Proposal for

Nepālalipi Script

in the
Universal Character Set
for inclusion in the
Unicode Standard

Presented to The Unicode Consortium 1065 L'Avenida Street SVC-4/2123 Mountain View, CA94043 U.S.A.

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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.

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A. Administrative

Title: Proposal for the Nepālalipi script in the UCS Requester's name: Dev Dass Manandhar, Samir Karmacharya and Bishnu Requester type (Member body/Liaison/Individual contribution): Individual contribution Submission date: 2012-02	ntribution 2-05
5. Requester's reference (if applicable): Enclosed Annex-I Requester's refe	rence
Choose one of the following: This is a complete proposal:	Yes
(or) More information will be provided later:	105
B. Technical – General	
Choose one of the following:	
a. This proposal is for a new script (set of characters): Proposed name of script: Nepaalalipi	Yes
b. The proposal is for addition of character(s) to an existing block: Name of the existing block:	No
2. Number of characters in proposal:	77
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 C-Major extinct D-Attested extinct E-Minor extinct F-Archaic Hieroglyphic or Ideographic G-Obscure or questionable us	collection)
Is a repertoire including character names provided? a. If YES, are the names in accordance with the "character naming guidelines" in Annex L of P&P document? b. Are the character shapes attached in a legible form suitable for review?	Yes Yes Yes
5. Fonts related: a. Who will provide the appropriate computerized font to the Project Editor of 10646 for p standard?	ublishing the
Samir Karmacharya b. Identify the party granting a license for use of the font by the editors (include address, Samir Karmacharya Kalimati, Kathmandu, Nepal; saneer@gmail.com; saneer@	
References: a. Are references (to other character sets, dictionaries, descriptive texts etc.) provided? b. Are published examples of use (such as samples from newspapers, magazines, or other character sets).	Yes
7. Special encoding issues: Does the proposal address other aspects of character data processing (if applicable) such presentation, sorting, searching, indexing, transliteration etc. (if yes please enclose information etc.) (if yes please enclose enc	mation)? Yes
8. Additional Information:	
Submitters are invited to provide any additional information about Properties of the proposed of that will assist in correct understanding of and correct linguistic processing of the proposed character such properties are: Casing information, Numeric information, Currency information information such as line breaks, widths etc., Combining behaviour, Spacing behaviour, Directic Collation behaviour, relevance in Mark Up contexts, Compatibility equivalence and other Unicode Information. See the Unicode standard at http://www.unicode.org for such information see Unicode Character Database (http://www.unicode.org for such information needed for consideration by the Unicode Technical Committee for inclusion in the Unicode Technical Committee f	aracter(s) or script. on, Display behaviour onal behaviour, Default ode normalization on other scripts. Also ode Technical Reports

¹ Form number: N3902-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)

C. Technical - Justification

C. Technical - Justification			
1. Has this proposal for addition of ch	naracter(s) been submitted before?		
If YES explain	No	9.000	
	ers of the user community (for example: National Body,		
user groups of the script or cha	aracters, other experts, etc.)?		Yes
If YES, with whom?	Nepālabhāsaā Academy, Tribhuvan University, Lumbini Bud	ddhist U	Iniversity
If YES, available relevan	and Government of Nepal nt documents: Annex-VI List of included lette	rs	
3. Information on the user community	y for the proposed characters (for example:		
size, demographics, informatio	n technology use, or publishing use) is included?		Yes
Reference:			
4. The context of use for the propose	ed characters (type of use; common or rare)	Co	ommon
Reference:	Enclosed		
5. Are the proposed characters in cu	rrent use by the user community?		
If YES, where? Reference:	Worldwide		
6. After giving due considerations to	the principles in the P&P document must the proposed charac	ters be	entirely
in the BMP?			Yes
If YES, is a rationale p	provided?		Yes
If YES, reference	Enclosed		
7. Should the proposed characters b	e kept together in a contiguous range (rather than being scatte	ered)?	Yes
8. Can any of the proposed characte	rs be considered a presentation form of an existing		
character or character sequence	ce?		No
If YES, is a rationale f	or its inclusion provided?		
If YES, reference	:		
9. Can any of the proposed characte	rs be encoded using a composed character sequence of either	er	
existing characters or other pro	posed characters?		No
If YES, is a rationale f	or its inclusion provided?		
If YES, reference	**************************************		
10. Can any of the proposed charact	er(s) be considered to be similar (in appearance or function)		
to an existing character?			No
If YES, is a rationale f	or its inclusion provided?	STRONGROOM	
If YES, reference		45551555155	
11. Does the proposal include use of	combining characters and/or use of composite sequences?		Yes
If YES, is a rationale for such u	se provided?	2000000	Yes
If YES, reference:	Annex-II Rendering Nepaalalipi		
Is a list of composite sequence	s and their corresponding glyph images (graphic symbols) pro	vided?	No
If YES, reference			
12. Does the proposal contain characteristics	cters with any special properties such as		
control function or similar sema	antics?		Yes
If YES, describe in de	tail (include attachment if necessary)	. 5. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	
13. Does the proposal contain any Id	leographic compatibility characters?		No
	esponding unified ideographic characters identified?		
If YES, reference:			

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Proposal for Nepālalipi script

This is a proposal to encode normalized Nepālalipi script in Basic Multiple Plane of the ISO/IEC 10646.

NOTE: Use of diacritical mark to roman alphabets are , or for nasal sound and for long sound.

1 Introduction. Nepālalipi has been used and developed by the Nepalese people for the last 1,000 years. "Nepāla-sambat" (Nepāl Erā), Nepālalipi (Nepalese Script), "Nepālabhāsā" and "Nepāla-sanskriti" are the country-related names gained during the past millennium of Nepalese history.

The script has various names - Prachalit (named by epigraphist Mr.Hemraj Shakya), Pachumola, Nepālaksara, and Nepālalipi. In his famous AD 1654 multi- script inscription, installed at the Royal palace courtyard in Kathmandu, King Pratāpa Malla called the script Newāraakhara (Foto-5). The earliest evidence of its emergence is dated to a manuscript copied in NS 28(A.D. 908) (Foto-3).

This script is derived from another script, inscribed on famous Lumbini Pillar in Nepāla(Foto-1), popularly known as Brāmhi script(originally cited as Dhamalipi by King Piyadasi, popularly known as Emperor Ashok, more than a dozen times in his inscriptions). Nepālalipi's immediate ancestors were Liksabi period script (Foto-2). Nepālalipi has several identical characters with Liksabi, Kutila, Devanāgari, Bengāli, Maithali and other scripts.

The script, presenting Nepalese Sanskriti (culture), associated with thousands of years of unexplored history within itself, is spread all over the world. The cultural importance of the script is enormous as we realize that more than 80 percent of over a million folios of manuscripts which are in Sanskrit, Maithali, Bengāli, Tibetan and Nepālabhāsā languages, all microfilmed by the Nepal-German Manuscript Preservation Project in 1971-2001, are written or copied in Nepālalipi.

The official boycott of this script began in 1912 when Rānā Prime Minister Chandra Shamshere issued an official notice which nullified all property ownership documents written in any language or script other than Gorkhāli language and Devanāgari script. This administrative measure effectively put an end to the use of Nepālalipi as well as the Nepālabhāsā for nearly seventy years. In 1941, all writers and poets using the language were thrown in jail and their property confiscated.

1.1 User Community

Despite the political persecutions in the past two centuries and a half, the Human Development Index of the user community has been the highest one in Nepāla, with 71 percent literacy and 62 percent adult literacy as the national average. Out of the total number of graduates in 2001, 26 percent were Newā:s, and 30 percent of technical/professionals are from this community.

The total population of the Newā: as reported in the National Census 2001 a decade ago is 12,45,420. However, the Census Report also shows a decline of about 33 percent of the Nepālabhāsā (Newār) speakers. Seventy percent of the Newā:s live in urban settlements, and their income levels are at least 4 times higher than other average urban dwellers.

Nepal Telecommunications Authority (Issue 30th, Vol 78 15 april-14 May, 2011)has published data on the telephone subscribers in Nepal. The figure had crossed half of the country's population and expected to cross the country's population at the end of 2012. It is a growing practice to have Internet connection through telephone line.

1.2 Community Effort

In the past three decades, there have been vigorous organized efforts to teach and disseminate Nepālalipi. A few talented fontographers have also launched more than half a dozen true type fonts since early 1990s.

The monthly paper Lipipau on Nepālalipi script is in regular circulation. Nepāla Lipi Guthi has been publishing the yearly magazine **Pauvā:** for more than a decade. Online script tutorial from "The Newah" to write and learn about the script has been available for the past few years. The authors have provided transliteration software and fonts to **The Newah**, **Lipipau and Luākha:**

1.3 Requesters' steps towards UNICODE Consortium 1.3.1 The Begining

A transliteration software(developed under dB2K) **thanNahiti** launched in *CAN* Infotec 2007(event organized by Computer Association Of Nepal) enabled us to write **Nepālalipi** and Ranjana. Fonts provided along with the software were not designed to provide all the required clusters in **Nepālalipi** and **Ranjana**.

A new concept is developed to present each cluster as a combined multiple glyph. On the base of this concept, a new font **Ranjana Aakha.ttf** is created by the coauthor Mr. Samir Karmacharya. **thanNahiti** software is rewritten and launched as **Ranjana Thahiti** in CAN Infotec 2008.

The software is rewritten to present **Nepālalipi** and launched as **Nepala Lipi Thahiti** in CAN Infotec 2009 with a new font, Swati.ttf capable of presenting all possible clusters. At present, web sites and schools have adopted **Nepal Lipi Thahiti**, distributed under **Ranjana Thahiti** banner for **Nepālalipi** script.

1.3.2 Preparation for Universal Character Set (UCS)

The authors have managed three seminars for the inclusion of characters and their collation order in to UCS.

The first and second seminars were organized by The Department of Nepālabhasā, Trivubana University(2008, July 18th and Nov 8 th). The seminars have provided the views on number of vowels and other characters to be included in UCS. Views on **vowel diacritics**, **vowel modifier diacritics**, **functional vowel modifier diacritics** and **collation order** were covered.

Nepāl Bhāsā Academy organized the third seminar on the decomposition of multiple alphabet clusters into phonetically equivalent alphabets and a cluster (see Annex II Rendering Nepaalalipi Script, RR4- If a consonant or consonantal cluster precedes Bā-ākha:, then both are joined together to form a single cluster or extreme left alphabet is displayed with consonantal mark and other will form a new cluster.).

1.3.3 Proposal exposed to the public for views and comments

From 2010 onward, partial documents were exposed to collect public views and comments on the proposal.

Prof. Tej Ratna Kansakar, Prof. Kamal Prakash Malla, Prof. Manika Lal Shrestha, Prof. Sundar Krishna Joshi, and epigraphists Mr. Shyam Sundar Rajabanshi, Mr. Raja Shakya, Mr. Sharad Kasa have openly participated in sharing the views on Nepālalipi UCS.

On August the 2nd 2010, the office of Kathmandu Metropolitan City was approached for their support on the finalization of the UCS Nepālalipi.

On May the 5th 2011, a complete set of a Nepālalipi UCS proposal document has been presented to the Honorable Prime Minister of Nepal, Mr. Jhalanath Khanal for governmental views and comments.

1.4 Allocation of Nepālalipi script

The proposed normalized characters are used daily by the user community all over the world. They are used for reading, writing, printing and publishing purposes. The script contains 77 characters with reserved positions which makes it 96 in total. Reserved positions are likely to be used by Nepalese Devanāgari, Ranjanā, Bhujimola, Kutila, Liksabi and many more scripts based on the presented principles. Encoding of **Nepālalipi** script in the Universal Character Set UCS is strongly proposed to allocate into the **Basic Multiple Plane**.

1.5 Naming the characters in Nepālalipi script

Unique name is assigned to each character to be compatible with UNICODE Naming convention and to maintain international standard.

2 The Writing System

The **Nepālalipi** script is an alphasyllabic or abugida script type written from left to right and top to bottom. The writing alphabets are known as **Ākha**:.

Example:2.1 TKA character is ākha:.

Alphabets may be written with added symbols all around it. The added symbols represent consonant, vowel, nasal, and time related sounds. They are known as **sa:chi** (Diacritic). They occur only with the alphabets.

Example:2.2 Alphabet ৰ KA with diacritic - ৰ K, ৰ KA (KA), ৰ KI (KT), ৰ KA:

Two or more alphabets are written as one single alphabet, stacking one on top of other known as **chinā-ākha**: (composed alphabet) and taken as a single entity.

Example:2.3 斬 KKA is a chinā-ākha:

Clusters are written vertically stacked one on top of the other in accordance to the alphabetic pronunciation.

Many manuscripts have symbol **Siddhi** at the beginning of manuscripts. Sometime **Om** symbol is used. Many do not have any symbol. Few alphabets have different looks. **Nepālalipi** script has its own numerical symbols.

Word breaks, line breaks, and hyphenation symbols are used in manuscripts, but not the same symbol all the time. Single or double vertical lines present a full stop mark. A mark within double lines may be used as a tag when a word or a symbol is inserted between them.

Example IIXII where X represents a word, symbol or a vacant space.

3 Vowels- Mā-ākha:

Six sounds are represented by six vowel characters and are known as $m\bar{a}$ - $\bar{a}kha$:. The six vowel characters are $\Im A$, $\Im IAA$, $\overline{\otimes}I$, $\Im U$, $\Im E$, $\Im IO$. All six vowel characters are independent alphabets and each can be pronounced with a nasal sound.

Example :3.1 A alphabet with a nasal sound A Å(A)

Each vowel alphabet may be marked with a time duration pronunciation.

Example :3.2 AA alphabet with a long sound A&:.

Each vowel alphabet may be marked with a nasal and time duration pronunciation.

Example :3.3 A alphabet with a nasal and long sound A&: (KA:)

Diagraph *8 is presented by a monograph *.

Example :3.4 औ diagraph is presented by a monograph औ.:.

The six vowel characters have independent status. Amount these, five diacritic marks which represent the vowels MAA, ĕ I, उU, ℲE and చO. Followings are the vowel representative marks.

MAA vowel, the representative mark is -T or 1.

I vowel, the representative mark is - 1.

I.

3U vowel, the representative mark is - , or , .

ರ್E vowel, the representative mark is - or (.

310 vowel, the representative mark is - Tor (1.

Either direct AA is written or no mark is written in the case of vowel AA.

Alphabets without a vowel mark, are understood to be pronounced with a Avowel sound.

3.1 Diphthongs in Nepālalipi

Two diphthongs and their respective marks are commonly used within the script. They are ਤAI and সAU. They are the representative of vowel সA,ভ I and সA,उ∪.

If All diphthong is represented by the mark or (...

到AU diphthong is represented by the mark in or (1).

4 Bā-ākha:

Bā-ākha: is a single character pronounced with a short vowel সA. Thirtynine phonemes are pronounced with the final vowel সA, known as bā-ākha:. This includes two semivowels and seven allographs.

 $\bar{\mathbf{A}}$ kha:(alphabets) pronounced with vowel $\Im \mathbf{A}$ are grouped into three different categories.

4.1 Classification of bā-ākha:.

- 4.1.1 Ākha:(alphabets) with vowel পA
- 4.1.2 Allograph (ākha:) with vowel अA
- 4.1.3 Semivowel alphabets(ākha:) with vowel अA

4.1.1 Alphabets with vowel अA

The Bā-ākha: has the following characters presented in Table 1.

Table 1: Bā-ākha:

Т ка	स KHA	ी GA	घ GHA	₹ NGA	2 NGHA
व CA	Ж СНА	5T JA	म _{JHA}	ALM &C	30 NJHA
η _{TA}	थ _{THA}	₹ DA	a DHA	ज _{NA}	র NHA
य PA	₹ PHA	व _{ва}	₹ вна	म _{MA}	新 MHA
ㅋ RA	₹ RHA	ल LA	₹ NHA	₹ SA	र HA

4.1.2 Allograph Bā-ākha: with vowel अA

Table 2: Alphabet and their allograph

Alphabet - TTA	allograph	ATT 5
Nphabet - 4THA	allograph	Оттна
Nphabet —록D	allograph	5 DDA
Alphabet - VDHA	allograph	GDDHA
Nphabet - ज _{NA}	allograph	ANN13
Nphabet \HSA	allograph	SHA
Alphabet - ₹SA	allograph	म _{SSA}

Note: Few centuries ago, alphabet বRA was considered as an allograph to the alphabet লLA Gualberto and Cappuccino(1792).

4.1.3 Semivowels with vowel সA

Two semivowels যya(EA) and ৰwa(OA) are used as single alphabets . Both the alphabets যya(EA) and ৰwa(OA) ends with a vowel sound সA and are included in $b\bar{a}$ - $\bar{a}kha$: group.

4.2 Lower-letter as bā-ākha:

The lower alphabets are placed at the bottom of a cluster. Alphabets bā-ākha:s within clusters, are listed below as Lower-letter bā-ākha:.

Table 3: Extraction of lower alphabets from clusters

en KA	⊲ кна	51 GA	되 GHA	⊘ NGA
4 CA	& CHHA	SNJA.	A JHA	O ₁ NJA
ATTS, AT P	A THA, OTTHA	≼ DA,∋DDA	≱ DHA, ⇔DDHA	of NA, ONNA
d PA	◆ PHA	q BA	Q VA	→ MA
d _{YA}	→ RA	લ્લ LA	a wa	ASA, MSHA, ASSA
€ HA				

Note: Allographs are placed in the same cells along with their corresponding alphabet.

Some bā-ākha: have different shapes when placed at the bottom.

They are NNA, 7 TA, & THA alphabets.

Table 3-a: Lower-letter as bā-ākha: with different shape

Alphabet bā-ākha:	Lower-letter as bā-ākha: with different shape
El NNA	₹ KNNA, ♣NNA
$\eta_{\scriptscriptstyleTA}$	क् _{кта, ,} n _{та}
4 THA	क ктна, , क тна
₹ вна	रू квна,र्रेkвни (вна changes its lower shape when U vowel diacritic mark is added to its cluster.)

Lower-alphabets жидна, жилна, жина, жина, жина are not in use as lower bā-ākha:.

The lower letters are not written alone. They exist only within a cluster.

4.3 Classification of bā-ākha: by its mola property.

Nepālalipi script is recognized by its horizontal head stroke property. It is known as Mola. The head stroke may be replaced by a curly mark as per the application of a particular diacritic mark. But seven of the alphabets are devoid of the head stroke entirely. Therefore, Nepālalipi can be categorized by existence of its horizontal head stroke known as a mola-du and non-existence of its horizontal head stroke known as a mola-madu.

Seven alphabets \$IGA, \$\mathcal{Q}\$ NJA, \$\mathcal{Q}\$THA, \$\mathcal{Q}\$TTHA , \$\mathcal{A}\$DHA, \$\mathcal{E}\$INNA and \$\mathcal{M}\$SHA are recognized under mola-madu category and the remaining thirty eight alphabets are mola-du type.

5 Diacritic

Five types of diacritical marks are in use with Nepālalipi. They are the following:

- 5.1-Consonantal diacritic
- 5.2- Vowel diacritic
- 5.3- Vowel modifier diacritic;
- 5.4- Functional vowel modifier diacritic
- 5.5-Syllabic diacritic

Diacritic mark is an integral part of an alphabet. They have definite functions. Vowels and bā-ākha:s are converted into ākha: by the addition of a diacritical mark.

5.1-Consonantal diacritical mark() defines the character as a consonant. It is placed at the bottom of a character without touching it.

Example: 5.1-Consonantal diacritic

Alphabet	Consonant
ৰ	क्

5.2- Vowel diacritical mark(T , f , n , m) is applicable to bā-ākha:s only. It may be placed all around a bā-ākha:.

