chisoi Sign ANUSVARA<◌ᳵ>

The position of sign (◌ᳵ) 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 (◌ᳵ) 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 JARAHA<ᳶ>

- The letter (ᳶ) JARAHA ‘Jôṛô’hô’ ଧରାହ means ‘to add’. It is used after consonants to **indicate aspirations** [ʰ].JARAHA never place in the initial position of any Kurmali words, always used after consonants. For examples: ଢ[kɔ]+ᳶ=[kʰɔ], ଏ[ɔ]+ᳶ=[ɔʰ], ଢ[tɔ]+ᳶ=[tʰɔ], ଏ[tɔ]+ᳶ=[tʰɔ], ଢ[ɔ]+ᳶ=[ɔʰ], ଢ[ɔ]+ᳶ=[ɔʰ], etc.
- In Kurmali writing system there is no use of visarga. JARAHA is the unique character which is not available in Devanagari, Bengali and Odia scripts because it used to make aspirated consonants. It has similarity in glyph with ‘BENGALI SIGN VISARGA’ U+0983 (ᳵ), but this proposal for **separate** encoding of CHISOI LETTER JARAHA.

3.3.1 Position of Chisoi letter JARAHA<ᳶ>

- To represent the nasalized aspirated consonants, the position of (ᳶ) JARAHA will be after the sign ANUSVARA, For examples: ଢ+ᳵ+ᳶ=[kʰᳵ], ଏ+ᳵ+ᳶ=[ɔʰᳵ], ଢ+ᳵ+ᳶ=[tʰᳵ], ଏ+ᳵ+ᳶ=[tʰᳵ], ଏ+ᳵ+ᳶ=[ɔʰᳵ], etc.[see fig.13][§ 3.2]
- To represent the inherent vowel less aspirated consonants, the position of (ᳶ) JARAHA will be after the SIGN SISO, For examples: ଢ+ᳶ=[kʰ], ଏ+ᳶ=[ɔʰ], ଢ+ᳶ=[tʰ], ଏ+ᳶ=[tʰ], ଏ+ᳶ=[ɔʰ], etc. [see fig.13][see fig.][§ 3.4]

3.4 Chisoi Sign SISO<◌᳷>

- The sign (◌᳷) ‘Sis’ô’ ଶିଷଠ is written in the beneath of the letters in question. Chisoi has no regular system of conjuncts, SISO functions as like to mute the inherent vowel either [ɔ] or [ə] of the consonants. For examples: ଢ[kɔ]+᳷=[k], ଏ[ɔ]+᳷=[g], ଢ[pɔ]+᳷=[p], ଢ[ɪɔ]+᳷=[ɪ], etc.
- To represent the inherent vowel less aspirated consonants, the position of sign (◌᳷) will be, For examples: ଢ+ᳶ+᳷=[kʰ], ଏ+ᳶ+᳷=[ɔʰ], ଢ+ᳶ+᳷=[tʰ], ଏ+ᳶ+᳷=[tʰ], ଏ+ᳶ+᳷=[ɔʰ], etc.[see fig.12]And there is no single letter in Chisoi orthography which is containing both **SISO** and **anusvara** together like ଢ, ଏ, etc.

3.4.1 Other uses of Chisoi Sign SISO <◌᳷>

- **Glottalizational mark:** If the last consonant letter of any word carries SISO <◌̚>, it reflects glottal stop phoneme. For examples: ଝମ୍ଭୁ [ɟnhɔɽʔ] ‘inexpert’, ଝମ୍ଭ [ɟgmʔ] ‘not moving’, ଝମ୍ଭୁ[ɟbɔɟʔ] ‘dirty’, etc.

If any word ended with letter LETTER A <ଌ> and its left sided letter contains SISO <◌̚>, then that letter will carry glottal stop phoneme. For example: ଝଟ୍ଟ [sisʔɔ] ‘stop’, etc.[see fig.17,12]

< C_{onsonant} + ◌̚ + ଌ >

- If LETTER I <ଈ> carries SISO <◌̚> in a word, then left sided letter of <ଈ> will pronounce with inherent phoneme [ɔ] or [ə]. For examples: ଝଟ୍ଟଠ [aɔɪɪɪ] ‘Eight’, ଝଝଝ [ɟʒɔidʰa] ‘warrior’ and ଝଟ୍ଟି [ʧisɔi] ‘Chisoi’ [see fig.12].

< C_{onsonant}/V_{owel} + ଌ + ◌̚ + C_{onsonant}/V_{owel} >

3.5 Chisoi letter AAI<ଐ>

It is a diphthong vowel letter with combination of LETTER AA and LETTER I. Its glyph is a combination of two letters ଝ+ଈ=ଐ. Its IPA is [ai]. To represent this sound we use आइ (in Devanagari), আই (in Bengali) and ଐ (in Odia). For examples: ଝମି [aina:] ଆଇନା/ଆଇନା/ଆଇନା, ‘Mirror’ and ଝମି [āisa:] ଆଇସା/ଆଇସା/ଆଇସା, ‘name of a month’, etc.

3.6 Chisoi letter RRA<ଋ>

It is the voiced retroflex flap ɽ[ɽ] of Chisoi. To represent this sound we use ढ (in Devanagari), ড় (in Bengali) and ଢ (in Odia). For examples: ଝଭୁ [ɟbgɔɽ] ଅଭାଢ଼/ଅଭଗଢ଼/ଅଭଗଢ଼, ‘Stupid’, ଝଭୁ-ଝଭୁ [ɟgɔɽ-bɔgɔɽ] ଅଗଢ଼-ଭଗଢ଼/ଅଗଢ଼-ଭଗଢ଼/ଅଗଢ଼-ଭଗଢ଼, ‘Meaningless’, ଝକୃମାଲି [kuɽma:li] କୁଢ଼ମାଲି/କୁଢ଼ମାଲି/କୁଢ଼ମାଲି, etc.

3.7 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 [see fig.10, 25].

3.8 Punctuation

Chisoi uses *danda* <|> and *double danda* <||> at the end of the sentence. *double danda* <||> was not included in previous proposal L2/21-183 [24]. Many Indic scripts use the *danda* U+0964 and *double danda* U+0965 from the Devanagari block. Since Bengali uses *danda* and *double danda* from the Devanagari block via script extensions and therefore keyboard layouts in the area share the same character, it is proposed to extend the same *danda* and *double danda* usage to the Chisoi script as well, to avoid confusion and additional complexity for users.

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 ‘Chisoi’ ଝଟ୍ଟି ‘Written’ or ‘Drawn’. The name Chisoi first time found in the literature of Kurmali ‘*Kurṃālī Cisoī Cinhāp*’ in 1994. Proposed character names for this proposal are given below [see table no.1].

A	B	C	D	A	B	C	D	A	B	C	D
ꣳ	A	ô	[ɔ]	ꣳ	KA	kô	[kɔ]	ꣳ	NGA	ôñ	[ŋɔ]
ꣴ	BA	bô	[bɔ]	ꣴ	RA	rô	[rɔ]	ꣴ	CA	cô	[tʃɔ]
ꣵ	AAI	ā'i	[ai]	ꣵ	MA	mô	[mɔ]	ꣵ	JA	jô	[dʒɔ]
ꣶ	AA	ā	[a]	ꣶ	HA	hô	[hɔ]	ꣶ	PA	pô	[pɔ]
ꣷ	GA	gô	[gɔ]	ꣷ	RRA	rô	[rɔ]	ꣷ	ANUSVARA	õ	[~]
꣸	TA	tô	[tɔ]	꣸	U	u	[u]	꣸	YA	ôy	[jɔ]
꣹	E	e	[e]	꣹	DA	dô	[dɔ]	꣹	DDA	ô'd	[dɔ]
꣺	SA	sô	[sɔ]	꣺	LA	lô	[lɔ]	꣺	TTA	tô	[tɔ]
ꣻ	NA	nô	[nɔ]	ꣻ	O	o	[o]	ꣻ	JARAHA	jôrô'hô	[h]
꣼	I	i	[i]	꣼	NYA	'iñ	[ŋɔ]	꣼	SISO	sis'ô	

Table 1: column A is showing letters and signs, column B is showing proposed character names, column C is showing native 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 "BISWA_CHISOI" for the proposed was drawn by Biswajit Mandal in the year 2021. 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 "BISWA_CHISOI" font used here because original font having lots of imperfections ,that islack of standard qualities in glyphs, problems in positioning of signs, non collinearity in letters and kerning problems in letters. The comparison table no. 1 includes Pankaj Mahato's original font "KURMALICHISOY" and new "BISWA_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.

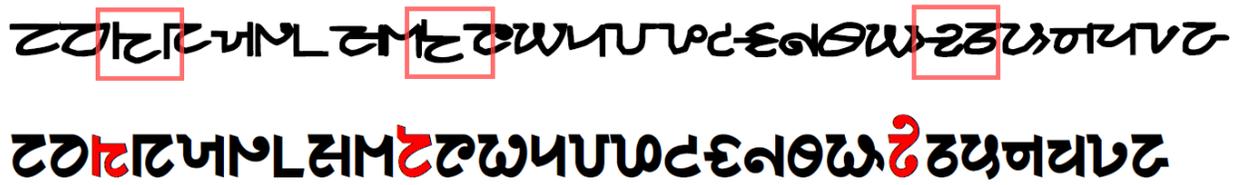


Figure 4: Comparison between original font (first line) and new font (bottom line). Old font is showing the wrong position and size of letter AAI, I and NGA but the new font showing the perfectness.

5.2 Kerning issues between two letters

We are having the proper kerning 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 look like a conjunction.[see fig.13]



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

6. Tentative Characters Properties

- 16D80;CHISOI LETTER A;Lo;0;L; ; ; ; ;N; ; ; ; ;
- 16D81;CHISOI LETTER BA;Lo;0;L; ; ; ; ;N; ; ; ; ;
- 16D82;CHISOI LETTER AI;Lo;0;L; ; ; ; ;N; ; ; ; ;
- 16D83;CHISOI LETTER AA;Lo;0;L; ; ; ; ;N; ; ; ; ;
- 16D84;CHISOI LETTER GA;Lo;0;L; ; ; ; ;N; ; ; ; ;
- 16D85;CHISOI LETTER TA;Lo;0;L; ; ; ; ;N; ; ; ; ;
- 16D86;CHISOI LETTER E;Lo;0;L; ; ; ; ;N; ; ; ; ;
- 16D87;CHISOI LETTER SA;Lo;0;L; ; ; ; ;N; ; ; ; ;
- 16D88;CHISOI LETTER NA;Lo;0;L; ; ; ; ;N; ; ; ; ;
- 16D89;CHISOI LETTER I;Lo;0;L; ; ; ; ;N; ; ; ; ;
- 16D8A;CHISOI LETTER KA;Lo;0;L; ; ; ; ;N; ; ; ; ;
- 16D8B;CHISOI LETTER RA;Lo;0;L; ; ; ; ;N; ; ; ; ;
- 16D8C;CHISOI LETTER MA;Lo;0;L; ; ; ; ;N; ; ; ; ;
- 16D8D;CHISOI LETTER HA;Lo;0;L; ; ; ; ;N; ; ; ; ;
- 16D8E;CHISOI LETTER RRA;Lo;0;L; ; ; ; ;N; ; ; ; ;
- 16D8F;CHISOI LETTER U;Lo;0;L; ; ; ; ;N; ; ; ; ;
- 16D90;CHISOI LETTER DA;Lo;0;L; ; ; ; ;N; ; ; ; ;
- 16D91;CHISOI LETTER LA;Lo;0;L; ; ; ; ;N; ; ; ; ;
- 16D92;CHISOI LETTER O;Lo;0;L; ; ; ; ;N; ; ; ; ;
- 16D93;CHISOI LETTER NYA;Lo;0;L; ; ; ; ;N; ; ; ; ;
- 16D94;CHISOI LETTER NGA;Lo;0;L; ; ; ; ;N; ; ; ; ;
- 16D95;CHISOI LETTER CA;Lo;0;L; ; ; ; ;N; ; ; ; ;
- 16D96;CHISOI LETTER JA;Lo;0;L; ; ; ; ;N; ; ; ; ;
- 16D97;CHISOI LETTER PA;Lo;0;L; ; ; ; ;N; ; ; ; ;
- 16D98;CHISOI SIGN ANUSVARA;Mn;0;NSM; ; ; ; ;N; ; ; ; ;
- 16D99;CHISOI LETTER YA;Lo;0;L; ; ; ; ;N; ; ; ; ;
- 16D9A;CHISOI LETTER DDA;Lo;0;L; ; ; ; ;N; ; ; ; ;
- 16D9B;CHISOI LETTER TTA;Lo;0;L; ; ; ; ;N; ; ; ; ;
- 16D9C;CHISOI LETTER JARAHA;Lo;0;L; ; ; ; ;N; ; ; ; ;
- 16D9D;CHISOI SIGN SISO;Mn;9;NSM; ; ; ; ;N; ; ; ; ;
- 16DA0;CHISOI DIGIT ZERO;Nd;0;L; ; 0;0;N; ; ; ; ;
- 16DA1;CHISOI DIGIT ONE;Nd;0;L; ; 1;1;N; ; ; ; ;
- 16DA2;CHISOI DIGIT TWO;Nd;0;L; ; 2;2;N; ; ; ; ;
- 16DA3;CHISOI DIGIT THREE;Nd;0;L; ; 3;3;N; ; ; ; ;
- 16DA4;CHISOI DIGIT FOUR;Nd;0;L; ; 4;4;N; ; ; ; ;
- 16DA5;CHISOI DIGIT FIVE;Nd;0;L; ; 5;5;N; ; ; ; ;
- 16DA6;CHISOI DIGIT SIX;Nd;0;L; ; 6;6;N; ; ; ; ;
- 16DA7;CHISOI DIGIT SEVEN;Nd;0;L; ; 7;7;N; ; ; ; ;

16DA8;CHISOI DIGIT EIGHT;Nd;0;L;;8;8;8;N;;;;;
16DA9;CHISOI DIGIT NINE;Nd;0;L;;9;9;9;N;;;;;

6.1 Linebreak.txt

16D80..16D97;AL # Lo [25] CHISOI LETTER A..CHISOI LETTER PA
16D98 ;CM # Mn [01] CHISOI SIGN ANUSVARA
16D99..16D9C;AL # Lo [04] CHISOI LETTER YA..CHISOI LETTER JARAHA
16D9D ;CM # Mn [01] CHISOI SIGN SISO
16DA0..16DA9;NU # Nd [09] CHISOI DIGIT ZERO..CHISOI DIGIT NINE

