Proposal to Encode the Gurung Khema in Universal Character Set

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1. Introduction

This is a proposal to encode the Gurung Khema in the Universal Character Set. It supersedes the following documents:

- 'N4019 L2/11-106' Introducing the Khema Script for Writing Gurung^[2]
- 'L2/11-047' Submission of Gurung Script^[1]
- 'L2/21-145' Proposal to Encode the Gurung Khema^[3]

It incorporates recommendations and comments made in:

• 'L2/21-130' Recommendations to UTC #168 July 2021 on Script proposals [4]

2. Background

Gurung Khema (also called 'Khemā Phri' 南京 韓, 'Khemā lipi' 南京 岫市 or 'Tamū Khemā Phri' 京京 南京 韓) is an alphasyllabary based upon the Brahmi model. Gurung Khema (南京) is a script used for writing Gurung (ISO 639:ggn) and (ISO 639:gyr) and (ISO 639:gyr) is a script used for writing Gurung (ISO 639:gyn) and (ISO 639:gyr), a Tibeto-Burman language of 325,622 people (census 2011) primarily spoken in Kaski, Syangja, Lamjung, Tanahu, Gorkha, Manang, Mustang and Parbat Districts of Nepal and in the South Sikkim, West Sikkim and East Sikkim Districts of Sikkim, India and India Indi

2.1 Timeline

Khe Prih (L2/11-047) created by Jagan Lal Gurung during World War II in 1944. When the war ended, Jagan Lal had acquired a newfound interest in his native tongue, an interest that led to him developing a script for the oral Gurung language. Combining various signs and symbols, Jagan Lal developed a rudimentary script, which today is known as Khe Prih. When Jagan Lal returned to Nepal, he began teaching Khe Prih to the children in his village of Hyanjakot. But Jagan Lal received a lot of threats from Kings of Nepal for teaching the children, but he did not budge. When he was about to be arrested, he ran away from Nepal, back to his duty in the Indian Army. Jagan Lal came back to Nepal in 1965, and immediately began lobbying for his beloved script. He taught many, but he made little progress in his lifetime. Despite Jagan Lal's efforts, Khe Prih was **never fully adopted** by the Gurung community, which was largely unaware of its existence. Gurung Khema is the most widely used script, although Khe Prih is older than Khema. Gurung Khema is much more popular, used in Nepal, India and various countries.

In 1977, the committee decided to develop a script, and Bal Narsingh Gurung, secretary of *Gurung Samaj Sudhar Samiti* was tasked with the responsibility. At that time, the committee wasn't aware about the *Khe Prih*, and Bal Narsingh, under the

supervision of Guru Pim Bahadur Gurung, developed the Gurung Khema. And presented in the first National General Convention of the Tamu Chonj Dhin was held in Kathmandu in 2052 BS (1995).

Gurung people call male ancestor as KHE, female ancestor as MA and they worship/pray KHE-MA from birth to till death. 'Phri' means 'script' or 'to write'. So the script is given the name 'KHEMA PHRI'. Since its development, the Gurung Khema has largely been adopted by the Gurung community. After that, Bhim Gurung, the founding chairman of The Central Committee of Nepal Tamu Vidyarthi Chonj Dhi and campaigner of Gurung language and Gurung Khema script, started teaching Gurung language and Gurung Khema by establishing Devdaha Mother Tongues Academy (school) in Devdaha, Nepal in 2053 BS (1996). In 1997, the Akhil Sikkim Gurung (Tamu) Buddha Sangha published the first textbook "Tamu Khye Lule" in Gurung Khema written by Gurung author Meghraj 'Kon' Tamu [see fig.5(a)]. For the first time in the year 2002, the teaching of Gurung and Khema was started in 2 government schools of Sikkim. A Gurung-Khema Educational Institution was also opened in Amale village, Gorkha, Nepal in 2018-19 but had to be closed after 6 months due to some reasons.

At present, 6 teachers in Devdaha Mother Tongues Academy (school), Nepal are teaching Gurung Khema to 150 students on a regular basis. At present, Gurung subject is being taught in the Khema in 40 government schools of Sikkim [see fig. 21]. And around 1970-2000 children have learned to read and write Gurung Khema from these Sikkim schools. 9 teachers and 9,000 participants in Gurung Khema Lipi Learning workshop of United States, 3 teachers and 189 students engaged in Gurung Khema Lipi Learning Virtual Workshop of Israel, more than 500 teachers teaching Gurung Khema through Gurung Khema Lipi workshops in Nepal.

Only one digitized font "KHEMA" (both in True Type and Open Type) available for Gurung Khema, was designed by Mohan Lal Gurung and Bipesh Gurung in the year 2055 BS (1999 AD) and revised in the year 2019. That font is used in the proposed code chart and names list.

3. Scripts

3.1 1995 - Creation

The original script consisted of 8 vowels, 8 vowel signs, 29 consonants and 10 digits. In 1995, Pim Bahadur Gurung assigned to each letter a distinctive name in the Gurung language and arranged them in the following order (later some letters and signs were reshaped and they are being highlighted with green): [see fig.3]

						V	OWELS						
স		অ		ঙ্গ		ত্		ক	<u> </u>	Ì	কুঁ		ञ्जै
amã		āmā̃		imã		umã		emã	aim	ā	omã		aumā̃
[a]		[a:]		[i],[i:]		[u],[u:]	[6	e],[eː]	[ai]	[o],[o:]		[au]
							vow	EL SIGN	S				
	ੋ		ំ		়		ំ	<u>.</u>		৾		៊	
										•	_	•	
	āmā		imā		umā		emā	ain		omi		aumā	
	[a:]		[i],[i:]		[u],[uː]] [6	e],[e:]	[a	i]	[0],[0	p:]	[au]	

CONSONANTS										
ਗ	க	য	যা	ই,						
kakhe	khakhe	gakhe	ghakhe	'nakhe						
[ka]	[kʰa]	[ga]	[gha]	[ŋa]						
য	<u> </u> আ	য়	য়া	νÚ						
cakhe	chakhe	jakhe	jhakhe	hakhe						
[tsa]	[ʦʰa]	[dza]	[dzʰa]	[ha]						
ਕ	বা	ব	বা	ष						
ṭakhe	ţhakhe	ḍakhe	фhакhе	wakhe						
[ta]	[tʰa]	[da]	[dʰa]	[wa]						
X	지	ৱ	ৱা	ন						
takhe	thakhe	dakhe	dhakhe	nakhe						
[ta]	[tʰa]	[da]	[dʰa]	[na],[ղa]						
٦	Ū	ঘ	থা	য						
pakhe	phakhe	bakhe	bhakhe	makhe						
[pa]	[pʰa]	[ba]	[bʰa]	[ma]						
য	ᅐ	ন	ঘ							
yakhe	rakhe	lakhe	sakhe							
[ja]	[ra]	[la]	[sa],[ʃa]							

0	Ġ	С	Э	U	Π	S	Ü
_		_	_	_	_	_	_

- U M 8 9 1 3 4
- Pim Bahadur had placed the letters m and s at the place of 'nya' and 'nna' according to the Brahmic order, which is still being taught in the same way today.
- Short and long form of vowels were expressed using single letter: তা /i,iː/, তা /u,uː/, তা /e,eː/, তাঁ /o,oː/

DIGITS

- Vowel length was not distinguished orthographically
- The letter ₹ was used for both /na/ and /na/

3.2 1997 - Expansion

In early 1997, Bal Narsingh Gurung added the following 6 various signs ($Lhom\tilde{a}$). ' $Lhom\tilde{a}$ ' means auxiliary letters. Using them is found in Megraj's book "Tamu Khye Lule" (1997):

	SIGN MEDIAL YA	SIGN MEDIAL VA	SIGN MEDIAL HA		sign medial ra	THOLHOMA
	yalhomã	walhomã	halhomã	lāĩlhomã	ralhomã	tholhomã
SIGNS	्	्	্ত	Š	्र	্

- **3.2.1 THOLHOMA:** The ্ THOLHOMA used only to kill the inherent vowel sound /a/ of the consonant letters as like halanta e.g, সূৰ্ফা 'Tāṅgā' Fish, অংক্লাগ্ল 'Lardida' Fight, etc.
- **3.2.2** Lāīlhomā: The $^{\circ}$ lāīlhomā is used for indicating nasalization. It is placed to the top of a base letter or atop of vowel sign. But due to the lack of Unicode standard font, it comes with vowel signs on top of the consonants, which makes it complex to look at and hard to read. The form of $^{\circ}$ is similar to that of U+030C COMBINING CARON. So it should be unified with U+030C.
- **3.2.3 MEDIAL SIGNS:** The Gurung Khema script has four medial signs whose details are given below. It is mainly pronounced after consonants. This eliminates the inherent sound of the consonants with which they will be written. All these three symbols are an integral part of Gurung Khema writing system and are used everywhere.
- o CONSONANT SIGN MEDIAL YA: when ℚ comes after a consonants, then this ℚ sign is written on the left side of the consonant:

```
<ক KA, ্ত CONSONANT SIGN MEDIAL YA >
   kya क्य
                                                                              क
khya ख्य
                                                                                                                                                                <কা KHA, ৄ CONSONANT SIGN MEDIAL YA >
                                                                              का
                                                                                                                                                                <য GA, ্ে CONSONANT SIGN MEDIAL YA >
     gya ग्य
                                                                              ্য
                                                                                                                                                                <য় CA, ্র CONSONANT SIGN MEDIAL YA >
     cya च्य
                                                                              ্য
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       tva त्य
                                                                              X
                                                                                                                                                                <∀ MA, [ CONSONANT SIGN MEDIAL YA >
   mya म्य
```

o **CONSONANT SIGN MEDIAL VA:** when $\[mathbb{I}\]$ comes after a consonants, then this $\[mathbb{I}\]$ sign is written on the left side of the consonant:

```
kva 季
                    <ক KA, ্ত CONSONANT SIGN MEDIAL VA>
         क्
khva ख्व
                    <কা KHA, ্র CONSONANT SIGN MEDIAL VA >
         का
                    <ঘ GA, ্র CONSONANT SIGN MEDIAL VA >
qva ग्व
         ্য
                    <য় CA, ্র CONSONANT SIGN MEDIAL VA >
         ্য
cva च्व
tva त्व
                    <⊼ TA, IQ CONSONANT SIGN MEDIAL VA >
         K
                    <∀ MA, I CONSONANT SIGN MEDIAL VA >
mva म्ब
```

o **CONSONANT SIGN MEDIAL HA:** This ্য sign is written in Gurung words after vowels, consonants and medial signs e.g, তাল্লা 'Ańdńā' Half, হাঁচাং 'Tinhora' Inside, etc.

If a consonant is accompanied by a ্য CONSONANT SIGN MEDIAL HA and is followed by ্ THOLHOMA and ঁ lāĩlhomã, then ্ THOLHOMA and ঁ lāĩlhomã sign will sit beneath and top of that consonant. e.g,

```
kh ब्ह क्ः <क KA, ः CONSONANT SIGN MEDIAL HA, ् THOLHOMA >
khã ब्हें कें: <क KA, ः CONSONANT SIGN MEDIAL HA, े lāilhomã >
```

Three Signs like $\[mu, \[mu, \]$ do not come together in the same consonant. But the sign $\[mu]$ can be written with any other Medial. Due to which the orthography of two different phonemes is the same, but native Gurung speakers can easily understand which phoneme is while reading it. *Vowel signs, Tholhoma and lãilhomã may also accompany these (given below).*

```
khya महा < फ्राः > kyha म्प्रः
khva महन < फ्राः > kvha म्प्रः
khra मह
```

Consonant Sign Medial Ra: when o comes after a consonant, then this o sign is written on the left side of the 0 consonant. The form of o is similar to that of U+032D COMBINING CIRCUMFLEX ACCENT BELOW. So it should be unified with U+032D:



3.3 2000 - Reshaped Old forms

By the turn of the 2000, 3 vowels, 9 consonants and 3 vowel signs were revamped from the old forms by Bal Narsingh Gurung. All of them are being used in this form till now:

		VOWELS SIG	GNS	<u>ন</u> 	<u>জু</u>	端			
				umā̃	omã	aumã			
				U	0	AU			
CONSONANTS	$\overline{\mathbf{m}}$	ह	I	Б	চা	ヌ	দ	딦	হ
	hakhe	wakhe	nakhe	pakhe	phakhe	makhe	yakhe	lakhe	sakhe
	НА	VA	NA	PA	PHA	MA	YA	LA	SA

3.4 Variant forms of characters

Sikkim Herald used some alternative letters and signs in its Gurung edition. The letters and symbols used in the Sikkim Herald are no longer used; it was only seen on this newspaper. All these letters and symbols were last seen in its final version dated 24 July 2009 and have not been used anywhere else since then. These are not proposed because they have not been used anymore in the new edition of Sikkim Herald which has been published recently, dated 26 Jan 2022. [see fig 1 & 19]



Fig 1: all photos taken from various portion of a Sikkim Herald

Another form of virama _ we found only on the banner of 'Tanahun Bandipur Chhimkeswori Tamu Society Kathmandu', which is not used anywhere else. This is not proposed in this proposal and will not be proposed in future.