Example: 5. 2- Vowel Diacritical Mark

Alphabet	Alphabet with Vowel Diacritic		
	Right - Left - Bottom - Top - Top_right		
₹ KA	ना KAA- निKI- न् KU- न KE- नाKO		

5.2.1- Vowel diacritical mark changes its appearances depending on the shape of a bā-ākha: alphabet.

Vowels AA, E and O ,have different diacritics for Mola-madu type of alphabets.

Vowel U have different diacritic mark for alphabets बGA, नTA, रBHA and भSHA known as GA, TA, BHA, SHA group..

Vowel U have different diacritic mark for alphabet RA.

Alphabet BHA changes its shape for Vowel U.

Example: 5. 2.1- Change of Shape of Vowel Diacritical Mark

Alphabet Type	AA	1	U	E	0
Mola-du alphabet यGHA	घाँGHAA	घिGHI	घ्GHU	घGHE	ঘাGHO
Mola-madu alphabet \$IDHA	네 DHAA	धि _{DHI}	¥ DHU	(a) DHE	(a) DHO
GATABHASHA, Alphabet group T TA		-1	ηтυ		A) in
Alphabet ㅋ RA			क		
			RU		

Example: 5. 2.2- Change of Shape of an alphabet BHA by presence of U Vowel Diacritical Mark.

Alphabet	Alphabet with Vowel U Diacritic
₹ BHA	T вни

5.3- Vowel modifier diacritical mark($^{\circ}$ a nasal sound mark) is placed at the top of the character. This mark is applicable to all forty five characters.

Example: 5.3- Vowel modifier diacritical mark

Alphabet	With Vowel Modifier	
FCA lawoV	अ Å	
Bā-ākha: न	र्न KÅ	

5.4- Functional vowel modifier diacritical mark (ℓ a long sound mark) is placed at the end of a character. This mark is applicable to all forty five characters. It has a capacity to change I, U vowel marks and vowel modifier. In general it turns a diagraph into a monograph or tri-graph into a diagraph.

Example: 5.4.1 - Functional vowel modifier diacritical mark(FVM)

Alphabet	With FVM
अ	ञ्8
ৰ	क १

Alphabet	Alphabet with a Vowel Modifier	with FVM 8	Monograph Change in Vowel modifier Mark
A K	अं A	औं 8 Å:	औ Å:
ৰ KA	र्न KÅ	र्केंश KÅ:	कें KA
Alphabet	Alphabet with a Vowel Mark	with FVM 8	Monograph Change in Vowel Mark
ৰ KA	िक KI	कि8 KI:	नी KI:
ৰ KA	¶ KU	क्8 KU:	क् KU:
Alphabet	Alphabet with a Vowel Mark and a vowel modifier	with FVM 8 a tri-graph	Diagraph Change in Vowel modifier mark In presence of a vowel mark
ৰ KA	ี่ ที่ หน้	र्क्री8 KŮ:	र्फ KŮ:

Functional property of FVM

5.5-Syllabic diacritical mark($_{\epsilon}$) is used to represent a syllable RRI. This mark is placed at the bottom of a bā-ākha:. The character turns into an equivalent cluster of KRA alphabet with a I vowel mark.

Example 5 - Syllabic diacritical mark

Alphabet	With Syllabic Mark	Approximately Equivalent Presentation
न ка	ৰূ KRRI	त्रि KRI

All diacritical marks are presented by combining characters in UCS.

6 Consonants

Consonant is an ākha: with a consonantal mark at its bottom. It is a growing practice to add a diacritic consonantal mark at the bottom of an alphabet and pronounced as a grapheme and distinguished as a consonant.

Bā-ākha: is converted into a grapheme by the addition of consonantal mark

", " Bānwasa:chi: (consonantal mark) at the bottom.

Application of consonantal mark " changes bā-ākha: into a consonant except the semi vowels.

In Nepālabhāsā, character $\overline{\mathcal{Y}}(Y)$ is used as a vowel " $\mathcal{I}(E)$ ".

In Nepālabhāsā, character ব্(W) is not in use.

Table number 4 presents the consonants.

Table 4: List of consonants

म्к	स्кн	र्ग् ु	घ् _{GH}	Q NG	S NGH
व् _ट	₹ СН	গ্	.म् _{JH}	D€ NJ	₹ NJH
$oldsymbol{\eta}_{\scriptscriptstyleT}$	थ тн	द् □	Я́рн	el N	ST NH
प्⊳	₹ PH	व् в	$\overline{\mathcal{C}}_{BH}$	म् м	ऋ् _{мн}
न् _R	₹ RH	ल्	ऋ्षा	स्	€ ^H

Table 5: List of allograph consonants

Allograph consonants are the followings: TTT-Q TTH-\$\mathbf{T} DD-\$\mathbf{Z} DDh-\$\mathbf{R} NN, \$\mathbf{N}\$ SH and \$\mathbf{q}\$ s.

There are a total of thirty seven consonants.

The consonants are derived from UCS listed characters, therefore, are not listed in the UCS character chart.

6.1 An upper-letter as a consonant.

The upper-letters in clusters are consonants and do not exist independently.

Table 6: List of upper-letters in clusters

नγ A	, ^ख KH	^{ភា} G	ਬ GH	™ NG	ফ্র NGH
च C	, ³⁵ CH	শ্য	^{∓म} JH	o₃ NJ	₹ NJH
т,≅ тт	થ _{TH,} a _{TTH}	ट _{D,} उ _{DD}	a DH, BDDH	ਜ _{N,} ει _{NN}	<u>रू</u> NH
и _P	रू PH	ਕ _B	ज BH	म _M	ङ्ग MH
Ŕ	র্ম RH	ल L	न्त्र स	रम _{S,} अSH, स SS	ኅH

NOTE: The allograph is placed along with its alphabet in the same cell.

Some consonants have different shapes when used as an upper alphabet in a cluster.

They are CT, T and BH.

6.2 Lower-letter as a consonant.

The lower alphabets are placed at the bottom of a cluster. Alphabets are written either with a diacritic or as Bā-ākha: within a cluster. To convert lower alphabet into a consonant, a consonantal mark, is added at the bottom of a cluster.

They are listed below as consonants:

Table 7: List of lower-letters as consonant in a cluster.

е р к	₹ KH	ज् G	ર્ય GH	⊘ NG
વ c	& CHH	3 N	મ 1H	J ₂ NJ
ग्ा, द्π	Ф ТН Q ТТН	ج D, ع DD	ষ্DH, ও্DDH	ન્ ૫, ત્ર ૫૫
Ų p	♦ PH	qв	₹ вн	4€W
- (R	ભ્L	4s, *1 SH, USS	е н	

Note: Allograph are placed in a same cell.

Alphabets $\bigcirc NN, \bigcirc T$, $\bigcirc TH$ have different shapes when used as lower-alphabet of a cluster. The upper and lower letters are not written alone. They exist only with a cluster.

7 Vowel Diacritic

Marks T, ſ, , , ¬ are the diacritical marks of vowels ៕AA, I, ʒU, ℲE and ℲO respectively as mentioned before. Vowel diacritical marks are applicable only to bā-ākha:. Only one vowel diacritic mark is applicable at a time. Different diacritical marks are used for vowel ៕AA, ℲE and ঙাo depending upon the mola character of a bā-ākha:

Vowel diacritic mark application to mola-du and mola-madu alphabets.

Vowel TAA diacritic mark for mola-du Bā-ākha: is T and mola-madu is 1 Vowel TE diacritic mark for mola-du Bā-ākha: is T and mola-madu is (1 Vowel TO diacritic mark for mola-du Bā-ākha: is T and mola-madu is (1

Application of 3U vowel diacritic mark is divided into two groups.

One is $\PGA, \overline{\PTA}, \overline{\PBHA}$ and \PSHA and the others are the remaining bā-ākha:s.

For example CA 4 and diacritic mark of vowel 3U, is 4 CU, whereas application of 3U vowel diacritic mark , is applied to 9GA,7TA,7BHA and 4SHA Bā-ākha:. The result is 9GU,7TU,7BHU, and 4SHU respectively.

Vowel 3U is added to the right side of the alphabet 게RA, 전RU.

Examples:

Table 9: Application of vowel diacritic mark to Bā-ākha:.

Vowels	Diacritic Mark	<u>Bā-ākha:</u>	Mola-du bā-ākha: with a Vowel diacritic mark.	Mola-madu bā-ākha: with a Vowel diacritic mark.
अ _A	None	ፍ _{KA} , ባ _{GA}	ਜ _{KA and} ፞፞፞፞፞፞፞፞፞፞፞፞፞፞፞፞፞፞፞፞፞ቚ Ais ቑ _{KA}	η _{GA and} η _{A is} η _{GA}
\mathfrak{A}_{AA}	T, 1	ፍ _{KA} , ባ _{GA}	म _{KA and} आ _{AA} is मा _{KAA}	η _{GA} and η _{AA is} η _{GAA}
<u>‰</u> l	f	₹кна,О ттна	ख _{KHA and} ळ्। is खि KHI	O TTHA and OI is O TTHI
ರe	~, (لام الم	To NGE and Se is To NGE	थ _{THA and} ∜E is (थ THE
310	٢),٢	व _{CHA} , 为 _{NJA}	ব _{CHA and} ত্ৰাo is ৰা co	OR NJA and TO is ON NJO

Table 10: Application of 3U vowel diacritic mark to Bā-ākha:.

Vowel	Diacritic	Bā-ākha:	Group GA, TA, BHA and SHA	RA
उบ	. , , , , 3	Т ки, स кни	IJ KU, IJ TU, IJ BHU and Ŋ SHU	ऋ RU

NOTE: When vowel diacritic mark is applied on BHA, the original appearance \P BHA is changed into \P BHA.

7.1 SE Vowel Diacritic with a semivowel ₹YA(EA)

When $\Im E$ vowel diacritic mark is applied to a semivowel $\Im YA(EA)$, the semivowel will turn into $\Im YE(EE)$ ". Diphthong EE is not in use but \Im is in use as an equivalent to the vowel $\Im E$.

A semivowel $\overline{\mathcal{U}}_{YA}(EA)$ when U vowel diacritic mark is applied, will turn into $\overline{\mathcal{U}}_{YU}(EU)$.

7.2 জO Vowel Diacritic with a semivowel ৰ WA(OA)

When $\Im o$ vowel diacritic mark is applied, a semivowel $\lnot w_{A(OA)}$ will turn into $\lnot w_{O(OO)}$. Diphthong oo is not in use but $\lnot w_{A(OA)}$ is some times used in place of the vowel $\lnot w_{A(OA)}$.

7.3 Diphthong Diacritical Marks with a vowel A.

As mentioned above, two diphthongs are generally used. Both the diphthongs have $\Re A$ vowel at the beginning of their pronunciation. $\Re A$ vowel mark is not presented independently. Therefore diacritical mark for diphthongs with a vowel $\Re A$, require an independent mark as well as independent code of presentation, which is done in the UCS listing. The diphthongs $\Im AI$ and $\Im AU$ have their equivalent diacritical marks $\Im AI$ and $\Im AI$ respectively.

 $\vec{\exists}$ Al and $\vec{\exists}$ AU are derived from their respective characters, therefore are not included in the character chart.

Example: Application of diphthong diacritical mark to ba-akha:.

Table 11 : Application of diphthong vowel diacritic mark to Bā-ākha:.

Diphthong	Diacritic	Bā-ākha:	Mola-du bā-ākha: with a diphthong diacritic mark.	Mola-madu bā-ākha: with a diphthong diacritic mark.
JAI	3,(~	ፍ ка, ነላ SHA	TKA and JAI is TKAI	MSHA and JAI is (MSHAI
31Au	7.7	&CHA.OTTHA	ACHA and TAU is ACHAU	OTTHA and TAU is OTTHAU

8- Modifier

8.1-- A Vowel Modifier Diacritic- A Nasal Sound Mark

Nasal sound diacritical mark is a vowel modifier and applicable only after a vowel diacritic mark. Single alphabet may have a single word and may be a different word with a diacritical mark.

न, ि, s the application sequence for KI with a nasal sound नि .

Nasal sound diacritical mark is named Milāfuti

Application of nasal sound diacritical mark to vowel and diphthongs.

Table 12: Application of nasal sound diacritic mark to vowel and diphthongs.

AК	MAA.	<u>0</u> 0	उ∪	ರ್ವ	310	IAE	31AU
अंद्र	MAA	ळ्	まむ	JĖ	310	नी	<u>ชี</u> ใบ้
π̇́КА́	नौKAÅ	किंKाँ	ี่ฐ์ห∪้	ή́КӖ	मौKÖ	สีหล้เ	์ ฟี้หลับ

Note: Vowels with a nasal sound are presented by

$A'(\widetilde{A})$, $AA'(A\widetilde{A})$, $I'(\widetilde{I})$, $U'(\widetilde{U})$, $E'(\widetilde{E})$, $O'(\widetilde{O})$, $A''(\widetilde{AI})$ and $A''U(\widetilde{AU})$.

8.2- A Functional Vowel Modifier Diacritic- A Long Sound mark

Long sound Diacritic mark "%" is named "LIPHUTI"

Vowel A with long sound diacritic "1 LONG SOUND" is Al

Vowel 게AA with long sound diacritic "& LONG SOUND" is 列&

Vowel vI with long sound diacritic "& LONG SOUND" is vi

Vowel $\overline{\mathtt{J}}\mathtt{U}$ with long sound diacritic " ℓ LONG SOUND" is $\overline{\mathtt{J}}_{\ell}$ ($\overline{\mathtt{J}}_{\ell}$)

Long sound mark is not in use. However, it is not prohibited with vowel E and O.

Vowel ರೆE with long sound diacritic "% LONG SOUND" is ರೆ 8

Vowel 310 with long sound diacritic "& LONG SOUND" is 318

8.3 Vowels with Nasal sound and Long Sound Diacritical Mark

Long sound vowel modifier has the functional capacity to change nasal sound and the long sound into a long nasal sound.

Vowel AA with long and nasal sound diacritical marks is Al. Diagraph of long and nasal sound mark is resented by a monograph diacritic.

The monograph Long Nasal Sound mark is known as sinha:phuti.

Table 13: Replacement of nasal and long sound diagraph by a long nasal sound monograph.

or .	Nasal Sound Mark	k with Vowel	Long Sour	nd Mark with Vowel	Long Nasa	al Sound Mark
A \mathcal{F} lewov		ॳ	8,	3 8	48	, अ
AA JK lewov	•	औ	8,	आ१	औ8	, পা
Vowel ထ I	٠,	900	8,	જૂં 8 જીં	90 8	, 👸
Vowel 3 U	٠,	3	8,	38,3	38	,
Vowel⇔ E	٠,	ð	8,	36	8 C	, ને
vowel 31 o	,	31	8,	318	औं 8	, গ্ৰা

Vowel mark, nasal sound and a long sound is functionally presented by a long nasal sound mark.

Table 14: Bā-ākha: with nasal and long sound diagraph and with a long nasal sound monograph.

Bā-ākha	Bā-ākha with a nasal and a long sound diagraph mark	Bā-ākha with a long nasal sound monograph mark
न ка	र्ने 8 KÅ:	र्ने KÅ:
$\tau_{\scriptscriptstyle TA}$	Π̂8 τΑ̂:	ሳ _{TÅ:}
ज _{NA}	जै 8 NÅ:	जै _{NÅ:}

9 Six new alphabets from NEPĀLABHĀSĀ.

Six alphabets NGHA \overline{a} , NJHA \overline{a} , NHA \overline{a} , NHA \overline{a} , RHA \overline{a} and LHA \overline{a} are new to Dhamalipi and related scripts. All six alphabets are written differently to differentiate from a cluster.

9.1 NHA র্রী, MHAর্সী and LHA র্রী alphabets

NEPĀLABHĀSĀ is a monosyllabic language. Each alphabet with a vowel, forms a word. These alphabets combine with semi vowels **YA**, **WA** and vowel diacritics to form a new alphabet.

Three consonants NH, MH, LH are widely used and are shown bellow.

Table 15: Three added bā-ākha:s as upper consonant and with AA and U vowel diacritical marks.

Bā-ākha:	Consonant as an upper letter of a cluster	YA	YAA	YU	WA	WAA
NHA র্ଲ	NH & J	NHYA ST	NHYAA S	инчи	NHWA ध्वा	NHWAA
m _{ama} क्र	MH_28FJ	мнуа	мнуаа	мнү 📆	MHWA a	MHWAA STI
LHA 🐔	TH. CEL	LHYA ST	LHYAA STI	LHU - ST	LHWA E	LHWAA CAN

10 Collation order. The order sequence of NEPAALALIPI(NEPĀLALIPI) is presented in the character set in accordance with ucs.

Vowels alphabets are always the starting characters in Nepālalipi. They are followed by Bā-ākha: and then by clusters. The characters are placed to tally with the traditional collation order.

It is worth mentioning that the diphthongs are placed in between vowels. IAI and IAU as marks are presented in collation order after I and after IV vowels respectively. It is already mentioned why the marks should have separate codes. The diphthong IAI is pronounced either as two syllables like IA, I or as a single syllable IAI.

For example KAI is pronounced and written as \P KA, $\widetilde{\otimes}I$ and $\widetilde{\P}$ KAI. Being equivalent words, both the words are kept close to each other. Therefore the diphthong mark is placed after the $\widetilde{\otimes}I$. vowel. Same is the case with $\widetilde{\Im}I$ AU diphthong, which is placed after the $\Im U$ vowel.

As mentioned above, there are seven allographs in Nepālalipi. Each corresponding allograph is placed after the main alphabet.

For example Character \overline{C} TTA is an allograph of the character \overline{C} TA. Therefore the character \overline{C} TA is placed first then the allograph \overline{C} TTA follows.

The sequence of non-nasal sound alphabets are placed first and then the nasal sound follows. To fulfill the requirement, long sound mark is placed before the nasal sound mark.

Collation Order Examples:

Example: ୩KA, ୩ የKA:, ୩KÅ, ୩KÅ:. Example: ୩KAA, ୩ የKAA:, ୩ KAÅ, ୩ KAÅ:

It is a tradition to write bā-ākha: at first and its cluster afterward. Therefore the consonantal mark is placed after the vowel, nasal and long sound mark. Example:

ጥKA, ਜፙKAI, ਜKAI, ਜሪ, ਜੈκΑΙ, ਜκΑ, ਜਿκΙ, ਜκυ, ਜκΕ, πκο, πδκΑ: , ተκል, ሔκκΑ

Syllabic alphabet ¶RRI has its own syllabic mark presentation. It is placed separately at the end. Any alphabet written with RI makes the alphabet a consonant. Example

■ KA is applied with a syllabic diacritic mark _RRI will result in TKRRI, where K is a consonant.

11 Combining Characters. Diacritic marks representing vowels, vowel modifier, functional modifier and a syllabic mark, are presented by Combining Characters in UCS. They are eleven in number.

Example: ATAA vowel mark T is presented by the Combining Character T.

The Combining Character \circlearrowleft , \circlearrowleft , \circlearrowleft , \circlearrowleft represents vowel diacritical mark.

The Combining Character ♂, ♂ represents diphthong diacritical mark.

The Combining Character \circ represents vowel Modifier diacritical mark.

The Combining Character ○ 8 represents long sound Modifier diacritical mark.

The Combining Character Q represents consonantal diacritical mark.

The Combining Character Q represents RRI syllabic diacritical mark.

Their uses are presented in Annex-II Rendering Nepaalalipi Script.