6.2 ScriptExtensions.txt

```
# =====  
  
# Script_Extensions=Beng Deva Dogr Gong Gonm Gran Gujr Guru Knda Mahj Mlym Nand Orya Sind Sinh Sylo Takr  
Taml Telu Tirh Chis  
  
0964 ; Beng Deva Dogr Gong Gonm Gran Gujr Guru Knda Mahj Mlym Nand Orya Sind Sinh Sylo Takr  
Taml Telu Tirh Chis # Po DEVANGARI DANDA  
  
# Total code points: 1  
  
# =====  
  
# Script_Extensions=Beng Deva Dogr Gong Gonm Gran Gujr Guru Knda Limb Mahj Mlym Nand Orya Sind Sinh Sylo  
Takr Taml Telu Tirh Chis  
  
0965 ; Beng Deva Dogr Gong Gonm Gran Gujr Guru Knda Limb Mahj Mlym Nand Orya Sind Sinh Sylo  
Takr Taml Telu Tirh Chis # Po DEVANGARI DOUBLE DANDA  
  
# Total code points: 1
```

6.3 Script_Metadata

Script Name	Chisoi
Size	40
Origin Country	India
Density	1
Likely language	Kurmali
Lang_Code	kyw
ID Usage	Exclusion
RTL	No
LB letters	No
Shaping required	Min
IME	No
Case	No

7. Collations

The collation order is as follows:

ꣳ A < ꣴ BA < ꣵ AAI < ꣶ AA < ꣷ GA < ꣸ TA < ꣹ L E < ꣺ SA < ꣻ NA < ꣼ I < ꣽ KA < ꣾ RA < ꣿ MA < ꤀ HA < ꤁ RRA < ꤂ U < ꤃ DA < ꤄ LA
< ꤅ O < ꤆ NYA < ꤇ NGA < ꤈ CA < ꤉ JA < ꤊ PA < ꤋ SIGN ANUSVARA < ꤌ YA < ꤍ DDA < ꤎ TTA < ꤏ JARAHA < ꤐ SIGN SISO < ꤑ DIGIT
ZERO < ꤒ DIGIT ONE < ꤓ DIGIT TWO < ꤔ DIGIT THREE < ꤕ DIGIT FOUR < ꤖ DIGIT FIVE < ꤗ DIGIT SIX < ꤘ DIGIT SEVEN < ꤙ DIGIT EIGHT
< ꤚ DIGIT NINE

8. 'Confusable' characters

Below is a list of Chisoi characters that are 'confusable' with those encoded in other scripts blocks:

L	CHISOI LETTER E	;	L	004C	LATIN CAPITAL LETTER L
M	CHISOI LETTER NA	;	M	004D	LATIN CAPITAL LETTER M
Ң	CHISOI LETTER MA	;	Ң	0427	CYRILLIC CAPITAL LETTER CHE
Ө	CHISOI LETTER O	;	Ө	0472	CYRILLIC CAPITAL LETTER FITA
ঐ	CHISOI LETTER DDA	;	ঐ	09A2	BENGALI LETTER DDHA
ঃ	CHISOI JARAH	;	ঃ	0983	BENGALI SIGN VISARGA
ঌ	CHISOI SIGN SISO	;	ঌ	09CD	BENGALI SIGN VIRAMA
০	CHISOI DIGIT ZERO	;	০	0030	DIGIT ZERO
১	CHISOI DIGIT ONE	;	১	09E7	BENGALI DIGIT ONE
৩	CHISOI DIGIT THREE	;	৩	09E9	BENGALI DIGIT THREE
৫	CHISOI DIGIT SIX	;	৫	0065	LATIN SMALL LETTER E
৭	CHISOI DIGIT SEVEN	;	ρ	03C1	GREEK SMALL LETTER RHO
৮	CHISOI DIGIT EIGHT	;	U	0055	LATIN CAPITAL LETTER U
৯	CHISOI DIGIT NINE	;	ω	03C9	GREEK SMALL LETTER OMEGA

9. Acknowledgement

I would like to thank Jayanta kumar Mahata, Narayan Mahata, Dr. Deborah Anderson, Nurul Alom Ador, Susanta Mahata, 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.

16D80

CHISOI

16DAF

	16D8	16D9	16DA
0	ᄀ 16D80	ᄁ 16D90	ᄂ 16DA0
1	ᄃ 16D81	ᄄ 16D91	ᄅ 16DA1
2	ᄆ 16D82	ᄇ 16D92	ᄈ 16DA2
3	ᄉ 16D83	ᄊ 16D93	ᄋ 16DA3
4	ᄌ 16D84	ᄍ 16D94	ᄎ 16DA4
5	ᄏ 16D85	ᄐ 16D95	ᄑ 16DA5
6	ᄒ 16D86	ᄓ 16D96	ᄔ 16DA6
7	ᄕ 16D87	ᄖ 16D97	ᄗ 16DA7
8	ᄘ 16D88	ᄙ 16D98	ᄚ 16DA8
9	ᄛ 16D89	ᄜ 16D99	ᄝ 16DA9
A	ᄞ 16D8A	ᄟ 16D9A	
B	ᄠ 16D8B	ᄡ 16D9B	
C	ᄣ 16D8C	ᄤ 16D9C	
D	ᄥ 16D8D	ᄦ 16D9D	
E	ᄧ 16D8E		
F	ᄨ 16D8F		

Letters and signs

16D80	Ꞑ	CHISOI LETTER A
16D81	ꞑ	CHISOI LETTER BA
16D82	Ꞓ	CHISOI LETTER AAI
16D83	ꞓ	CHISOI LETTER AA
16D84	ꞔ	CHISOI LETTER GA
16D85	ꞕ	CHISOI LETTER TA
16D86	Ꞗ	CHISOI LETTER E
16D87	ꞗ	CHISOI LETTER SA
16D88	Ꞙ	CHISOI LETTER NA
16D89	ꞙ	CHISOI LETTER I
16D8A	Ꞛ	CHISOI LETTER KA
16D8B	ꞛ	CHISOI LETTER RA
16D8C	Ꞝ	CHISOI LETTER MA
16D8D	ꞝ	CHISOI LETTER HA
16D8E	Ꞟ	CHISOI LETTER RRA
16D8F	ꞟ	CHISOI LETTER U
16D90	Ꞡ	CHISOI LETTER DA
16D91	ꞡ	CHISOI LETTER LA
16D92	Ꞣ	CHISOI LETTER O
16D93	ꞣ	CHISOI LETTER NYA
16D94	Ꞥ	CHISOI LETTER NGA
16D95	ꞥ	CHISOI LETTER CA
16D96	Ꞧ	CHISOI LETTER JA
16D97	ꞧ	CHISOI LETTER PA
16D98	Ꞩ	CHISOI SIGN ANUSVARA
16D99	ꞩ	CHISOI LETTER YA
16D9A	Ɦ	CHISOI LETTER DDA
16D9B	Ɜ	CHISOI LETTER TTA
16D9C	Ɡ	CHISOI LETTER JARAHA
16D9D	Ɬ	CHISOI SIGN SISO
		• a consonant vowel-killer

Digits

16DA0	Ɪ	CHISOI DIGIT ZERO
16DA1	ꞯ	CHISOI DIGIT ONE
16DA2	Ʞ	CHISOI DIGIT TWO
16DA3	Ʇ	CHISOI DIGIT THREE
16DA4	Ʝ	CHISOI DIGIT FOUR
16DA5	Ꭓ	CHISOI DIGIT FIVE
16DA6	Ꞵ	CHISOI DIGIT SIX
16DA7	ꞵ	CHISOI DIGIT SEVEN
16DA8	Ꞷ	CHISOI DIGIT EIGHT
16DA9	ꞷ	CHISOI DIGIT NINE

References

- [1]. Mahata, Jayanta kumar.2009. All India Kurmali Chisoi-A Society. '*Kuṛmāli Cisoī Cinhāp*' ଚଢ଼ାମାଳିନି ଚଢ଼ାମାଳିନି (for class-I) . All India Kurmali Chisoi-A Society.
- [2]. Mahata, Narayan.2009. '*Kuṛmāli Cisoī Cinhāp Dôṛi Khāṛā*' ଚଢ଼ାମାଳିନି ଚଢ଼ାମାଳିନି (for class-II). All India Kurmali Chisoi-A Society. XYZ printers.
- [3]. Mahata, Narayan.2022. '*Kuṛmāli Sārā Bāhār*' ଚଢ଼ାମାଳିନି ଚଢ଼ାମାଳିନି (for class-III). All India Kurmali Chisoi-A Society.
- [4]. Mahata, Jayanta Kumar.2022. '*Kuṛmāli Sārā Bāhār*' ଚଢ଼ାମାଳିନି ଚଢ଼ାମାଳିନି (for class-IV). All India Kurmali Chisoi-A Society.
- [5]. Mahata, Narayan ମଢ଼ାମାଳିନି ଚଢ଼ାମାଳିନି . 2007.'*Kuṛmāli Sārā Bāhār*' ଚଢ଼ାମାଳିନି ଚଢ଼ାମାଳିନି (for class-V). All India Kurmali Chisoi-A Society.
- [6]. Mahata, Narayan ମଢ଼ାମାଳିନି ଚଢ଼ାମାଳିନି . 2014, Feb 21. '*Cāriceṭhā*' ଚଢ଼ାମାଳିନି ଚଢ଼ାମାଳିନି . All India Kurmali Chisoi-A Society.
- [7]. Mahata, Mangal ଚଢ଼ାମାଳିନି ଚଢ଼ାମାଳିନି . 2016, May 08. '*Kuṛmāli Cāri Disā*' ଚଢ଼ାମାଳିନି ଚଢ଼ାମାଳିନି , Chisoi chari Foundation. XYZ Printing Works.
- [8]. Mahata, Narayan ମଢ଼ାମାଳିନି ଚଢ଼ାମାଳିନି . 2014.'*Kuṛmāli Sārā bhōṛār*' ଚଢ଼ାମାଳିନି ଚଢ଼ାମାଳିନି .All India Kurmali Chisoi-A Society.
- [9]. Mahata, Maniklal ଚଢ଼ାମାଳିନି ଚଢ଼ାମାଳିନି .2018.'*Bulān*' ଚଢ଼ାମାଳିନି
- [10]. Mahata, Narayan ମଢ଼ାମାଳିନି ଚଢ଼ାମାଳିନି from 357/1/12. 2016, Dec 01. '*Āddās*' ଚଢ଼ାମାଳିନି . XYZ Printing Works,
- [11]. Mahata, Narayan ମଢ଼ାମାଳିନି ଚଢ଼ାମାଳିନି ISSN 2395-7370, 2017. '*Pôrom*' ଚଢ଼ାମାଳିନି
- [12].Mahata, Mangal ଚଢ଼ାମାଳିନି ଚଢ଼ାମାଳିନି . 2017. '*Kuṛmāli Ô-Bô-Āi Suluk Pūthi*' ଚଢ଼ାମାଳିନି ଚଢ଼ାମାଳିନି , XYZ printing Works, Raghunathpur, Jhargram.
- [13]. Mahata, Ujjwal. Feb 21, 2021.'*Gidôrūenke Kuṛmāli Cisoī*' ଚଢ଼ାମାଳିନି ଚଢ଼ାମାଳିନି , Chisoi chari Foundation, Maa Shakuntala Digital, Jhargram, West Bengal.
- [14]. Chisoi, Endangered Alphabets. <https://www.endangeredalphabets.com/2021/09/01/designing-new-scripts-chisoi/>
- [15]. Mandal, Biswajit. L2/21-183 'Proposal to Encode Chisoi in the Universal Character Set'. <https://www.unicode.org/L2/L2021/21183-chisoi.pdf>
- [16]. Anderson, Deborah. L2/21-174 'Recommendations to UTC #169 October 2021 on Script Proposals'. <https://www.unicode.org/L2/L2021/21174-script-adhoc-rept.pdf>
- [17]. Panchpargania, Ethnologue. <https://www.ethnologue.com/language/TDB>
- [18].ChisoiKurmali, Google Playstore. <https://play.google.com/store/apps/details?id=com.study.chisoikurmali>
<https://chisoikurmali.com/chisoiRegistrationform.php>
- [19]. Mandal, Biswajit. L2/22-218R 'Proposal to Encode Chisoi in the Universal Character Set'. <https://www.unicode.org/L2/L2022/2218r-chisoi.pdf>
- [20]. Anderson, Deborah. L2/22-248 'Recommendations to UTC #173 November 2022 on Script Proposals'. <https://www.unicode.org/L2/L2022/22248-script-adhoc-rept.pdf>