 In the Sikkim Herald, we found glyphic variations in some letters due to different font. These letters also not accepted by the users:

3.5 2019 - Revision

In 2019, 4 vowels and 4 vowel signs were included in the Gurung Khema for writing long sounds, suggested by 'The International Tamu Conference 2019'. And this was the last time the Gurung Khema was revised. That conference was organized by The National Council House of Tamu held in Kathmandu. [see fig.8]

VOWELS	ॲ	렼	उँ	흨
VOWEL SIGNS	ំ	ី	ឺ	ే
	īmã	ūmã	ēmã	ōmã
	[i:]	[uː]	[eː]	[oː]

- vowel sign *īmā* having similarity in shape with Sikkim Herald's " *ūmā* sign
- Separate letters for long vowels: ਕੰ /iː/, ਕਂ /uː/, ਕਂ /eː/, ਕਂ /oː/
- Short vowels can also used to indicate long sounds: তাঁ /i,i:/, তাঁ /u,u:/, তাঁ /e,e:/, তাঁ /o,o:/

4 Vowel Length Mark

The Vowel Length mark doubles the sound of vowels. It does not exist in the script on its own, but it is needed for decomposition of VOWEL SIGN UU , VOWEL SIGN EE and VOWEL SIGN OO .



5 Usage

Gurung has been one of the official local languages of Sikkim, since 1995. Government records were mentioned and newspapers were published in the script. *Central Board of Secondary Education* of India, which conducts 10th and 12th examinations in all schools across India. In the academic session 2015-16, Gurung language was included in the curriculum and given a code of 132 (*Jagranjosh*, February 11, 2015)^[19]. Since the Gurung subject examination is being conducted every year which is written in the Gurung Khema all over the India. In January 2021, the Sikkim government mandated that staterun schools provide education to students in the state's primary language and in 11 local languages (*The Economic Times*, January 29, 2021)^[18], Gurung being one of them.

Gurung Khema is currently used in writing and print for various purposes, as described below:

- Educational Materials: Elementary and upper primary educational material for learning Gurung and Gurung Khema is published by the Government of Sikkim. Examples of two school books are রেট কঃইন্ড ক্রিজ আমার 'Tamu Khayui Lule vol.I' (2006), নঃট্রু বার্ছার্র বার্ছার্র বার্ছার্র বার্ছার্র বার্ছার্র বার্ছার্র মার্ছার্র বার্ছার্র মার্ছার্র বার্ছার্র মার্ছার্র মার্ছার্য মার্হার মার্ছার্য মার্ছার্য মার্হার মার্ব Gurung primer written in this script by Bhim Gurung which was originally taught in Devdaha Mother Tongues Academy (school), Nepal. [13] Central Board of Secondary Education (CBSE) of India conducting Gurung Board Examination for class 10th since 2015. Sample paper of Gurung (session 2021-22)[21] [see fig.16] and set-4 question paper of session 2016-17 of Class 10th attached in this proposal.[see fig.16]^[20]
- Newspaper: A Gurung edition of the Sikkim Herald (ప్రైవేధి के क्रिया) was produced in Gurung Khema. The newspaper was first published in July 16, 2001 edited by Pradeep Gurung. He was later promoted from his editorial position and stepped down. And with no successor to continue the edition, no more was published since July 24, 2019. But Bidur Gurung appointed as the new editor in early 2022. And Sikkim Herald republished on January 26, 2022. That is written in same font which is used in this proposal. [see fig.18(a), 18(b)] [see fig.19]
- Ephemera: Tamu Hyul Cõj Dhĩ Gurung Rāṣṭriya Pariṣad (The National Council House of Tamu) produces and distributes calendars using Gurung Khema. [see fig.25]
- Linquistic works: 'Sigre Cõ Thố Pe Chogi' នំងុំ តំ ব្កក់ ចំ តាំង written in both Gurung and Nepali for to learn Gurung Khema.
- Other usage: People are using the Gurung Khema in their rituals, entrance gate, movie poster, tombstone, etc. [see fig.20]
- Literary Works: Anthologies of Gurung poetry and songs are printed in the book of 'Ādhī Layã' ភានាំ ៤។ by Lokbahādur Gurung. [see fig.14][27]
- Digital Resources: A digitized font for the script named 'Khema' was developed by Mohanlal Gurung and Bipesh Gurung. It is based upon a non-Unicode encoding and is mapped to Latin letters. The font is used in this proposal. An Android Application 'Khema Lipi ਨੀਂਨ ਘਿੱਠ -Type Tamu' is available in Google Playstore. It is based upon a non-Unicode encoding. [see fig.15] [6]
- Workshops: Many workshops still conducting by the various Gurung associations throughout the years in Nepal, in India and in other countries also. Khemālipi Tālim কাঁস আঁচ সেজৈ া is the yearly workshop, conducted in several parts of all over the Nepal and Sikkim. [see fig.23]

6 **Proposed Unicode Repertoire**

The proposed Unicode repertoire for 'Gurung Khema' contains of 56 characters: 1 vowel, 29 consonants, 11 vowel signs, 5 various signs and 10 digits.

5.1 Vowel

Glyph	Unicode Character name	Name
অ	GURUNG KHEMA VOWEL A	amã

VOWEL LETTER A তা functions as a vowel carrier. Other vowels are represented as dependent signs. Independent forms of other vowels are produced by writing dependent vowel signs with this letter.

5.2 Consonants

There are 29 consonants letters:

Glyph	Unicode Character name	Name
ਗ	GURUNG KHEMA CONSONANT KA	kakhe
கு	GURUNG KHEMA CONSONANT KHA	khakhe
য	GURUNG KHEMA CONSONANT GA	gakhe
যা	GURUNG KHEMA CONSONANT GHA	ghakhe
ই,	GURUNG KHEMA CONSONANT NGA	ṅakhe
য	GURUNG KHEMA CONSONANT CA	cakhe
আ	GURUNG KHEMA CONSONANT CHA	chakhe
য়	GURUNG KHEMA CONSONANT JA	jakhe
য়া	GURUNG KHEMA CONSONANT JHA	jhakhe
$\overline{\mathbf{m}}$	GURUNG KHEMA CONSONANT HA	hakhe
द	GURUNG KHEMA CONSONANT TTA	ţakhe
বা	GURUNG KHEMA CONSONANT TTHA	ţhakhe
ব	GURUNG KHEMA CONSONANT DDA	ḍakhe
বা	GURUNG KHEMA CONSONANT DDHA	ḍhakhe
ह	GURUNG KHEMA CONSONANT VA	wakhe
X	GURUNG KHEMA CONSONANT TA	takhe
지	GURUNG KHEMA CONSONANT THA	thakhe
ৱ	GURUNG KHEMA CONSONANT DA	dakhe
ৱা	GURUNG KHEMA CONSONANT DHA	dhakhe
I	GURUNG KHEMA CONSONANT NA	nakhe
Б	GURUNG KHEMA CONSONANT PA	pakhe
চা	GURUNG KHEMA CONSONANT PHA	phakhe
ঘ	GURUNG KHEMA CONSONANT BA	bakhe
থা	GURUNG KHEMA CONSONANT BHA	bhakhe
ア	GURUNG KHEMA CONSONANT MA	makhe
দ	GURUNG KHEMA CONSONANT YA	yakhe
ҳ	GURUNG KHEMA CONSONANT RA	rakhe
ᅜ	GURUNG KHEMA CONSONANT LA	lakhe
₹,	GURUNG KHEMA CONSONANT SA	sakhe

5.3 Vowel Signs

There are 11 dependent vowel signs:

Glyph	Unicode Character name	name
্	GURUNG KHEMA VOWEL SIGN AA	āmā
Č	GURUNG KHEMA VOWEL SIGN I	imā
ំ	GURUNG KHEMA VOWEL SIGN II	īmā
ੂ	GURUNG KHEMA VOWEL SIGN U	umā
៊ី	GURUNG KHEMA VOWEL SIGN UU	ūmā
ំ	GURUNG KHEMA VOWEL SIGN E	emā
៉ំ	GURUNG KHEMA VOWEL SIGN EE	ēmā
៉	GURUNG KHEMA VOWEL SIGN AI	aimā
៊ី	GURUNG KHEMA VOWEL SIGN O	omā
៊ី	GURUNG KHEMA VOWEL SIGN OO	ōmā
Ӧ	GURUNG KHEMA VOWEL SIGN AU	aumā

These vowel signs are used with VOWEL LETTER A তা or with consonants. These should all be encoded atomically. This is because linguistically these vowels are not composed of two separate characters; they are single vowels in their own right.

5.4 Various Signs

Glyph	Unicode Character name	name
्	GURUNG KHEMA CONSONANT SIGN MEDIAL YA	yalhomã
्	GURUNG KHEMA CONSONANT SIGN MEDIAL VA	walhomã
ः	GURUNG KHEMA CONSONANT SIGN MEDIAL HA	halĥomā
্	GURUNG KHEMA SIGN THOLHOMA	tholhomã
ី	GURUNG KHEMA VOWEL LENGTH MARK	

5.5 Digits

There is full set of decimal digits: O ZERO, \$\frac{1}{2}\$ ONE, C TWO, D THREE, U FOUR, O FIVE, S SIX, U SEVEN, O EIGHT, W NINE. [see fig.11(a) & 12]

5.6 Punctuation

Gurung Khema uses double danda (||) for punctuation. This should be unified with the corresponding Devanagari character U+0965. There are no script-specific punctuation marks. Latin marks, such as : . ,<> ; _" () ?\ / - and ! are used. [see fig.13]

6. Decompositions

To avoid confusion, a single code point which appears after the base consonant and vowel carrier should be assigned to this combination of code points that form a single two part vowel sign. The canonical decomposition information for the rendering engines is as follows:

character	glyph								
SIGN UU	₫	៑	SIGN AA	+	ី	LENGTH MARK			
SIGN E	ំ	Ӧ	SIGN AA	+	ំ	SIGN I			
SIGN EE	ឺ	ំ	SIGN I	+	ី	LENGTH MARK			
SIGN AI	ំ	⋾	SIGN AA	+	ំំ	SIGN II			
SIGN O	៊ី	ੂ	SIGN U	+	ំ	SIGN I			
SIGN OO	୕୕	Ō	SIGN AA	+	ំ	SIGN I	+	ី	LENGTH MARK
SIGN AU	૿૽	ੂ	SIGN U	+	ំំ	SIGN II			

7. Collation

The collation order is as follows:

< সা A< কা KA< কা KHA < আ GA < আ GHA < আ NGA < আ CA < আ CHA < আ JA < আ JHA < শ HA < বা tha < বা dda < বা ddha < ছ va < মা tha < হা da < হা dha < মা na < БРА < БРНА < ЧВА < ЧВНА < УМА < ЧЧА < ЧКА < ЧКА < БІGN AA < ŠIGN I < ° SIGN II < □ SIGN U < □ SIGN U < □ SIGN E < □ SIGN E < □ SIGN AI < □ SIGN O < □ SIGN O < □ SIGN O < [○ CONSONANT SIGN MEDIAL YA < [○ CONSONANT SIGN MEDIAL VA < ○ CONSONANT SIGN MEDIAL HA < ○ THOLHOMA < ੋਂ vowel length mark < 0 digit zero < ∫ digit one < C digit two < 3 digit three < U digit four < ∩ digit FIVE < S DIGIT SIX < U DIGIT SEVEN < \(\Omega \) DIGIT EIGHT < \(\Walksymbol{\psi} \) DIGIT NINE

8. Acknowledgements

I would like to thank Resham Gurung, Bhim Gurung, Dhan man Gurung and all the members associated with The National Council House of Tamu who helped in drafting this proposal. And at the same time I would also like to thank Tilak Gurung for giving me all the Gurung school books. I would like to thank Pradeep Gurung (Sikkim) for describing the Gurung edition of the Sikkim Herald. I also thank Rupraj Gurung (Sikkim) for informing about the current use of Khema in Sikkim.