12 UNIVERSAL CHARACTER SET Table XX00 - Row XX5F: NEPAALALIPI

	XX0	XX1	XX2	XX3	XX4	XX5
0	××××	<u>র</u>	₹ xx20	О ххзо	I xx40	O xx50
1	भ्र	म	व xx21	ा	 	9
2	<u>o</u> ́ó	3 8	₹ XX22	fo xx32		Q
3	xx02	ক্স	म	Q xx33	73.72	3
4	XX03 XX04	7 xx14	XX23 XX24	XX33		XX53 % XX54
5	র্	T	य xx25	Ö 1		5) xx55
6	9	થ	구 xx26	Q xx36		& xx56
7	31 xx07	O	<u>র</u> xx27	Q xx37		1
8	न ***	₹ xx18	ल xx28	<u>ұ</u>		€ xx58
9	ख ***09	5	রূ xx29	₹xx39		<u>و</u> xx59
Α	xxov U	XX1A	न xx2A	Оххха		
В	घ ^{ххов}	₹ ××18	₹ xx2B	Q _{ххзв}		1
С	xxoc X	न xx1c	8¶ xx2c	З		
D	জ ^{XXOD}	E 1	म ××≥D	9 xx3D		
Е	ব ^{XXOE}	₹ XX1E	₹xxze	₹ xx3E		
F	3 XXOF	य XX1F	○ 8	//// XX3F		

13- Code Chart Details of NEPAALALIPI

Code Poir	nt Charac	Character Name Vowel Letters	
XX00	अ्	NEPAALALIPI LETTER A	
XX01	भा	NEPAALALIPI LETTER AA	
XX02	§	NEPAALALIPI LETTER I	

Vowel Diacritic

XX03	NEPAALALIPI MARK AI	
------	---------------------	--

Vowel Letter

230	XX04	उ	NEPAALALIPI LETTER U	
				ı

Vowel Diacritic

XX05 NEPAALALIPI VOWEL MARK AU	XX05
--------------------------------	------

Vowel Letters

XX06	5	NEPAALALIPI LETTER E
XX07	31	NEPAALALIPI LETTER O

Bā-ākha Letters

XX08	न	NEPAALALIPI LETTER KA
XX09	ख	NEPAALALIPI LETTER KHA
XX0A	গ	NEPAALALIPI LETTER GA
XX0B	घ	NEPAALALIPI LETTER GHA
XX0C	2	NEPAALALIPI LETTER NGA
XX0D	ক্র	NEPAALALIPI LETTER NGHA
XX0E	व	NEPAALALIPI LETTER CA
XX0F	क्र	NEPAALALIPI LETTER CHA
XX10	গ	NEPAALALIPI LETTER JA
XX11	म	NEPAALALIPI LETTER JHA
XX12	æ	NEPAALALIPI LETTER NJA
XX13	ক্স	NEPAALALIPI LETTER NJHA
XX14	η	NEPAALALIPI LETTER TA
XX15	र	NEPAALALIPI LETTER TTA
XX16	થ	NEPAALALIPI LETTER THA
XX17	0	NEPAALALIPI LETTER TTHA

	22	
XX18	द	NEPAALALIPI LETTER DA
XX19	5	NEPAALALIPI LETTER DDA
XX1A	ধ	NEPAALALIPI LETTER DHA
XX1B	ढ	NEPAALALIPI LETTER DDHA
XX1C	न	NEPAALALIPI LETTER NA
XX1D	ध	NEPAALALIPI LETTER NNA
XX1E	ন্ধ	NEPAALALIPI LETTER NHA
XX1F	य	NEPAALALIPI LETTER PA
XX20	रू	NEPAALALIPI LETTER PHA
XX21	व	NEPAALALIPI LETTER BA
XX22	र	NEPAALALIPI LETTER BHA
XX23	म	NEPAALALIPI LETTER MA
XX24	ক্ষ	NEPAALALIPI LETTER MHA
XX25	य	NEPAALALIPI LETTER YA
XX26	न	NEPAALALIPI LETTER RA
XX27	ন	NEPAALALIPI LETTER RHA
XX28	ल	NEPAALALIPI LETTER LA

XX29	ল	NEPAALALIPI LETTER LHA
XX2A	व	NEPAALALIPI LETTER WA
XX2B	स	NEPAALALIPI LETTER SA
XX2C	ષ	NEPAALALIPI LETTER SHA
XX2D	ष	NEPAALALIPI LETTER SSA
XX2E	रू	NEPAALALIPI LETTER HA

Functional Vowel Modifier

XX2F NEPAALALIPI LONG SOUND MARK LIPHUTI
--

Vowel Modifier

XX30 NEPAALALIPI NASAL SOUND MARK MILAPHUTI

Vowel Diacritical Marks

	- 100	
XX31	ा	NEPAALALIPI VOWEL MARK AA
XX32	ि	NEPAALALIPI VOWEL MARK I
XX33	Q	NEPAALALIPI VOWEL MARK U
XX34	Ö	NEPAALALIPI VOWEL MARK E
XX35	া	NEPAALALIPI VOWEL MARK O

Consonantal Mark

XX36	Q	NEPAALALIPI CONSONANTAL MARK
	. 35	

Syllabic Mark

1			
XX37	Q	NEPAALALIPI SYLLABIC MARK RRI	
	-		

Syllable Letters

XX38	मृ	NEPAALALIPI SYLLABIC LETTER RRI
XX39	मृ	NEPAALALIPI SYLLABIC LETTER RRII
XX3A	С	NEPAALALIPI SYLLABIC LETTER LRRI
XX3B	ç	NEPAALALIPI SYLLABIC LETTER LRRII

Starting Symbol

XX3C	3	NEPAALALIPI SIGN OM	
XX3D	9	NEPAALALIPI SIGN SIDDHA	

Word Break Symbol

XX3E NEPAALALIPI SIGN KHAGWA SWAPU	
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Different Signs

XX3F MI NEPAALALIPI SIGN

Full Stop Marks

XX40	ı	NEPAALALIPI SIGN DIPU
XX41	u	NEPAALALIPI SIGN DOUBLE DIPU
XX42	IIXII	NEPAALALIPI SIGN FLOWER

NOTE: XX42 NEPAALALIPI SIGN FLOWER for end of topic.

Numerals

Code Poir	t Charac	ter Character Name
XX50	o	NEPAALALIPI DIGIT 0
XX51	9	NEPAALALIPI DIGIT 1
XX52	5	NEPAALALIPI DIGIT 2
XX53	3	NEPAALALIPI DIGIT 3
XX54	8	NEPAALALIPI DIGIT 4
XX55	5)	NEPAALALIPI DIGIT 5
XX56	3,	NEPAALALIPI DIGIT 6
XX57	1	NEPAALALIPI DIGIT 7
XX58	દ	NEPAALALIPI DIGIT 8
XX59	હ	NEPAALALIPI DIGIT 9

Code from XX43 to XX4Fand XX5A to XX5F are vacant spaces for future use.

14 Cluster (Chinā-ākha:)

Chinā-ākha: (Sequential stacking of one alphabet on the top of other) is a cluster-alphabet in Nepālalipi. Stacking is done with two or more alphabets.

Properties of individual alphabet is preserved in Chinā-ākha:. After formation of a cluster, the properties of upper alphabet and lower alphabet remains unchanged. Therefore a new type of alphabet is formed by the combination of different properties.

Properties of alphabet can be presented in two different ways. The first property is related to the application of a diacritic. The other property is related to the combination of physical structure of alphabets.

Physical structure of alphabets

Alphabets are different in shape. Within a defined area, they are differentiated by curves and lines.

Alphabets are categorized by the existence or not-existence of mola(horizontal head stroke line).

All the alphabets contain a vertical line. The vertical line may be a single or double, and straight, curve or both.

Single line, straight and straight curved

I,&,

No. (২)

No. (-1)

Table 14-1 Example of Vertical lines

Top part of vertical line is the ending point of a mola drawn from left to right.

The left part of the vertical line possesses a curved figure and is never disturbed during a cluster formation. The right part of a vertical line may or may not have a figure. If a right part exists, then the right part may be elongated horizontally or vertically downward as per the shape of a lower alphabet. The length of mola may not cover the part of the vertical line. The bottom part of a vertical line is the joining point of another alphabet. It is also a placement point for a U vowel diacritic.

If two vertical lines exist, then the bottom part of second line is a joining point for U vowel diacritic and for joining other alphabets.

If two vertical lines exist, then the top part of first line is taken as a joining point to other alphabets.

If a mola-madu alphabet is stacked with an alphabet containing two vertical lines, then a line is drawn from the middle of first line to the second line.

If mola-madu alphabet is accompanied by an extra vertical line, then a line is drawn from the middle part of the first line to the second line showing the integrity of alphabetical structure. The joining line is known as "JANI:(a belt)".

Steps for constructing Chinā-ākha:

A cluster presentation therefore is divided into four parts, individual alphabetical structure, stacking, accommodation (change in size of partial part of upper alphabet), and a cluster with diacritic.

A- Structure

- 1-Mola (Horizontal Head stroke line, may or may not be present)
- 2-Vertical line (single, double or curved)
- 3-Left part attached to the vertical line (may be enclosed within two lines)
- 4-Right part attached to the vertical line (may or may not exist)

B- Stacking

Two or more alphabets stacked to form a single alphabet. The properties of stacked alphabets are preserved.

C- Change of size

Alphabets নKA, $\mathfrak B$ NJA,নJA and নHA contain the right part attached to a vertical line which is elongated to retain its structure.

D- Diacritic

The placement of diacritic mark in the case of left, top and right side, is dictated by the upper alphabet of a cluster. The U vowel diacritic shape is dictated by the bottom alphabet of a cluster.

Detail clusters are presented in Annex-V Cluster.

14.1 Constructing Chinā-ākha:

Alphabets শKA has similar properties with alphabets ১৯NJA, গJA, গHA. They contain a figure at the right side of its vertical line. This alphabet is also similar to the alphabets with a single vertical line without their right part attached to the vertical line. These alphabets are গGA, শCA, &CHA, &TTA, ১DDA, ৸DHA, &NGA, শTA, ₹ DA, ৶NNA, NA, ¬WA, ¬BHA, ¬RA, ¬BA and ¬SHA.

Alphabet \overline{v} KHA has two vertical lines having two end points at their bottom. Alphabet \overline{v} SA has the same structure.

Alphabet গGA is a mola-madu alphabet and ೨ NJA, গSHA, 0TTHA, NNA, 4DHA and NSHA share the same property of a mola-madu alphabet.

Alphabet चGHA has two vertical lines ending with one end at their bottom. This property is shared by the alphabets मJHA, यPA, यYA and यSSA.

Alphabet &NGA is a single line curved body with two bottom points. Alphabets &CHA and &DDHA share the same property.

14.1.1 Alphabet \$\overline{1}\$ KA (XX08) :

A-Structure

1-Horizontal Head stroke line

2-Vertical line

Place for diacritical mark U

3-Left part attached to the vertical line

4-Right part attached to the vertical line

B-Stacking

Writing (KKA) alphabet is the consonant, consonant and Vowel (CCV) cluster of two alphabets TKA and TKA.

Two stacked alphabets of ¶KA represents upper ¶KA as a consonant (¬K) and lower ¬ KA as a syllabic alphabet. A vertical line is shared by both the alphabets.

C- Accommodation

The right part of an alphabet is extended to accommodate a lower alphabet. Alphabet Takka keeps its properties as an upper part and lower part. The shape of the upper alphabet is modified to accommodate the lower alphabet Takka..

Table 14.1.1-1

Upper alphabet K showing the right part is extended to accommodate lower alphabet.	The cluster KKA
ब क, क, क	雨

D- Diacritic

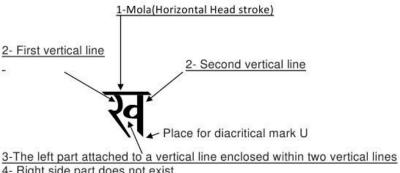
Alphabet KKA retains the property of alphabet KA and alphabet KA. Diacritical mark is applied to KKA as a single alphabet KA.

Table 14.1.1-2

KKA	KKAA	KKI	KKU	KKE	KKO
क	का	कि	斬	क्	क्या

14.1.2 Alphabet ₹ KHA-XX09

A- Structure



4- Right side part does not exist

B-Stacking

The lower point of the second vertical line of the top alphabet joins with the top part of first vertical line of lower alphabet.

Figure 14.1.2-1



C- Accommodation

The vertical line is extended vertically to touch extended horizontal line.

Table 14.1.2-1

Upper alphabet KH	Stacking of second vertical line of the lower alphabet	Extension of mola	Cluster KHKHA
ख	ख् ↑	ख्	ख्य

D- Diacritic

Alphabet KHKHA is derived from the property of alphabet KHA and alphabet KHA. Diacritical mark is applied to KHKHA as a single alphabet KHA.

Table 14.1.2-2

KHKHA	KHKHAA	KHKHI	KHKHU	KHKHE	KHKHO
ख्य	ख्या	िख्य	ख्यु	ख्	ख्या

14.1.2.1 Cluster formation between Alphabet KA and KHA

Alphabet KA has one vertical line.

Alphabet KHA has two vertical lines.

The top of first vertical line is joined to the bottom of upper vertical line. The second vertical line of lower alphabet KHA is extended vertically till the level of horizontal head stroke. The horizontal head stroke of upper alphabet is then extended to meet the extended vertical line of the lower alphabet.

Table 14.1.2-3

Upper K and Lower KHA	KA is compromised to accommodate KHA	Vertical line of lower KHA extended	Required the extension of horizontal line	Cluster KKHA
न स्व	का स्व	क्त ↑	क्र	क्क

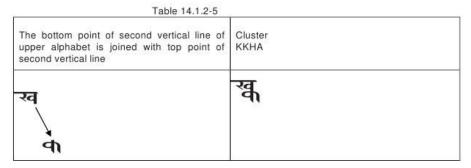
Alphabet KKHA inherits the property of alphabet KA and alphabet KHA. Diacritical mark is applied to KHKHA as a single alphabet.

Table 14.1.2-4

KKHA	KKHAA	KKHI	KKHU	KKHE	KKHO
क्र	क्रा	क्कि	क्र	죂	स्रा

14.1.2.2 Cluster formation between Alphabet KHA and KA

Alphabet KHA and KA is a cluster of two alphabets, the upper alphabet with double vertical lines and lower alphabet with a single vertical line.



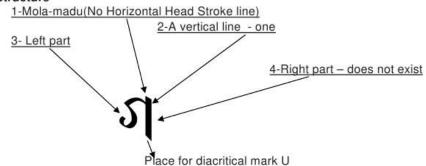
Alphabet KHKA retains the property of alphabet KHA and alphabet KA. Diacritical mark is applied to KHKA as a single alphabet.

Table 14.1.2-6

KHKA	KHKAA	KHKI	KHKU	KHKE	KHKO
ख	खा	खि	ख	শ্ব	শ্বা

14.1.3 Alphabet ज GA-XX0A

A- Structure



B-Stacking

Two stacked alphabets of GA which represents upper GA represents a GA consonant and lower presents GA. A vertical line is shared by both the alphabets.

C-Accommodation

The shape of an alphabet is not compromised.

D- Diacritic

Alphabet GGA retains the property of alphabet GA with mola-madu property and lower alphabet GA as GA, TA, BHA, SHA group. Diacritical mark is applied to GGA as a single alphabet GA.

Table 14.1.3-2

GG/	A GGAA	GGI	GGU	GGE	GGO	GGAA & " JANI:"(belt)
अ	आ	झि	श्च	প্ল	লা	आ, अरी।

The vertical lines are joined by a slash line, named " JANI:"(belt) and is placed at the middle or slightly below the top part of vertical line of the alphabet.

14.1.3.1 Cluster formation between alphabet KA and GA

Alphabet KGA is a cluster of two alphabets, upper alphabet with a single vertical line and lower alphabet with a single vertical line.

Table 14.1.3-3

The bottom part of the vertical line of upper alphabet is joined with the upper part of the vertical line of lower alphabet.	The right part of the vertical line of upper alphabet K is compromised to retain its shape.
क	त ,

Alphabet KGA retains the property of alphabet K and alphabet GA. Therefore KGA alphabet possesses the property inherited from KA and GA. Diacritical mark is applied to KGA as a single alphabet with U vowel diacritic as GA, TA, BHA, SHA group..

Table 14.1.3-4

KGA	KGAA	KGI	KGU	KGE	KGO	
ज्ञ	न्ना	क्रि	ज्ञ	新	ज्ञा	

14.1.3.2 Cluster formation between alphabet GA and KA

Alphabet GKA is a cluster of two alphabets, upper alphabet with a single vertical line with mola-madu type and lower alphabet with a single vertical line.

Table 14.1.3-5

Joining of upper	Stacking
G and lower KA	G & KA
ज का	य

Alphabet GKA retains the properties of alphabet GA and alphabet KA. Diacritical mark is applied to GKA as a single alphabet.

Vowel diacritic is applied as a mola-madu alphabet.

Table 14.1.3-6

GKA	GKAA	GKI	GKU	GKE	GKO
य	क्षा	िक्स	य	প্রে	ঞা

14.1.3.3 Cluster formation between Alphabet KHA and GA

Alphabet KHGA is a cluster of two alphabets, upper alphabet with double vertical lines and lower alphabet with a single vertical line.

Table 14.1.3-7

Joining of upper KH with lower GA	Cluster KHGA
ख	खु

Alphabet KHGA retains the properties of alphabet KHA and alphabet GA. Diacritical mark is applied to KHGA as a single alphabet with U vowel diacritic as GA, TA, BHA, SHA group.

Table 14.1.3-8

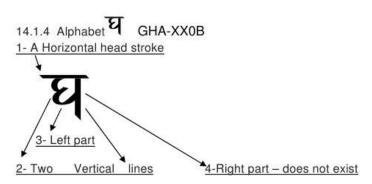
KHGA	KHGAA	KHGI	KHGU	KHGE	KHGO
ख	ख्रा	द्भि	खु	ख	ন্না

14.1.3.4 Cluster formation between Alphabet GA and KHA Alphabet GA has one vertical line. Alphabet KHA has two vertical lines.

Alphabet GKHA retains the property of alphabet GA and alphabet KHA. Diacritical mark is applied to GKHA as a single alphabet.

Table 14.1.3-10

GKHA	GKHAA	GKHI	GKHU	GKHE	GKHO
र्भ	ग्या	िर्म	र्भ	(श्री	(रम्



B-Stacking

Two stacked alphabets of GHA which represent an upper GHA and represents a GH consonant, and the lower presents GHA. A vertical line is shared by both the alphabets.

C- Accommodation

The first vertical line of the bottom alphabet is joined to the bottom point of upper vertical line. The second vertical line of the bottom alphabet is extended vertically to the level of a horizontal line. The horizontal head stroke of upper alphabet is then extended to meet the extended vertical line of the lower alphabet.

Table 14.1.4-1

Stacking of upper and lower alphabet of GH with GHA	Extension of lower alphabet GHA	Extension of horizontal head stroke
⁻ घ ध	घ्ध∱	घ्य

D- Diacritic

Alphabet GHGHA retains the property of alphabet GHA and alphabet GHA. Diacritical mark is applied to GHGHA as a single alphabet.

Table 14.1.4-2

GHGHA	GHGHAA	GHGHI	GHGHU	GHGHE	GHGHO
घा	घ्या	घ्यि	च्य	घा	ध्या

14.1.4.1 Cluster formation between alphabet KA and GHA Alphabet KA has one vertical line. Alphabet GHA has two vertical lines.

Table 14.1.4-3

Joining of Upper K with lower GHA	Extension of vertical Line of GHA	Extension of horizontal line	Cluster KGHA
क्	क्त↑	क	क
ેધ			

Alphabet KGHA retains the property of alphabet KA and alphabet GHA.. Diacritical mark is applied to KGHA as a single alphabet.

Table 14.1.4-4

KGHA	KGHAA	KGHI	KGHU	KGHE	KGHO
क	क्धा	क्षि	-क्	र्स	क्ता

14.1.4.2 Cluster formation between alphabet GHA and KA Alphabet GHA has two vertical lines. Alphabet KA has one vertical line.