ORG	NEW	ORG	NEW		
୧	୧	୧	୧		
୨	୨	୨	୨		
୩	୩	୩	୩		
୪	୪	୪	୪		
୫	୫	୫	୫		
୬	୬	୬	୬		
୭	୭	୭	୭		
୮	୮	୮	୮		
୯	୯	୯	୯		
୧୦	୧୦	୧୦	୧୦		
୧୧	୧୧	୧୧	୧୧		
୧୨	୧୨	୧୨	୧୨		
୧୩	୧୩	୧୩	୧୩		
୧୪	୧୪	୧୪	୧୪		
୧୫	୧୫	୧୫	୧୫		
୧୬	୧୬	୧୬	୧୬		
୧୭	୧୭	୧୭	୧୭		
୧୮	୧୮	୧୮	୧୮		
୧୯	୧୯	୧୯	୧୯		
୨୦	୨୦	୨୦	୨୦		
୨୧	୨୧	୨୧	୨୧		
୨୨	୨୨	୨୨	୨୨		
୨୩	୨୩	୨୩	୨୩		
୨୪	୨୪	୨୪	୨୪		
୨୫	୨୫	୨୫	୨୫		
୨୬	୨୬	୨୬	୨୬		
୨୭	୨୭	୨୭	୨୭		
୨୮	୨୮	୨୮	୨୮		
୨୯	୨୯	୨୯	୨୯		
୩୦	୩୦	୩୦	୩୦		
୩୧	୩୧	୩୧	୩୧		
୩୨	୩୨	୩୨	୩୨		
୩୩	୩୩	୩୩	୩୩		
୩୪	୩୪	୩୪	୩୪		
୩୫	୩୫	୩୫	୩୫		
୩୬	୩୬	୩୬	୩୬		
୩୭	୩୭	୩୭	୩୭		
୩୮	୩୮	୩୮	୩୮		
୩୯	୩୯	୩୯	୩୯		
୪୦	୪୦	୪୦	୪୦		
୪୧	୪୧	୪୧	୪୧		
୪୨	୪୨	୪୨	୪୨		
୪୩	୪୩	୪୩	୪୩		
୪୪	୪୪	୪୪	୪୪		
୪୫	୪୫	୪୫	୪୫		
୪୬	୪୬	୪୬	୪୬		
୪୭	୪୭	୪୭	୪୭		
୪୮	୪୮	୪୮	୪୮		
୪୯	୪୯	୪୯	୪୯		
୫୦	୫୦	୫୦	୫୦		
୫୧	୫୧	୫୧	୫୧		
୫୨	୫୨	୫୨	୫୨		
୫୩	୫୩	୫୩	୫୩		
୫୪	୫୪	୫୪	୫୪		
୫୫	୫୫	୫୫	୫୫		
୫୬	୫୬	୫୬	୫୬		
୫୭	୫୭	୫୭	୫୭		
୫୮	୫୮	୫୮	୫୮		
୫୯	୫୯	୫୯	୫୯		
୬୦	୬୦	୬୦	୬୦		
୬୧	୬୧	୬୧	୬୧		
୬୨	୬୨	୬୨	୬୨		
୬୩	୬୩	୬୩	୬୩		
୬୪	୬୪	୬୪	୬୪		
୬୫	୬୫	୬୫	୬୫		
୬୬	୬୬	୬୬	୬୬		
୬୭	୬୭	୬୭	୬୭		
୬୮	୬୮	୬୮	୬୮		
୬୯	୬୯	୬୯	୬୯		
୭୦	୭୦	୭୦	୭୦		
୭୧	୭୧	୭୧	୭୧		
୭୨	୭୨	୭୨	୭୨		
୭୩	୭୩	୭୩	୭୩		
୭୪	୭୪	୭୪	୭୪		
୭୫	୭୫	୭୫	୭୫		
୭୬	୭୬	୭୬	୭୬		
୭୭	୭୭	୭୭	୭୭		
୭୮	୭୮	୭୮	୭୮		
୭୯	୭୯	୭୯	୭୯		
୮୦	୮୦	୮୦	୮୦		
୮୧	୮୧	୮୧	୮୧		
୮୨	୮୨	୮୨	୮୨		
୮୩	୮୩	୮୩	୮୩		
୮୪	୮୪	୮୪	୮୪		
୮୫	୮୫	୮୫	୮୫		
୮୬	୮୬	୮୬	୮୬		
୮୭	୮୭	୮୭	୮୭		
୮୮	୮୮	୮୮	୮୮		
୮୯	୮୯	୮୯	୮୯		
୯୦	୯୦	୯୦	୯୦		
୯୧	୯୧	୯୧	୯୧		
୯୨	୯୨	୯୨	୯୨		
୯୩	୯୩	୯୩	୯୩		
୯୪	୯୪	୯୪	୯୪		
୯୫	୯୫	୯୫	୯୫		
୯୬	୯୬	୯୬	୯୬		
୯୭	୯୭	୯୭	୯୭		
୯୮	୯୮	୯୮	୯୮		
୯୯	୯୯	୯୯	୯୯		
୧୦୦	୧୦୦	୧୦୦	୧୦୦		

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>	<u>BEN</u>	<u>ODIA</u>	<u>CHISOI</u>	<u>DEV</u>	<u>BEN</u>	<u>ODIA</u>
ଟ	अ	অ	ଅ	ଝ	ज	জ	ଜ
ଠ	ब	ব	ବ	ଞ	प	প	ପ
।	आइ, ाइ	আই, াই	ଆଇ, ାଇ	ଞ̇	ँ	ঁ	ঁ
।	आ, ा	আ, া	ଆ, ା	ଝ	य	য়	ୟ
।	ग	গ	ଗ	ଞ	ड	ড	ଡ
।	त	ত	ତ	ଟ	ट	ট	ଟ
L	ए, ऐ	এ, ऐ	ଏ, େ	ଃ	N/A	N/A	N/A
।	स	স	ସ	ଞ̇	्	্	্
M	न	ন	ନ				
।	इ, ि	ই, ি	ଇ, ି				
।	क	ক	କ	ଠ	०	०	୦
।	र	র	ର	ଠ	१	१	୧
।	म	ম	ମ	ଠ	२	२	୨
।	ह	হ	ହ	ଠ	३	३	୩
।	ड	ড	ଡ	ଠ	४	४	୪
।	उ, ु	উ, ু	ଉ, ୁ	ଠ	५	५	୫
।	द	দ	ଦ	ଠ	६	६	୬
।	ल	ল	ଲ	ଠ	७	७	୭
।	ओ, ो	ও, ো	ଓ, ୋ	ଠ	८	८	୮
।	अ	ঐ	ଐ	ଠ	९	९	୯
।	इ	ঊ	ଊ				
।	च	চ	ଚ				

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

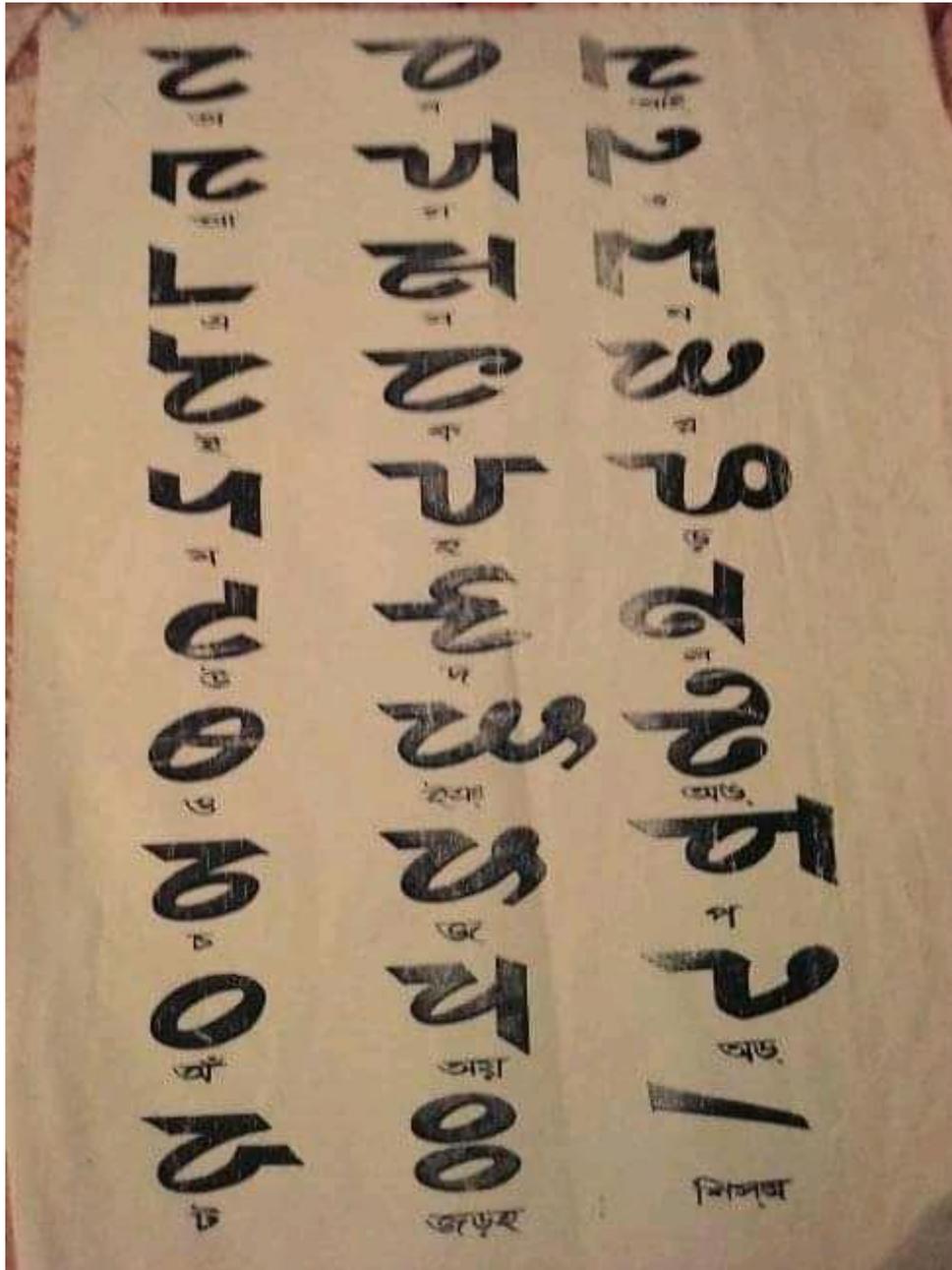


Figure 6: A chart showing letters of Chisoi with Bengali pronunciation from first ever draft of 'Kuṛmāli Cisoī Cinhāp' (1986).

ন আ A	ব B	ক I
র আ AA	খ গ G'	খ ত TA'
ল এ A	ঘ স s	ম ন N
ন E	ভ ক K	ঝ র R
ই ম M	ফ হ H	ড RH
য M	ব D	ণ L
উ U	দ D	ল L
ও O	ইঞ IN	ঙ NG
ঙ CH	জ J	অঙ P
চ CH	জ J	প P
o on	য Ay	ড D
অঁ T	ঃ HH	অড A"
ট T	জড়হ HH	শিস্অ A"

১১

Figure 7: A chart showing letters of Chisoi with Bengali pronunciation from book 'Kuṛmāli Cisoī Cinhāp' কুর্মালি চিসৌ চিহ্নপত্র (for class-I) (15:2009).

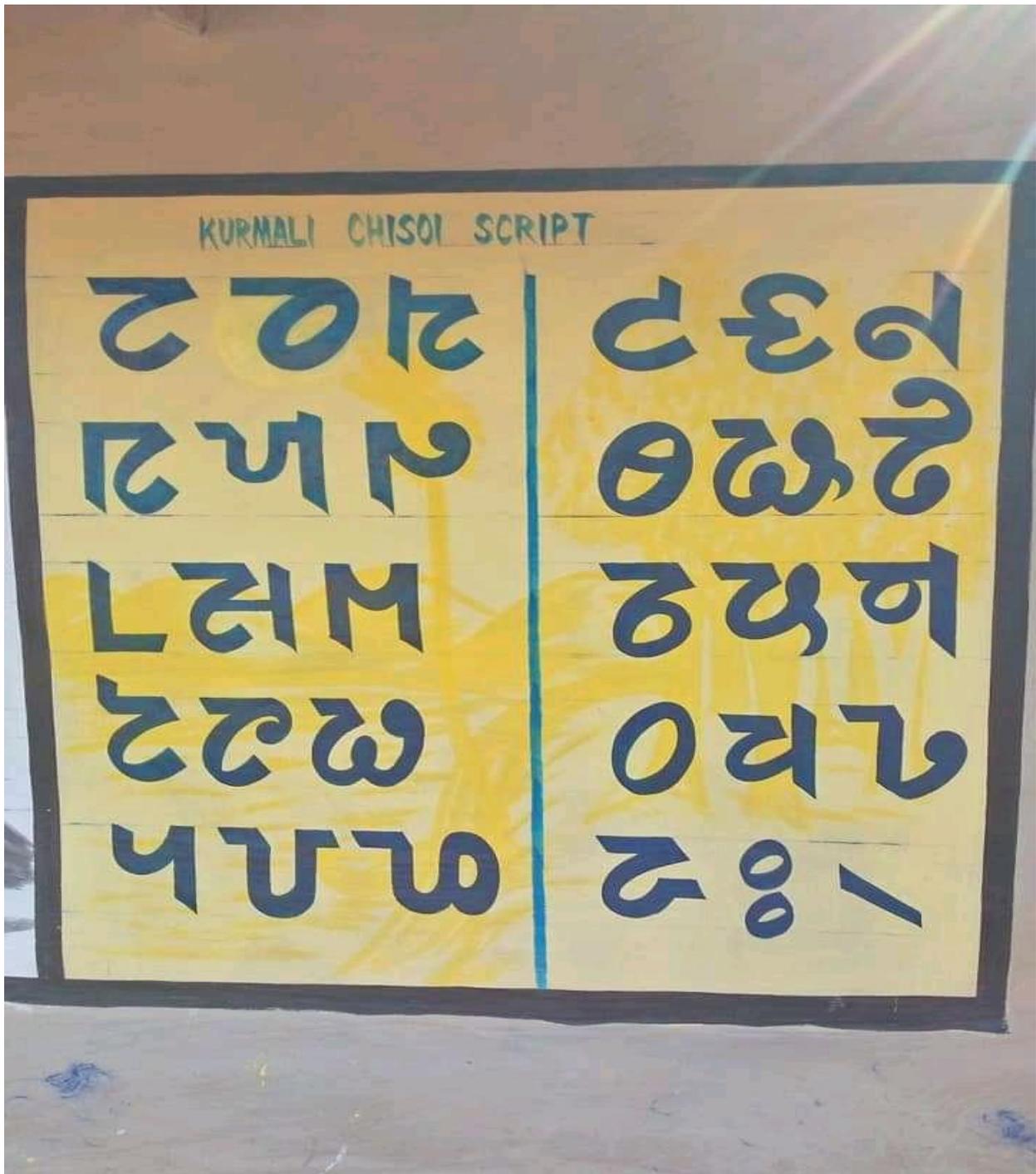


Figure 8: A school wall showing letters of Chisoi (2019).