I would especially like to thank Dev Kumar Sunuwar who got me in touch with The National Council House of Tamu. I would like to thank Anshuman Pandey for allowing me to take this project forward.

I would like to thank Debbie Anderson, Jan Kučera and Anshuman Pandey for their guidance and valuable suggestions for this proposal.

9. Character Data

9.1 Character Properties

In the format of UnicodeData.txt:

```
16100; GURUNG KHEMA LETTER A; Lo; O; L;;;;; N;;;;;
16101; GURUNG KHEMA LETTER KA; Lo; 0; L;;;;; N;;;;;
16102; GURUNG KHEMA LETTER KHA; Lo; 0; L;;;;; N;;;;
16103; GURUNG KHEMA LETTER GA; Lo; O; L;;;;; N;;;;;
16104; GURUNG KHEMA LETTER GHA; Lo; O; L;;;;; N;;;;;
16105; GURUNG KHEMA LETTER NGA; Lo; O; L;;;;; N;;;;
16106; GURUNG KHEMA LETTER CA; Lo; 0; L;;;;; N;;;;
16107; GURUNG KHEMA LETTER CHA; Lo; 0; L;;;;; N;;;;;
16108; GURUNG KHEMA LETTER JA; Lo; O; L;;;;; N;;;;;
16109; GURUNG KHEMA LETTER JHA; Lo; O; L;;;;; N;;;;;
1610A; GURUNG KHEMA LETTER HA; Lo; O; L;;;;; N;;;;
1610B;GURUNG KHEMA LETTER TTA;Lo;O;L;;;;;N;;;;
1610C; GURUNG KHEMA LETTER TTHA; Lo; O; L;;;;; N;;;;;
1610D; GURUNG KHEMA LETTER DDA; Lo; 0; L;;;;; N;;;;;
1610E; GURUNG KHEMA LETTER DDHA; Lo; O; L;;;;; N;;;;;
1610F;GURUNG KHEMA LETTER VA;Lo;O;L;;;;;N;;;;
16110; GURUNG KHEMA LETTER TA; Lo; O; L;;;;; N;;;;;
16111; GURUNG KHEMA LETTER THA; Lo; O; L;;;;; N;;;;;
16112; GURUNG KHEMA LETTER DA; Lo; O; L;;;;; N;;;;
16113; GURUNG KHEMA LETTER DHA; Lo; 0; L;;;;; N;;;;;
16114; GURUNG KHEMA LETTER NA; Lo; 0; L;;;;; N;;;;;
16115; GURUNG KHEMA LETTER PA; Lo; O; L;;;;; N;;;;;
16116; GURUNG KHEMA LETTER PHA; Lo; 0; L;;;;; N;;;;;
16117; GURUNG KHEMA LETTER BA; Lo; O; L;;;;; N;;;;
16118; GURUNG KHEMA LETTER BHA; Lo; 0; L;;;;; N;;;;;
16119; GURUNG KHEMA LETTER MA; Lo; O; L;;;;; N;;;;;
1611A;GURUNG KHEMA LETTER YA;Lo;O;L;;;;;N;;;;
1611B;GURUNG KHEMA LETTER RA;Lo;O;L;;;;;N;;;;;
1611C;GURUNG KHEMA LETTER LA;Lo;O;L;;;;;N;;;;
1611D; GURUNG KHEMA LETTER SA; Lo; O; L;;;;; N;;;;;
1611E; GURUNG KHEMA VOWEL SIGN AA; Mn; O; NSM;;;;; N;;;;;
1611F;GURUNG KHEMA VOWEL SIGN I;Mn;O;NSM;;;;;N;;;;
16120; GURUNG KHEMA VOWEL SIGN II; Mn; 0; NSM;;;;; N;;;;;
16121; GURUNG KHEMA VOWEL SIGN U; Mn; O; NSM; ; ; ; ; N; ; ; ;
16122; GURUNG KHEMA VOWEL SIGN UU; Mn; 0; NSM; 1611E 1612D; ; ; ; N; ; ; ;
16123; GURUNG KHEMA VOWEL SIGN E; Mn; 0; NSM; 1611E 1611F; ;; ; N; ;; ;
16124; GURUNG KHEMA VOWEL SIGN EE; Mn; 0; NSM; 1611F 1612D; ; ; ; N; ; ; ;
16125; GURUNG KHEMA VOWEL SIGN AI; Mn; 0; NSM; 1611E 16120; ; ; ; N; ; ; ; ;
16126; GURUNG KHEMA VOWEL SIGN 0; Mn; 0; NSM; 16121 1611F; ;; ; N; ;; ;
16127; GURUNG KHEMA VOWEL SIGN 00; Mn; 0; NSM; 1611E 1611F 1612D;;;; N;;;;;
16128; GURUNG KHEMA VOWEL SIGN AU; Mn; 0; NSM; 16121 16120; ; ; ; N; ; ; ;
16129; GURUNG KHEMA CONSONANT SIGN MEDIAL YA; Mc; 0; L;;;; N;;;;
1612A; GURUNG KHEMA CONSONANT SIGN MEDIAL VA; Mc; 0; L;;;;; N;;;;;
1612B;GURUNG KHEMA CONSONANT SIGN MEDIAL HA;Mc;O;L;;;;;N;;;;;
1612C;GURUNG KHEMA SIGN THOLHOMA;Mn;9;NSM;;;;;N;;;;;
1612D; GURUNG KHEMA VOWEL LENGTH MARK; Mn; O; NSM; ; ; ; ; ; ; ;
1612E; < RESERVE>
1612F; < RESERVE>
16130; GURUNG KHEMA DIGIT ZERO; Nd; O; L; ; O; O; O; N; ; ; ; ;
16131; GURUNG KHEMA DIGIT ONE; Nd; 0; L; ; 1; 1; 1; N; ; ; ;
16132; GURUNG KHEMA DIGIT TWO; Nd; O; L;; 2; 2; 2; N;;;;;
16133; GURUNG KHEMA DIGIT THREE; Nd; O; L; ; 3; 3; 3; N; ; ; ; ;
16134; GURUNG KHEMA DIGIT FOUR; Nd; 0; L; ; 4; 4; 4; N; ; ; ;
16135; GURUNG KHEMA DIGIT FIVE; Nd; O; L; ; 5; 5; 5; N; ; ; ; ;
16136; GURUNG KHEMA DIGIT SIX; Nd; 0; L; ; 6; 6; 6; N; ; ; ;
16137; GURUNG KHEMA DIGIT SEVEN; Nd; O; L; ; 7; 7; 7; N; ; ; ;
16138; GURUNG KHEMA DIGIT EIGHT; Nd; 0; L; ; 8; 8; 8; N; ; ; ; ;
16139;GURUNG KHEMA DIGIT NINE;Nd;0;L;;9;9;9;N;;;;;
```

9.2 Linebreaking

In the format of LineBreak.txt:

```
16100..1611D ; AL # [30] GURUNG KHEMA LETTER A .. GURUNG KHEMA LETTER SA
                   # [11] GURUNG KHEMA VOWEL SIGN AA .. GURUNG KHEMA VOWEL SIGN AU
1611E..16128 ; CM
16129...1612B ; SA # [03] GURUNG KHEMA CONSONANT SIGN MEDIAL YA .. GURUNG KHEMA CONSONANT SIGN MEDIAL HA
            ; CM #
1612C
                           GURUNG KHEMA SIGN THOLHOMA
            ; CM #
1612D
                             GURUNG KHEMA VOWEL LENGTH MARK
16130..16139 ; NU # [10] GURUNG KHEMA DIGIT ZERO .. GURUNG KHEMA DIGIT NINE
```

9.3 Syllabic Categories

In the format of IndicSyllabicCategory.txt:

```
# Indic_Syllabic_Category=Pure_Killer
```

; Pure_Killer # Mn GURUNG KHEMA SIGN THOLHOMA

Indic_Syllabic_Category=Vowel_Dependent

1611E..16128 ; Vowel_Dependent # Mn [11] GURUNG KHEMA VOWEL SIGN AA .. GURUNG KHEMA VOWEL SIGN AU

; Vowel_Dependent # Mn GURUNG KHEMA VOWEL LENGTH MARK

Indic_Syllabic_Category=Consonant_Placeholder

; Consonant_Placeholder # Lo GURUNG KHEMA VOWEL A

Indic_Syllabic_Category=Consonant

16101..1611D ; Consonant # Lo [29] GURUNG KHEMA LETTER KA .. GURUNG KHEMA LETTER SA

Indic_Syllabic_Category=Consonant_Medial

16129...1612B ; Consonant_Medial # Mc [03] GURUNG KHEMA CONSONANT SIGN MEDIAL YA .. GURUNG KHEMA CONSONANT SIGN MEDIAL HA

Indic_Syllabic_Category=Number

16130..16139 ; Number # Nd [10] GURUNG KHEMA DIGIT ZERO .. GURUNG KHEMA DIGIT NINE

9.4 Positional Categories

In the format of IndicPositionalCategory.txt:

```
# Indic_Positional_Category=Left
```

16129..1612A ; Left # Mc [02] GURUNG KHEMA CONSONANT SIGN MEDIAL VA .. GURUNG KHEMA CONSONANT SIGN MEDIAL VA

Indic_Positional_Category=Right

; Right # Mc GURUNG KHEMA CONSONANT SIGN MEDIAL YA 1612B

Indic_Positional_Category=Top

1611E...16128 ; Top # Mc [11] GURUNG KHEMA VOWEL SIGN AA .. GURUNG KHEMA VOWEL SIGN AU

Indic_Positional_Category=Top

1612D ; Top # Mc GURUNG KHEMA VOWEL LENGTH MARK

Indic_Positional_Category=Bottom

; Bottom # Mn GURUNG KHEMA SIGN THOLHOMA

	1610	1611	1612	1613
0	স	ス	ំ	0
1	ਨ	ス	ื	Ş
2	க	অ	୕ୗ	С
3	ন্ন	ৱ্য	৾)
4	ন্ন	H	ឺ	J
5	ļα '	Б	ঁ	\cap
6	নি	o	≗	S
7	ন্ন	Ø	ា	כ
8	ন্ম	থা	≗	C
9	গ্ৰা	Y	្	\mathbb{V}
Α	3	7	्	
В	Ŋ	К	ः	
С	दा	Б	্	
D	ਧ	ন্ত্ৰ	ី	
E	বা	ा		
F	ĕ7	ំ		

Independent Vowel

16100 정 GURUNG KHEMA LETTER A

Also used as a vowel carrier

Consonants

16101 GURUNG KHEMA LETTER KA ਗ 16102 GURUNG KHEMA LETTER KHA 16103 GURUNG KHEMA LETTER GA য 16104 যা **GURUNG KHEMA LETTER GHA** 16105 হ GURUNG KHEMA LETTER NGA 16106 GURUNG KHEMA LETTER CA য 16107 আ **GURUNG KHEMA LETTER CHA** GURUNG KHEMA LETTER JA 16108 য় 16109 য়া **GURUNG KHEMA LETTER JHA** 1610A ന GURUNG KHEMA LETTER HA 1610B द **GURUNG KHEMA LETTER TTA** 1610C **GURUNG KHEMA LETTER TTHA** दा 1610D ব GURUNG KHEMA LETTER DDA 1610E GURUNG KHEMA LETTER DDHA বা 1610F GURUNG KHEMA LETTER VA 16110 X **GURUNG KHEMA LETTER TA** 지 16111 **GURUNG KHEMA LETTER THA** 16112 GURUNG KHEMA LETTER DA 16113 GURUNG KHEMA LETTER DHA ৱা 16114 I GURUNG KHEMA LETTER NA 16115 Б GURUNG KHEMA LETTER PA 16116 চা **GURUNG KHEMA LETTER PHA** 16117 থ GURUNG KHEMA LETTER BA 16118 থা GURUNG KHEMA LETTER BHA 16119 У GURUNG KHEMA LETTER MA 1611A ٦ GURUNG KHEMA LETTER YA र GURUNG KHEMA LETTER RA 1611B 1611C GURUNG KHEMA LETTER LA ᄺ ₹ 1611D **GURUNG KHEMA LETTER SA**