Table 14.1.4-5

Joining of upper GH with lower KA	Cluster GHKA
घ्	घ
के	

Alphabet GHKA retains the properties of alphabet GHA and alphabet KA. Diacritical mark is applied to GHKA as a single alphabet.

Table 14.1.4-6

GHKA	GHKAA	GHKI	GHKU	GHKE	GHKO
घ	म्बा	घ्रि	घ्व	ब्र	দ্ধা

14.1.4.3 Cluster formation between Alphabet KHA and GHA

Table 14.1.4-7

Stacking of upper KH with lower GHA	Vertical line extended	Extension of horizontal line	Cluster KHGA	
्ख	ख्यॄ∱	खु	ख्य	
ધ				

Alphabet KHGHA retains the properties of upper alphabet KHA and lower alphabet GHA. Diacritical mark is applied to KHGHA as a single alphabet.

Table 14.1.4-8

KHGHA	KHGHAA	KHGHI	KHGHU	KHGHE	KHGHO
ख्य	ख्या	िष्य	ख्यु	ख्य	ख्या

14.1.4.4 Cluster formation between Alphabet GHA and KHA Alphabet GHA has two vertical lines.

Alphabet KHA has two vertical lines.

Table 14.1.4-9

Joining of upper GH with lower KHA	Vertical line extended	Extension of horizontal line	Cluster GHKHA	
घ	घ्य†	घ्यं	घ्य	
रंव		(580.0)	1670.07	

Alphabet GHKHA retains the property of upper alphabet GHA and lower alphabet KHA. Diacritical mark is applied to GHKHA as a single alphabet.

Table 14.1.4-10

GHKHA	GHKHAA	GHKHI	GHKHU	GHKHE	GHKHO
घ्य	घुा	ध्यि	ध्यु	घ्य	ध्या

14.1.4.5 Cluster formation between Alphabet GHA and GA Alphabet GHA has two vertical lines. Alphabet GA has one vertical line.

Alphabet GHGA retains the properties of alphabet GHA and alphabet GA.

Table 14.1.4-11

Joining of GH with GA	Cluster GHGA
घ	घ्न
์ ภ	

Diacritical mark is applied to GHGA as a single alphabet. U vowel diacritic is applied as GA,TA,BHA,SHA group.

Table 14.1.4-12

GHGA	GHGAA	GHGI	GHGU	GHGE	GHGO
घ	घा	ब्रि	घ	न्न	ভ্রা
A	211	121	\mathfrak{I}	21	211

14.1.4.6 Cluster formation between alphabet GA and GHA Alphabet GA has one vertical line. Alphabet GHA has two vertical lines.

Alphabet GGHA retains the properties of alphabet GA and alphabet GHA.

Table 14.1.4-13

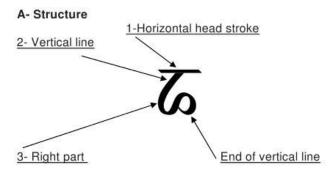
Joining of G with GHA	Extension of second vertical line of the lower alphabet	Joining of extended second vertical line with a jani:(belt)	Cluster GGHA
গ্	र्ग्	ग्री	थी
ધ	ધ		

Diacritical mark is applied to GGHA as a single alphabet.

Table 14.1.4-14

GGHA	GGHAA	GGHI	GGHU	GGHE	GGHO
यी	<u>य्</u> वा	ियी	र्भ	(হ্ব	(या

14.1.5 Alphabet & NGA-XX0C



B-Stacking

Table 14.1.5-1

Joining of Upper alphabet NG with a lower alphabet NGA	The cluster NGNGA
\$ \$	₹

The end of vertical line of upper alphabet is joined to the starting point of vertical line of the lower alphabet.

C- Diacritic

Alphabet NGNGA retains the property of alphabet NG and alphabet NGA. Diacritical mark is applied to NGNGA as a single alphabet.

Table 14.1.5-2

NGNGA	NGNGAA	NGNGI	NGNGU	NGNGE	NGNGO
જુ	<u>छ</u> ा	જૂિ	8	To	હ્યા

14.1.5.1 Cluster formation between Alphabet KA and NGA Alphabet KA has one vertical line. Alphabet NGA has two vertical lines.

Table 14.1.5-3

Joining of upper K with lower NGA	Extension of right part of upper alphabet K	Cluster KNGA
न	क्र∙	ক্র
à		

Alphabet KNGA retains the property of alphabet KA and alphabet NGA. Diacritical mark is applied to KNGA as a single alphabet.

Table 14.1.5-4

KNGA	KNGAA	KNGI	KNGU	KNGE	KNGO
क्र	ह्या	क्रि	五	あ	হ্লা
ω _ι	WII	1201	(Q)	6	WII

14.1.5.2 Cluster formation between Alphabet NGA and KA Alphabet NGA has one vertical line. Alphabet KA has one vertical line.

Table 14.1.5-5

Joining of upper NG with lower KA	Cluster NGKA
$\mathbf{\Sigma}$	<u>(4)</u>
र्भ	

Alphabet NGKA retains the property of alphabet NGA and alphabet KA. Diacritical mark is applied to NGKA as a single alphabet.

Table 14.1.4-6

NGKAA	NGKI	NGKU	NGKE	NGKO
দ্ধা	<u>ক্</u>	4	A	ন্ধা
	NGKAA	NGKAA NGKI	NGKAA NGKI NGKU	NGKAA NGKI NGKU NGKE

14.1.5.3 Cluster formation between Alphabet KHA and NGA Alphabet KHA has two vertical lines. Alphabet NGA has one vertical line.

Joining of Upper KH with lower NGA

Cluster KHGA

Alphabet KHNGA retains the property of alphabet KHA and alphabet NGA. Diacritical mark is applied to KHNGA as a single alphabet.

Table 14.1.5-8

KHNGA	KHNGAA	KHNGI	KHNGU	KHNGE	KHNGO
खु	ख्रा	ख्टि	खू	E.	স্থা

14.1.5.4 Cluster formation between Alphabet NGA and KHA Alphabet NGA has two vertical lines. Alphabet KHA has two vertical lines.

Table 14.1.5-9

Joining of upper NG with lower KHA	NAME AND ADDRESS	Extension of horizontal line	Cluster NGKHA	
<u>&</u>	વ્યા↑	ब ्	द्य	
रेव	883			

Alphabet NGKHA retains the property of alphabet NGA and alphabet KHA. Diacritical mark is applied to NGKHA as a single alphabet.

Table 14.1.5-10

NGKHA	NGKHAA	NGKHI	NGKHU	NGKHE	NGKHO
द्भ	ख्या	द्य	ब्यु	व्य	জ্মা

14.1.5.5 Cluster formation between Alphabet GA and NGA Alphabet GA has two vertical lines. Alphabet NGA has one vertical line.

Joining of upper G with lower NGA Cluster GNGA

Alphabet GNGA retains the property of alphabet GA and alphabet NGA. Diacritical mark is applied to GNGA as a single alphabet.

Table 14.1.5-12

GNGA	GNGAA	GNGI	GNGU	GNGE	GNGO
જૂ	27	િટ્ટ	2	(%	(2)

14.1.5.6 Cluster formation between Alphabet NGA and GA Alphabet NGA has two vertical lines. Alphabet GA has two vertical lines.

Table 14 1 5-13

Joining of upper NG with lower GA	Cluster NGGA
<u>&</u>	क्र
जै	

Alphabet NGGA retains the property of alphabet NGA and alphabet GA. Diacritical mark is applied to NGGA as a single alphabet.

Table 14.1.5-14

NGGA	NGGAA	NGGI	NGGU	NGGE	NGGO
द्ध	<u>দ্লা</u>	<u>জ</u>	ङ्ग	Ã	জা

14.1.5.7 Cluster formation between Alphabet GHA and NGA Alphabet GHA has two vertical lines. Alphabet NGA has one vertical line.

Table 14.1.5-15

Joining of upper GH with lower NGA	Cluster GHNGA	
घ	घ	
٩	6	

Alphabet GHNGA retains the property of alphabet GHA and alphabet NGA. Diacritical mark is applied to GHNGA as a single alphabet.

Table 14.1.5-16

GHNGA	GHNGAA	GHNGI	GHNGU	GHNGE	GHNGO
घ	घा	घ्टि	घ	B	ह्य
(2)	ဖျ	100	Ca	ထ	(0)

14.1.5.8 Cluster formation between alphabet NGA and GHA Alphabet NGA has one vertical line. Alphabet GHA has one vertical line.

Table 14.1.5-17

Joining of upper NG with lower GHA	Extension of vertical line of GHA	Extension of horizontal line	Cluster NNGHA
<u>&</u>	ন্দ্ৰ ↑	ब्य	ন্ম
[*] ધ			

Alphabet NGGHA retains the property of alphabet NGA and alphabet GHA. Diacritical mark is applied to NGGHA as a single alphabet.

Table 14.1.5-18

NGGHA	NGGHAA	NGGHI	NGGHU	NGGHE	NGGHO
ब्य	व्या	द्यि	ন্ম	ন্দ্ৰ	শ্ম

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Annex-I Requesters' reference

Manandhar, Dev Dass (Manandhar, Dev Das). Education: MSc (Chemicko Technologicka Faculta, Bratislava, Czechoslovakia, Europe, 1979) Related work: Maker of thanNhiti. Software (transliteration-Roman to Debanāgari, Nepālalipi and Ranjanā,) Co-Author of "Ranjana Thahiti" and "Nepal Lipi Thahiti" under ASCII and ANSII code. Communication : Residence : Thahity, Kathmandu, Nepal. Postal: P.O.Box No 471. GPO Kathmandu Nepal. Telephonic: LAN Line : 00977-1-4221360; 00977-1-4229211; Mobile No: 9741116569 Electronic: e-mail: ddmanandhar@gmail.com and ldhd@ntc.net.np Web Site: NEWASIXA.com Samir Karmacharya (Samir Karmāchārya) Education: Bachelor in Information Technology(Informatics School) Maker of "Kalimāti" UNICODE font for Debanāgari. Co-Author of "Ranjana Thahiti" and "Nepal Lipi Thahiti" Residence : Kalimati, Kathmandu, Nepal Telephonic: LAN Line : 00977-1-4270780; 00977-1-4282878 Mobile No: 9840050339 e-mail: saneer@gmail.com and saneer@hotmail.co.uk Bishnu Chitrakar (Bishnu Chitrakar) Related work: Some Views On Grammatical Problems in Nepāla Bhāsā Nepālabhāsā (Alphabetic Book) Nepālalipi wa Nepālabhāsā (Nepālalipi script and Nepālabhāsā language) Residence: Daloo Āwāshiya Chhetra Kathmandu Nepal Telephonic: LAN Line : 00977-1-4289998 Mobile No: 9841169130 e-mail: bishnuchitrakar@hotmail.com

Annex-II Rendering Nepaalalipi Script

Rendering Nepaalalipi Script explains rules for minimal rendering of Nepaalalipi script as part of a plain text sequence. It gives a map and sequential placement between UNICODE character and the glyph in a Nepaalalipi font. Fifteen rules from RR1 to RR15 are described along with YA and WA combining characters.

Convention:

Ākha: - Single or multiple consonants with or without a vowel or with a diphthong.

Bā-ākha: - Single alphabet with a vowel A at its end. Syllable CV, where V is represented by a vowel.

Chinā-ākha:(CnVm)- Consonant cluster or Consonant and a cluster with or without diacritic mark. Note:- CnVm where n represents number of consonants and m represent number vowels.

Consonant - A Letter or a cluster with a consonantal mark at its bottom.

UL - Upper letter - Consonant, which can exist only in cluster format.
 MI - Middle letter - Consonant, which can exist only in cluster format.

Lower letter – Bā-ākha:, which can exist only in cluster format.

Head-stroke - An element placed at the top of a Mola-du alphabet

~ (*) - Nasalization diacritic –a vowel modifier –

(Example: Nasal Sound Vowels are A,AA,I, U,E,O,(A, AA,I,U,E,O)

: - Long Sound diacritic -a vowel modifier -

(Example: Long Sound Vowels are A:,AA:,I:,U:,E:,O:.)

NLNJ - NEPAALALIPI NON-JOINER

NLJ - NEPAALALIPI JOINER

NLY - NEPAALALIPI SEMIVOWEL-Y NLW - NEPAALALIPI SEMIVOWEL-W

NLUL - NEPAALALIPI UPPER LETTER MARK
NLLL - NEPAALALIPI LOWER LETTER MARK

CC – Combining Character

CCC − Consonantal Combining Character- Q

VCC - Vowel Combining Character-이, fo, Q, Ö, 이, 중, 점

VMCC – Vowel Modifier Combining Character- o

FVMCC - Functional Vowel Modifier Combining Character- 08

CCY - Combining Character YA-CCW - Combining Character WA-

RRn - Rendering Rule (n stands for numerals from 1 to 14)

Consonantal Combining Character − CCC

RR1-If a Bā-ākha: precedes a consonantal diacritic mark,

then the Bā-ākha: changes into a consonant.

Figure 1 Formation of a Consonant

RR2- If CCC is preceded by any other CC, then the CCC will replace the last CC.

Figure 2 Replacement of one CC by another

Charcter	Combining Charac	ter Displa	у	Glyph Order	Character Order
KA,CCC+	ccc	->	К		
ब,् +	Q	->	क्	न,्	क,्
KA,CCC+	vcc	->	KAA		
ब,् +	ा	->	का	क , T	क,ा
KA,CCC+	FVMCC	->	KA:	N W. 10	
ब,् +	08	->	न १	क, १	क,ः≀
KA,CCC +	VMCC	->	KÅ		
क,् +	ó	->	र्वा	क , *	न,ं

RR3- If a consonant or consonantal cluster precedes Bā-ākha:, then both are joined together to form a cluster.

Figure -3 Formation of a Cluster- Consonant and a Bā-ākha:

Consonant		Bā-ākha:	Chinā-ākha: Display		Glyph Order	Character Order	
М	+	PA	->	MPA	Mul, Pll	म,्,य	
म्	+	य	->	ग् य	च्म, य		
К	+	SSA	->	KSSA	Ligature KSSA	क,्,य	
क्	+	य	>	<u>3</u>	<u>3</u>		
j	+	ALM	ار <-	ALV	Ligature JNJA	গ,্,ঞ	
<u>জ</u>	+	D 3	-> 3	34	रू	, , , ,	

RR4- If a consonant or consonantal cluster precedes $B\bar{a}$ - \bar{a} kha:, then both are joined together to form a single cluster or extreme left alphabet is displayed with consonantal mark and other will form a new cluster.

Figure -4 Consonant Cluster and a Bā-ākha:

a) Formation of a cluster

Consonant C	Cluster Bā-ākha:	Chinā-ākha: Display	Glyph Order	Character Order
MP	+ YA	-> MPYA	Mul, P _{ML} , Yll	म.्.प.्.य
म्प	+य	-> "य	म, य, य	3333

b) Failed to form a cluster

Consonant	Cluster Bã-ākha:	Chinā-ākha: Display	Glyph Order	Character Order
KN	+ YA	-> KNYA	Nut, Ytt	क.्.्न.्.्य
क्	+ य	->क्च	कि,्, ^ज , य	

RR5- If CCC is placed after one or more CCs, then all CCs will be replaced by CCC.

Figure -5 Replacement of one CC by the other.

Character with CC	Added CC D	isplay	Glyph Order	Character Order
KAA	+ CCC	-> K	क,्	न,्
ন, া	+ Q	-> क्		,,~
KAÅ	+ CCC	-> K	940.6	क,्
क,ा,ं	+ Q	-> क्	ज,्	
KAĀ:	+ CCC	-> K	क, ्	क,्
क,ा,ं,ः≀	+ Q	-> क्		100000000000000000000000000000000000000

Vowel Combining Character–ು, fo, ್ರ, ್, ್

RR6- If a $B\bar{a}$ - $\bar{a}kha$: or Chin \bar{a} - $\bar{a}kha$: precedes a AA and U vowel diacritical mark, they are stored logically in a character order.

Figure -6 "AA" vowel diacritic mark applied to mola-du

Bā-ākha:	VCC ākha:	Display	Glyph Order	Character Order
KHA	+ AA ->	KHAA	स्र,ा	स्,ा
ख	+ा ->	स्रा		
KKHA	+ AA -> k	KHAA	Kut, KHit, AA	क,्,स्,ा
क्र	+ ा ->	क्रा	क. स . T	11, 0, 11, 01

Figure -7 "AA" vowel diacritic mark applied to mola-madu

Mola-mad	u bā-ākha: VCC	Ākh	a: Display	Glyph Order	Character Order
GA	+ AA	->	GAA	গ,া	গ.া
গ	+ ा	->	গা	35537	1,01
GKA	+ AA	->	GKAA	Gui, Kil, AA	20 4 0 O
ય	+ ा	->	শ্বা	51, en . 1	ग,्,क,्,ा

Figure -8 "U" vowel diacritic mark

Bā-ākha:	Vowel	->ākha: [Display Glyph Order	Character Order
MA	+U	-> MU	म, .	म,Q
म	+Q	-> म्		,,,
KMA	+U	-> KMU	J Kul, Mil, U	T - T O
क	+ Q	-> ग्र		क,्,म,्

Figure -9 "U" vowel diacritic mark with GA, TA,VA,SHA alphabet

Bā-ākha:	Vowel ->ākha: Display	Glyph Order	Character Order
VA	+U -> VU	ग, ु	7 ,Q
ए	+Q -> ¶		1,,4
KVA	+U -> KVU	Kul, Vil, U	ब,्,ग,्
रु	+Q -> ₹¶	का, ग,	

RR7- If a Bā-ākha: or Chinā-ākha: precedes a I,E,O,AI and AU vowel diacritical mark, they are stored logically in a character order. This diacritic also uses the extreme left space of the orthographic syllable.