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

ଚଳିତାବଦି ଚଳିତାବଦି ଚଳିତାବଦି
 (କୁଡ଼ମାଳି ଚିସି ଚିନହୀମ)

ଅ	ବ	ଈ	ଉ
A	B	ଇ	ଊ
ଆ	ଖ	ୈ	ଋ
À	ଗ	ୌ	ୠ
À	G	TA	ୡ
ଏ	ଘ	ନ	ୢ
E	S	N	ୣ
ଈ	ଙ	ଝ	୤
ୈ	କ	ଞ	୥
E	K	R	୦
୧	ଊ	ୠ	୧
୧	ଋ	ଙ	RH
୧	ୠ	ୡ	୨
୧	ୡ	ୢ	୩
୧	ୢ	ୣ	୪
୧	ୣ	୤	୫
୧	୤	୥	୬
୧	୥	୦	୭
୧	୦	୧	୮
୧	୧	୨	୯
୧	୨	୩	୧୦
୧	୩	୪	୧୧
୧	୪	୫	୧୨
୧	୫	୬	୧୩
୧	୬	୭	୧୪
୧	୭	୮	୧୫
୧	୮	୯	୧୬
୧	୯	୧୦	୧୭
୧	୧୦	୧୧	୧୮
୧	୧୧	୧୨	୧୯
୧	୧୨	୧୩	୨୦
୧	୧୩	୧୪	୨୧
୧	୧୪	୧୫	୨୨
୧	୧୫	୧୬	୨୩
୧	୧୬	୧୭	୨୪
୧	୧୭	୧୮	୨୫
୧	୧୮	୧୯	୨୬
୧	୧୯	୨୦	୨୭
୧	୨୦	୨୧	୨୮
୧	୨୧	୨୨	୨୯
୧	୨୨	୨୩	୩୦
୧	୨୩	୨୪	୩୧
୧	୨୪	୨୫	୩୨
୧	୨୫	୨୬	୩୩
୧	୨୬	୨୭	୩୪
୧	୨୭	୨୮	୩୫
୧	୨୮	୨୯	୩୬
୧	୨୯	୩୦	୩୭
୧	୩୦	୩୧	୩୮
୧	୩୧	୩୨	୩୯
୧	୩୨	୩୩	୪୦
୧	୩୩	୩୪	୪୧
୧	୩୪	୩୫	୪୨
୧	୩୫	୩୬	୪୩
୧	୩୬	୩୭	୪୪
୧	୩୭	୩୮	୪୫
୧	୩୮	୩୯	୪୬
୧	୩୯	୪୦	୪୭
୧	୪୦	୪୧	୪୮
୧	୪୧	୪୨	୪୯
୧	୪୨	୪୩	୫୦
୧	୪୩	୪୪	୫୧
୧	୪୪	୪୫	୫୨
୧	୪୫	୪୬	୫୩
୧	୪୬	୪୭	୫୪
୧	୪୭	୪୮	୫୫
୧	୪୮	୪୯	୫୬
୧	୪୯	୫୦	୫୭
୧	୫୦	୫୧	୫୮
୧	୫୧	୫୨	୫୯
୧	୫୨	୫୩	୬୦
୧	୫୩	୫୪	୬୧
୧	୫୪	୫୫	୬୨
୧	୫୫	୫୬	୬୩
୧	୫୬	୫୭	୬୪
୧	୫୭	୫୮	୬୫
୧	୫୮	୫୯	୬୬
୧	୫୯	୬୦	୬୭
୧	୬୦	୬୧	୬୮
୧	୬୧	୬୨	୬୯
୧	୬୨	୬୩	୭୦
୧	୬୩	୬୪	୭୧
୧	୬୪	୬୫	୭୨
୧	୬୫	୬୬	୭୩
୧	୬୬	୬୭	୭୪
୧	୬୭	୬୮	୭୫
୧	୬୮	୬୯	୭୬
୧	୬୯	୭୦	୭୭
୧	୭୦	୭୧	୭୮
୧	୭୧	୭୨	୭୯
୧	୭୨	୭୩	୮୦
୧	୭୩	୭୪	୮୧
୧	୭୪	୭୫	୮୨
୧	୭୫	୭୬	୮୩
୧	୭୬	୭୭	୮୪
୧	୭୭	୭୮	୮୫
୧	୭୮	୭୯	୮୬
୧	୭୯	୮୦	୮୭
୧	୮୦	୮୧	୮୮
୧	୮୧	୮୨	୮୯
୧	୮୨	୮୩	୯୦
୧	୮୩	୮୪	୯୧
୧	୮୪	୮୫	୯୨
୧	୮୫	୮୬	୯୩
୧	୮୬	୮୭	୯୪
୧	୮୭	୮୮	୯୫
୧	୮୮	୮୯	୯୬
୧	୮୯	୯୦	୯୭
୧	୯୦	୯୧	୯୮
୧	୯୧	୯୨	୯୯
୧	୯୨	୯୩	୧୦୦
୧	୯୩	୯୪	୧୦୧
୧	୯୪	୯୫	୧୦୨
୧	୯୫	୯୬	୧୦୩
୧	୯୬	୯୭	୧୦୪
୧	୯୭	୯୮	୧୦୫
୧	୯୮	୯୯	୧୦୬
୧	୯୯	୧୦୦	୧୦୭
୧	୧୦୦	୧୦୧	୧୦୮
୧	୧୦୧	୧୦୨	୧୦୯
୧	୧୦୨	୧୦୩	୧୧୦
୧	୧୦୩	୧୦୪	୧୧୧
୧	୧୦୪	୧୦୫	୧୧୨
୧	୧୦୫	୧୦୬	୧୧୩
୧	୧୦୬	୧୦୭	୧୧୪
୧	୧୦୭	୧୦୮	୧୧୫
୧	୧୦୮	୧୦୯	୧୧୬
୧	୧୦୯	୧୧୦	୧୧୭
୧	୧୧୦	୧୧୧	୧୧୮
୧	୧୧୧	୧୧୨	୧୧୯
୧	୧୧୨	୧୧୩	୧୨୦
୧	୧୧୩	୧୧୪	୧୨୧
୧	୧୧୪	୧୧୫	୧୨୨
୧	୧୧୫	୧୧୬	୧୨୩
୧	୧୧୬	୧୧୭	୧୨୪
୧	୧୧୭	୧୧୮	୧୨୫
୧	୧୧୮	୧୧୯	୧୨୬
୧	୧୧୯	୧୨୦	୧୨୭
୧	୧୨୦	୧୨୧	୧୨୮
୧	୧୨୧	୧୨୨	୧୨୯
୧	୧୨୨	୧୨୩	୧୩୦
୧	୧୨୩	୧୨୪	୧୩୧
୧	୧୨୪	୧୨୫	୧୩୨
୧	୧୨୫	୧୨୬	୧୩୩
୧	୧୨୬	୧୨୭	୧୩୪
୧	୧୨୭	୧୨୮	୧୩୫
୧	୧୨୮	୧୨୯	୧୩୬
୧	୧୨୯	୧୩୦	୧୩୭
୧	୧୩୦	୧୩୧	୧୩୮
୧	୧୩୧	୧୩୨	୧୩୯
୧	୧୩୨	୧୩୩	୧୪୦
୧	୧୩୩	୧୩୪	୧୪୧
୧	୧୩୪	୧୩୫	୧୪୨
୧	୧୩୫	୧୩୬	୧୪୩
୧	୧୩୬	୧୩୭	୧୪୪
୧	୧୩୭	୧୩୮	୧୪୫
୧	୧୩୮	୧୩୯	୧୪୬
୧	୧୩୯	୧୪୦	୧୪୭
୧	୧୪୦	୧୪୧	୧୪୮
୧	୧୪୧	୧୪୨	୧୪୯
୧	୧୪୨	୧୪୩	୧୫୦
୧	୧୪୩	୧୪୪	୧୫୧
୧	୧୪୪	୧୪୫	୧୫୨
୧	୧୪୫	୧୪୬	୧୫୩
୧	୧୪୬	୧୪୭	୧୫୪
୧	୧୪୭	୧୪୮	୧୫୫
୧	୧୪୮	୧୪୯	୧୫୬
୧	୧୪୯	୧୫୦	୧୫୭
୧	୧୫୦	୧୫୧	୧୫୮
୧	୧୫୧	୧୫୨	୧୫୯
୧	୧୫୨	୧୫୩	୧୬୦
୧	୧୫୩	୧୫୪	୧୬୧
୧	୧୫୪	୧୫୫	୧୬୨
୧	୧୫୫	୧୫୬	୧୬୩
୧	୧୫୬	୧୫୭	୧୬୪
୧	୧୫୭	୧୫୮	୧୬୫
୧	୧୫୮	୧୫୯	୧୬୬
୧	୧୫୯	୧୬୦	୧୬୭
୧	୧୬୦	୧୬୧	୧୬୮
୧	୧୬୧	୧୬୨	୧୬୯
୧	୧୬୨	୧୬୩	୧୭୦
୧	୧୬୩	୧୬୪	୧୭୧
୧	୧୬୪	୧୬୫	୧୭୨
୧	୧୬୫	୧୬୬	୧୭୩
୧	୧୬୬	୧୬୭	୧୭୪
୧	୧୬୭	୧୬୮	୧୭୫
୧	୧୬୮	୧୬୯	୧୭୬
୧	୧୬୯	୧୭୦	୧୭୭
୧	୧୭୦	୧୭୧	୧୭୮
୧	୧୭୧	୧୭୨	୧୭୯
୧	୧୭୨	୧୭୩	୧୮୦
୧	୧୭୩	୧୭୪	୧୮୧
୧	୧୭୪	୧୭୫	୧୮୨
୧	୧୭୫	୧୭୬	୧୮୩
୧	୧୭୬	୧୭୭	୧୮୪
୧	୧୭୭	୧୭୮	୧୮୫
୧	୧୭୮	୧୭୯	୧୮୬
୧	୧୭୯	୧୮୦	୧୮୭
୧	୧୮୦	୧୮୧	୧୮୮
୧	୧୮୧	୧୮୨	୧୮୯
୧	୧୮୨	୧୮୩	୧୯୦
୧	୧୮୩	୧୮୪	୧୯୧
୧	୧୮୪	୧୮୫	୧୯୨
୧	୧୮୫	୧୮୬	୧୯୩
୧	୧୮୬	୧୮୭	୧୯୪
୧	୧୮୭	୧୮୮	୧୯୫
୧	୧୮୮	୧୮୯	୧୯୬
୧	୧୮୯	୧୯୦	୧୯୭
୧	୧୯୦	୧୯୧	୧୯୮
୧	୧୯୧	୧୯୨	୧୯୯
୧	୧୯୨	୧୯୩	୨୦୦
୧	୧୯୩	୧୯୪	୨୦୧
୧	୧୯୪	୧୯୫	୨୦୨
୧	୧୯୫	୧୯୬	୨୦୩
୧	୧୯୬	୧୯୭	୨୦୪
୧	୧୯୭	୧୯୮	୨୦୫
୧	୧୯୮	୧୯୯	୨୦୬
୧	୧୯୯	୨୦୦	୨୦୭
୧	୨୦୦	୨୦୧	୨୦୮
୧	୨୦୧	୨୦୨	୨୦୯
୧	୨୦୨	୨୦୩	୨୧୦
୧	୨୦୩	୨୦୪	୨୧୧
୧	୨୦୪	୨୦୫	୨୧୨
୧	୨୦୫	୨୦୬	୨୧୩
୧	୨୦୬	୨୦୭	୨୧୪
୧	୨୦୭	୨୦୮	୨୧୫
୧	୨୦୮	୨୦୯	୨୧୬
୧	୨୦୯	୨୧୦	୨୧୭
୧	୨୧୦	୨୧୧	୨୧୮
୧	୨୧୧	୨୧୨	୨୧୯
୧	୨୧୨	୨୧୩	୨୨୦
୧	୨୧୩	୨୧୪	୨୨୧
୧	୨୧୪	୨୧୫	୨୨୨
୧	୨୧୫	୨୧୬	୨୨୩
୧	୨୧୬	୨୧୭	୨୨୪
୧	୨୧୭	୨୧୮	୨୨୫
୧	୨୧୮	୨୧୯	୨୨୬
୧	୨୧୯	୨୨୦	୨୨୭
୧	୨୨୦	୨୨୧	୨୨୮
୧	୨୨୧	୨୨୨	୨୨୯
୧	୨୨୨	୨୨୩	୨୩୦
୧	୨୨୩	୨୨୪	୨୩୧
୧	୨୨୪	୨୨୫	୨୩୨
୧	୨୨୫	୨୨୬	୨୩୩
୧	୨୨୬	୨୨୭	୨୩୪
୧	୨୨୭	୨୨୮	୨୩୫
୧	୨୨୮	୨୨୯	୨୩୬
୧	୨୨୯	୨୩୦	୨୩୭
୧	୨୩୦	୨୩୧	୨୩୮
୧	୨୩୧	୨୩୨	୨୩୯
୧	୨୩୨	୨୩୩	୨୪୦
୧	୨୩୩	୨୩୪	୨୪୧
୧	୨୩୪	୨୩୫	୨୪୨
୧	୨୩୫	୨୩୬	୨୪୩
୧	୨୩୬	୨୩୭	୨୪୪
୧	୨୩୭	୨୩୮	୨୪୫
୧	୨୩୮	୨୩୯	୨୪୬
୧	୨୩୯	୨୪୦	୨୪

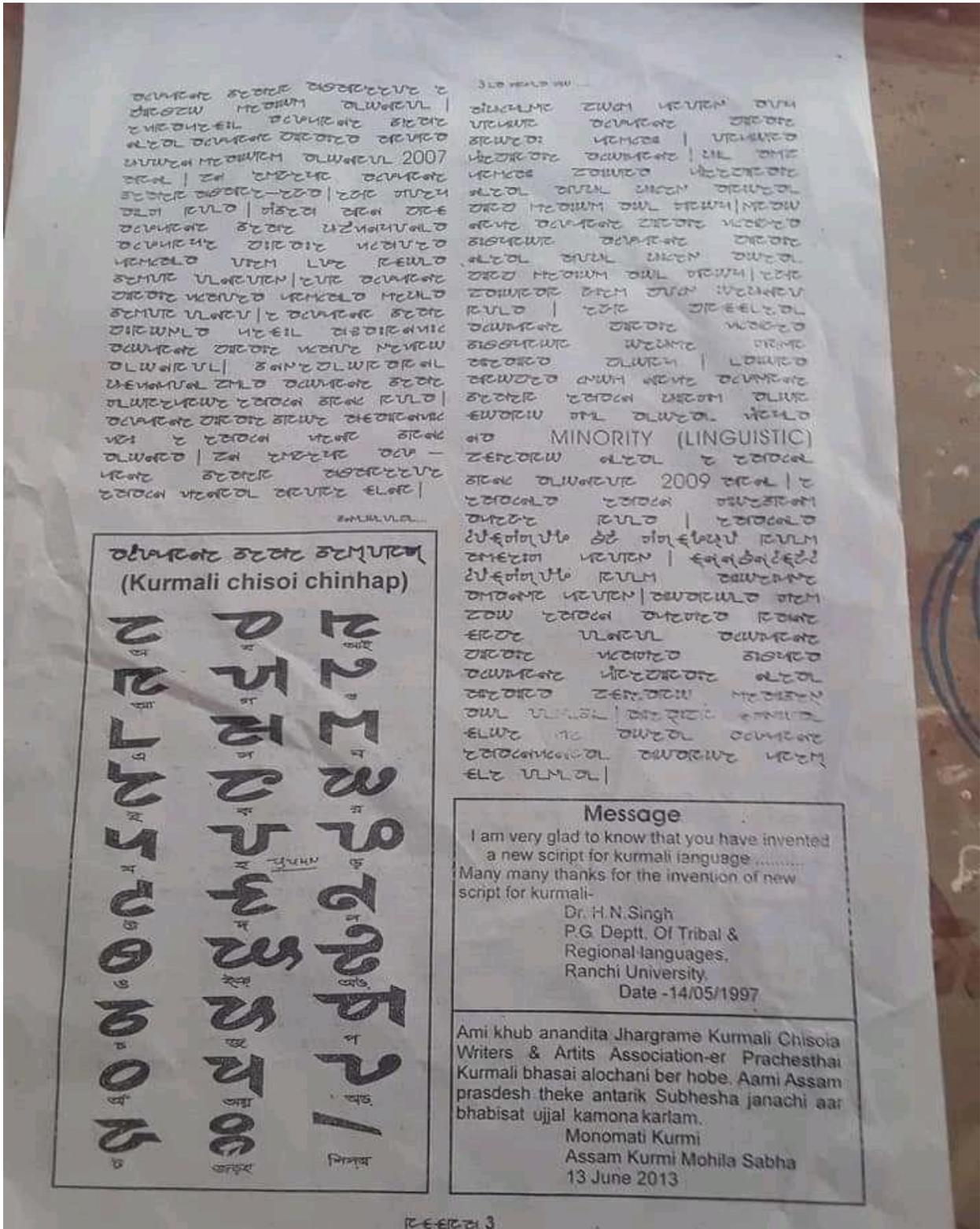
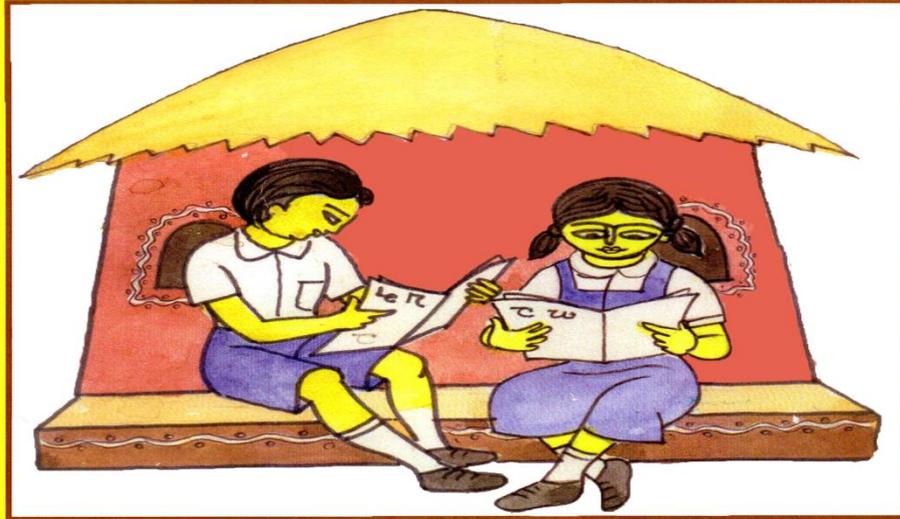