Dependent Vowel Signs

1611E	⋾	GURUNG KHEMA VOWEL SIGN AA
1611F	ំ	GURUNG KHEMA VOWEL SIGN I
16120	៉	GURUNG KHEMA VOWEL SIGN II
16121	ੋ	GURUNG KHEMA VOWEL SIGN U
16122	ី	GURUNG KHEMA VOWEL SIGN UU
		≡ 1611E ੋ 1612D ੋਂ
16123	ំ	GURUNG KHEMA VOWEL SIGN E
		≡ 1611E ○ 1611F Ů
16124	ឺ	GURUNG KHEMA VOWEL SIGN EE
		≡ 1611F ਂ 1612D ਂ
16125	៉	GURUNG KHEMA VOWEL SIGN AI
	•	≡ 1611E ○ 16120 °
16126	៊ំ	GURUNG KHEMA VOWEL SIGN O
		≡ 16121
16127	ឺ	GURUNG KHEMA VOWEL SIGN OO
		≡ 1611E ੋ 1611F ំ 1612D ੋਂ

16128 GURUNG KHEMA VOWEL SIGN AU ≡ 16121 ៑ 16120 ៉

Various Signs

16129 ្រ GURUNG KHEMA CONSONANT SIGN MEDIAL YA 1612A ழ GURUNG KHEMA CONSONANT SIGN MEDIAL VA 1612B ଃ GURUNG KHEMA CONSONANT SIGN MEDIAL HA 1612C GURUNG KHEMA SIGN THOLHOMA = virama

1612D GURUNG KHEMA VOWEL LENGTH MARK

Digits

16130	0	GURUNG KHEMA	DIGIT ZERO
16131	Ś	GURUNG KHEMA	DIGIT ONE
16132	С	GURUNG KHEMA	DIGIT TWO
16133	Э	GURUNG KHEMA	DIGIT THREE
16134	U	GURUNG KHEMA	DIGIT FOUR
16135	Π	GURUNG KHEMA	DIGIT FIVE
16136	S	GURUNG KHEMA	DIGIT SIX
16137	Ü	GURUNG KHEMA	DIGIT SEVEN
16138	U	GURUNG KHEMA	DIGIT EIGHT
16139	W	GURUNG KHEMA	DIGIT NINE

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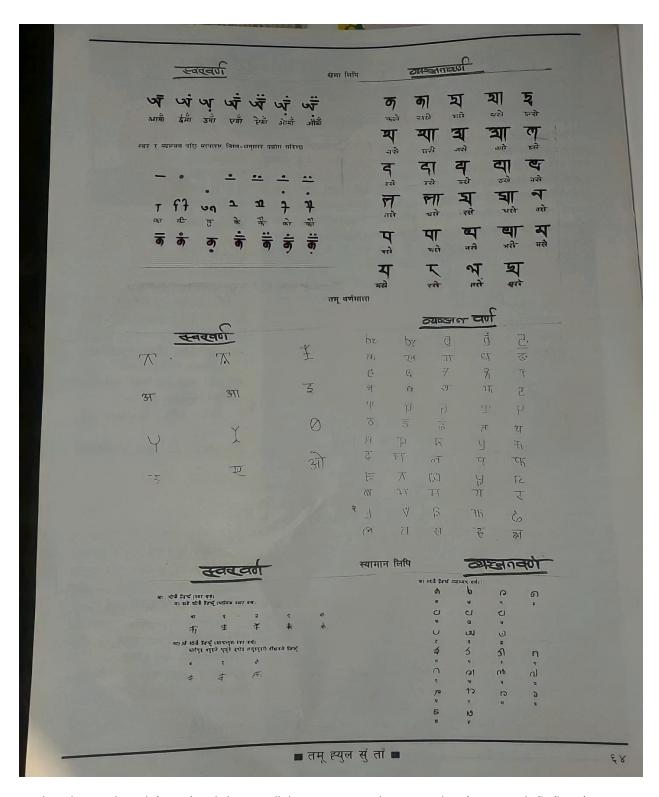


Fig 2: In this, Khema, Khe Prih (Tamu) and Shaman all three scripts are shown together. (Tamū Hyul Sũ Tã : 65)

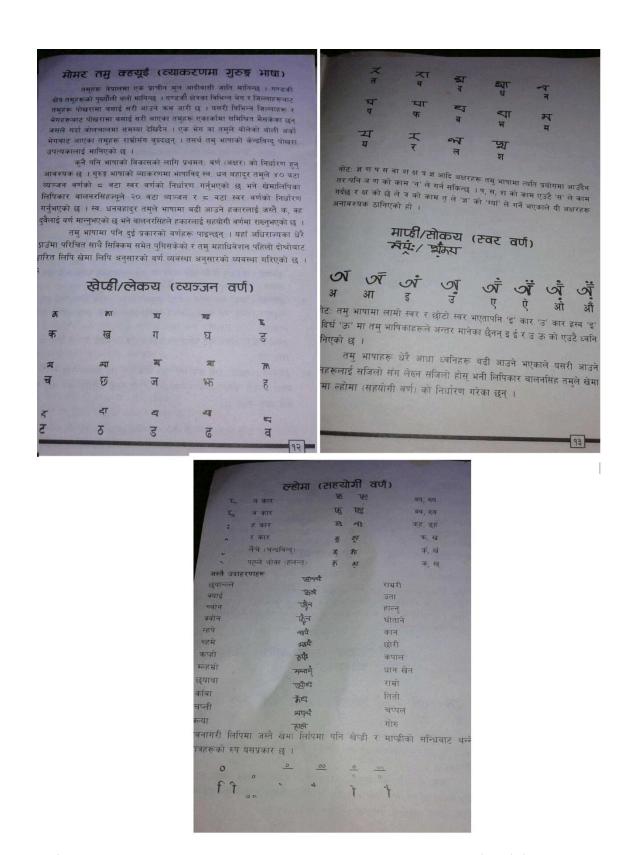


Fig 3: It featured the Khema script prepared by Pim Bahadur Gurung in its initial phase (1995). (Courtesy: Facebook)

7.8 Khema Script of Gurungs:

The Gurung language is written in Khema script and taught in the schools up to the primary level of education since the recognition

প্ৰ প্ৰ	~ ~	9	র	~ 항	
ক অ	ন আ	দ্ৰ মুখ	দ্ৰা ৰা	<u>∓</u> ,~77	
ママスワー	दा ग्रा पा	গ্ৰ	গ্ৰা	- र्घ य य	
গ ০	て i c	শ	ध्य US		၈ ယ

of Gurung language as one of the official languages of Sikkim in 1997. It is yet to be ascertained who, where and when the Khema script was developed. majority of Gurung experts suggest that script the developed in Nepal from the Sambhota Tibetan script, but looking at the form of the letters, the script has strong influences of both. the

Devnagari and Sambhota Tibetan scripts. In any case, the script was perhaps developed based on Brahmi script after the development of Sambhota and Devnagari scripts. The Khema script has the characters of both Sambhota and Devnagari scripts.

The Khema script of Gurungs has 7 vowels (a, e, u, i, ii, o, au), 7 vowel signs (aa, e, u, i, ii, o, au) and 29 consonants (same as Devnagari post-fixed with "khe"). The alphabets are the same as those of Devnagari but the vowels are read with post-fixed "ma" while the consonants post-fixed with "khe" (Gurung, Meghraj in Lipi Sangalo (ed) by Limboo, R.B. 1998: 63-68).

Fig 4: It shows the Khema script used in early times (1997). (from Subba 2008:97)

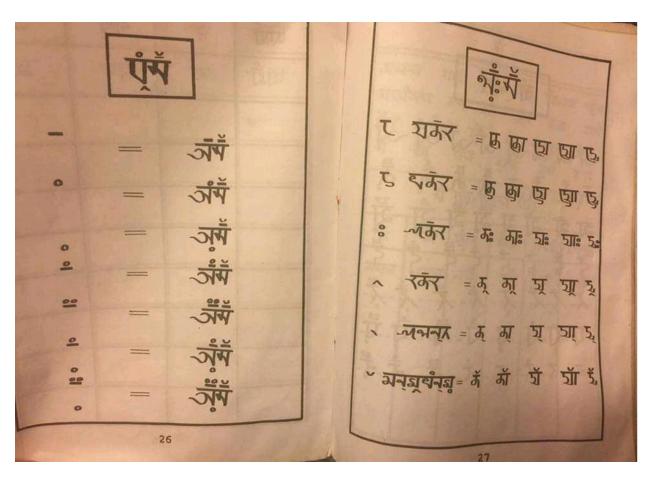


Fig 5(a): It shows to the first handwritten textbook "Tamu Khye Lule" (1997) by Megraj 'Kon' Tamu in which Lhomã was included in a book for the first time after Bal Narsingh Gurung included them in Khema.

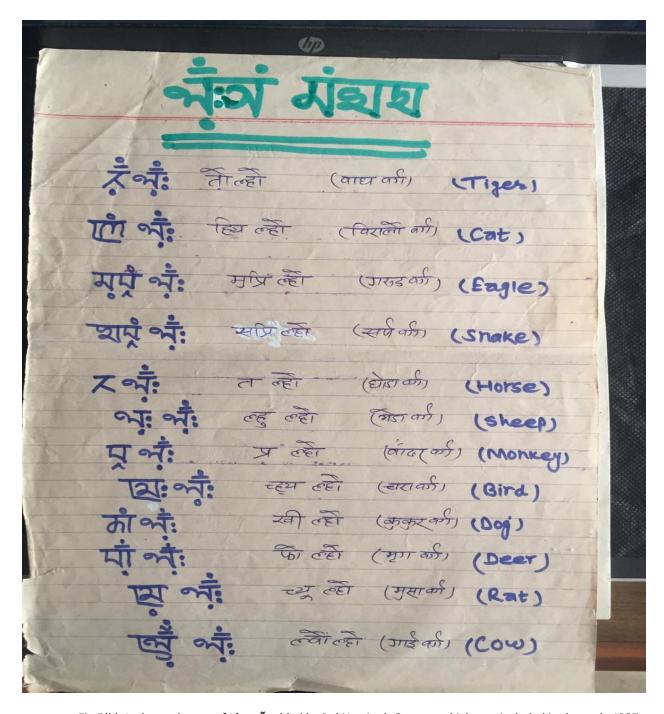


Fig 5(b): It shows the use of Lhomã added by Bal Narsingh Gurung, which was included in the early 1997.

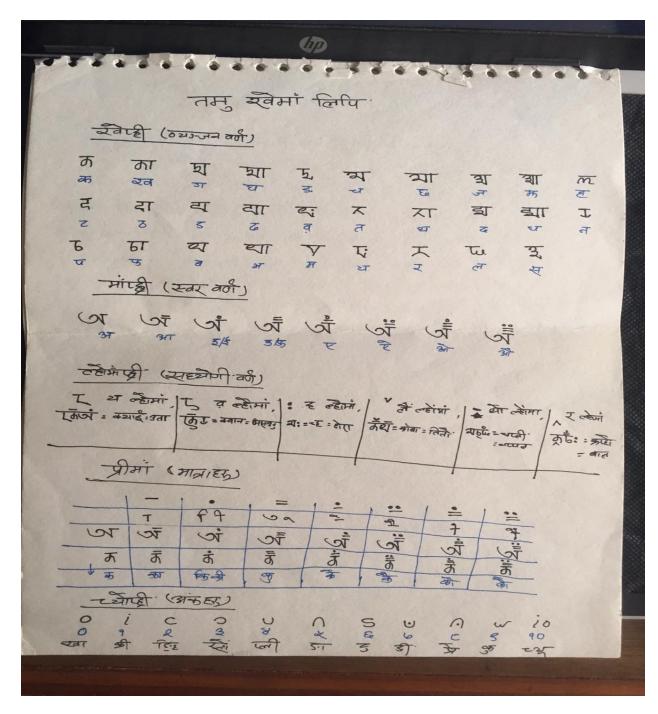


Fig 6: It features some of the letters and symbols reshaped by Bal Narsingh Gurung in the late 2000s, which is still being used.