Figure -10 "I" vowel diacritic mark

Bā-ākha	1:	VCC	Ākha	1:	Glyph Order	Character Order
GHA	+	1	->	GHI	ि, घ	घ.ि
घ	+	ি	->	घि	**	1,10
KGHA	+	1	->	KGHI	I, Kut, GHtt,	क,्,घ,ि
क	+	ि	->	क्षि	, ক, ম	", \(\), \(\), \(\)

Figure -11 "E" vowel diacritic mark

Bā-ākha:	VCC Ākha:	Glyph Order	Character Order
NA	+ E -> NE	~, 6	ర.వ
2	+ ♂-> ℃		
KNA	+ E -> KNE	E, Kul, Nil,	न,्, ढ ,ि
क्र	+ ♂-> వ ്	۵, ۴, ۳	", Q, W , IO

Figure -12 "E" vowel diacritic mark applied to mola-madu

Bā-ākha:	VCC Ākha: Display	Glyph Order	Character Order
THA	+ E -> THE	(,थ	ય,ઉ
થ	+ া -> খে	HK.	,,,,
THKA	+ E -> THKE	E, THUL, KLL	थ,्,क,ँ
ક્ષ	+ ্ -> (ধ	(.થ.ન	1, 2, 11, 3

Figure -13 "O" vowel diacritic mark

Bā-ākh	a: \	/owel	->Ākha: Display	Glyph Order	Character Order
JHA	+	0	-> JHO	~।,म	म,ा
म	+	া	->मा	231,596,59	1,04
KJHA	+	0	-> KJHO	O, THUL, KIL	क,्,म,ा
垂	+	া	->4川	~ી, ન, મ	,,,,,,,,

Figure -14 "O" vowel diacritic mark_applied to mola-madu

Bā-ākha:	Vowel	->ākha: Display	Glyph Order	Character Order
SHA + O		-> SHO	/ 2 34	w M
শ + ল	+ 🛪	-> (ell	(7 , 81	শ,তা
SHLA	+ 0	-> SHLO	O, SHUL,LIL	শ,্,ল,গা
क्ष	+ 🗇	-> গ্লো	(7 , 81, et	31,0,41,01

Figure -15 "AI" Diphthong diacritic mark-

Bā-ākha:	Vov	vel	->Ākha: Display	Glyph Order	Character Order
TA	+	AI	-> TAI	⇒, n	7,7
ग	+	ਰ	-> गॅ		
TWA	+	AI	-> TWAI	AI, TUL, WILL	ग,्,ब,ँ
<u>ਫ</u>	+	ਰ	-> बॅ	ੁੱ, ੯, ਕ	., 5, 1,

Figure -16 "AI" Diphthong diacritic mark $(\stackrel{\widetilde{\smile}}{\circ})$ applied to mola-madu

Bā-ākha:	Vowel ->Ākha: Display	Glyph Order	Character Order
DHA	+ AI -> DHAI	ि, ध	ਬ , ਨੌ
ধ	+ ँ -> खे	300 NO. 1000	۹, ٥
DHWA	+ AI -> DHWAI	AI, DHut, Wit	
뵱	+ ँ -> ब्र	(⁷ , ⁸ , a	ध,्,व,ँ

Figure -17 "AU" Diphthong diacritic mark-

Bā-ākha:	Vowel -> ākha: Display	Glyph Order	Character Order
DA	+ AU -> DAU	न,र्य	द,ाँ
द	+ ॉ -> दॉ		
DDHA	+ AU -> DDHAU	AU, Dut, DHIL	द,्,ध,ॅ
द्व	+ ों -> ब्री	ી, ^ટ , ઘ	30 278 10

Figure -18 "AU" Diphthong diacritic mark(())applied to mola-madu

Bā-ākha:	Vo	owel ->ākha: Display	Glyph Order	Character Order
SHA	+ 4	AU -> SHAU	ৌ ,শ	শ.ল
শ	+	ী ->শৌ		
SHNA	+ /	AU -> SHNAU	AU, SHut, Ntt	ण,्,न,ठा
প্র	+	ৌ ->ৠৌ	(1, 81, 61,	

Vowel Modifier Combining Character- O-VMCC

RR8- If Bā-ākha: or Chinā-ākha: or VCC is followed by a VMCC, they are stored logically in a character order.

Figure -19 Nasal Sound diacritic mark- a vowel modifier

Character	Diacritc Display	Glyph Order	Character Order
DA	+ Nasal Sound -> DÅ	द, ⁴	द,ं
द	+ o -> t		
DWA	+ Nasal Sound -> DWÅ	Dul, Will, Nasal Mark 로, 대,	द,्,ब,ं
<u>ৱ</u>	+ ं ->बं	-, a,	
DWI	+ Nasal Sound -> DWi	I, DUL, WLL,Nasal Mark	द,्,ब,ि,ं
ব্লি	+ ं ->िव	ि, ^ट , ब, [†]	20 2002 OV 33

NOTE: VMCC can exist either after Bä-ākha; or after VCC

Functional Vowel Modifier Combining Character-○8-FVMCC

Functional Vowel Modifier with Vowel Combining Character Figure -20 Long Sound diacritic mark- a vowel modifier

FVCC

a) Bā-ākha: DA Long Sound -> DA: Character Display Glyph Order Character Order Diacrite द -> द8 08 द,०8 द,०8

-> ākha:

RR9- If FVMCC is placed after I or U VCC, then the CC diagraph is replaced by a monograph.

Figure -21 Long Sound diacritic mark- a vowel modifier

Character Diacritc Display	Glyph Order	Character Order
Ākha: FVCC -> ākha: with a monograph mark DI + Long Sound -> DI:	द ,ी	द,ि,ः।
दि + १ ->दी	1000 \$00.00	
DU + Long Sound -> DU:	द , ू	द,०,०१
द + % -> द		",","

RR10- If FVMCC is placed after VMCC, then the CC diagraph is replaced by a monograph.

Figure -22 Nasal and Long Sound diacritic mark together

Character	Diacritc	Display	Glyph Order	Character Order
DA	+ Long Sound ->	DÅ:	Long Nasalization Mark 로 ,	द,ं,०१
दं .	+ 08 -:	> दै	265 404	
DÎ .	+ Long Sound ->	Di:	f -z ·	द,ि,ं,ः≀
दि	+ 08 ->	• दि	f, द, ं	
DŮ -	+ : Long Sound -	> DÜ:	_ =	द,०,०,०।
女 .	+ 08 -	> दे	द, ॣ, `	#27 ES

Restricted Sequence of Combining Characters

RR11- If restricted sequence of CCs are placed together, then all CCs will be replaced by the last CC alone.

- 7-.1 With CCC(Q) no other CC(O8, O , Q,) is allowed
- 7.2 There should not be any CC before VCC(Q)

Sequence Q, Q is not allowed. Result Q. Result Q. Result Q.

7.3 VMCC(o) is not allowed before VCC(Q)

Sequence o, q is not allowed. Result q

7.4 FVMCC(08) is not allowed before other CC(0,0,0)

Sequence 08, 6 is not allowed. Result 6

Sequence 08, Q is not allowed. Result Q

Sequence 08, Q is not allowed. Result Q

7.5 Two same CCs are not allowed.

Sequence o, o is not allowed. Result o

Preventing Cluster Formation

RR12-If a consonant or a consonant cluster precedes a NLNJ mark, cluster formation is prevented.

Figure -23 Preventing Cluster Formation in Nepālalipi

Charac	cter+NLNJ +SSA	-> Display	Glyph Order	Character Order
KAc	+NLNJ +SSA	-> KAc,SSA	क य	
क्	+NLNJ + 적	⇒ क्ष	", , , ,	क,्, _{ыы,} य

RR13-If a consonant precedes a NLUL mark, upper-letter is displayed.

Figure -24 Upper Letter Display

Character	+ NLUL -> Display	Glyph Order	Character Order
K	+NLUL -> K _{UL}	五	क,्, NLUL
क्	+NLUL -> 독	8	N, ♥, NLUL

Figure -25 Use of Upper-Letter

Character + NLUL+ Bā-ākha: -> Display	Glyph Order	Character Order
Upper-Letter Bā-ākha: Cluster K ^{UL} + SSA -> KSSA - + 잭 -> 귶	ず, d K ^{nr} , ss ^{rr}	क,्,NLUL,म

Figure -26 Lower Letter Display

Charac	ter + NLUL ->	Display	Glyph Order	Character Order
KA	+NLLL ->	KA _{LL}	KA _{LL}	क,्,NLLL
न	+NLLL ->	ব 1	41	, ,,

Combining Character and Alphabet "RA"

Combination of a consonant alphabet "RA" with other consonants is rare in Nepālabhāsā. In fact, it is treated as an allograph of the alphabet "L".

The treatment for a consonant "R" is different in many ways.

- 1) "u" Vowel diacritic mark is not placed at the bottom but at the right side of letter.
- 2) Its upper-letter in a cluster resembles a diacritic mark.
- 3) "Q RRI " Combining Character converts Bā-ākha:, into RRI syllable...

"u" Vowel diacritic mark is not placed at the bottom but at the right side of letter.

"U" Vowel diacritic mark is not placed at the bottom but at the right side of a letter.

Example: Letter "R" and "U" vowel diacritical mark.

Figure -27 a) Consonant R as a single letter

RA +"U" Vowel mark -> RU

न + ० -> क

Figure 28 b) RA within a cluster as lower aphabet

KRA +"U" Vowel mark -> KRU

事+Q ->新

R as an upper-letter in a cluster resembles a diacritical mark

Consonantal alphabet "r" as upper-letter when preceded by other Bā-ākha:, it changes into its upper form and other Bā-ākha: will remain as it is.

Figure -29- Cluster with a letter "R"

Chai	Character Diacritc Display		Glyph Order	Character Order
R न्	+ KA + ज	-> RKA ->र्नी	क, र	न,्,क

Figure -30- Cluster "R" and "AI" diacritic

Charac	ter Diacrit	tc Display	Glyph Order	Character Order	
rka र्न	+ AI + Š	-> RKAI -> व ि	^ॐ ,क, र	न,्,क,ँ	

Figure -31- Cluster "R" and "AU" diacritic

Character Diacritc Display	Glyph Order	Character Order	
RKA + AU -> RKAU र्क + हो -> की	च,क, र	न,्,क,ल	

Application of syllabic mark "RRI" -Q

RR14-If any $B\bar{a}$ - $\bar{a}kha$: precedes "RRI Syllabic Mark" then a syllable is formed with "RRI" mark.

Figure 32- Cluster with a Syllabic Mark "RRI"

Character	Diacritic	Displ	lay Glyph Order	Character Order
Bā-ākha:		-> ā	kha:	
KA	+ RRI Syllabic	Mark -> Ki	RRI	ৰ ,ু
न	+ Q	-> 3	δ ^q 1, _c	" , ~ &

RR15 – If A vowel precedes a NLJ mark and precedes I or U vowel then ligature of AI or AU is displayed.

Figure 33- Vowel A with a vowel I

Vowel A + NLJ+ Vowel I- >Display AI	Glyph Order	Character Order	
IAE <- 1 50 + LIN + AFC	ञ, _{NLI,} ऍ	ગ, _{N⊔,} ઍ	

Figure 34- Vowel A with a vowel U

Vowel A + NLJ+ Vowel AU- >Display AU	Glyph Order	Character Order	
UA +NLI + JU -> JA	अ, _{NLJ} ,उ	अ, №,उ	

데(YA) and 여(WA) Combining Character

Letter YA and WA are semivowels and have ability to combine with all consonants to make another syllable. It is a custom to present a YA and WA cluster in a syllabic form.

To separate the cluster from other consonant clusters, a separate combining character is presented with the combination of other codes.

Convention:

YCC - YA Combining Character

WCC - WA Combining Character

NOTE:

YCC is equivalently taken as E vowel CC and A vowel (♂, ♥)

WCC is equivalently taken as O Vowel CC and A vowel(♂, ഐ

Excluding semivowels, bā-ākha: combines with YCC and WCC to form a syllabic cluster.

Figure 35-, YCC and WCC with Bā-ākha:

Bā-ākha:		YCC /WC	CC Displa	y Code Sequence
a) 雨 KA	+	ব(ঁ,স)YA	= क (KYA	n,ँ,अ
b) 斩 KA	+	⊲(া,স)w.	A = ক্রি(KWA	ম) ক,তা,ञ
c)키RA	+	ચ(૪,ઝ)Y∀	. = र्य(RYA) ন, ঁ ,স্
d) オRA	+	a(া.স)w	A = र्व(RWA) ন.া. প

YA and WA CCs have ability to combine with other VCC to present different sets of Combining Characters .

Figure 36- YA and WA CCs have ability to combine with other VCC

YCC	with V	CC makes	new CC,	representing diphthong CC
બા (૪,૦	म्) +	ा	= CAT	;ঁ,সা
બા (૪,૦	म्) +	ি	=िय	;Ö,ऍ
બા (૪,૦	म्) +	Q	= • • • • • • • • • • • • • • • • • • •	:ठ,उ
ଠା (୯,୨	म्) +	Ö	=ध	t,Ö;
બા (૪,૦	म) +	গ	= धा	:ত.স্তা

WCC	with '	VCC makes		new CC, r	representing diphthong CC
a (া,স) +	ा	=	аī	া ,পা
a (লা,স	() +	ি	=	fa	া ,ভ
ত্ৰ (া,স) +	Q	=	Q	;ল, ত
ন (া,স) +	Ö	=	Ã	;ল, ধ
a (া,স) +	া	=	ত্রা	;া, স্তা

Syllabic Cluster with a AA Vowel CC makes another syllabic cluster .

Figure 37- Syllabic Cluster and VCC

Syllabic Cluster	AA Vo	wel CC		Syllabic Cluster	Code Sequence
a) 委 (KYA)	+	ा	=	का (KYAA)	न, ँ,आ
b) 酮(KWA)	+	া	=	রা(KWAA)	क,ा,आ

Syllabic Cluster with a Vowel Modifier VM CC makes another syllabic cluster .

Figure 38 Syllabic Cluster and Vowel Modifier VM (Figure 38 Syllab	ic Cluster and	Vowel	Modifier	VM	CC
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Syllabic Cluster	VMCC	Display	Code Sequence
a) क्र(KYA)	+ Ó	= र्का	क,ॅं,अ,ं
b) 酮(KWA)	+ Ó	= ब्री	क,ठा,ञ,ं
c) की(KYAA)	+ 0	= को	क,ॅं,आ,ं
d) র্ক্সা(KWAA)	+ Ó	= क्री	क,ा,आ,ं

Syllabic Cluster with a Functional Vowel Modifier makes another syllabic cluster .

Figure -39 Syllabic Cluster and Functional Vowel Modifier.

Syllabic Cluste	er	VMCC	Display	Code Sequence
a) 机 (KYA)	+	08	= क्ष १(KYA:)	क,ॅ,ञ,ः
b) ब्रा (KWA)	+	08	= គាំ ខ(KWA:)	क,ा,भ,ः
c) स्ना(KYAA)	+	08	= का8(KYAA:)	क,ॅ,आ,्४
d) র্রা(KWAA)	+	08	= គារី	क,ा,आ,ः।

 $Syllabic\ Cluster\ with\ a\ Functional\ \ Vowel\ Modifier\ makes\ another\ \ syllabic\ cluster\ \ .$

Figure -40 Syllabic Cluster with Functional Vowel Modifier

Syllabic C from Figu		FVMCC	Display	Code Sequence
a) 哲	+	08	= स्त	क, ४,अ,ं,ः
b) 南	+	08	= রা	क,ठा,ञ,ं,ः≀
c) खों	+	08	= स्ता	क, ँ,आ,ं,ः।
d) क्वी	+	08	= គាំ	क,ा,आ,ं,ः।

if YCC or WCC comes after CCC, the CCC will be replaced by YCC or WCC

Figure -41 YCC, WCC and CCC

Bā-ākha:	-	YCC		Syllabic Cluster	Code Sequence
a) ज ,् K	+	હા(ે,ઝ)	=	क्त(KYA)	क, ँ,अ
b)क,्к	+	⊶(া,স)	=	<u>র</u> া(күо)	ন,া,প
c)न,् R	+	હા(ૅ,ઞ)	=	र्य (RYA)	न, ँ,अ
d) 귀, QR	+	(ে, স ্)	=	র্ব (RWA)	न,ा,अ

Annex-III Characters with vowel diacritic

This annex presents characters with vowel diacritic in a tabulated form. The table also represents application of vowel modifier and functional vowel modifier on $B\bar{a}$ - $\bar{a}kha$:.

		Char	ostov vite	h a vowel	dinavitic		Vowel A 8	& Sound M	odifier Mar
		Cnai	racter wit	n a vowei	diacritic		Long - N	lasal - Na	sal & Long
	Α	AA	ı	U	Е	0	A:	Å	Å:
K	क ка	ना _{каа}	किκι	₫ки	Т ке	न्या ко	क 8ка:	₽¥	र्न _к ≵ः
КН	ख	स्रा	खि	ख्	ख	स्रा	स8	खं	सं
G	গ	গা	গি	ગુ	গে	গো	গ ৪	វាុំ	ที
GH	घ	घा	घि	घ्	घ	घा	घ१	र्घ	घं
NG	2	ढा	ক্রী	2	2	ଜ	83	\$	&
NGH	ক্র	দ্রা	ক্রি	হ্	ঠ্র	ফ্রা	দ্রাঃ	ক্র	ৰ্ফ্ৰ
С	व	वा	वि	व्	ৰ	ৰা	व8	वै	वै
СН	8	क्रा	क्रि	級	B	श्च	88	荔	あ
J	গ	গা	গি	গ	গ	গা	<u> গ</u>	ৰ্গ	গ্ৰ
JH	म	मा	मि	म्	ম	मा	म8	मे	मं
NJ)3)3l	િક	D 3	(Ds	(Ot	S€C	Ĵŝ.)ş
NJH	ক্ষ	ন্ধ	ক্রি	দ্ধ	ৰ্ক্ষ	হ্বা	<u>ক্</u> র	র্ক্ত	ৰ্ক্টা
Т	ባ	ग	ণি	J	η	ท	<u> </u>	1	ሳ
TT	र	रा	रि	द	ટ	य	र8	ट	रं
ТН	થ	થા	થિ	થ્	્થ	খো	48	થ	થ

Annex-III Characters with vowel diacritic

This annex presents characters with vowel diacritic in a tabulated form. The table also represents application of vowel modifier and functional vowel modifier on $B\bar{a}$ - $\bar{a}kha$:.

		Cha	racter wit	h a vowel	diacritic		Vowel A & Sound Modifier Mark Long - Nasal - Nasal & Long			
	А	AA	1	U	Е	0	A:	Å	Å:	
ттн	0	al	lo	Q	0	(OI	08	Ó	Ů	
D	द	दा	दि	द्	द	বা	द8	दं	दं	
DD	5	ज	ঠি	3	3	31	58	5	3	
DH	ิน	ধা	ધિ	ધ્	હ્ય	હ્યા	48		ង	
DDH	ढ	ढा	ढि	द	3	ढा	ढ 8	ढं	ढै	
N	ল _{NA}	σΠ _{NAA}	जि _{NI}	ज् _{NU}	ŏf NE	ना NO	ज 8 _{NA:}	जे 🗚	जै 🗚	
NN	E1	EII	દિા	EI	(E1	ŒII	813	Ę	Ę	
NH	র্	ন্না	<u>রি</u>	ত্র	র্ম	না	ন্ত্ৰ8	র্ন	នាំ	
P	प	पा	पि	प्	q	पा	य8	पं	पै	
PH	रू	स्र	रिल	रू	Æ.	स्र	₹8	苓	苓	
В	व	वा	वि	व्	व	বা	वश	वै	वै	
вн	ए	ल	रि	J	ņ	শ	₹8	¢	Ų	
М	म	मा	मि	म्	म	मा	मश	मं	मं	

Annex-III Characters with vowel diacritic

This annex presents characters with vowel diacritic in a tabulated form. The table also represents application of vowel modifier and functional vowel modifier on $B\bar{a}$ - $\bar{a}kha$:.

		Cha	racter wit	h a vowel	diacritic		10.590,5700		Sound Modifier Mark	
	А	AA	I	U	E	0	A:	Å	Å:	
мн	क्र	क्रा	क्रि	ক্স	শ	ক্ষা	क्र १	क्र	क्रां	
Y	य	या	यि	य्	य	या	यश	यं	यं	
R	न	ना	नि	क	7	সা	न8	न	ৰ	
RH	র	না	<u>দ্</u> রি	ক্র	ភ័	<u>সা</u>	ज्ञ 8	রা	蚢	
L	ल	ला	लि	ल्	ल	ला	लश	लं	लं	
LH	ন্ত্ৰ	ন্ধা	ন্নি	গ্ৰ	র্না	লা	<u>র</u> ৪	র্না	র্ন	
w	व	वा	वि	व्	ল	वा	व8	वं	वं	
S	स	सा	सि	स्	स	सा	स8	सं	सं	
SH	क्र	श्री	શ્રિ	শ	(81	(8/1	8 18	яļ	хļ	
SS	ष	या	िष	ष्	ष	षा	म8	षं	षै	
Н	रू	रुा	হি	ङ्	रू	হা	₹8	\$	\$	

Annex-IV Character with I,AI, U,AU with modifier and functional vowel modifier

This annex presents character with diphthong, 1 & U vowel, nasal and long sound in three different tables.