Figure 11(e): Showing the 3rd page of Kurmali newspaper 'Addās' with Chisoi chart (Jan 5th, 2017).

ଅଲିଆଲି ଚିସୌ
ଚିମ୍ପାଲି

(FOR CLASS - I)



ଅଲିଆଲି
ଚିମ୍ପାଲି ଚିସୌ ଚିମ୍ପାଲି



ALL INDIA KURMALI CHISOI-A SOCIETY
RAGHUNATHPUR, JHARGRAM
DIST.- PASCHIM MEDINIPUR (W.B.)

Figure 12: Heading showing the spelling of Chisoi ଚିସୌ (handwritten form) having LETTER I with SISO from the cover of Kurmali primer 'Kurmāli Cisoī Cinhāp' ଅଲିଆଲି ଚିସୌ ଚିମ୍ପାଲି (for class-I)(2009)



Figure 13: Showing the banner of Kurmali Chisoi-A Teachers' Association' ଚକ୍ରମାଳିକା ଚିସୌ-ଆ ଟିଚାର୍ସ ଏସୋସିଏସନ having kerning issues between two letters.



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

સોનાકુલી કુર્મલી પ્રાથમિક શાળાનું વાર્ષિક પરીક્ષણ

ESTD-2009

Class - IV

(FINAL EXAMINATION 2018-19)

F.M-50

Subject- Kurmali

Time - 2 hour Date-4/12/2019

Name -

Roll No -

1. ટીકાકરો કયા ટીકા છે ? 2
2. ઓલકાના ઓલમ કુલો છે ? 2
3. ટીકાકરોના ઓલમ કુલો છે ? 3
4. ટીકાકરોના ઓલમ કુલો છે ? 3
5. ટીકાકરોના ઓલમ કુલો છે ? 5
6. ટીકાકરોના ઓલમ કુલો છે ? 5
7. ઓલકાના ઓલમ કુલો - 5

લો ઓલકા	ટીકાકરોના ઓલકા
વેલ	
	ટીકાકરોના
સોલ	
	સોલકા
નૌ	

8. ટીકાકરોના ઓલકા - ટીકાકરોના ઓલકા 10
9. ટીકાકરોના ઓલકા - ટીકાકરોના ઓલકા 10
10. ટીકાકરોના ઓલકાના ઓલમ કુલો, ટીકાકરોના ઓલમ કુલો છે ? 5

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



Figure 16(a): Showing the Chisoi teaching is going on in 'Ānganwāḍī' Courtyard Shelter school.



Figure 16(b): Showing the picture of Kurmali-Chisoi school from Mayurbhanj, Odisha.



Figure 16(c): Showing the picture of Kurmali-Chisoi school from Chakulia, Jharkhand.

ଲଘୁ ଦିନିକିଆ କର୍ମାଳୀ ଚିସୌ ଚାରୀ ଶିକ୍ଷା ଏବଂ ତାହାର ଭବିଷ୍ୟତ ଦିଗରେ
 ଏକ ଦିନିକିଆ କର୍ମାଳୀ ଚିସୌ ଚାରୀ ଶିକ୍ଷା ଏବଂ ତାହାର ଭବିଷ୍ୟତ ଦିଗରେ
 ଲଘୁ ଦିନିକିଆ କର୍ମାଳୀ ଚିସୌ ଚାରୀ ଶିକ୍ଷା ଏବଂ ତାହାର ଭବିଷ୍ୟତ ଦିଗରେ

One day - Workshop on -
 KURMALI CHISOI-CHARI EDUCATION
 AND ITS FUTER ASPECT.

Date :- 26.06. June - 2022, Sunday
 Time:- 10-30 AM to 3.30 P.M.
 Venue :- Khudiram Mahato Manch. (Com. Hall of M.D.S.S.) - Purulia Town
 Signature of Participants -

Name / ମିତ୍ର -	Village / village Block.
1 Puspabala Mahato	Kaltar
2 ଚିତ୍ରାଲକ୍ଷ୍ମୀ ଦାଶ	ପାଟଣା ଗ୍ରାମପଞ୍ଚାୟତ
3 ମଧୁସୂଦନ ଦାଶ	Ansha ମୁକାମ
4 ଶ୍ରୀମତୀ ସୁମିତ୍ରା ଦାଶ	ମୁକାମ
5 ଶ୍ରୀମତୀ ସୁମିତ୍ରା ଦାଶ	ପୁରୁଣା
6 ଶ୍ରୀମତୀ ସୁମିତ୍ରା ଦାଶ	ପୁରୁଣା
7 ଶ୍ରୀମତୀ ସୁମିତ୍ରା ଦାଶ	ପୁରୁଣା
8 ଶ୍ରୀମତୀ ସୁମିତ୍ରା ଦାଶ	ପୁରୁଣା
9 ମଧୁସୂଦନ ଦାଶ	Balia
10 Anvesha Mahato	Murguma
11 Puranima Mahato	Parradda
12 ଶ୍ରୀମତୀ ସୁମିତ୍ରା ଦାଶ	ମୁକାମ
13 ମଧୁସୂଦନ ଦାଶ (NUPUR ROY)	ମୁକାମ/ପୁରୁଣା
14 ଶ୍ରୀମତୀ ସୁମିତ୍ରା ଦାଶ	Hetgugui
15 ଶ୍ରୀମତୀ ସୁମିତ୍ରା ଦାଶ	Hetgugui
16 ଶ୍ରୀମତୀ ସୁମିତ୍ରା ଦାଶ	AHARRA / ମୁକାମ
17 ମଧୁସୂଦନ ଦାଶ	ମୁକାମ
18 ଶ୍ରୀମତୀ ସୁମିତ୍ରା ଦାଶ	Aharrada - Ansha
19 ଶ୍ରୀମତୀ ସୁମିତ୍ରା ଦାଶ	ମୁକାମ
20 ଶ୍ରୀମତୀ ସୁମିତ୍ରା ଦାଶ	ମୁକାମ
21 ଶ୍ରୀମତୀ ସୁମିତ୍ରା ଦାଶ	ମୁକାମ
22. Hazekrishna Mahato	Konapasa Pancha
23. ଶ୍ରୀମତୀ ସୁମିତ୍ରା ଦାଶ	ମୁକାମ
24 Satyaji mahato	Dhunahi
25. ଶ୍ରୀମତୀ ସୁମିତ୍ରା ଦାଶ	ମୁକାମ
26. ଶ୍ରୀମତୀ ସୁମିତ୍ରା ଦାଶ	ମୁକାମ
27. ଶ୍ରୀମତୀ ସୁମିତ୍ରା ଦାଶ	ମୁକାମ

Figure 16(e): Participants list of 'Kurmal Chisoi Chari education and its future aspect' one day workshop at V Pally, Purulia.(2022)

୪

୪୯୩
୪୯୫୪୫
୪୯୬୭୮
୪୯୯୦
୪୯୦୧୨୩୪୫
୪୯୬୭୮୯୦୧୨

୫

୫୬୭୮
୫୬୭୮୯
୫୬୭୮୯୦
୫୬୭୮୯୦୧
୫୬୭୮୯୦୧୨
୫୬୭୮୯୦୧୨୩

୬

୬୭୮
୬୭୮୯
୬୭୮୯୦
୬୭୮୯୦୧
୬୭୮୯୦୧୨
୬୭୮୯୦୧୨୩



14

୧୪

Figure 17: Showing the positioning of Jaraha and siso from book 'Kuṛmāli Cisoī Cinhāp' ଚିତ୍ରାଂଶୁରୀ ଚିତ୍ରାଂଶୁରୀ (for class-I) (14:2009).

୦	୪	୮
ଢ଼ିଂ	ଢ଼ିଂ	୮ୱ
ଢ଼ିଂଂ	ଢ଼ିଂଂ	୮ଢ଼ିଂ
ଢ଼ିଂଂଂ	ଢ଼ିଂଂଂ	୮ଢ଼ିଂଂ
ଢ଼ିଂଂଂଂ	ଢ଼ିଂଂଂଂ	୮ଢ଼ିଂଂଂ
ଢ଼ିଂଂଂଂଂ	ଢ଼ିଂଂଂଂଂ	୮ଢ଼ିଂଂଂଂ
ଢ଼ିଂଂଂଂଂଂ	ଢ଼ିଂଂଂଂଂଂ	୮ଢ଼ିଂଂଂଂଂ

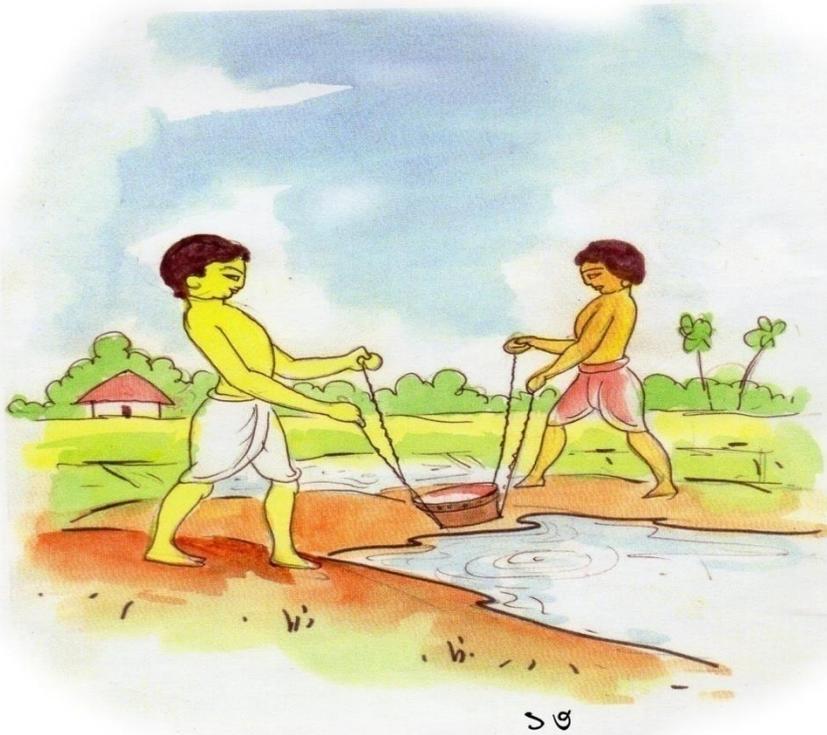


Figure 18: Showing the positing of Chisoi sign Anusvara from book 'Kuṛmāli Cisoī Cinhāp' ଚୁର୍ମାଲି ଚିସୌ ଚିନ୍ହାପ (for class-I) (13:2009).