खेमा प्ह्री लुब (सिक्ने तरिका)

ਗ	கா	য	আ	হ
कखे	खखे	गखे	घखे	ङखे
য	আ	য়	য়া	$\overline{\mathbf{w}}$
चखे	छखे	जखे	भ्रखे	हखे
ਕ	বা	ব	বা	ह्यं
टखे	ठखे	डखे	ढखे	वखे
ス	지	ৱ	ৱা	I
तखे	थखे	दखे	धखे	नखे
Б	চা	ঘ	ঘা	Y
पखे	फखे	बखे	भखे	मखे
দ	ᅐ	অ	3 .	
यखे	रखे	लखे	सखे	

76

Fig 7: The entire Khema letters are shown along with their pronunciation. Later in 2019 some more characters were added. (from Tamu, Gurung 2003:76)

⊽ँठ्रः माप्ही (स्वरवर्ण)

স	ত্ৰ	ঙ্গ	ॲं	콬	묽	ক্র	췽	জঁ	জঁ	릚	흙
अमाँ	आमाँ	इमाँ	ईमाँ	उमाँ	ऊमाँ	एमाँ	एःमाँ	ऐमाँ	ओमाँ	ओःमाँ	औमा

खेमालिपि अर्न्तराष्ट्रिय गोष्ठी २०७६ वाट थिपएका स्वरवर्णहरु ॐ - ईमाँ,हेंगो 'ई' । जैं - ऊमा, हेंगो 'ऊ' ॐ - ए:माँ, हेंगो 'ए' । जैं - ओ:मा, हेंगो 'ओ'

ूंठ्र प्रीमा (मात्रा)

স	ত্র	ঙ্গ	अँ	今	岗	জঁ	췽	흥 ::	ঞ	흻	端 **
	-	0	00	=	=	<u>•</u>	<u></u>	<u>° °</u>	Ě	≅	=
க	ਗ	க்	ਲੈਂ	툸	붊	कै	ਲੈ	ੜੈ	ਗ਼ੈ	ਲੈ	ੜੈ
क	का	कि	की	कु	कू	के	केए	कै	को	कोओ हीं	कौ
கு	ਗ	க்	கீ	क्री	र्मी	काँ	कौ	कौं	कौं	ਗੈਂ	कौं
ख	खा	खि	खी	खु	खू	खे	खेए	खै	खो	खोओ	खौ

Fig 8: In 2019, 4 long vowels and 4 long vowel signs were officially included in the Gurung Khema. (source: Tilak Gurung)

⊼र्रे क्रिंज हुं तम् क्युइ पिं (Tamu Language Font) खे प्ति (व्यञ्जनवर्ण) (Consonants) क যা য का खखे गखे ङखे कखे घखे য য় য়া $\overline{\mathbf{m}}$ আ चखे छखे जखे भाखे हखे द दा ব বা হ टखे ठखे डखे वखे ढखे ス 刀 I ৱা ৱ্যা तखे दखे नखे थखे धखे চ Y চা থ থা पखे भखे बखे फखे मखे <u>a</u>, W रखे सखे लखे यखे प्रे पाँप्ही (स्वरवर्ण) (Vowels) 쓿 흙 칅 췽 জঁ अँ জ জঁ 寄 ᆿ ত্ৰ অ औमाँ ए:माँ अमाँ आमां ईमाँ ऊमाँ ओ:माँ इमाँ उमाँ एमाँ ऐमाँ ओमाँ ۰ <u>。。</u> 0 0 0 <u>。。</u> 🐠 🛪 ট্রিন্ট চুঁঃ

Fig 10(a): Chart of the Gurung Khema with pronunciation. (Gurung 7:2021) [27]

🗷 कें 🗸 फूंड व्विष्क तमु खेमा लिपि सिकौं काँठैः खेप्ही (व्यञ्जन वर्ण)

7		X		•/	100
ਨ	ਗ	য	যা	হ	तमु खेमा
कखे	खखे	गखे	घखे	ङखे	नेपाली
য	আ	য়	য়া	m	तमु खेमा
चखे	छखे	जखे	भग्खे	हखे	नेपाली
द	বা	ব	বা	ह	तमु खेमा
टखे	ठखे	डखे	ढखे	वखे	नेपाली
ス	スコ	ৱ	ৱা	I	तमु खेमा
तखे	थखे	दखे	धखे	नखे	नेपाली
Б	চা	ष्	থা	A	तमु खेमा
पखे	फखे	वखे	भखे	मखे	नेपाली
7	て	w	<u>a</u>		तमु खेमा
यखे	रखे	लखे	सखे		नेपाली

⊽ठ्ठंः माँप्ही

স	ন	ঙ	ਲੰ	틍	굨	ঙ	럥	ঃ	৽জ	행	뺿정
अमाँ	आमाँ	इमाँ	ईमाँ	उमाँ	ऊमाँ	ए	ए:माँ	ऐमाँ	ओमाँ	आ:माँ	औमा
ਰ	ਗ	कै	ਰੰ	퉁	붊	₽	ਲੈ	ਝੈ	ੜੈ	ਛੈ	ਛਿ

्ёै ॐ ल्होमा

L= य ल्होमा	क्र = क्य	क्ता = ख्य	চ্টেञं = क्याई = उता
८ = व ल्होमा	क्रु = ख्य	क्ता = ख	क्रिंग = क्वोन = मिसाउनु
🔋 = ह ल्होमा	कः = व्ह	प्रः = म्ह	छः∓ = प्हना = भोली
= लैं ल्होमा	कें = कं	j = नं	कैंच = काँबा = तितो
= र ल्होमा	कू = क	<u>Б</u> = д	कुछः = ऋप्हो = कपाल
= थो ल्होमा	क् = व	क्। = ख	၂၃ယ် = नप्ली = थेप्चो

লিস থল ব্ৰীন আঃক্ আঁ মস हुम बहादुर च्हाक्ली तमु

Fig 10(b): Chart of the entire Gurung Khema, after the 2019 revision. (source: Bhim Gurung)

খ্ৰীনাঁই गिखरि (बाइखरी)

க	ਗ	க்	ਰੰ	靑	붊	कै	ਲੈਂ	ੜੈ	क्रै	贵	萧
क	का	कि	की	क्	क्	के	केः	कै	को	कोः	कौ
கு	की	க்	கீ	ਗ਼ੈ	쵧	कां	ਗੈਂ	काँ	कैं	ਗ਼ੈ	ਗ਼ੈ
ख	खा	खि	खी	ख्	ख्	खे	खेः	खै	खो	खोः	खौ
য	ন্ম	ষ্ঠ	పే	الم الم	륇	হ্ম	শ্ব	য়৾	য়৾	ৱী	ন্ম
ग	गा	गि	गी	गु	गू	गे	गे:	गै	गो	गोः	गौ
যা	হ্যা	হ্যা	হ্যাঁ	খ্রী	ৰ্মী	আঁ	গ্রাঁ	धाँ	আঁ	আঁ	ষ্মী
घ	घा	घि	घी	घु	घू	घे	घेः	घै	घो	घोः	घौ
اه	lα	ംഹ്ര	ଅଞ୍ଚ	IIkoč	TEQ.	å	ୌଦ	:lla	意	륁	≣ a
ङ	ङा	ঙ্ভি	ङी	Ьý	ङ	ङे	ङेः	ষ্ঠ	ङो	ङोः	ङौ
ಡ	ାਕ	୶ୡ	: బే	⊪ત્ર	ড় াাের	ৱাঁ	ಪ್ಪೆ	ដំ	الله	릛	iii
च	चा	चि	ची	चु	चू	चे	चेः	चै	चो	चोः	चौ
ন্ম	ାଲ	ণন্ত	লী	॥⊼	୩ଟ	গ্রাঁ	গ্রী	ঃান্ন	هٔ	휇	<u>គំ</u>
छ	छा	চ্ছি	छी	lg ^e	छ्	छ	छं	43 3	छो	छो ः <u>श</u> ्च	छौ
য়	দিন	৽৸ঝ	ૹ૿	⊪ત્ર	ଆୟ	<u>ভ্</u> বী	<u> </u>	৽	<u> </u>	<u></u>	<u></u>
ज	जा	जि	जी	ज्	ज्	जे	जेः	जै	जो	जोः	जौ
য়া	য়া	গ্রা	গ্রাঁ	য়	<u>র</u> ী	গ্রা	গ্রী	<u>শ্র</u>	য়৾	য়	<u> </u>
भन	भग	भि	भरी	भु	भू	भे	भ्ते:	भैं	भनो	भोः	भगौ
m	$\overline{\Box}$	ന്	ന്	₹	<u></u>	ਲੈ	ਲੈੱ	ਲੈ	₩	刪	m
ह	हा	हि	ही	k ull√	ह 	ह ≗	Æ औऽ	्रेह :।।ऽ	<u>हो</u> <u>है</u>	हो: है	हो डि
ਫ	ᄛ	<u>ಕ</u>	ಕ್ಷ	룿	룬		式	ਵੈਂ			
ट	टा	टि	टी	टु	ਟ ਵੀ	टे	टेः	ਣੈ	टो	टोः	टौ
বা	বা	दां	<u> </u>	뢰	최	दाँ	दाँ	दाँ	दौ	耈	दौं
ठ	ठा	ठि	ठी	ठु	ठू	ठे	ठेः	ठै	ठो	ठोः	ठौ
디	℧	ਹੈ	ਧੰ	₽	ı∏	বঁ	ਹੈ	दाँ	বঁ	दौ	द्यै
ड	डा	ভি	डी	lsy	ड्	डे	डेः	डे	डो	डोः	डौ
বা	디	থাঁ	टीं	叮	뷥	বাঁ	याँ	वाँ	বাঁ	বাঁ	दौं
ढ	ढा	ढि	ढी	ढु	ढू	ढे	ढेः	ढै	ढो	ढोः	ढौ
♦ 🔻 🔻										तम्	क्युइ प्ही

Fig 10(c): shows the position of vowel signs. (Gurung 15:2021)

<u>Δ</u> φ̂ι Λ	'OWE	ELS							
স	ত	ন	7	غ		উ		ᆿ	今
জঁ	5	Ă	7	<u>==</u>		জুঁ		흻	<u>≌</u>
इंद्रांकि	CC	NS	ANC	NTS					
ਗ	Б	ন	•	য		য়া		ঽ	
য	ັລ	11	•	য়		য়া		\overline{m}	
Ҁ	2	า	7	ব		বা		ह	
ス	7		3	ৱ্য		ৱা		I	
Б	5	ज	7	থ		থা		Y	
দ ্	ュ	_	•	W.		₹,			
ä̈́bֻ	NUN	/IER	ALS						
ΟŚ	С	Э	U	Λ	S	Ü	IJ	M	

Fig 11(a): It shows current full Gurung Khema table. (from scriptsource.org :2021)



Fig 11(b): It shows full Gurung Khema chart. (GeDesign Prints: 2021)

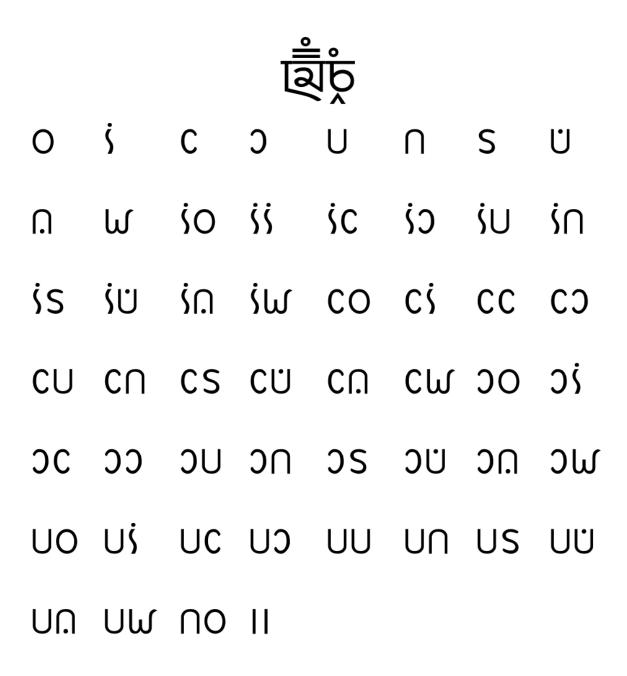


Fig 12: It shows numerals (0-50) of Gurung Khema. (from Gurung 2013:35)