		Diphtho	ng			I Vowel		U Vowel			
	Al & Nasa		AU & Nasa		Nasal Sound-Long Sound			Nasal S Sound	Sound -Lor	ng	
	AI	ÅI	AU	ÅU	t	l:	1:	Ů	U:	ប៉ះ	
K	AKAI	T KÅI	₹ KAU	ฟี้ หล้บ	किं _{кी}	की _{K I:}	किह्य:	₫к₫	Т ки:	Фĸ	
кн	स्	र्बे	स्रो	स्रो	स्वि	सी	स्विं	ख्	ख्	ख्	
G	গ্ৰ	ଔ	গৌ	গৌ	গি	গী	গি	गुं	र्गू	શું	
GН	घ	घ	ঘী	ঘী	धि	घी	धिं	र्ष	घृ	ध्	
NG	3	8	ଜ	ଜି	ঠী	ढी	ঠী	6	6	Ġ	
NGH	ৰ্ফ্ল	వో	ন্ত্রী	ন্ত্ৰী	ঠ্লি	দ্লী	ঠ্টি	ক্ল	হ্ব	ক্ল	
С	च	व	वी	वाँ	वि	वी	विं	र्व	वृ	वै	
СН	B	B	स्रो	ส์	क्रि	क्री	क्रिं	象	&	敖	
J	র্গ	<u>জ</u>	স্গী	সী	<u>র্</u> গি	গী	গি	হাঁ	হা	হাঁ	
JH	म	দী	मी	माँ	मि	मी	मिं	म्	म्	म्	
NJ	(Š	(Š	Œ	Œ	ſΰ	31	ſΰ	Ĵŝ	J 3	Ĵŝ	
NJH	क्र	Z Z	ন্ধী	ন্ত্ৰী	ক্রি	ন্ধী	ক্ষি	ক্র	হ্ব	ক্র	
т	ন	ন	শী	দী	fή	শী	ĺΫ	ij	η	ŋ	

Annex-IV Character with I,AI, U,AU with modifier and functional vowel modifier

This annex presents character with diphthong, 1 & U vowel, nasal and long sound in three different tables.

		Diphtl	hong		1	Vowel		U Vowel			
	Al & Nasa		AU & Nasal		A(20)	ound–Long	Sound	Nasal Sound -Long Sound			
	AI	Ål	AU	ÅU	ì	l:	i:	Ů	U:	ڻ:	
TT	3	3	र्रो	रौ	रि	री	रिं	दं	द	द	
TH	(થે	ભૈ	খৌ	খৌ	থি	થા	થિં	ર્થ	થ્	થ્	
TTH	Õ	Ø	Ø	ത്	ĺð	g	ſċ	ď	Q	ď	
D	र्	र	খ্ৰ	दौ	दि	दी	दिं	द्	दू	द्रं	
DD	3	3	স্ত্র	সী	13	3 î	ঠি	I	3	Ĵ	
DH	(H) DHAI	Й _{DH}	(A) DHAU	(মী _{DHA}	ਬਿੱ _{ਸਮਾ}	ધી₀ા	ਪ੍ਰਿੰ □ਜਾ	Я́рно	Я́рнии	Я́рні	
DDH	र	ફુ	र्से	र्स	ढि	ढी	ढिं	ढ	ढ	ढ	
N	न	न	नी	नौ	नि	नी	नि	र्ग	न्	र्ने	
NN	ŒĨ	ŒĨ	ŒĨĨ	ŒĨĨ	ſεi	દ્યી	દિાં	εį	εĭ	ξį	
NH			ন্ধী	ភា	ৰ্ক্লি	ज्ञी	ត្រាំ	র্কা	রূ	র্ক	
Р	च	प	पी	पौ	पि	पी	पि	प्	पू	प्	
РН	F.	₹	स्रो	स्रो	रिं	स्री	रिं	&	रू	苓	
В	व	वै	वी	वी	वि	वी	विं	व्	व्	वै	
вн	ह	₹	ल	एँ	िए	री	रिं	寸	শু	寸	
М	म	मै	मी	मौ	मि	≟ मी	मिं	म्	म् म्	म्	

Annex-IV Character with I,AI, U,AU with modifier and functional vowel modifier

This annex presents character with diphthong, 1 & U vowel, nasal and long sound in three different tables.

		Dipht	hong			I Vowel			U Vowel	
	Al & Nas	al Sound	AU & Nas	al Sound	Nasal S	Sound-Lo	ng Sound	Nasal Sound	Sound -Lo	ng
	AI	ÅI	AU	ÅU	1	l:	1:	Ů	U:	ů
МН	भ्र	স্ম	क्री	স্মী	রি	क्री	झिं	ক্	ক্স	क्र्
Υ	य	य	या	यौ	यि	यी	यिं	यं	य्	य्
R	7	7	সা	ৰা	नि	नी	ਜਿੰ	ক্	ন ্	न _{र्रे}
RH	Ä	Fi	ন্ম	ন্নী	র্নি	瑜	রি	র্কা	ক্র	琉
L	ल	लै	ली	লী	लि	ली	लिं	ल्	ल्	ल्
LH	સુ	Ą	ন্ধী	র্নী	র্ন্ধি	ज्ञी	রি	র্জ	গ্র	র্
w	व	व	बा	वाँ	वि	वी	विं	व्	व्	व्
s	स	सँ	सी	साँ	सि	सी	सिं	स्	स्	स्
SH	(ন্	পৌ	শৌ	শৌ	[8]	শী	િક્ષ	শৃ	শূ	શુ
SS	ष	ष	षी	দ্	 थि	षी	िर्ष	ष्	ष्	ष्
н	3	8	হ	হী	হি	 ही	হিঁ	\$	হূ	Ŕ

Annex-V Clusters

A list of clusters formed by two or more characters is presented with vowel diacritic in a tabulated format. The combination of alphabetic cluster with vowel and modifiers in shaded format is presented in the Annex-V Table 1.

Annex-V Table 1 : Cluster 4K with a vowel, nasal and long sound diacritical marks

		Vo	wel Soun	Vowel A & Sound Modifier Mark					
Character							Long - I	Nasal - N	lasal & Long
Κ	Α	AA	Ì	U	E	0	A:	Å	Å:
KK	禹 KKA	का KKAA	कि KKI	動 KKU	新 KKE	ள் кко	禹8 KKA:	南 KKÅ	क KKÅ:

The clusters of characters as presented above in a table format, is also presented from Table 3 onward without roman alphabets.

When diphthong is modified by a vowel modifier then the first vowel is modified.

Clusters with diphthong, vowel modifier and functional vowel modifier are presented below.

Example: KK cluster with diphthong, nasal and long sound diacritic mark.

Annex-V Table 2: KK Cluster with diphthong, modifier and functional diacritical mark.

K	ÅI	AI:	ÅI:	ÅU	AU:	ÅU:
KK	ৰ্জী	म् १	क्र	ৰ্ন্ধী	क्री8	क्री
KK	KKÅI	KKAI:	KKÅI:	KKÅU	KKAU	KKÅU:

Annex-V Table 25 : Cluster **a** B with vowel, nasal and long sound diacritical marks

		V	owel Sour	nd Mark			Vowel A	& Sound Mo	difier Mark
Character							Long -	Nasal - N	lasal & Long
В	A	AA	I	U	Е	0	A:	Å	Å:
вк	क bka	द्धा bkaa	कि _{вкі}	द्गु, вки	纸 bke	द्या вко	न्ध вка:	र्वे вк#	र्क вк å :
ВКН	व्य	च्मा	व्यि	व्यू	व्य	व्या	चा१	व्यं	व्यं
BG	ब्र	ब्रा	ब्रि	झु	Ŗ	त्रा	न्नश	ब्रै	ब्रं
BGH	व्य	व्या	व्यि	व्यु	ব্য	व्या	वाश	वां	वां
BNG	द्ध	द्धा	द्धि	द्य	Z.	ন্ত্রা	ह्य १	墓	ヹ
ВС	ब्र	ब्रा	ब्रि	ब्र्	শ্ব	দ্বা	ब्र8	म्रं	म्रं
всн	ন্ত	न्ना	ब्लि	ब्र	A	ন্ত্ৰা	ब्र १	戴	ब्रं
BJ	दु	द्धा	ব্ধি	द्ग	द्ध	ন্ত্রা	द्ग, १	दुः	बु;
ВЈН	वा	वा	ব্যি	वा	ব্য	ঝা	वा १	বা	বা
BNJ	बु,	द्या	ব্ধি,	बु	F.	ন্ত্র	न्द्र8	र्द्ध,	बुँ ,
вт	क	का	कि	क्	দ্দ	क्त	क्8	कं	कं
ВТТ	द्य	द्या	द्यि	द्य	ā	ন্ত্রা	ग्र	र्छ	द्यं
ВТН	न्न	न्ना	ন্ধি	द्ध	ब्र	দ্ধা	न्न १	ढ ं	ड
вттн	व	व्रा	ਭਿ	ब	g	প্রা	न्न १	वै	वै

Annex-V Table 25 : Cluster **a** B with vowel, nasal and long sound diacritical marks

		Vo	wel Soun	d Mark			Vowel A	& Sound Mod	difier Mark
Character							Long -	Nasal - N	asal & Long
В	A	AA	1	U	E	0	A:	Å	Å:
BD	व्र	द्या	ट्टि	वृ	ষ্ট	শ্র	28	ष्ट	इं
BDD	बु _{BDDA}	द्धा bddaa	द् <u>रि</u> BDDI	बु BDDU	FDDE	II BDDO	दुः BDDA:	दुं BDDÅ	दुं BDDÅ:
BDH	ন্ত্ৰ	द्या	দ্বি	घ्व	দ্ব	দ্রা	न्न १	ब्वै	न्त्रं
BDDH	बु	द्या	द्यि	बु	કુ	द्या	नु १	वुं	वुं
BN	व	ब्रा	वि वि	ब्र	ল্প	ল্ল	ब्र १	व्यं	व्रं
BNN	द्र	क्रा	द्धि	ब्र	ब्र	क्षा	ह्य १	ह्रं	ब्हं
ВР	। च्य	च्या	व्यि	वाृ	चा	व्या	चा १	चां	वां
ВРН	व्	द्या	वि	व्	व्	व्या	ब्.१	व्	व्;
ВВ	व	वा	। वि	ब्र्	ă ă	वा	<u>।</u> वश	वं	। वं
ввн	द्र	क्रा	दि	ष्ठ	द्ध	हा	क 8	इं	द्रं
вм	ब्रा	बा	व्य	वा	শ্বা	ग्रा	न्म १	बौ	वां
ву	च्य	च्या	च्यि	च्यू	च्य	या	चा १	र्यं	चां
BR	व्र	व्रा	वि	व्र	ষ্	শ্র	<u>ब</u> ्र	鸢	

Annex-V Table 25 : Cluster **a** B with vowel, nasal and long sound diacritical marks

		1	owel Sour	nd Mark			Vowel A	& Sound M	odifier Mark
Character							Long -	Nasal -	Nasal & Long
В	A	AA	1	U	E	0	A:	Å	Å:
BL	ब्ल	ब्रा	ब्लि	ब्र	ল্ল	ब्रा	ब्र8	इं	व्रं
BW	ब्र	ब्रा	ब्रि	ब्च	ন্ত্ৰ	দ্রা	ब्र8	ब्रं	ब्रं
BS	व्य	व्या	व्यि	व्य	त्रा	क्मा	वा १	वा	वां
BSH	ធ្គ	ব্লা	ব্লি	ब्रु	ন্ন	ন্না	ব্ল%	ផ្តាំ	ផ្ដ
BSS	व्य	न्मा	व्यि	व्यू	ন্ম	व्या	न्म8	वां	व्यं
			i						i

Table 26: Cluster ₹ BH with vowel, nasal and long sound diacritical marks

		Vo	wel Soun	d Mark			Vowel A	& Sound Mod	difier Mark
Character							Long -	Nasal - N	asal & Long
вн	A	AA	ı	U	E	0	A:	Å	Å:
внк	क внка	না внкаа	कि _{внкі}	承 внки	Ж внке	হ্মা _{внко}	Та 8 внка:	क внк å	る внк å :
внкн	শ্ব	7्या	িয়	भ्	শ্ম	শ্মা	ग्र8	ग्रौ	711
BHG	त्र	आ	রি	<u> </u>	স	স্না	त्र १	র	त्रै
BHGH	শ্ব	भा	শ্বি	पु	শ্ব	শ্ম	या	ារ្នំ	นำ
BHNG	হ	হ্য	ঠি	2	Z	য়া	E 8	\$	窓
внс	व	वा	वि	ब्	শ্ব	শ্বা	ब १	苕	當
внсн	A	क्रा	ক্সি	a.	A	শ্বা	3 8	墓	墓
внЈ	<u>3</u>	ऊा	ক্তি	3.	32	স্কা	328	3	3,
ВНЈН	শ	মা	শ্মি	ম্	শ	শা	'মঃ	শ	শ
BHNJ	3 ,	31	3িন	3	3,	শ্ব	<i>¥</i> 8	3,	弘
внт	ኍ	শ্ব	শ্দি	দ্	ዣ	শ্ব	<u>ጥ</u> 8	ጜ	<u> ጎ</u>
внтт	2	श	হি	<u> 2</u>	ã	য়	£ 8	艺	Ş
внтн	ক	ম	ঠি	T	य	মা	<u>३</u> ४	%	3
внттн	व	ग	ਹਿ	ब	a	भ	च १	वै	र्व

Table 26: Cluster ₹ BH with vowel, nasal and long sound diacritical marks

		Vo	wel Sound	d Mark			Vowel A &	Sound Mod	ifier Mark
Character							Long - I	lasal - Na	sal & Long
вн	Α	AA	l la	U	E	0	A:	Å	Å:
BHD	2	य	टि	2	য	হা	य 8	2	2
BHDD	З	ЗТ вносаа	ਤਿ _{ВНООІ}	З	3 BHDDE	ЗЛ вноро	З 8 внооа:	寸 BHDDA	3 BHDDÆ:
BHDH	ন্ন	ন্ম	গ্রি	য়	រ្ម	শ্বা	ন্নঃ	শ্ব	រ្នំ
BHDDH	र	ग्र	হি	3	જ	য়া	£8	द्	रुं
BHN	រា	গ্ল	រា	ब	ដ	গ্ল	នា 8	র	ដំ
BHNN	x	भ	क्रि	£	x	भ्रा	£8	£	£
ВНР	শ্ব	या	िय	य	শ্ম	या	याः	711	วน้
ВНРН	£	श्च	যু	₹.	1.	<i>য</i> ়া	£8	1	1 ;
внв	व	वा	। वि	व्	व	वा	य १	वं	। वं
внвн	रु	হ া	ফি	স্ত	ফ্	'হা	হঃ	校	な
ВНМ	শ্ব	भा	ঝি	মূ	শ	भा	ग्रा	মা	ঝ
вну	य	या	थि	যু	শ্ব	শ্মা	या१	र्थ	यां
BHR	্ব	্রা	<u>রি</u>	<u>4</u>	7	শ্র	工8	立	<u>1</u>

Table 26: Cluster ₹ BH with vowel, nasal and long sound diacritical marks

		1	owel Sour	nd Mark			Vowel A	& Sound M	odifier Mark
Character							Long -	Nasal -	Nasal & Long
вн	Α	AA	1	U	E	0	A:	Å	Å:
BHL	त्र	त्रा	त्रि	য	য়	শ্ল	स्र	त्रं	য়
BHW	व	वा	वि	ब्	শ্ব	শ্বা	ब १	র	當
BHS	भ	भा	िय	भ्	भ	भा	२११	यां	হা
BHSH	រា	গ্লা	រ្គ	য়	ส	វ្នា	<u> 21</u> 8	ដ្	ដ្
BHSS	শ্ব	শ্ব	ੀ ਬ	মৃ	শ্ব	भा	याः	711	าน้
			i						j

Annex-V Table 8 : Cluster

Table 8 : Cluster $\overline{\mathfrak{A}}$ C with vowel, nasal and long sound diacritical marks

		V	owel Soun	d Mark			Vowel A	& Sound Mo	difier Mark
Character							Long -	Nasal - N	lasal & Lon
С	A	AA	I	U	E	0	A:	Å	Å:
ск	व ि	割 ckaa	擂	क्रु	₹ CKE	新 cko	看8 cka:	雪h ck&	當 cka:
СКН	व्य	य्या	व्यि	व्यू	ঝ	यू	व्म8	य्	य्
CG	त्र	त्रा	ব্লি	न्नु	র	রা	न्न 8	क्रै	त्रं
CGH	व्य	या	ব্যি	व्यु	শ্ম	শ্ম	या १	ব i	वां
CNG	夏	द्धा	द्धि	夏	茗	স্থা	₹ 8	夏	霓
cc	স্ত্র	त्रा	ব্রি	त्रु	শ্ব	শ্বা	ब्र8	त्रं	璫
ссн	夏	क्का	ক্সি	夏	A	31	3 8	夏	夏
CJ	<u>बु</u>	ऋा	ক্তি	3	35	<i>শু</i> ন	₹ 8	<u>क</u>	<u>यु</u>
СЈН	त्रा	ঝা	ব্মি	व्य	শ্বা	শ্মা	ना १	বা	শ্বা
CNJ	न्तु,	न्ध्र	ব্ধি	3 ,	3,	31	₹8	3 ,	र्द्र
СТ	क	का	ক্রি	<u>क</u>	শ্ব	শ্বা	क्8	क्	ৰ†
СТТ	ब्र	द्या	द्य	द्य	£	গু!	₹8	乽	乽
СТН	न्न	न्ना	ন্ধি	ন্ত	F	ন্ধা	₹ 8	蒙	ब्रै
сттн	প্ত	ন্তা	ী ন্ত	<u>a</u>	ð	প্রা	₹ 8	8	'रे

Annex-V Table 8 : Cluster ৰ C with vowel, nasal and long sound diacritical marks

		Vo	wel Sound	d Mark			Vowel A &	Sound Mod	ifier Mark
Character							Long - N	lasal - Na	sal & Long
С	A	AA	1	U	E	0	A:	Å	Å:
CD	2	ट्टा	ट्टि	2	2	শ্র	ब 8	乽	켤
CDD	<u>यु</u>	खा	ন্ <u>ত্</u> র	बु	3	স্তা	₹ 8	3	ै यु
CDH	ब्र	ন্ত্রা	ব্লি	ब्र	ä	শ্বা	ब्र8	켧	켪
CDDH	ा वु cddha	द्धा cddhaa	ब्रि _{СООНІ}	बु cddhu	र्यु CDDHE	3 CDDHO	बुः CDDHA:	बुं CDDHÅ	र्युं CDDHÅ:
CN	न्न	व्रा	ব্লি	ब्र	শ্ব	শ্লা	न्नश	র	র
CNN	ऋ	क्रा	ब्रि	ह्य	3	क्षा	ऋ8	क्रं	क्रं
СР	व्य	चा	विघ	व्यू	चा	या	न्य8	वां	चौ
СРН	ब्	क्रा	व्हि	बु	4 ,	শ্বা	3.8	बुं.	युः
СВ	व्य	वा	वि	ब्र्	ä	শ্রা	ब्र8	वै	वं
СВН	ऋ	क्रा	ऋ	3	Ą	ऋा	₹8	模	模
СМ	শ্বা	त्रा	न्या विष	न्त्रा	শ্বা	त्रा	न्म8	वा	न यौ
CY	ग्र	च्या	च्यि	ख्य	শ্ব	या	चा १	य ं	खाँ
CR	व	ব্রা	त्रि	ब ,	3	শ্র	<u>ब</u> ्र	ュ	增

Annex-V Table 8 : Cluster ৰ C with vowel, nasal and long sound diacritical marks

		,	owel Soun	d Mark			Vowel A	& Sound Mo	difier Mark
Character							Long -	Nasal - N	lasal & Long
С	Α	AA	1	U	E	0	A:	Å	Å:
CL	न्न	त्रा	त्रि	ब्र	त्र	শ্লা	ब १	व्रं	व्रं
cw	<u>র</u>	व्या	व्रि	ब्रु	শ্ব	শ্রা	国 8	व	। वं
cs	त्रा	त्रा	त्रि	त्रा	त्रा	श्रा	ऋ।	य्रौ	त्रां
CSH	ব্ল	ন্না	ব্লি	ब्र	প্ল	শ্লা	র8	র্ব্ন	র
css	न्य	व्या	व्यि	व्यू	শ্ব্য	श्रा	न्धः १	व्यं	व्यं