କୂର୍ମାଲିର ଅକ୍ଷର ବିବରଣ
(Kurmali Sarha Bhnarhar)

ଅ [a]—କୂର୍ମାଲିର ପ୍ରଥମ ଅକ୍ଷର ଅକ୍ଷର ବିବରଣ The first letter of the Kurmali chisoi alphabet.	ଅକ୍ଷର ଅକ୍ଷର (abgarh)—ନି. Stupid, Worthless ମଧ୍ୟେ ପଦ୍ୟ:
ଅ [a]—ଅ. ଅକ୍ଷର ଅକ୍ଷର memorisation	ଅକ୍ଷର (abgarh)—ନି. ill shaped; ugly ଏକାକୀ ପଦ୍ୟ ମଧ୍ୟେ
ଅ [a]—ଅ. ଅକ୍ଷର ଅକ୍ଷର exclamation, —ଅକ୍ଷର ଅକ୍ଷର	ଅକ୍ଷର (abgar)—ନି. harm; disservice ଅକ୍ଷର
ଅ [a]—ନି. ମଧ୍ୟେ ଅକ୍ଷର nega- tion. ମଧ୍ୟ	ଅକ୍ଷର (abas)—ନି. unruly; ଅକ୍ଷର ଅକ୍ଷର ମଧ୍ୟେ ଅକ୍ଷର uncontroellabla ଅକ୍ଷର-ଅକ୍ଷର
ଅ [ah]—ନି. ଅ. yes	ଅକ୍ଷର (abais)—ନି. certainly; ଅକ୍ଷର ମଧ୍ୟେ
ଅ [ah ba]—ନି. ଅକ୍ଷର ଅକ୍ଷର ଏକାକୀ ଅକ୍ଷର ଅକ୍ଷର ଅକ୍ଷର ଅକ୍ଷର ଅକ୍ଷର ଅକ୍ଷର ଅକ୍ଷର ଅକ୍ଷର. ନି. ad- dressed between uncle and nephew; ଅକ୍ଷର ଅକ୍ଷର ଅକ୍ଷର	ଅକ୍ଷର (absar)—ନି. leisure, respite, ଅକ୍ଷର ଅକ୍ଷର
ଅକ୍ଷର (abganata)— ନି. known ଅକ୍ଷର	ଅକ୍ଷର (abka)—ଅ. noisy playing or frisking in sport; ଅକ୍ଷର ଅକ୍ଷର ଅକ୍ଷର ଅକ୍ଷର ମଧ୍ୟେ ଅକ୍ଷର ଅକ୍ଷର (ଅକ୍ଷର) ଅକ୍ଷର ଅକ୍ଷର ଅକ୍ଷର
ଅକ୍ଷର (abgar)—ଅ. ନି. harm ଅକ୍ଷର	ଅକ୍ଷର (abra)—ଅ. inactive; im- proper sittine position; ଅକ୍ଷର ଅକ୍ଷର ଅକ୍ଷର ଅକ୍ଷର
ଅକ୍ଷର (abguina)—ନି. having no qualities; ଅକ୍ଷର ଅକ୍ଷର ମଧ୍ୟେ	

Figure 19: Showing the front page of Kurmali-English Dictionary 'Kurmāli Sārābhōārār' ଅକ୍ଷର ଅକ୍ଷର ଅକ୍ଷର (1:2014)



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

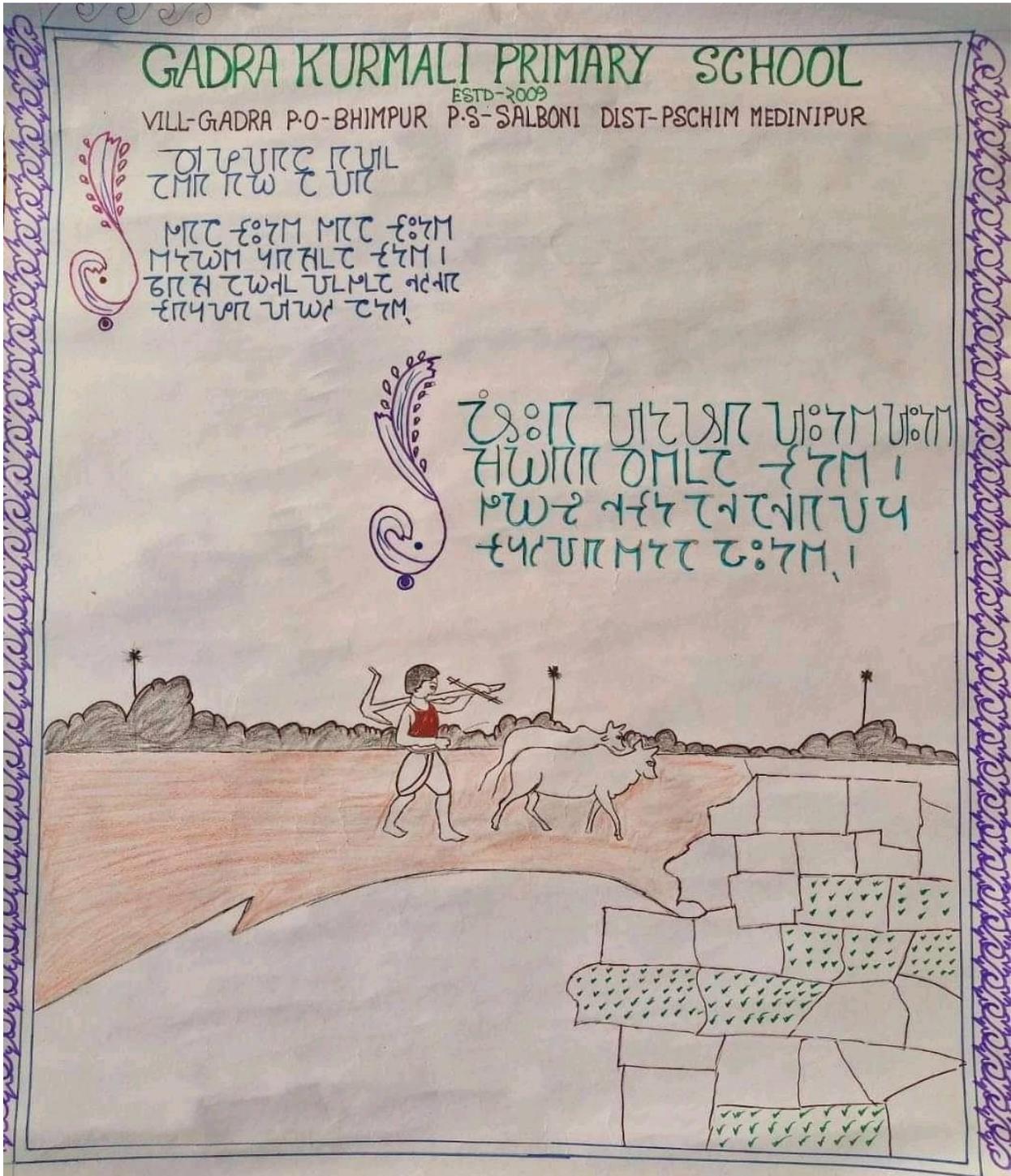


Figure 21: Showing the Kurmali poem chart drawn by a student from Gadra Kurmali primary school.

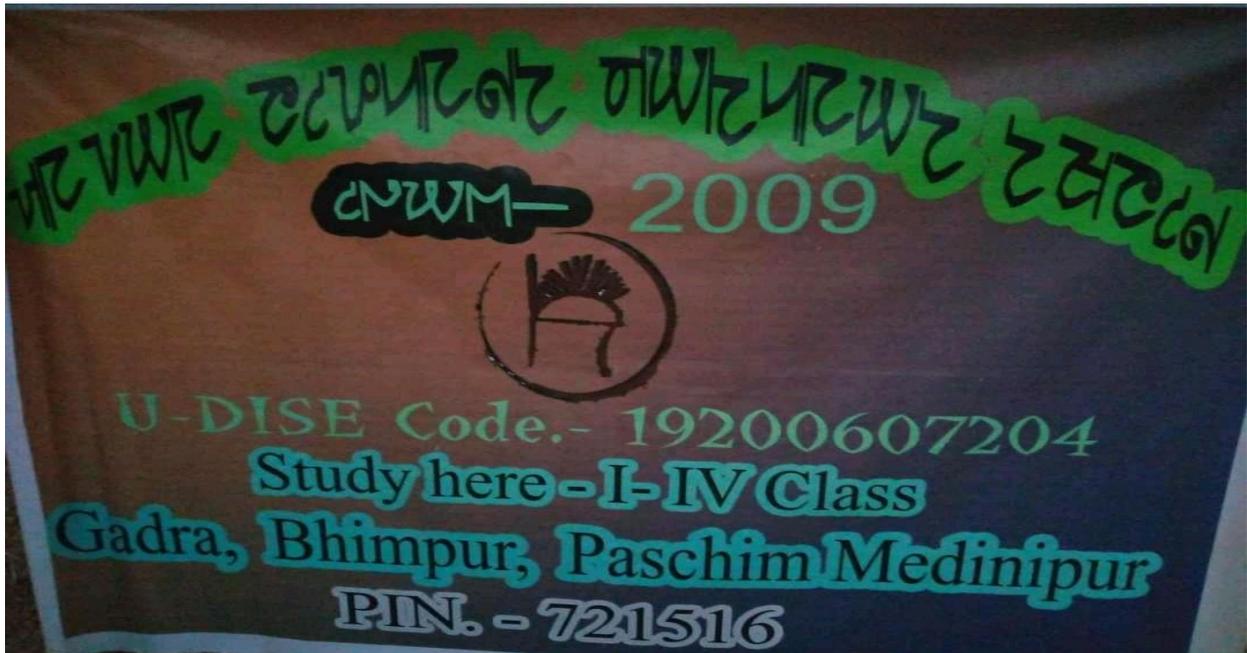


Figure 22: Showing the school banner and classroom of 'Gādrā Kuṛmāli Parāimāri Iskul' গদ্রা কৰ্মালী পৰাইমৰী ইশ্কল (2009)

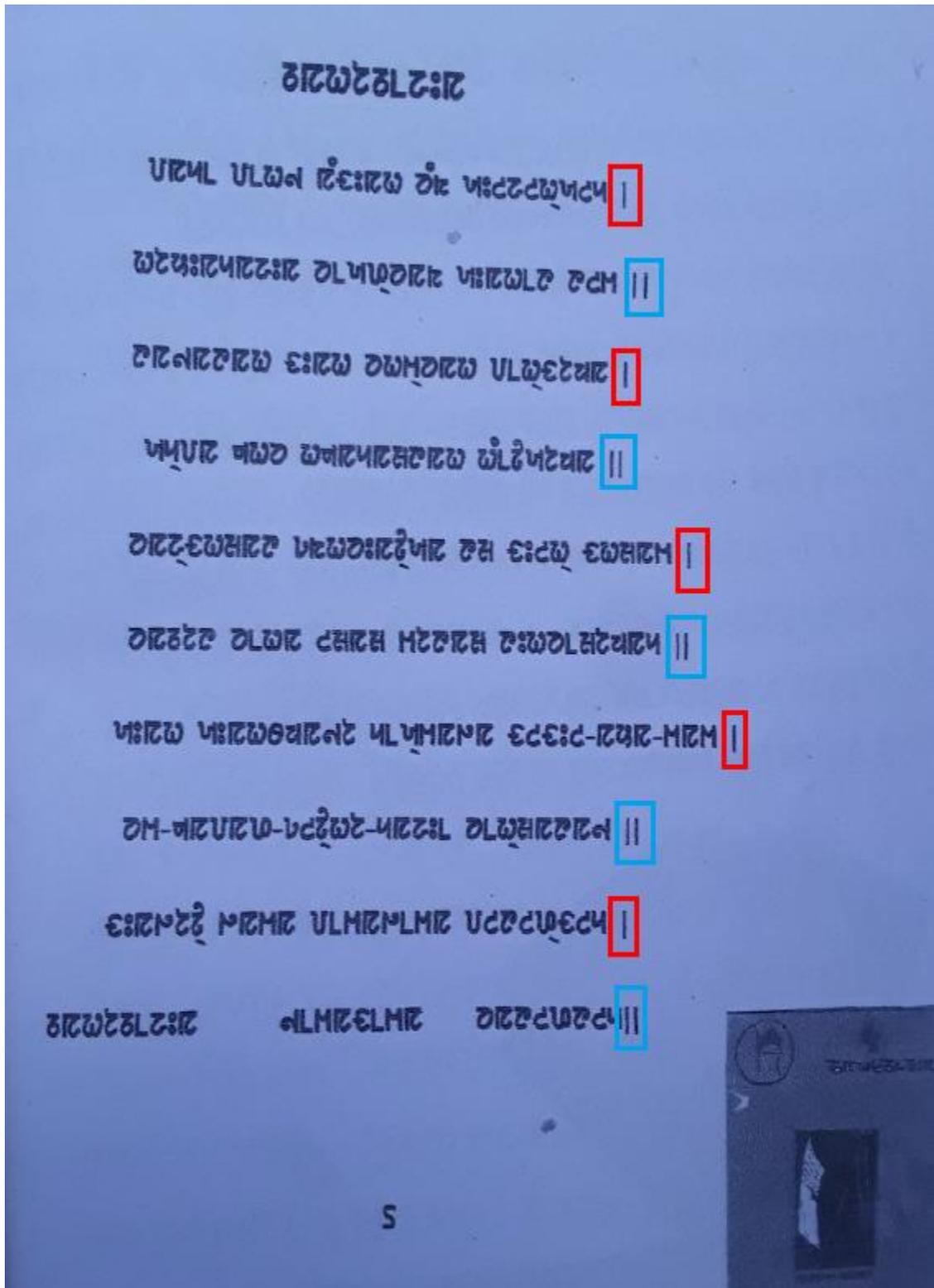


Figure 24(b): Showing the usage of Chisoi **DANDA** and **DOUBLE DANDA** from textbook 'Kurmāli Sārā Bāhār' ଶିକ୍ଷାଗଣନା ଘଟଣାଗଣନା (for class-III). (5:2022)

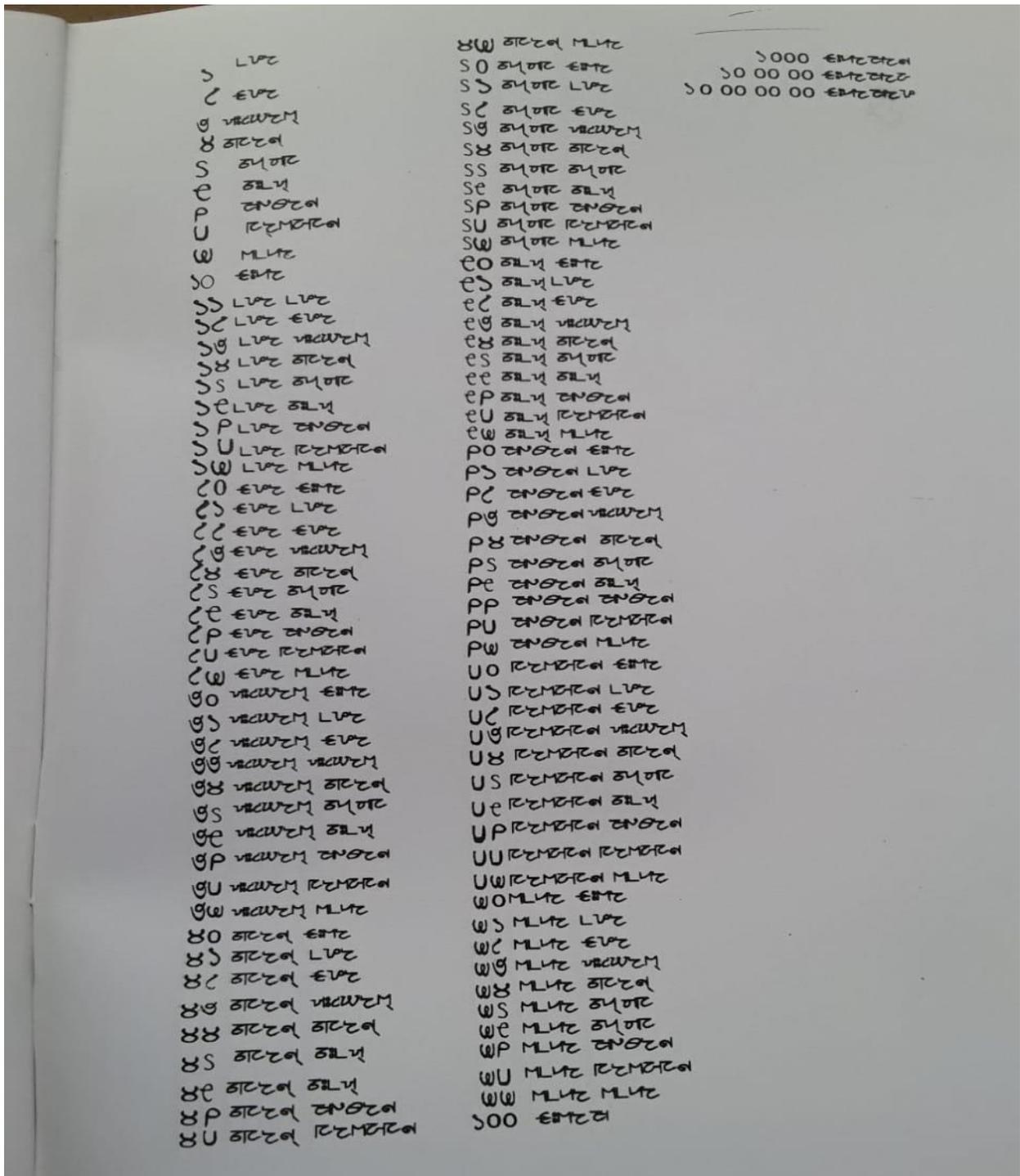


Figure 25(a): Showing the Chisoi digits from book 'Kuṛmāli Cisoī Cinhāp' ಕುರ್ಮಾಲಿ ಚಿಸೋ ಚಿಸುಲಿ class-I, last page (2009).