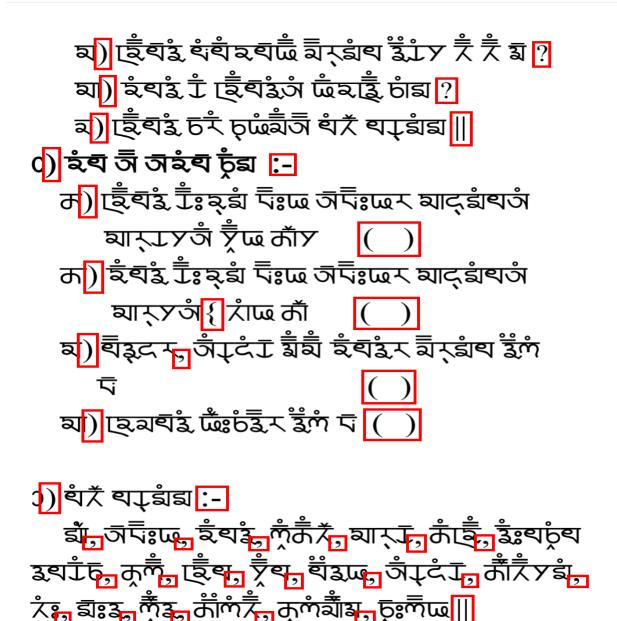


Fig 13: It shows various punctuation marks of Gurung orthography. (from Gurung 'Kon', Gurung 2013:24)

24



खेमा लिपि अनुवाद

- केंद्र क्रैं किंब्र నవ ఇ వేब्र నవ इंद्रें बाँकें इंद्र देव्वं कें देः रैर्ं वै वैश्ववंर रंग किं काउँ इ काउँ ८अं C
- किंद जैंडेर्चें प्परं నञं हिंप्य १५ 🗗 С 園よちお 大 スポ (意味 ネマ タマ C
- केंद्र किं किंग्र रजं च वेंग्र रजं इंर्चें बांकें इंर्र दं नजे कें क्तिं कार इ कार ठअं c
- केंद्रं बै कैंश ड्यंड्रर बै कैंश करें र c
- केंद्र क्रैं क्रिंब रजं च वैंब रजं इंर्षें बाँकें इंर्र देवलं कें वंहरें वें वें ग्रंग्डा केर रेंग्र किं कार इ कार ठंजे c

৩২ সেগ্রা দ্রেণ্ট

लोकबहादुर गुरुङ

Fig 14: It shows a Gurung poem written in Gurung Khema. (from Gurung 2021:72)



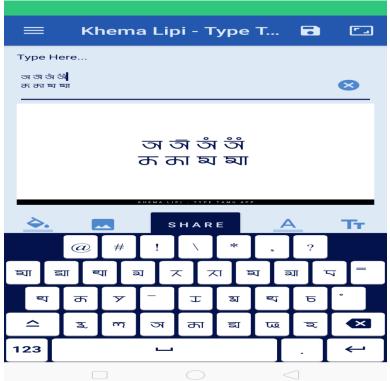


Fig 15: The 'Khema Lipi Type Tamu' application was launched in October 2019, with this Gurung Khema can be written in mobile easily.

SECTION A

ప్రవాస్త్ర లోనున్న షిమ్మ్ షేస్ట్ స్ట్రీష్ ए II మ్ స్ట్రీష్ లేడ్ బ్రోల్ ఫ్లి మెల్ న్ II మేన లెన్ ఇప్పే డ్రీన్ గ్లాడ్డ్ -সাল্ডি হেড জৈ ইহংস্ঠা মুহ জৈংই নাজিই জেস।। মুহট অহহ জ্ঞিস্ঠাই অর্ট ট্রাই ঠা ক ।। चर्द्धं क्रुकंप प्रेंग्रजं रिः देंश्य हर्द्धप्र ।। बिर्प्तं कुलें कींह्बों बेग्नंचर 🖣 ।। बर पश्जीर बीर्द्रप्र তা হ্বহনী কাঁখৱাঁতা হাতীতা কোঁ কতাঁইখ চূত্ৰে 🕇 ।। স্বীহাঁঠ সৈতা কুলতী ত্ৰিতা হ্বিক হহননী খীৱুৱা কলিঁওবি 🔻 ।। অন ট্রিব 🗓 ইন্ 🔻 ।। অ ፲৯৯৯ স্টাঁও জীলন বঃজান বিব চন্দর্ভি 🔻 ।। অ চম্রাজীর জৈ স্থা ছিঁত ছিঁতা ঠাই ছিঁত ছাঁপ্ত পূঁপী। ম চ্ৰেছিছ বিজয় চ্ৰেছ ছাঁত চুঁপ্ত পূঁপী।। ম চ্ৰেছিছ বঃতীয় ক্রেম হাঁইটা ট্রুপ্র ট্র ট্রাটার ক্রিটার ক্রেমের ম্ব্রিটার স্থা শ্লীরস্থার মুক্রিটার স্থা শ্লীরস্থার মানুন্তি, সম্ভূম, ম্যা 🕯 অম্বর্ম 🗓 মুস্তা সূঁর্ত ॥ 🖫 সৃদ্ধে আঁত জুল 🔻 ॥ আম্বর্জ জুলম দঃজ্য ইত্রীজ क्रू 🕏 ॥के क्रुं पश्जे दें होंडे चर्दं के जात जात क्रुं पश्जे चर्दे के पर्दे चार्दे चार्दे कि जात करें

ক) ইক্কৈপ কাঁট ঈ ?	(5)
តា) នំភុត់ៗចំ बर्चर्द हिँजिर តារំ តារំ ចិច ក៏ឧវ៌ៗចំ តាៗ?	(3)
ম) খন্ট্ৰ ঠক্কপ পুঁষতা কাথ दैঃন চন্ত্ৰপ ?	(i)
আ) 🖫 ইক্কঁপতা কুলী কাঁচুৱাঁ কাই 🔻 ?	(3)
হ্ম) एर्डं, पश्जिप कीएडोंजे बीजिने क्रि केनेरेंचे চুত্ত 🔻 ?	(c)
অ) ঘন্ত্ৰীত চমুক্তিইজ (ইতীন কাৰ -কাৰ টিয়স্ক টুট্ট?	(c)
আ) चर्डे पःच वैंडेंबैंजैंजैं क्रें ঈ बढ़ें बैं क्रॅyअं केंढ़ें चर्डे छेy ?	(c)

SECTION B

c) बै बन्तरको रेंट्रैंदं (चंबदं) बन्धेंबंब एप पर्वें चंजर तेव तींख रींबं ते रेसर रैं हैं हैंडा। (n)



59 2

Fig 16: It shows the set-4 of question paper of class 10th Gurung subject which is conducted by CBSE in 2017.

GURUNG LANGUAGE (CODE-132) SAMPLE QUESTION PAPER (2021-2022) CLASS - X

TERM - I

Time Allowed: 90 Minutes. Max. Marks = 40

Read the following instructions very carefully and follow them

- This question paper is divided into three sections A,B & C.
- · This question paper is of 10 pages.
- This question paper are based on MCQs. All MCQ are of 1 mark.
- There are total 50 questions in the question paper, out of which 40 questions have to be answered.

Section A - উঠি থঠা বীবা

Marks: 10

01

01

? अंद्र रेयजं कार्ये के दोदांद्धें बी_{री}यदें कीय बाद्धे बार रेयजं (इ.४१औजं बाय रेप:-5×1=5

चारियाक्त अञ्चर्प हैंप्य insi अञ्चर cw र हांप्य II बरे कुंड्री हकाबीजे अञ्चर रे रेत्री ठर्द्रीखि॥ प्रैठिख प्रैयक्षं उद्धेतं उत्तर रष्ट्रचा प्रे त्यक्षं कुं ह्रीय उद्घ प्रयाचा क्र बरे रेड्र वंषकं प्रेष्ण । कुंडर अबर्प प्रेर्यकं कुंट राह्यीय वर्दार राजिर देणरूप लेखा। बाख बह द पैंहरे बाउपयद सैप लेखा। बाख बह द पैंहरे बाउपयद रीय 🗸 🖟 ॥ या ज्ञान प्राप्त प्राप्त के प्रा रणरं बरं किं पाउँपाक्र अञ्चरपढ़ें होउदं कींप -र्रेय दुविय पर्वेशेंच पाउंशेंज ॥ व देहां किंद्र पिउ कुरे घरंठाइ, के बाक्ताइजीउँपादें रेंज ॥ बाक्ताइजी अजी के इराठ रेडें रें ঠ স হাঁ স জি খাতা আনহাঁ ক্রান্ত্রেজি ক্র স্কার্ম স ।। খাতা আর্ম আব্দ চঠা ।। আর্মান্ত্রকীর্ম খাঘাতা रै बजे बाइर कैंजे ॥ याप्रियाकरजे इँरठ इँरा रैजे ॥ Snos र क्रिंजे हैंई हर्ड़ारे थाउँ थाज्याक्रूरं कदाप्र्यै पहाळ रिजं॥ कदाकर्यैराठा व्यक्तिं याव्यंजं रप्रांप व्य **9ै.1** के देखें रुर बाख्डो**ं**।।

- गाउँचाक्र अग्रूप कौँदै छाँळ ?
 - **क) ಕಿ**ರ್ಡ insi **अड**ूर co र ಕುಡ ॥
 - கா) ಕಿಡ್ಡ insi जड़⊼ cu र ಕೇಡு II
 - য) চুঁতে insi আহ্ব cn দ হাতি।।
 - যা) চুঁত্রে (US) প্রান্ত CS স গুল্লি।।
- " ಇಫ್ಇನ್ನ ಸೆಫ್ ಡ್ಫ್ ಕಸ್ ಸಸಂತ್ರಕ ಪುಕ್ಷತ್ರಕ್ಕೆ ಇಡ್ಡಿ ಸೆಶ್ವ
 - ਨ) ਹੋ ਲੈ ਵੱਡ ॥
 - का) देख्य 🐯 🗓 ॥
 - য) ঠাঁই জৈ 🗓 ॥
 - যা) চাত্তির জৈ দীয়া।।
- - क) इंक्रेड्स **ज**ञ्जरप्र ॥
 - का) लख़्क **अ**बरप्र ॥
 - য) আক্রেয়দ উইন্টে।।
 - যা) া ঠ্যু জীয়া জীয়া ।।

Fig 17: It is shown that the sample paper of class 10^{th} of Gurung subject has been launched by CBSE for the session 2021-22.



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গাঁই মাঁচ (ইটেটে মাঁই গবড আট্ৰাইট जंडप्रेंद्रेज्याता जदाज वार्वरं तीवार डाप्रेंग प्रधार यंप्रशंद

রকর্ত্য গর কচ क्रिक्रे उर यागडीर याउनरिक গ্রসমার্ম স্থার্থ ভাষার は五女大気でい जडफ व्यक्तरंक्षेत्रं लिय। ८ इक्ति coilud ভাত মৌঘল্ডভ TALLE BY SALKE BY THE সেইএর ক্রা রাখ্য রস্থাল प्रधार पंप्रकार क्रिया की द्विर 初日 6:アウ マスス グロスズス र्जन होते व्यव्हा वृद्धेव, कार्येय है र बंह द्वित है जैब बती, রকর্তম হার্ম প্রায়মেশ এটা यं डाउ, यंग्रेकार उपरेल スプス いめ : 木 (まし メ まし यास्वर अंडर्र अस्राज हं जीयर :



ಇಸತ್ತು ಕಳೆದ ಳುಮು ಕ್ರಗಡ スススペダダ和工 四分 日前日 ち:ア DEST 호치 ಇಷ್ಟಡಿಸಬಾಹಿ ಪ್ರಕ್ರಾಮ ಹಾನಿಕ ನೇಕೆಯಿಂದ ಮಹ್ಮಕ್ಕನ कर्णर इंटी वास्वर्ध

বাঁশাম দ্ৰাৱীম স্থাকা येथे । याद्रवरं के:ब्रांबरं के: ই:ক্লা, ক্রেচিছা, ক্লো মস্চন্ক នាយ៉ याँ प्रचा タマスの人のは、スカのタズ contd on page no.