Table 9: Cluster 函CH with vowel, nasal and long sound diacritical marks

		Vo	wel Soun		Vowel A & Sound Modifier Mark				
Character							Long -	Nasal - Na	asal & Lonç
СН	A	AA	Ī	U	E	0	A:	Å	Å:
снк	СНКА	码 CHKAA	िक снкі	क्	СНКЕ	снко	码 8 CHKA:	委 СНКА	₹
СНКН	स्र	स्त्रा	िख्	स्मृ	क्	ধ্যা	क्य १	स्रो	स्री
CHG	₹	ন্ধা	ক্সি	§	39	豣	₹ 8	骄	菊
СНСН	श्च	শ্ব্য	स्यि	श्रु	ঙ্গ্ৰ	শ্মা	#ध्र	戡	শ্বা
CHNG	雹	স্থ্য	স্থি	雹	雹	স্থা	₹8	爱	髮
СНС	藝	क्षा	স্থি	頸	4	শ্বা	₹ 8	群	莓
снсн	ক্ষে	ক্সো	रिक्क	褒	(%	ক্সো	138 8	(3)	褒
СНЈ	覅	স্ক্রা	<u>ক্</u>	多	奓	<u>ক্</u> জা	₹ 8	麩	蒙
СНЈН	क्रा	श्रा	िका	स्र	क्रा	শ্মা	आ	क्रो	শ্বা
CHNJ	इ जु,	স্ক্র	ক্ষি ,	覅	8 5,	স্কু	₹ 8	殇	殲
СНТ	Øŋ	क्रा	ঞ্জি	₽ŋ.	Ø̃η.	क्री	By 8	郡市	अं
СНТТ	乭	শ্বা	হি	氢	乭	শ্র	至8	爱	氢
СНТН	₹	क्षा	স্ক্রি	₹	家	শ্ব্য	₹ 8	勠	数
снттн	₹	স্থা	। স্থি	죕	**	₹ 1	₹8	8	**

Table 9: Cluster 窗CH with vowel, nasal and long sound diacritical marks

		Vo	wel Sound	d Mark			Vowel A & Sound Modifier Mark				
Character							Long - N	Nasal - Na	sal & Lonç		
СН	Α	AA	1	U	Е	0	A:	Å	Å:		
CHD	<u>इ</u>	श्चा	স্থি	<u>ৰ্</u>	ন্ত্	গ্রা	至8	藝	整		
CHDD	委 CHDDA	到 CHDDAA	স্থিত CHDDI	表 CHDDU	CHDDE	З	多8 CHDDA:	æुँ CHDDÅ	惑 CHDDA:		
CHDH	覆	শ্বা	স্থি	স্থ্	শ্ব	শ্বা	क 8ः	碧	碧		
CHDDH	æु इ	স্থা	স্থি	愚	雹	স্থা	氢8	憂	裹		
CHN	স্ক	শ্বা	ক্ষ	बु	শ্ব	শ্বা	覇8	霸	覇		
CHNN	氨	শ্ধা	হ্ছি	8	额	শ্ধা	₹8	数	虧		
СНР	श्च	श्चा	िश्च	स्मृ	শ্য	श्या	#ग्र	श्चे	क्यं		
СНРН	极。	শ্ব্	ষ্ক্রি	极	₽Ę.	ষ্ক্	£ 8	数	晚		
СНВ	粗	श्वा	स्रि	A	4	শ্বা	क 8	右	右		
СНВН	表	रूा	ঙ্কি	₹	赛	ঙ্গা	₹रु १	亵	亵		
СНМ	श्च	आ	শ্বি	स्र	স্ক্রা	শ্বা	#18	ষ্ক্রা	स्रो		
СНҮ	स्य	श्चा	ब्यि	स्यू	श्च	শ্যা	ख १	स्रो	स्यं		
CHR	酉	শ্র	শ্বি	数	茑	劉	酉8	鸢	鸢		

Table 9: Cluster 函CH with vowel, nasal and long sound diacritical marks

		٧	owel Soun	Vowel A & Sound Modifier Mark					
Character							Long -	Nasal -	Nasal & Long
СН	Α	AA	1	U	E	0	A:	Å	Å:
CHL	類	क्षा	魯	額	類	শ্লা	A 8	葛	点
CHW	名	क्षा	क्षि	有	砻	শ্বা	看8	碧	碧
CHS	क्रा	श्चा	ঞ্ছিয়	क्र्	স্থা	ঞ্ছা	का १	क्षां	ষ্ঠা
СНЅН	霸	প্লা	ঞ্জি	劉	শ্ল	শ্বা	क्र 8	索	纇
CHSS	श्च	श्चा	िश्च	स्त्र	শ্ব	শ্মা	म्ब १	स्रो	ষ্ট্র
СНН	₽ _E	ख ा	ঞ্চি	极	<i>8</i> €	ধ্যা	æ 8	极	极

Table 17 : Cluster ₹ D with vowel, nasal and long sound diacritical marks

		V	owel Sour	nd Mark			Vowel A & Sound Modifier Mark				
Character							Long -	Nasal - N	lasal & Long		
D	A	AA	1	U	E	0	A:	Å	Å:		
DK	द्ध	द्मा	দ্ধি	দ্ধ	ৰ্দ্ধ	দ্ধা	द्ध8	र्क	र्क		
	DKA	DKAA	DKI	DKU	DKE	DKO	DKA:	DKÅ	DKÅ:		
DKH	द्म	द्मा	দ্মি	द्म	হ্ম	হ্মা	द्मश	হা	ঝ		
DG	র	द्गा	ব্লি	ব্ল	Я	ন্ত্রা	ज़ 8	द्र	នាំ		
DGH	द्य	द्या	দ্মি	द्य	দ্ম	শ্বা	द्म8	র্ঘ	द्यं		
DNG	દ્ધ	ह्या	হ্নি	द्ध	8	হ্লা	ह्न १	芨	芨		
DC	द्व	द्या	द्वि	द्य	দ্ৰ	দ্রা	द्ध8	र्द्ध	र्द्ध		
DCH	ক্স	द्धा	দ্ধি	虿	ã	ন্ত্ৰা	<u>\$8</u>	墓	蒙		
DJ	द्ध	द्धा	ব্ধি	\$	3	ন্ধা	<u>3,8</u>	द्ध	द्ध		
DJH	ব্ম	ন্মা	<u> বি</u>	ব্যু	শ্ব	না	दा8	রা	রা		
DNJ	द	द्धा	দ্ধি	दु	I S,	ন্ত্র	<u>5,8</u>	र्फ	蒙		
DT	ব্দ	ন্দা	ব্দি	ব্দু	द्	ন্দা	द्म8	र्द	ৰ্দ্ধ		
DTT	इ	द्य	হ্	इ	દ	হা	इ 8	इं	इं		
DTH	द्ध	द्धा	দ্ধি	虿	F	দ্ধা	<u>इ</u> 8	क्र	क्र		
DTTH	ह	हा	ਰਿ	ह्	ชี	ন্তা	ন্ত8	है	र्ह		

Annex-V Table 17 : Cluster ₹ D with vowel, nasal and long sound diacritical marks

		Vo	wel Soun	d Mark			Vowel A & Sound Modifier Mark				
Character							Long -	Nasal - Na	sal & Long		
D	A	AA	ı	U	Е	0	A:	Å	Å:		
DD	इ	হ্বা	द्य	হূ	જ	হ্বা	इ8	ई	इं		
DDD	दु ddda	SI dddaa	िंड DDDI	दु DDDU	S DDDE	डी ₀₀₀₀	豆8 ddda:	玄 DDD Å	弓 DDDA		
DDH	। द्व	দ্বা	দ্ধি	द्व	ធ <u>្</u> ធ	দ্রা	দ্র ৪	ផ្នំ	ផ្នំ		
DDDH	દુ	द्य	द्धि	द्ध	દુ	ন্তা	इ.१	इं	દું		
DN	ន្ន	ធា	্বি ব্লি	द्भ	द्ध	ব্ল	ន្ន8	ន់	ន់		
DNN	द्ध	ह्म	द्धि	ह्य	ર્સ્ટ	স্থা	इ.8	ह	蒙		
DP	द्य	द्या	द्यि	ব্যু	ন্ম	ঘা	चा१	द्यं	द्यं		
DPH	द्	द्धा	द्धि	द्भ	5	হ্বা	इ.8	 \$	ર્વું.		
DB	ផ	द्या	। द्वि	द्य	ឪ	দ্রা	<u>इ</u> 8	र्वं	र्व इं		
DBH	द	ह्य	হি	ন্ত	₹	দ্বা	ह्र8	र्ह	इं		
DM	ব্ম	द्या	। द्वा	দ্ম	শ্ব	শ্বা	द्या१	রা	्र द्या		
DY	द्य	द्या	चि	द्य	ঘ	ঘা	च्य8	द्यं	द्यं		
DR	ব্র	ব্র	ব্রি	<u>द्</u> ग	দ্ৰ	শ্র		茸	鸢		

Annex-V Table 17 : Cluster ₹ D with vowel, nasal and long sound diacritical marks

		1	owel Sour	nd Mark			Vowel A	& Sound M	odifier Mark
Character							Long -	Nasal -	Nasal & Long
D	Α	AA	I as	U	E	0	A:	Å	Å:
DL	द्ग	ह्म	द्भि	ব্লু	इं	ল্ল	द्ध8	ई	द्र
DW	ন্ধ	দ্রা	দ্ধি	द्व	শ্ব	দ্রা	ធ្ន	ផ្នំ	ផ់
DS	द्म	झा	द्मि	झ्	হ্ম	झा	द्म8	হা	इां
DSH	ធ្គ	ব্লা	ব্লি	দ্ধ	¥	ផ្លា	ব্ল8	ផ្គ	ផ្ត
DSS	द्य	द्या	দ্মি	द्य	শ্ব্য	শ্বা	द्य8	ন্ম	ন্ম

Annex-V Table-18: Cluster 5 DD with vowel, nasal and long sound diacritical marks

		Vo	wel Soun	Vowel A & Sound Modifier Mark					
Character							Long -	Nasal - N	asal & Long
DD	Α	AA	Ţ	U	E	0	A:	Å	Å:
DDK	ন DDKA	ची DDKAA	िक DDKI	₹	ৰ্ন DDKE	का _{DDKO}	₹ 8 DDKA:	चें DDKÅ	र्के DDKÅ:
DDKH	হ্ম	ऋा	ঝি	म्	হ্ম	ৠ	মঃ	য়া	ঝ
DDG	ज	ज्ञा	রি	3	3	স্ত্রা	318	ज	त्रं
DDGH	ম্ম	হ্যা	হ্মি	भु	শ্ব	শ্মা	ञा१	মু	ঝ
DDNG	<u>\$</u>	ह्य	হ্নি	<u>Z</u>	Z	হ্লা	<u>\$</u> 8	奚	奚
DDC	ষ	ন্ব	ন্বি	त्र	শ্ব	শ্বা	ब 8	ষ	ষ
DDCH	₹	क्रा	ক্লি	Z	Z	ক্সা	₹8	蒙	墓
DDJ	3.	ऋा	ক্তি	3/	3.	371	3.8	3,	3,
DDJH	ম	ঝা	ঝি	भ्	সা	শা	মঃ	ঝ	ঝ
DDNJ	₹	अ	3 ,	₹	3,	31	₹8	3,	3,
DDT	ক	<u> ক</u> া	<u> কি</u>	স্	अ	সা	ऋ 8	ৰ্	ক
DDTT	ક	হা	হি	इ	£	হা	£ 8	इं	ફ
DDTH	₹	ऋा	ক্ষি	₹	22	স্কা	₹8	₹	₹
DDTTH	ठ	ग	ਰਿ	ब	ช	স্তা	<u>8</u> 6	र्व	र्व

Annex-V Table-18: Cluster 5 DD with vowel, nasal and long sound diacritical marks

		Vo	wel Sound	d Mark			Vowel A & Sound Modifier Mark				
Character							Long - N	lasal - Na	sal & Long		
DD	Α	AA	ı	U	E	0	A:	Å	Å:		
DDD	ट	হ্রা	হি	3	ક	হা	<u>इ</u> 8	ই	ই		
DDDD	₹ ADDDA	3T DDDDAA	3	3 DDDDDU	DDDDE	31 DDDDO	38	3 DDDDA	3 DDDDA:		
DDDH	ম্ব	ন্ত্রা	ন্ত্ৰি	त्र	শ্ব	শ্বা	<u>ब</u> ्र	ই	ই্ব		
DDDDH	£	श	हि	£	£	হ্বা	£8	₹	ટું		
DDN	ন্ন	ञ	ন্ধি	ञ्च	শ্ব	ন্ন	ब 8	क्रं	នាំ		
DDNN	¥	स्र	হ্নি	¥	Æ	শ্ব	£8	ह्रं	ऋँ		
DDP	य	या	चिय	ग्र	স্ম	স্মা	चा१	যা	যা		
DDPH	<i>Ž</i>	ग्रा	হি	₹	Ź	হা	₹8	1	3 ;		
DDB	ষ	ষা	ষি	ब	ষ	শ্বা	<u>ৰ</u> ঃ	वं	वं		
DDBH	रु	হা	হি	3	¥	হা	₹8	₹	₹		
DDM	ম	ञा	ঝি	भू	শ্বা	শ্বা	ञा१	ম	ঝ		
DDY	য	যা	যি	य	য	যা	ચાઢ	য	খ		
DDR	त्र	त्र	ত্রি	A	শ্র	শ্র	<u>38</u>	त्रं	<u> </u>		

Annex-V Table-18: Cluster 5 DD with vowel, nasal and long sound diacritical marks

		1	owel Soun	d Mark			Vowel A	& Sound Mo	odifier Mark		
Character							Long - Nasal - Nasal & Long				
DD	Α	AA		U	Е	0	A:	Å	Å:		
DDD	ट	श	ट्टि	इ	ક્ર	শ্র	5 8	喜	ટ્રં		
DDL	ন্ন	ন্ন	ন্নি	ब	¥	শ্ল	ञ्च १	क्रं	র		
DDW	ন্ত্ৰ	ञ	িষ	ষ্	ষ	শ্বা	স্ব8	र्व	ब्रं		
DDS	ৠ	भा	िश	भ	হা	भा	ऋ।	য়	ৠ		
DDSH	ন্ন	त्र	ন্ধি	স্থ	স্ক	ন্না	₹8	র	ক্ল		
DDSS	ম্ব	ন্মা	<u>ন্মি</u>	মূ	স্ম	শ্মা	ऋ।	হা	হা		

Table -20 : Cluster ਫ DDH with vowel, nasal and long sound diacritical marks

		Vov	wel Sound	Mark			Vowel A & Sound Modifier Mark				
Character							Long - I	Nasal - Na	sal & Lon		
DDH	Α	AA	Ì	U	E	0	A:	Å	Å:		
DDHK	점 DDHKA	점 DDHKAA	審 ррнкі	₮	新 DDHKE	হ্মা ррнко	基8 DDHKA:	新 DDHKÅ	新 DDHKA:		
DDHKH	ন্থ	স্থা	ন্থি	স্থ	স্থ	স্থা	च्छ ।	শ্ব	ন্থ		
DDHG	ক্ল	ন্ধ	ঞ্জি	ক্ত	Ř	ঙ্গা	₹8	क्र	ङ्गे		
DDHGH	ন্থ	ন্থা	ন্থি	স্থ্য	স্থা	স্থা	ন্থঃ	শ্ব	শ্বা		
DDHNG	হ্র	স্থা	হ্লি	ছ	ğ	স্থা	8	裳	裳		
DDHC	ফ্র	স্ত্ৰ	ফ্রি	ङ्	¥	স্ত্র	₹ 8	र्क	蓉		
DDHCH	<u>\$</u>	क्का	ক্লি	趸	¥	ক্ল	聚8	蒙	蒙		
DDHJ	<u> </u>	স্তা	ন্থি	3	38	স্থা	₹8	35	家		
DDHJH	ন্ধ	স্থা	ন্ধি	স্থ	শ্ব	শ্বা	স্বাঃ	ক্ষ	ক্ষ		
DDHNJ	<u> </u>	ন্ত্ৰ	ন্থি	星	Ŗ	Ħ	₹8	募	蒙		
DDHT	ন্দ	ন্ধা	ন্দি	ব্দু	ৰ্	ঙ্গা	ব্দ 8	क्	र्क		
DDHTT	ङ	স্থা	ষ্টি	ङ्	¥	স্থা	इ १	萝	र्छ		
DDHTH	স্ক	স্থা	ন্থি	<u>z</u>	¥	স্থা	₹ 8	क्षे	क्षे		
DDHTTH	ক্ত	ন্তা	ষ্টি	ফ্র	ð	哥	ন্ত্ৰ	र्छ	छै		

Table -20 : Cluster ਫ DDH with vowel, nasal and long sound diacritical marks

		Vow	el Sound	Mark			Vowel A & Sound Modifier Mark				
Character							Long - N	asal - Na:	sal & Long		
DDH	A	AA	1	U	E	0	A:	Å	Å:		
DDHD	ই	স্থ	ফ্র	হ	Ž	শ্ৰ	₹8	ই	캳		
DDHDD	স্ত DDHDDA	স্ত্র ddhddaa	ন্তি DDHDDI	ব্র DDHDDU	う DDHDDE	স্ত্রা _{ррноро}	▼8 DDHDDA:	ತ DDHDDA	 DDHDDA		
DDHDH	ফ্র	ন্ত্ৰ	ফ্রি	ফ্ব	¥	স্গ্ৰ	₹8	ক্ট	ফ্র		
DDHDDH	ङ	ন্তা	ন্থি	ङ्ख	₹	স্থা	इ ।	इं	इं		
DDHN	ত্ত্ব	ন্ন	ক্লি	ক্	ğ	শ্ল	রু8	ङ्ग	ङ्ग		
DDHNN	इ	ह्रा	ঙ্গি	ह्य	8	ঙ্গা	इ 8	ह	इं		
DDHP	স্থ	স্থা	ন্থি	ন্থ	স্থ	স্থা	স্থঃ	ষ্ঠ	ন্ত্ৰ		
DDHPH	হু	হ্থা	ছি	<u>ত্</u>	\$	স্থা	₹8	\$	 \$		
DDHB	ফ্র	ন্ত্ৰ	ফ্রি	ফু	ই	শ্ৰ	ফ্ৰ	ষ্ঠ	छै		
DDHBH	ऋ	হা	<u>হি</u>	স্থ	Ħ	'হা	₹8	\$	蓉		
DDHM	স্থা	স্থা	ঞ্জি	ক্স	ঞ্জ	শ্বা	ञ्च १	ঞ্চ	ঞ্চ		
DDHY	স্থ	 স্থা	৷ স্থি	স্থ	। স্থ	। স্থা	স্থ ঃ	<u>।</u> र्थ	প্ত		
DDHR	孚	ঙ্গা	ক্রি	泵	3	ঙ্গা	₹ 8	莩	ङ्रं		

Table -20 : Cluster $\overline{\epsilon}$ DDH with vowel, nasal and long sound diacritical marks