KURMALI GANTIK

ଫିଲ୍ମର ଉପଯୋଗୀ ଲେଖକ 'ସିଠି'

୧	୨	୩	୪	୫	୬	୭	୮	୯	୧୦
1	2	3	4	5	6	7	8	9	10
୧	୨	୩	୪	୫	୬	୭	୮	୯	୧୦

APPROVED BY -

ALL INDIA KURMALI CHISOI-A SOCIETY
RAGHUNATHPUR, JHARGRAM, WB

Figure 25(b): Showing the Chisoi digits 1-10 from pre-primary book 'Hāmôr Kurmāli Cisōi' ଉପଯୋଗୀ ଲେଖକ 'ସିଠି', back cover (2022).



Figure 27: Cover picture of first ever Kurmali primer of Bangladesh 'Gidôrüenke Kurmāli Cisôî' গিডরুঁএনকে কুড়মালি চিসই , using the latest font. (2021)

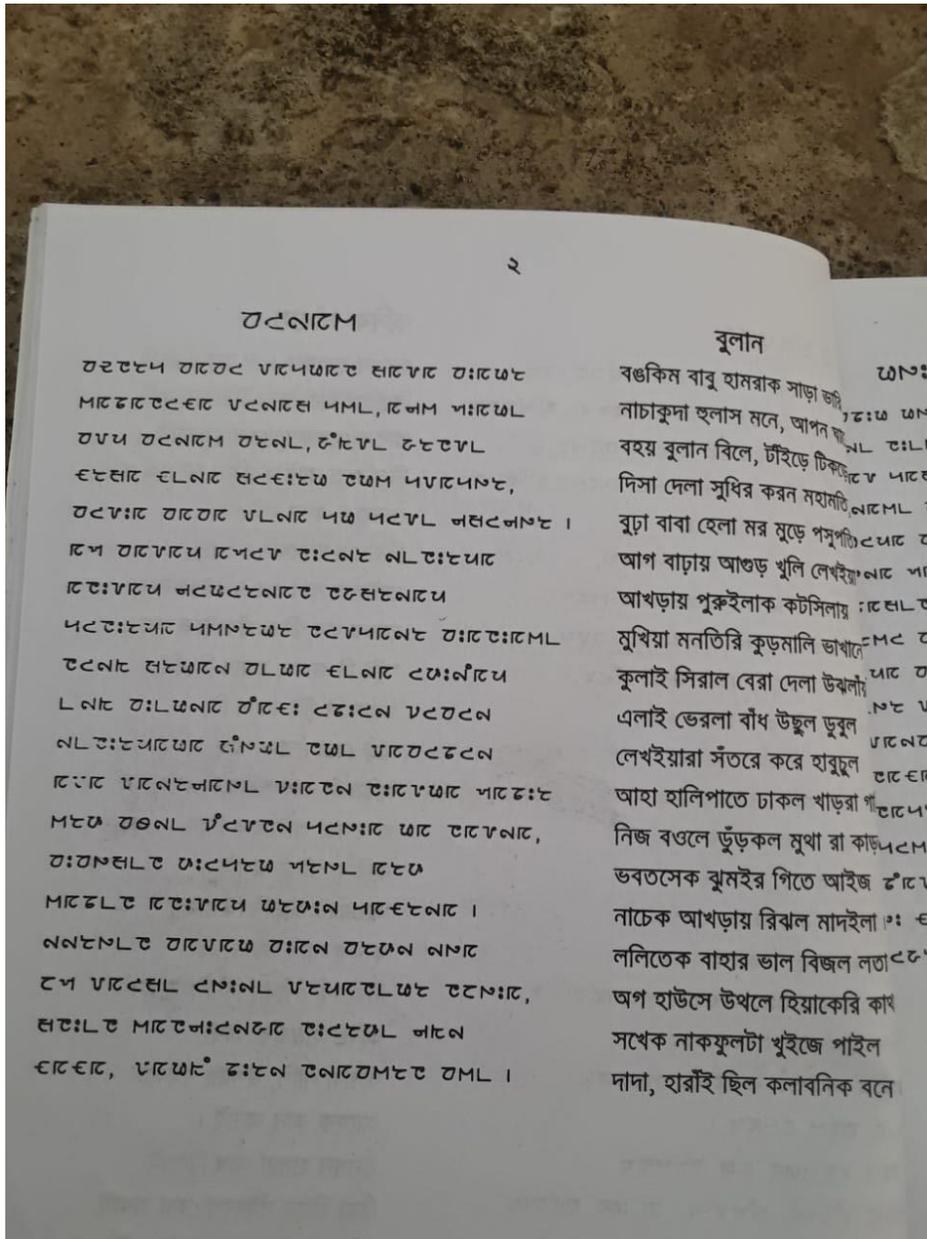


Figure 28: Showing the first poem of Kurmali book ଉତ୍ତରୀୟ 'Bulān' written in both Chisoi and Bengali script (2:2018).

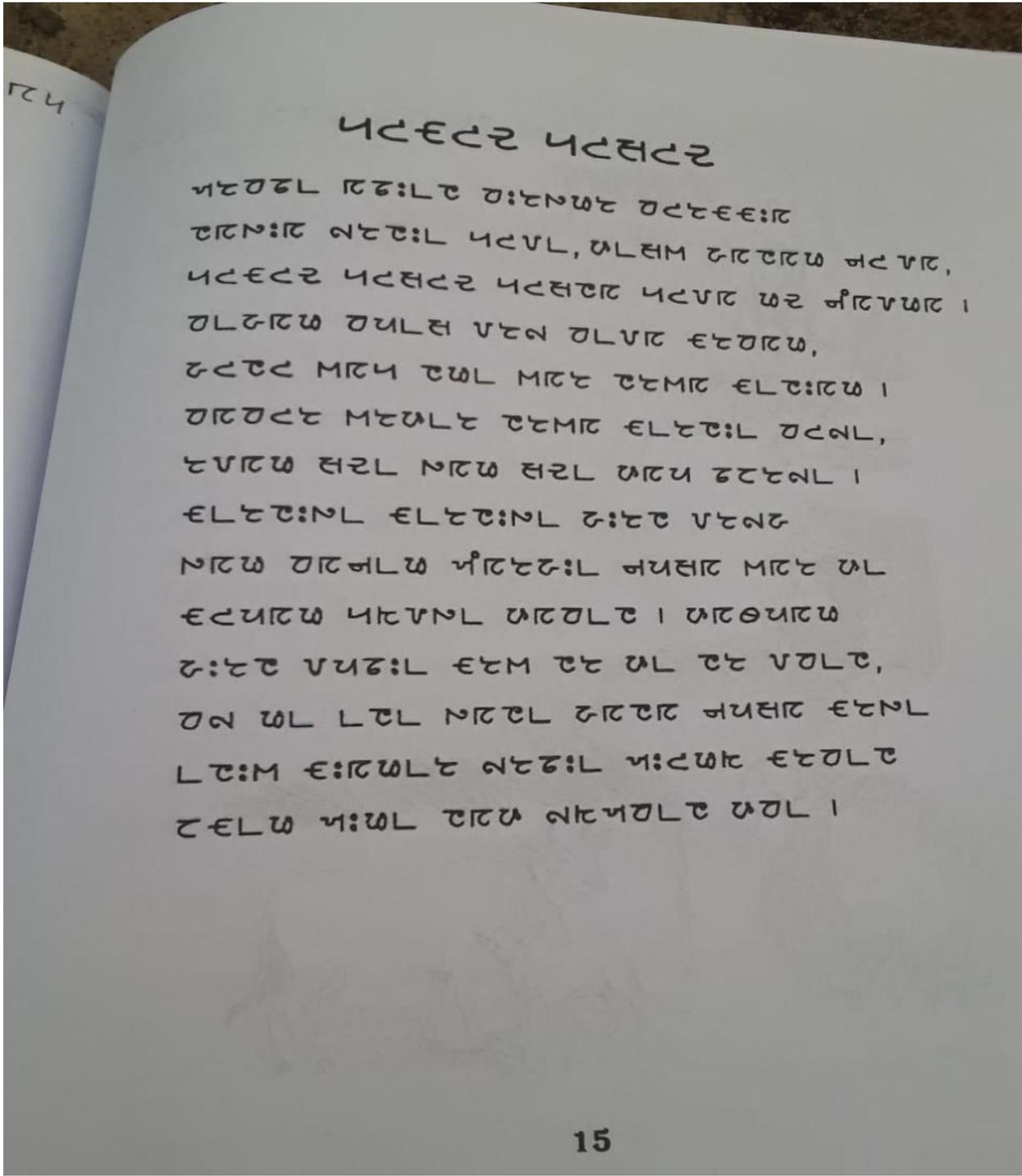


Figure 29: Showing Kurmali poem 'Muduñ Musuñ' *ਮਦੁਢੁਮਸੁਢੁ* from book 'Kuṛmāli Cāri Disā' *ਕੁਰਮਲੀ ਕਾਰੀ ਢਿਸ਼ਾ* (15:2014).

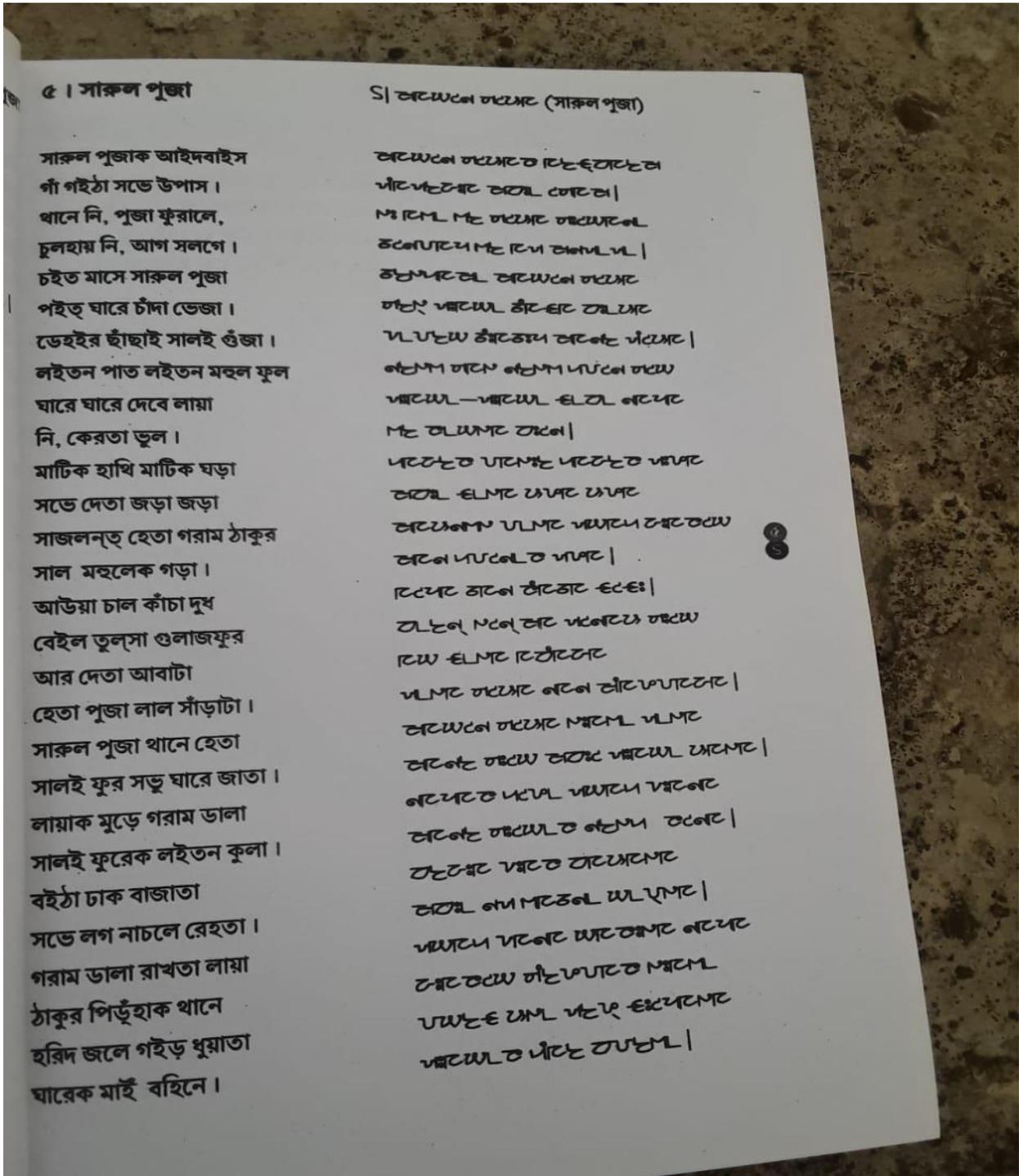


Figure 30: Showing the 5th poem 'Sārul Pujā' written in both Chisoi and Bengali scripts from book 'Cāriceṭhā' (2014).