अप्रदेशर शर **கடியா விகும்**ப ছাত (ইটি পটিট

यांद সেকাদ্র ತ್ರಕ್ಕೆ ಶ अग्रेंबेंबर बर कार्क्च वदाउ (ನಿರವರಿಸುವ ಇಲ್ಲಾರೆ) ನೆ ಕ್ರೇಸ್ डेकार डेंच्जे डेंट्र्रिं ಹ್ಲಾಹ್ ಶಾಮಿಶ:ಶ್ವಿಶಿ ಕ್ರಮ देवर लिय is ब्रॉक्टरे cow ಚಿತ್ರದ ಇಗಳ ಪರ(ತ್ರಿಪ್ ಕ ಚಿತ್ರ ಸ್ಶ್ಷ (ಮೆಪಿ) ಪ್ ತ್ವಮ್ಮ को हं बार बोदबाद क्रीर लिय में दिए एया है অসমাত্রক ইমার্থই অর্থটো चिषाजांग । देळ्ळ मुँड ತ್ರತ್ವರ ಕಾಯಾಗು ಕ್ಷಮ contd on page no...

रुष्ण्यप्ज इंग्रिक्ट র্কর্মার্থ মুসুমুখ্ন

श्रीय ಕಾಲ ಕೆಟ್ಟ್ ಮೆಡ್ লিঙাইআ হা হোল্লাস্ডা ಕರ್ನ ಶಿಲಾಣಿ ಪ್ರತಾಸರ **ಇಣ್ಮ**ಸೆ ಕೆಹೆ ಶ ಶಗಹೆ ಶ जडांकर दे वे वैद्धांबर्ज ক:বার্ত্তর প্রসমুখন প্রায় अन्दर्भाग कर्ज ।

बीबर अंदे बंद्द ர்:⊼ி 6 ்கு கூத் சாக்ச র্টাট্র সভার্কর সম র্কুস্থ মেসুহা, ডাম ডা/ডাবা করিয়ে আইছ, ডাডাহেইডা চাহ্য ಳವನೆಯ ಲೇಕಳ, ಮನವ ಹರನ ਹੈਰੀਨ ਹੈ ਕੀਤੀ ਨੁੱਕ ਹੈਨੀਨ । contd on page no..........3/

ব্ৰমান চতামান্ত্ৰ হব্যাগ্ৰহ্ম গ চাচ

ग्रंथ おおかる リタがく 大ち ইব আর্থমের কাচস্ট 大はなりませんで からない contd on page no.

ब्रेस्टरेंकर दिलेंद्र Si CON जे बार्स अन्सर जिन्हेंद्र

國正太西太 [四 iO នីយេ៧ coiw ត្កាំ នារប दिनिर्देश con अ वार अप्रदे हिल्ला क्या । ತಾಳಿಸಿಗಳ ಪಡಕಕ್ಳ ಶಾ இர்கு கி. வி. மிரிவம் 刻ち ち:アヴ マスス がちまズス শুক্তর জ জিখন কাচ বিটো সম্ম রূপম সর্চুর, মুস্ফা கடிக்காம் கிற்ற (கீம் சித்தி येत्र प्रदेश, अम्बर्गर प्रप्रेप र्ज डार्गिर केंद्र द्विप्त डार्ग्नेच យំពុនា 🗗 अञ्चल अञ्चल अस्टा इंक्र केंद्र यात्रवरंक रेक्केट 백교 한고 첫 교육 비 कार्येक अप्रतार अंत スアダルはよ べばば オ:アのば उप्रे छाते । इते उद्धि औप्र यो লাতিতেতি ল:দেপ ইংঘাই রস্পুত্র, অসুহ অর্থ



យ៉ាក់ដល់ នាក់ក្រ នឹមនុវុ ឃុំភ្លាំឃ យិក្សាល់ នធុឆាក ತಿಳುತ್ತ, ಮೆರಿಸುತ್ತ ಕೃತ್ಯಾವಾಮ್ कार्तरंत्र डेंच्ड्, यंत्र ब्राट्स क्रिक्ट क्रिक्ट முத்தாடு டு கீ கீ கி.ஜம் ちょうさん まるまま ます ためじ TOND TAKE PER PER

र्वर्यम्बर्ध केहि ब्रोरे প্ৰাত আট **हें अं**स्टर अं (जा उप् গাইয়াক ಹಳಾಗಿಶಿಹ, ಹಾಕ ಶಿಕ್ಷಾ उप्रजास हो हो । इस តាំងងា ឃុំ។ ឃុំកូស សុំកូ សុំ:។ contd on page no.

Fig 18 (a): It features the Gurung edition of the Sikkim Herald which was published on 17th July 2019.



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នាំៗ: មេ

बर्गित : ब्रह्मेर

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दिलें बंठिएंगे द्रेंकं ध्विंग केंग्झुअं घाउँप

दिलें बांठ बाब्ब ច្និន្ទប់ ប្រាជ្ជ পুঁথাও প্ৰেছি ষাঁত্তি সুঁকোঁ षंवारि क्रियं भे थेर अस्टरम् प्रम्म में इं जिंदेशक के जैं। के विर देन प्रें:रांच जें चाष्क कें जब्द कंठ (अष्टें अप्अंट कार्रेष চুঁ:১থ TXT **जैठ३, दां** द **7**थजंगी ॥ ্গ্রেছ व्याचिक क्षेत्रं **হু**গাঁড **នាំយុយិចិយ** অওঁঙ্ক'র্ডার ১টিচ্চাটে কুর্লার্ডার টিচ विकटर रथंक्यर जयुद्धरां ষ্ট্ৰেছ খাঁত্তিও অতিওঁত ਰਾਂ ਓ ਯੋਂ ਰਾਂਓ ਗੁਆਂ অআকিংস্জ **ಸೆರತ್ನಸೆ** ಸ र्रथअंर्रेष्ण ॥

बाँ रंग दल बांह **5**इडारं ठंरके रंजंथ यक्क



ঠেকেঁ চাহ্সও আ্সম তেওঁ॥ ब्रंचरं ਗੈਂਡਿੰਕਾਂ **ध**रं ३ टा चैं विरोध अं के अंधिकेंद्र के আ ল ছাঁছে এক্লিস্ঙা ត់តែខារ់ अष्वार ធាលាំ ॥ शाक्री वाँ रंग दिलें बंहरे प्रेकें ត់ចីល់ បានាត្រី។ ១៣ ១៣ ២៣ ២ У८८८ फ्जैं I दिले **बं**ट्रे णिइँ इप्षेद्यास् प्रेतं នេ៍ទីខាចាល់ តាំថា យ៑១ាក কু:প্রায়েও ঘঁটেওাঁ করাস ডাঁ দ্রাত্রাই সহল্ম তেওঁ। रौर प्रेक्ट्रं प्रजेपं बार contd on page no.....3/

ಇಗ್ಗೆ ಪ್ರಕ್ರಿ ಪ್ರಕ್ರಿಸ್ **亚**叉萬式 基型式 र्कार्रः अं अंडाबादफ

शिंद्र अंप्रिकं के क्रिकंट **पैयजं इंडाडांड्रि** डाप्रं क्लॅंग्ब रही ड्रंबर्ग मीर बंब পৃঁথাপুঁপুঁ ॥ বংশী ছাচ মান্ম ठ३ इं इंप्रेंग विश्व के कि इं কুঁছিমি বংশীওাঁ ওীই দেঁ কেস্ট बंदं बंह हैं: एजं रहर **ಶಿರತ್ರಸಿಸ** ಶಿಲಾಶಿಶಿಷ ॥ কৃত্তিম মাঁ ঘালকৈ লিপিও জৰ্ম contd on page no.....3/

অলাভ ইকক'স র্বাইন্ন (মুর্স) ঘ্রাল্লা এই মুন্ত গৈছে হু ভ कें अप्रे वादर

সকাঁড ভ্রেক্স হাঁইছ (মুখ্র) র্রাজা ক্রু হারাণ কুম प्रमाद्धिर्क श्रीय CI याँ जे COIM अं ड्रांग्र आर्प्ट बाल्यप् ३४००० ४५ ॥ अंडदंद থেষক সচা ভ্রককপ্র ক:মাঁ वं यं बाँरैंब बांठ हैं: ४ अं रहर ឋীচয়্মাম মাঁ প্রামিং চ্টেম যাত্তিঘটে বাঁংর টেচাস্উও contd on page no.....3/

रंडरं डैं:(ब्बा फेंड्रां

অনুঠক তেত অয়হও लें प्रेडिटों विकदर थां कें विक्रिक्ट थां कें ត្នធាវ (កាខា CO នាំយ៍ថា COIW अं इंग्रि ग्रै: इंक्कंप्रअं ಸಿತಿ ಗೂಪತಿಸಿ ಈ ತಿಮೆ ಪಿತಿಭಾಗ ষাঁকাঁব্য গোঁষা, গাঁচৰাদে গাঁ រាធារីតុរី តាំង្រី ថាប៉ារាប **च्चलं** रें ब्रें के दें के के दें के की दें की दे की दें की द কেরিস্র প্রার ক্রেস্র ತೆುಲ್ಲಷ್ಟೆ ಹೆ. ಕ್ರಾಪ್ ಹೆ. ಕ್ರಪ್ ಹೆ. ಕ್ರಾಪ್ ಹೆ. ಕ್ರಾಪ್ ಹೆ. ಕ್ರಪ್ ಹೆ. ಕ್ರಪ್ ಹೆ. ಕ್ರಪ್ ಹೆ. ಕ್ರಪ್ ಹೆ. ಕ್ರಪ್ ಹೆ. ಕ್ರಪ್ ಹೆ. ಕ್ ឋ:স্জাঁট শুষ্ট ই:গ্রো গ্রহা ರಿತ್ಯೆಯಿಕ ಹಳುತ್ತಿಹೆ । वक्दर ច្នានាវ ឃុំចុយ។ បឺ ឃុំនាំ সির্দিষ্কাট তথা থাঁস।

ষাঁট (ইটি ষটি ঘটিটে ইক্কৈস্ণ ঘটিগৈ কাঁটি প্ৰীষ্ঠিগ

ឆាំចី (នីយី ថ្កី នី: মেস্ছ (ছাঁটো) ম লেখি লেখি C i 乳心 d COi W d 割む जंडदंवं**प**प्जं আঁষিঅং বাঁত কচ, ইছাৰ কোঁত ষৰ্ষদাত ট ষ্ক্কিস ឋាយៗថិត ឋាំឌីឌីឋាំឌីបឋាំ ਰាន៉េឌ វៈ, जहाតि បំ ത്രെയും:সুএ অঞ্চ কুচ श्रीय प्रवर्षे ॥ श्रीयरं (र्डेपं अँध अँग इर्ष्ट्र, अर्घ अँठ्रंद्र ತ್ರಾಡ್ ಹೆಕ್ಷಾ ಹೆ ಹಸ್ತ್ ಹಿಡೆ वादंप **ಸೆರ೩ಸ** ಶಿಲುಶೆಶೆಹ ॥

នាំចី (និយំ សាំចុំនាំឃ ರಿಕ್: ನಿಷ ಇ ವಾಹ್, ಹಿಹ ದಿರ್ನ ರೈಕ್ರಿ: ದಿ ಸ್ತ್ರಾ, ಪುನೆಶತೆಹ ನೌಗೆಕ್ಸ, ತೆಕ್ಷಕುಶ ឋាយៗថិត ឋានិនិឋានិបឋ



कु: दौ ये के रक, शिवं कु: दौ तिंदार वास्वरं, रास ठ्ंठरं: ষ্ট্রাট্ট চুরাট্ট, ক্রিরোক্ষা ৱাৎ সেই, ডাহাঁ কা্ডেকই সম্প: অট্টেড কাঁড সক্রপ্রপ্র ಲಿತಿತ್ನ ಶಿ:, ಹೀಹ ಹಿರೆਐ ಮೆರೆ రోయండి সাহ্মান্সান, (মৃ.) স্বাঁবাই

(३) थरंड्दा ठाँळवं, ठाँळ ឋានីធា បំ និត្តិទះ எி்மு வுடு ப श्रवाद्यंया ダ: У が 刻まむ め ちまべれ

ब्रा दिन मिल्यिक्ट contd on page no.....4/

Fig 18 (b): It is the last edition of the Sikkim Herald (Gurung edition) which was published on 24th July 2019.