ALL INDIA KURMALI CHISOI SAKSHARATA MISSION

Figure 31: web page of All India Kurmali Shaksharta Mission of Chisoi[△] (2021).



Figure 32: New Banner of ‘Sarva Śikṣā Abhiyān’ in Chisoi (2021). (courtesy: [Facebook](#))

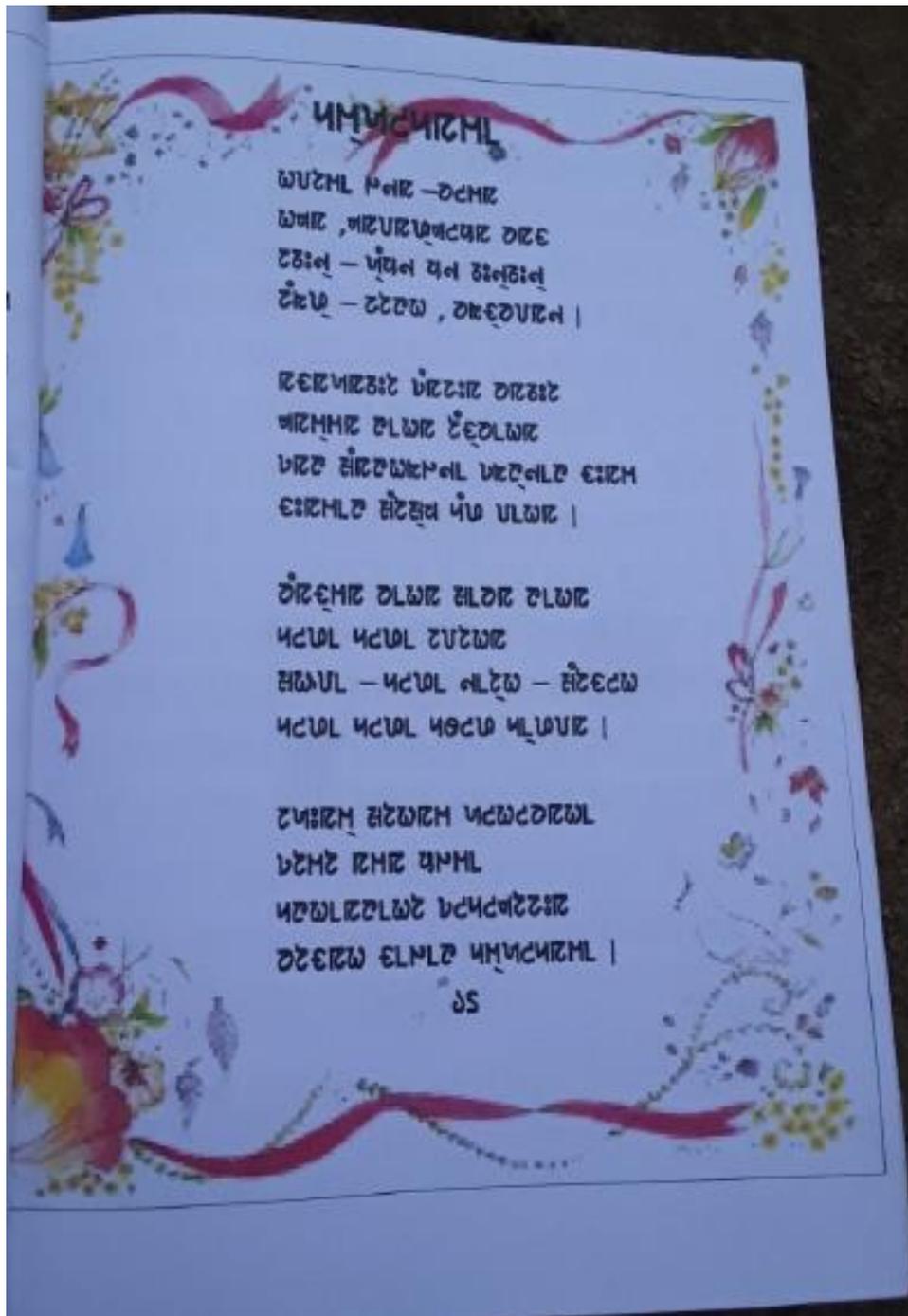


Figure 34: Extracted from textbook 'Kurmalı Sārā Bāhār' ଚନ୍ଦ୍ରାକାଶେ ଘଣ୍ଟାମାଳା ଘଣ୍ଟାମାଳା (for class-IV) (16:2022)

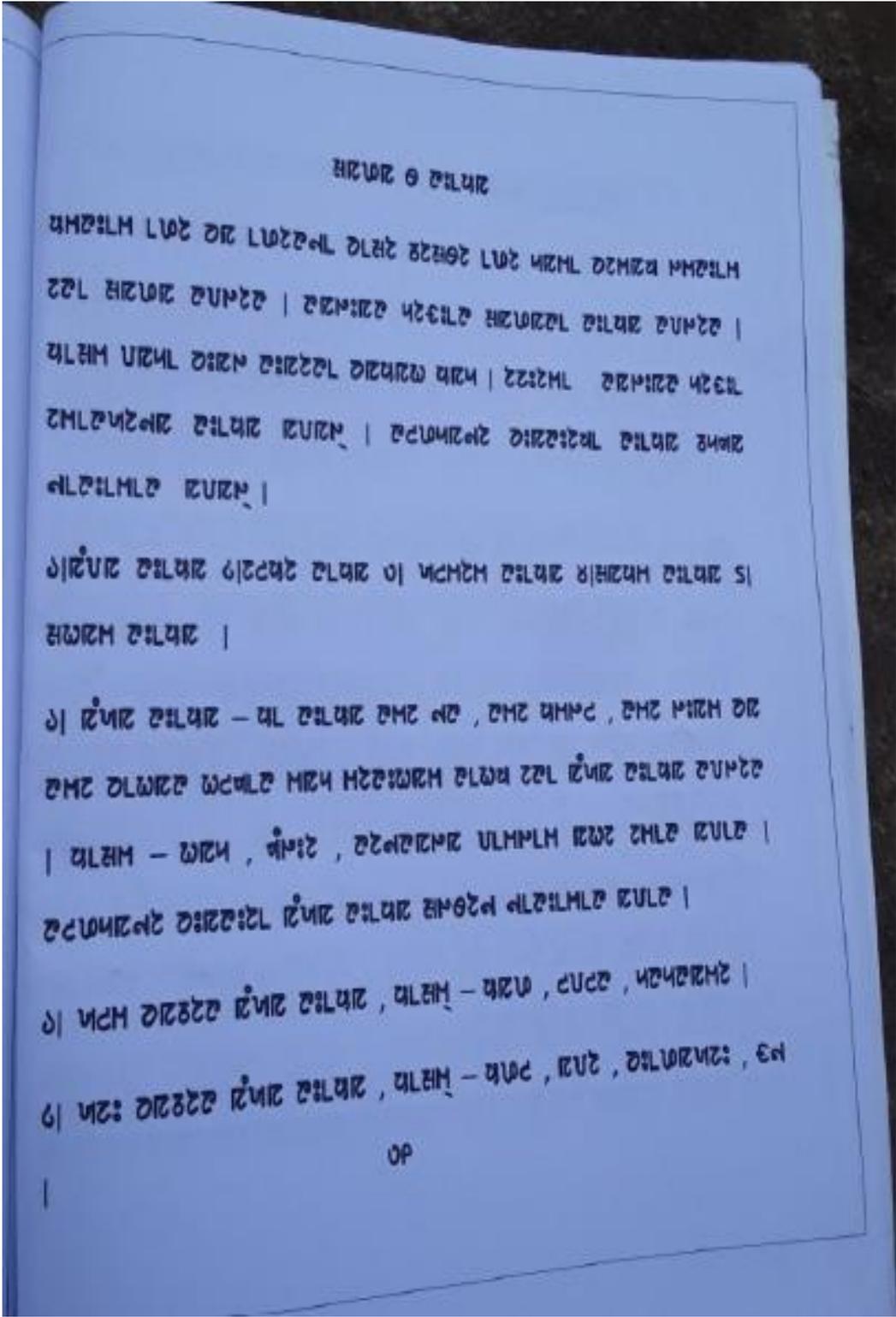


Figure 35: Extracted from textbook 'Kurmāli Sārā Bāhār' ଚକ୍ରୀୟ କ୍ଷତ୍ରୀୟ (for class-IV) (37:2022)

Letter of support from Kurmali Chisoi-A Teachers' Association:

ᱠᱷᱚᱨᱚᱰᱟ ᱠᱚᱨᱚᱰᱟ ᱠᱚᱨᱚᱰᱟ ᱠᱚᱨᱚᱰᱟ ᱠᱚᱨᱚᱰᱟ

KURMALI CHISOI-A TEACHERS' ASSOCIATION

Regd.No.- S0005660 of 2019-2020

Head Office

BAMUNDIHA :: P.O.- TULIBARH :: P.S.- JAMBONI:: DIST.- JHARGRAM:: PIN -721503
Phone No. :- 8945041514/9734435098 :: Email Ld:- kurmalichisoiateachers@gmail.com

Ref: 07/2021

Date :-27/07/2021

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



Subject: Support application for "Proposal to Encode Chisoi in Universal Character set.

Dear Madam,

In reference to the above subject it is to inform that Kurmali Chisoi-a Teachers' Association is the Leading organization of Kurmali- Chisoi-a Linguistic Community of India now . It is a non-profitable organization . The main objective of this organization is to preserve and propagate Kurmali Language and Kurmali culture scientifically among Kurmi people and many other people like Rajwar, Dhopa, Napit, Kamar, Kumore etc. Many of them use Kurmali Language in their day to day lives and they all belong to Kurmali Linguistic community. More than 50 Lakh of people of India Use Kurmali Language. There are also Kurmali speaking people in Bangladesh and Nepal. Now thousands and thousands of people use the Chisoi Script to write Kurmali language . There are many Kurmali Chisoi- Medium primary schools in West Bengal of India which had been registered by the SSM 'Samagra Siksha Mission' Education Mission of Govt. of India. Now Kurmali is a recognized language in the state of West Bengal and Jharkhand.

The History of Chisoi script

The Chisoi is one kind of Alphabetic Script. It was created by Jayanta Kumar Mahata in 1986, a linguist of West Bengal. It is nothing but the sumtotal of some religious and cultural symbols of Kurmali Cultural Community. The symbols have been logically and scientifically arranged in the Chisoi. It is used to write Kurmali Language. Several books and a weekly newspaper have been published in the Chisoi Alphabet . There are forty characters (8 vowels,20 Consonants , 2 signs and 10 digits) in the Chisoi Alphabet. Pankaj Kumar Mahata of Jhargram, an engineer designed a digitized true type font in the year 2000 first. It has been widely used by the Kurmali Chisoi-a Community. Another true type font was designed by Biswajit Mandal and Nurul Alam Ador for chisoi in 2021. It is easier to use . So it has been also accepted by the Kurmali Chisoi-a Community. Now it is used to write Kurmali Language . After thirty four years journey (Debate, discussion, work-shop, seminar etc,) Chisoi is a popular script among Kurmali Linguistic Community.

So, our humble request to Unicode Committee to Encode our Chisoi Script as soon as possible for smooth development of the Kurmali Language.

Yours sincerely

ᱠᱚᱨᱚᱰᱟ ᱠᱚᱨᱚᱰᱟ ᱠᱚᱨᱚᱰᱟ ᱠᱚᱨᱚᱰᱟ

(SUSANTA MAHATA)

President / Secretary
KURMALI CHISOI - A TEACHER'S
ASSOCIATION

ISO/IEC JTC 1/SC 2/WG 2
PROPOSAL SUMMARY FORM TO ACCOMPANY SUBMISSIONS
FOR ADDITIONS TO THE REPERTOIRE OF ISO/IEC 10646¹_{TP-PT}

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:	Proposal to Encode the Chisoi in Universal Character Set
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>01/11/2022</i>
5. Requester's reference (if applicable):	
6. Choose one of the following:	
This is a complete proposal:	<input checked="" type="checkbox"/> <i>Yes</i>
(or) More information will be provided later:	<input type="checkbox"/> <i>No</i>

B. Technical – General

1. Choose one of the following:	
a. This proposal is for a new script (set of characters):	<input checked="" type="checkbox"/> <i>Yes</i>
Proposed name of script:	<i>Chisoi</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>40</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"/>
C-Major extinct <input type="checkbox"/>	D-Attested extinct <input type="checkbox"/>
F-Archaic Hieroglyphic or Ideographic <input type="checkbox"/>	E-Minor extinct <input type="checkbox"/>
	G-Obscure or questionable usage symbols <input type="checkbox"/>
4. Is a repertoire including character names provided?	<input checked="" type="checkbox"/> <i>Yes</i>
a. If YES, are the names in accordance with the "character naming guidelines" in Annex L of P&P document?	<input checked="" type="checkbox"/> <i>Yes</i>
b. Are the character shapes attached in a legible form suitable for review?	<input checked="" type="checkbox"/> <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>Biswajit Mandal (biswajitmandal.bm90@gmail.com)</i>
6. References:	
a. Are references (to other character sets, dictionaries, descriptive texts etc.) provided?	<input checked="" type="checkbox"/> <i>Yes</i>
b. Are published examples of use (such as samples from newspapers, magazines, or other sources) of proposed characters attached?	<input checked="" type="checkbox"/> <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)?	<input checked="" type="checkbox"/> <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? If YES explain	No
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? If YES, available relevant documents:	Yes <i>Jayanta Kumar Mahata, Narayan Mahata, Bikash Mahata, Amalendu Mahata, Susanta Mahata, etc</i> <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? Reference:	Yes <i>See text of proposal</i>
4. The context of use for the proposed characters (type of use; common or rare) Reference:	Common <i>See text of proposal</i>
5. Are the proposed characters in current use by the user community? If YES, where? Reference:	Yes <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? If YES, is a rationale provided? If YES, reference:	No
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? If YES, is a rationale for its inclusion provided? If YES, reference:	No
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:	No
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? If YES, is a rationale for its inclusion provided? If YES, reference:	No
11. Does the proposal include use of combining characters and/or use of composite sequences? 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:	No
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)	No
13. Does the proposal contain any Ideographic compatibility characters? If YES, are the equivalent corresponding unified ideographic characters identified? If YES, reference:	No