Republic day Issue



(Sikkim Herald Gurung Edition)

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ब्रंप्र : cc

बार्ट्रेंक: इंडार

cs वैष्रदार cocc

बैंह : 05

U) र्जें बार्रार् बंधा cocc जं ब्रांचें प्र द्रैं बैठन वंदै -



บว कैं बार्रार बंधड cocc जे ब्रांचें प्र অম পৃঃমাঁথ মাঁচ ট্রোঁট্রেণ চাঁম -



हिंजे रांच लिव्वं बारग्र बंबरजे ট্রাঁশ্র্ডিম, হ <u>डेक्केपर लिख्युंश्चे</u> वर्ज लिख राखें अंडेप्टळं ग्रें बॉब्ब्जं प्र ॥ च उद्गर सैं ग्रै ञडोंडेंग्रेंक थैंजि अर्चैार्डे राष्ट्रं चेष् क्रीर्र हैं कि र्रे हैं हिँ पैर्रे के के प्ले ब्राँह्य कुँ प्वयुजं 🖣 ॥ ইট্রিয় মুঠ্ চ্ইত্রতীত সমষ্ট্র र्रार्षे ग्रें ब्राँप्कं रत

তাঃইউটে 🖣 ॥ देप, হ ক্রীনুলিথ তেওঁ হুঁট্র চুত্তিখাত সুমুদ্রী, जर ग्रै प्रलचन कें केंद्रे ह्या रक्षेत्र प्रवास उँगै एजें छैं उठ्य प्रैं प्र সচ্যু 👼 ॥ ইছে इक्रैंजें केंक्रिंजेंद्र **यां**. डांयजं **कै**कर्र्क रैंद्रैय 🗓 लैंड जिज्ञारर लें वाप्रत অটুইন উঅন্য ष्ळं र ष्ट्रंचेर राष বাঁই লইডে ডেগ

contd on page no 2.....

हैं जे राँच लिप्पं बारग्र बंधकं ট্রাঁহাঁত্তেম, হ <u>उत्तं प्रतिष्</u>रं ौ वजं लिख राखें अंद्रेप्रकें में ब्रॉब्विंग प्रें ॥ च उद्गर थैं ग्रै ञडाँडैंक चैंज অছাঁই 🗷 ፲ 🛍 খাঁ 🗓 हिँ पैएरंज कुलै प्रजं ब्राँद्य कुँ ज्व्यं 🔻 ॥ বাট্ট্যু মুঠ্ঞ চ্হ্ট্ট্র্ইজ অর্ট্রাই

太工魔 北國國 大太 সাঁই সেউ 🔻 ॥ देप, হ लैंकै ज़लिए प्रकं देंपें চূড়েখাড় স্ত্ৰী, जर ग्रै प्रमथ्जं केंद्रें ह्यार्षेर प्लं उँगै प्रजेष्व उठा पैष्य সচ্যু দ্র্ভু ।। ইছে अर्कैं केंकिं एकेंद्रे **याँ** श्रंथं **कै**ठर्ग्रंक रैंद्रैय ग्रे लैंड जिज्ञारर लैं वाप्रत অট্রু উন্নয় ष्कुंर खूंबेर राष বাঁই লইডে ডেগ हैं है एक्टिंग के दें के दे के दें के contd on page no 3......

Fig 19: It is the latest edition of the Sikkim Herald (Gurung edition) which was published on 26th January 2022.





Fig 20: It shows the various uses of the Gurung Khema: first on the entrance gate, second in the movie banner and third on the tombstone.





Fig 21: First picture shows Gurung class running in the Govt. school of Sikkim and second picture shows Khema teaching going on in Devdaha School in Nepal.

KHEMA KEYBOARD



Fig 22: De-facto Gurung Khema keyboard layout, which is officially currently being used (2019).



Fig 23: It is the banner of Gurung Khema workshop. (2076 BS)

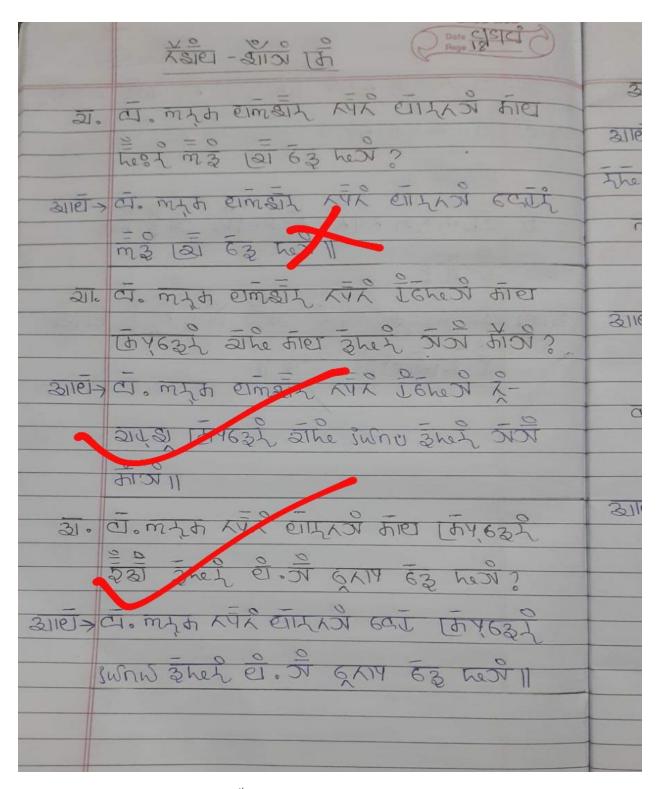


Fig 24: This is part of the notebook of class 10th student Premika Gurung. In this, with all the classes being in online mode due to COVID-19, the teacher has used a digital pen (dated: 02/06/2021). (source: Rupraj Gurung)



Fig 25: Calendar distributed by Tamu Hyul Cõj Dhĩ Gurung Rāṣṭriya Pariṣad (The National Council House of Tamu) (2021).

ISO/IEC JTC 1/SC 2/WG 2

PROPOSAL SUMMARY FORM TO ACCOMPANY SUBMISSIONS

FOR ADDITIONS TO THE REPERTOIRE OF ISO/IEC 10646.1

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.

 $\textbf{Please ensure you are using the latest Form from \underline{http://std.dkuug.dk/JTC1/SC2/WG2/docs/summaryform.html}. \\ \textbf{Please ensure you are using the latest Form from } \underline{http://std.dkuug.dk/JTC1/SC2/WG2/docs/summaryform.html}. \\ \textbf{Please ensure you are using the latest Form from } \underline{http://std.dkuug.dk/JTC1/SC2/WG2/docs/summaryform.html}. \\ \textbf{Please ensure you are using the latest Form from } \underline{http://std.dkuug.dk/JTC1/SC2/WG2/docs/summaryform.html}. \\ \textbf{Please ensure you are using the latest Form from } \underline{http://std.dkuug.dk/JTC1/SC2/WG2/docs/summaryform.html}. \\ \textbf{Please ensure you are using the latest Form from } \underline{http://std.dkuug.dk/JTC1/SC2/WG2/docs/summaryform.html}. \\ \textbf{Please ensure you are using the latest Form from } \underline{http://std.dkuug.dk/JTC1/SC2/WG2/docs/summaryform.html}. \\ \textbf{Please ensure you are using the latest Form from } \underline{http://std.dkuug.dk/JTC1/SC2/WG2/docs/summaryform.html}. \\ \textbf{Please ensure you are using the latest Form from } \underline{http://std.dkuug.dk/JTC1/SC2/WG2/docs/summaryform.html}. \\ \textbf{Please ensure you are using the latest Form from } \underline{http://std.dkuug.dk/JTC1/SC2/WG2/docs/summaryform.html}. \\ \textbf{Please ensure you are using the latest Form from } \underline{http://std.dkuug.dk/JTC1/SC2/WG2/docs/summaryform.html}. \\ \textbf{Please ensure you are using the latest Form from } \underline{http://std.dkuug.dk/JTC1/SC2/WG2/docs/summaryform.html}. \\ \textbf{Please ensure you are using the latest Form from } \underline{http://std.dkuug.dk/JTC1/SC2/WG2/docs/summaryform.html}. \\ \textbf{Please ensure you are using the latest Form from } \underline{http://std.dkuug.dk/JTC1/SC2/WG2/docs/summaryform.html}. \\ \textbf{Please ensure you are using the latest Form from } \underline{http://std.dkuug.dk/JTC1/SC2/WG2/docs/summaryform.html}. \\ \textbf{Please ensure you are using the latest Form from } \underline{http://std.dkuug.dk/JTC1/SC2/WG2/docs/summaryform.html}. \\ \textbf{Please ensure you are using the latest Form from } \underline{http://std.dkuug.dk/JTC1/SC2/WG2/docs/summaryform.html}. \\ \textbf{Please ensure you are using the } \underline{http://std.dk/JTC1/SC2/WG2/docs/summaryform.html}. \\ \textbf{Please ensure$

See also _http://std.dkuug.dk/JTC1/SC2/WG2/docs/roadmaps.html _ for latest Roadmaps.

Proposal to Encode the Gurung Khema in Universal Character Set

A. Administrative

1. Title:

2. Requester's name:	's name: Biswajit Mandal (biswajitmandal.bm90@gmail.com)				
3. Requester type (Member body/Liaison/Individual contribution):): Indi	Individual		
4. Submission date:		11/0.	11/03/2022		
5. Requester's reference (if ap	plicable):				
6. Choose one of the following:					
This is a complete proposal:		Yes			
(or) More information will be provided later:					
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:	Gurung Khema			
b. The proposal is for addition of character(s) to an existing block:					
Name of the existing block:					
			56		
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)			ection)		
C-Major extinct					

¹ Form number: N4502-F (Original 1994-10-14; Revised 1995-01, 1995-04, 1996-04, 1996-08, 1999-03, 2001-05, 2001-09, 2003-11, 2005-01, 2005-09, 2005-10, 2007-03, 2008-05, 2009-11, 2011-03, 2012-01)

^{44 |} Proposal to Encode the Gurung Khema in Universal Character Set

F-Archaic Hieroglyphic or Ideographic		G-Obscure or questionable of	usage symbols	
4. Is a repertoire including character names pr	ovided?		Yes	
a. If YES, are the names in accordance w	rith the "character nami	ng guidelines"		
in Annex L of P&P document?			Yes	
b. Are the character shapes attached in	Yes			
5. Fonts related:				
a. Who will provide the appropriate con	nputerized font to the P	oject Editor of 10646 for pul	blishing the standard?	
	Biswajit Ma	ndal		
b. Identify the party granting a license for	or use of the font by the	editors (include address, e-r	mail, ftp-site, etc.):	
Biswa	iit Mandal (biswajitman	dal.bm90@gmail.com)		
6. References:				
a. Are references (to other character set	ts, dictionaries, descript	ve texts etc.) provided?	Yes	
b. Are published examples of use (such	as samples from newspa	pers, magazines, or other so	ources)	
of proposed characters attached?		Yes		
7. Special encoding issues:				
Does the proposal address other aspect	s of character data proc	essing (if applicable) such as	input,	
presentation, sorting, searching, indexir	ng, transliteration etc. (if	yes please enclose informat	ion)? Y	es
8. Additional Information:				
Submitters are invited to provide any addition correct understanding of and correct linguistic information, Numeric information, Currency in behaviour. Spacing behaviour. Directional beh	processing of the proportion	osed character(s) or script. Eaviour information such as lir	xamples of such prop ne breaks, widths etc.,	erties are: Casing , Combining

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

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? The National Council House of Tamu; Resham Gurung; Bhim Gurung	<u>'</u>				
If YES, available relevant documents: See 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: Script is used for print and digital publications; see proposal for details					
4. The context of use for the proposed characters (type of use; common or rare)	Common				
Reference: See proposal for details					
5. Are the proposed characters in current use by the user community?	Yes				
If YES, where? Reference: Sikkim (India) and Nepal. See proposal for	details				
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?	Yes			
If YES, is a rationale for its inclusion provided?	Yes			
If YES, reference: See proposal for details				
11. Does the proposal include use of combining characters and/or use of composite sequences?	Yes			
If YES, is a rationale for such use provided?	Yes			
If YES, reference: Common combining signs				
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?	<u>No</u>			
If YES, are the equivalent corresponding unified ideographic characters identified?				
If YES, reference:				