		٧	owel Soun	d Mark			Vowel A	& Sound M	odifier Mark
Character							Long -	Nasal -	Nasal & Long
DDH	A	AA	i i	U	E	0	A:	Å	Å:
DDHL	ङ्ग	ন্ত্ৰ	ফ্লি	ন্ত্	ঈ	ৠ	হুঃ	ङ्ग	इं
DDHW	ফ্ল	ন্ত্ৰ	ফ্রি	ফ্ব	ই	ঞ্জী	ফ্ল	喜	ङ्गे
DDHS	স্থ	ञ्रा	স্থি	ञ्ज	ৠ	স্থা	ञ्च 8	स्र	স্থা
DDHSH	ফু	ক্ল	ফ্লি	ম্ব	ğ	শ্ল	₹8	ক্ট	*
DDHSS	ন্থ	স্থা	ন্থি	স্থ	স্থ	স্থা	ন্ম 8	ন্ত্ৰ	স্থ
DDHH	ङ्	ङ्टा	ছি	ङ्	螽	স্থা	₹ 8	क्रू	ङ्क

Annex-V Table 19 : Cluster 4 DH with vowel, nasal and long sound diacritical marks

		Vo	wel Soun	Vowel A & Sound Modifier Mark					
Character				Long - Nasal - Nasal & Lon					
DH	Α	AA	I	U	E	0	A:	Å	Å:
DHK	첰 DHKA	화 DHKAA	िव्य рнкі	а́, рнки	(\$\frac{1}{2}\text{DHKE}	(की	점 8 DHKA:	ਬੈ dhk å	컴 DHKA:
DHKH	ধ্য	ধ্যা	ধ্য	या	(धा	ধ্যো	या १	ধ্য়	ধ্য
DHG	ধ্ন	ধ্রা	ধ্রি) N	ধ	ଖ	318	ង្គឹ	ង្គំ
DHGH	ध	थ्या	िध	थ्यू	(ध	(धा	या १	र्यं	ਖਬੰ
DHNG	ğ	<u>\$</u> 1	ફિ	と	E	(2)	8.8	ષ્ટું	ર્યું
DHC	শ্ব	শ্বা	প্লি	ধ্	Ø	প্তা	3 18	ä	भ्रं
DHCH	3	31	ब्रि	3	(S)	(3)	38	ğ	ğ
DHJ	યું,	351	િધુ,	y ,	(લુ,	(37)	3,8	ર્યું.	ਬ੍ਹੰ
DHJH	ধা	শ্মা	ধ্যি	યુ,	(গ্ৰা	(भा	मा १	ধাঁ	ধা
DHNJ	યુ,	31	િધુ,	भु	લ	(3)	3,8	र्षु	ર્યું
DHT	ધ η	ধ্যা	ધિત	ঋ	(લ ₁	(ধন	યત 8	ર્યો	ર્યાં
DHTT	કુ	হা	ફિ	볓	હ	(হ্যা	38	શું	ર્યું
DHTH	a a	ষ্টা	ક્ષિ	な.	(g.	ঞ্চা	3. 8	ક્ષું	ğ
DHTTH	B	ষা	ষ্ঠি	ä	ଖ	ଖା	88	ģ	å

Annex-V Table 19 : Cluster 4 DH with vowel, nasal and long sound diacritical marks

		Vo	wel Sound	Vowel A & Sound Modifier Mark					
Character DH			Long - Nasal - Nasal & Lon						
	A	AA	Ì	U	E	0	A:	Å	Å:
DHD	본	뵘	ষ্টি	ষ্	ୱ	ଞା	불8	ģ	ş
DHDD	벌 DHDDA	31 DHDDAA	별 DHDDI	3 DHDDU	(3) DHDDE	(3)	考8 DHDDA:	धुं DHDDĀ	3 DHDD&
DHDH	설	혦	ব্লি	ধ্ব	প্র	(গ্লা	멸8	ង្គំ	볇
DHDDH	ધુ	ষ্টা	િધુ	뵎	(ધુ	(\$1	સ 8	ર્યું સું	ધું
DHN	<u></u> 뙭	ধ্রা	ង្គ	崩	ধ্ব	ধ্রা	ä8	ង្គ	ង់
DHNN	ક્ષ	क्षा	ક્ષિ	ક્ષુ	લ	(ধ্রা	स ,8	ક્ષું	ર્યું,
DHP	¹ ध	धा	िध	भा	(ध	(धा	म्य १	भंग	^प यं
DHPH	ધુ,	ध्र	ધિ્	ધ્	(વૃ.	(ধুঃ)	ધ્. 8	र्यू	ર્યું.
DHB	l ਬ	j ਬ1	। ਬਿ	<u> </u> [철	(a	(al	됨8 J	ä	j å
DHBH	ષ્	क्ष	ફિ	ষ্ঠ	(સ	(8)	4 8	र्वं	ર્યું,
DHM	শ্বা	শ্বা	िम	भ्र	(द्या	(भा	न्ना १	ধা	धां
DHY	ধ্য	ध्या	धि	ধ্য	(ঘ	(धा	श्रा १	धं	धं
DHR	볔	폐	ধ্রি	<u>복</u> ,	্র	(গ্রা	<u> </u> 북8	<u> </u> ង្នំ	ង្វ

Annex-V Table 19 : Cluster 4 DH with vowel, nasal and long sound diacritical marks

		1	owel Sour	Vowel A & Sound Modifier Mark					
Character DH				Long -	Nasal -	Nasal & Long			
	Α	AA	1	U	Е	0	A:	Å	Å:
DHL	牌	क्षा	क्षि	ষ্	Ħ	ল্লা	#8	य	ਬੁੱ
DHW	ង្គ	湖	a [a	ä	(a	ଖା	ਬ8	ង់	ង់
DHS	क्षा	भ्रा	िश	भ्रा	(द्या	(झा	क्षा १	क्षां	भ्रं
DHSH	ង្គ	খ্লা	ব্লি	क्ष	প্ল	প্লা	#8	ង្គំ	ង្គំ
DHSS	ধ্য	শ্বা	िध	भ्र	(ध	(धा	या १	^{ध्} र्यं	યાં

Annex-V Table 5 : Cluster গ G with vowel, nasal and long sound diacritical marks

		V	Vowel A & Sound Modifier Mark						
Character G			Long - Nasal - Nasal & Long						
	A	AA	I	U	Е	0	A:	Å	Å:
GК	य gka	की gkaa	िंस GKI	यु GKU	(H GKE	(ध्री ско	क gka:	र्क GKÅ	— વૈત્તૈ GKAੈ
GKH	<i>র্</i> ম	<i>्</i> ग्री	িয়	<i>থী</i>	(নুয়া	(ध्रा	-श्र	গ্ৰ্	ग्रं
GG	ञ्ज	आ	भि	श्च	झ	स्रा	318	भू	ક્રૌ
GGH	्य	<u>ু</u> য়া	िम	र्यो	(द्य	्घा	य १	រដ្ឋ	រាជ្ញ
GNG	ટ્ય	2X1	િટ	ઢ	(%	(S)	28	Ž,	જુ
GC	श्र	গ্রা	श्चि	શ્રુ	(ਬ	(धा	श्र	24	21
GCH	A	3 11	ગ્નિ	A.	(Z	(3 71	28	ď	Ą
GJ	જુ,	32.1	િંક,	જુ	(<i>3</i> ,	(ম্বা	3.8	શું,	યું,
GJH	्रम	्या	िम	જુ	(ग	(स्मा	2H 8	भू	भ
GNJ	सू	ফু	क्ट्रि	ऋ	*	দ্ম	₹8	亵	奖
GT	ગ્ન	<i>শ</i> না	િમ	<i>ગ</i> ુ	(જમ	শেনা	ું મું ક	ગર્ન	ગ્રું
GTT	દ	গ্ৰ	શિ	ય	હ	গ্ৰে	58	શું	શું
GTH	J	\$H	િય	યુ	(F)	(B)	28	Ą	J J
GTTH	8	গ্ৰ	शि	શ્	(8)	প্তা	88	ð	ව්

Annex-V Table 5 : Cluster ্য G with vowel, nasal and long sound diacritical marks

		Vo	Vowel A & Sound Modifier Mark						
Character			Long - Nasal - Nasal & Long						
G	A	AA	ı	U	E	0	A:	Å	Å:
GD	2	श	थि	ર્	(2	গ্রা	28	2	ટ્ટ
GDD	SJ GDDA	331 gddaa	GDDI	eddan F	GDDE	(3)	S 8	S GDDA	ડો GDDÅ
GDH	ย	গ্রা	धि	มู	ମ୍ବ	(ঘ্রা	ย8	ยื่	ย่
GDDH	શુ	প্ত	રિ	શ્	ઉ	(£)	3.8	શું	શું
GN	욁	গ্না	្រា	શ્	ଖ	গ্লা	38	ង្គំ	វៀ
GNN	ગ્ન	श्च	િવ્ય	યુ	(દ્ય	গ্রো	48	યું	યું
GP	ন্য	ু থা	िघ	ग्र	्य	्घा	2A 8	∙ญ่	่งนึ่
GPH	ર્ગ	গ্ন	ર્જિ	ર્ગુ	(£	(হো	ર્ગ 8	ર્યું	ર્યું.
GB	ย	धा	धि	श्च	(ਬ	(धा	a १	यं	ย่
GBH	ગ્	-হা	ૠ	ઝુ	લ્દ	ংহা	28	શું	શું
GM	শ্ব	ग्मा	िम	ग्र	(म	(मा	2118	ফা	•ม่
GY	গ্য	গ্মা	िय	থ্য	(य	(धा	•च १	গাঁ	થ <u>ા</u> ં
GR	<u>ন</u>	ᆀ	[]	<u>및</u>	্র	্রা	38	<u>ച</u>	ฎ

Annex-V Table 5 : Cluster ্য G with vowel, nasal and long sound diacritical marks

Character G		1	owel Soun	Vowel A & Sound Modifier Mar Long - Nasal - Nasal & Long					
	Α	AA	1	U	E	0	A:	Å	Å:
GL	취	গ্লা	िञ्च	શુ	ଖ	(শ্লা	શ્ર	श्	ลุ่
GW	ឧ	ឌា	ब्रि	बु	(2)	্লা	ล8	រដ្ឋ	ឌំ
GS	<i>থ</i> া	श्मा	िम	श्र	(A)	(था)	श्र	গ্ম	श्रं
GSH	រ្គ	গ্না	গ্লি	গ্ন	ଖ	গ্লা	ส.8	มื่	สู่
GSS	ু নু	ু গ্লা	िघ	শ্ব	(হ্য	(या	2A 8	−រជ្ជំ	ามื

Annex-V Table 6 : Cluster घ GHwith vowel, nasal and long sound diacritical marks

		Vo	wel Soun	d Mark			Vowel A	& Sound Mod	difier Mark
Character							Long -	Nasal - Na	asal & Long
GH	A	AA	Į	U	E	0	A:	Å	Å:
GHK	智 GHKA	到 GHKAA	ਬ _{GHKI}	₮ ,	SHKE	द्या внко	哥8 ghka:	哲 GHKA	韬 GHKA:
GНКН	घ्य	घ्या	घ्य	ध्य	घ्य	ध्या	घा १	म्म	घ्यं
GHG	ঘ্ন	झा	ব্লি	য়	Ħ	झा	म्र	झै	प्न
GHGH	घ्य	घ्या	िध	ध्यु	ध्य	ध्या	घा१	घ्यं	घ्यं
GHNG	ष्ट	ष्ट्रा	ষ্টি	द्य	Z	দ্ভা	ह्य १	ष्ट्रं	ष्ट्रं
GHC	घ्र	घ्रा	ষ্	घ्र	घ	দ্রা	घ्र8	蟷	ध्रं
GHCH	म्र	म्रा	ষ্ক্রি	夏	A	भ्रा	I 8	戴	冀
GHJ	घु	म्रा	ध्रि	द्य	ष्ठ	দ্ধা	मु. १	घु:	ष्ठ
GHJH	घा	घा	िधा	ध्य	धा	धा	घा १	घाँ	घाँ
GHNJ	घु	म्रा	ध्रि	घु	<i>ખુ</i> ,	দ্রা	मु ,8	र्ष्ड,	र्ष,
GHT	घ्त	ष्मा	िष	ष्	घ	দ্যা	म् १	र्घ	घ्
GHTT	द्य	धा	धि	द्य	£	ष्टा	ह्य	ष्ट	ष्ट
GHTH	म्ब	म्ना	দ্ধি	দ্ধ	म्र	দ্ধা	म्र	म्ह	म्ह
GHTTH	ষ্ঠ	ष्ठा	ष्ठि	ষ্	g	প্তা	B 8	. '	ष्ठ

Annex-V Table 6 : Cluster घ GHwith vowel, nasal and long sound diacritical marks

		Vo	wel Sound	d Mark			Vowel A &	Sound Mod	ifier Mark
Character							Long - N	lasal - Na	sal & Long
GH	Α	AA	1	U	E	0	A:	Å	Å:
GHD	घ	घ्टा	ष्टि	घृ	ā	<u>হা</u>	됨8	뱔	휟
GHDD	घु GHDDA	घा ghddaa	घु GHDDI	घु GHDDU	F. GHDDE	द्धा GHDDO	द्ध8 ghdda:	ष्ठं GHDDÅ	धुँ GHDDA:
GHDH	ធ្ន	घ्वा	घ्वि	घ्	ā	দ্বা	घ्र8	閨	閨
GHDDH	घु	धा	धु	घु	धु	म्रा	द्य,	धुं	धु
GHN	घ	ঘ্লা	घ्नि	घ	ង្គ	দ্লা	<u> </u>	ផ្ដ	ដ្ដ
GHNN	ध्र	ध्रा	घ्रि	द्य	ध्र	श्रा	ह्य १	ध्र	萬
GHP	घ्य	घा	ध्य	ध्य	ध	ध्या	घा १	र्घ	घाँ
GHPH	घू	घ्रा	ध्रि	घू	ध्	ध्रा	घ्.8	र् म्	ध्
GHB	घ	घा	घ्रि	घ्	घ	ঘ্রা	घ १	ਬ	趙
GНВН	घ्र	म्रा	घ्रि	ष्ठ	घ्र	ष्ठा	इ .8	ष्ट्रं	घ्हं
GHM	घा	घा	ध्य	ध्य	দ্ম	म्रा	घा १	ঘুা	घाँ
GHY	घ	घा	धि	ध्य	ध	धा	चा१	र्थं	धं
GHR	멸	घ्रा	घ्रि	異	घ्र	দ্রা	国8	茸	草

Annex-V Table 6 : Cluster घ GHwith vowel, nasal and long sound diacritical marks

		'	owel Sour	nd Mark			Vowel A	& Sound Mo	odifier Mark
Character							Long -	Nasal - 1	Nasal & Long
GH	Α	AA	1	U	E	0	A:	Å	Å:
GHL	म्न	म्रा	म्लि	घ्र	घ्न	म्रा	झ 8	볉	幫
GHW	ঘ্ব	घ्वा	घ्व	घ्व	घ्व	घ्वा	<u>।</u> घ्र	별	। घ्वं
GHS	घा	घ्मा	घ्मि	भ्र	ध्र	धा	घा १	घाँ	घा
GHSH	ធ ្ល	म्ना	দ্ধি	घ्न	শ্ল	দ্লা	म्र १	ផ្តាំ	뛽
GHSS	घ्य	घ्या	िध्य	ध्य	ध्य	ध्या	घा १	घ्यं	घ्यं

Annex-V_Cluster_H Table 32 : Cluster ₹ H with vowel, nasal and long sound diacritical marks

		١	owel Sour	nd Mark			Vowel A	& Sound Mo	odifier Mark
Character							Long -	Nasal - 1	Nasal & Long
н	A	AA	1	U	Е	0	A:	Å	Å:
НК	ৰূ	ন্ধা	ন্ধি	র্ক্	ৰ্ধী	ৰ্না	ৰূঃ	ৰ্কা	ৰ্কা
НКН	ন্ধ	द्या	হ্মি	দ্ধ	ইর্ম	দ্মা	द्या १	朝	辑
HG	A	ন্না	ন্ধি	ন্ধ	Ж	র্না	A8	রা	ភាំ
HGH	ন্ধ	न्धा	ন্ধি	ব্ব্য	দ্র	দ্মা	द्या १	寸	द्यां
HNG	ক্র	ন্ধ	ক্রি	ক্র	ঠ্র	ন্ত্র	ক্রঃ	ক্র	ঠ্ঠা
нс	গ্র	ন্ধা	ন্ধি	দ্ধ	র্না	্ব <u>ত্রা</u>	<u>র</u> 8	রা	রা
нсн	ক্র	ক্ল	ক্লি	ক্র	హ్	ন্ত্র	ক্র	ক্ল	勐
HJ	ক্স	ক্ষা	ক্রি	<u>ক্</u>	র্জ	<u>ক্</u>	রূঃ	ক্ষ	র্কা
НЈН	ন্ধ	ন্ধা	ক্রি	<u>ক্</u>	斩	দ্মা	क्त 8	霸	辅
HNJ	<u>ক্</u> ক	ন্ধ	ক্রি	হ্ব	র্ক	হ্ন	ক্র	勮	র্ক্ত
нт	দ্ধ	দ্মা	দ্ধি	দ্	ৰ্দা	না	দ্ধঃ	ৰ্ন	ন্ধ
нтт	হ্র	হা	হ্যি	হ্য	ঠা	হা	হ্যঃ	হ্ৰী	ঠা
нтн	ক্র	ক্রা	ক্রি	ক্ত	র্	ক্লা	ক্র	ক্র	ক্র
нттн	র্জ	ন্তা	<u>চি</u>	ক্র	ฮั	গ্ৰ	578	ৱা	র্টা

Annex-V_Cluster_H Table 32 : Cluster ₹ H with vowel, nasal and long sound diacritical marks

		1	owel Sour	nd Mark			Vowel A	& Sound Mo	odifier Mark
Character							Long -	Nasal - 1	Nasal & Long
н	Α	AA	Ì	U	Е	0	A:	Å	Å:
HD	হ্র	হ্রা	হ্রি	হ্র	ইা	ই্রা	হ্র ৪	হা	হাঁ
HDD	ক্ত	ন্ত্র	্রি জ	<u>ক্</u>	ৰ্ক্ত	হ্রা	<u>5</u> 78	ক্ত	ক্র
HDH	ងា	ন্ধা	দ্ধি	দ্ধ	ង័ា	দ্রা	দ্রা ৪	ផាំ	ឆាំ
HDDH	ক্ত	ন্ধ	ক্তি	ক্র	ৰ্ট্টা	হ্বা	ক্রঃ	ৰ্ক্তা	ক্ষ
HN	រា	ন্ধা	តែ	ন্ধ	ង្គ	রা	<u>ज</u> 8	នាំ	តាំ
HNN	র	ন্ধ	হ্নি	ক্ষ	ঠা	ন্ত্ৰ	দ্র ৪	র্ক	র্চ
HP	দ্র	न्ता	ন্ধি	ন্ম	ন্ম	দ্মা	দ্ধ8	र्घा	चाँ
НРН	হ্ব	হ্না	হ্বি	হ্ন	হ্ব	হ্না	হ্নাঃ	হ্বা	হ্বা
нв	গ্র	ন্ধা	<u>জি</u>	দ্ধ	ង័ា	<u>র্</u> বা	ৰ্ম ৪	<u>តា</u> ់	តាំ
нвн	হ্ন	ন্ধ	হিন	<u>ক্</u> য	ৰ্ম	হা	হ্নঃ	ৰ্চা	ৰ্কা
НМ	ন্ধ	झा	ক্রি	顼	新	ক্ষা	क्र १	क्रौ	झाँ
HY	द्या	न्त्रा	ন্ <u>রি</u>	ক্স	গ্ৰ	গ্ৰা	न्ना १	र्या	द्यां
HR	র	ন্না	<u>দ্</u> রি	ক্র	সা	<u>রা</u>	<u>র</u> ৪	রা	রা

Annex-V_Cluster_H Table 32 : Cluster ₹ H with vowel, nasal and long sound diacritical marks

		١	owel Sour	nd Mark			Vowel A	& Sound M	lodifier Mark
Character							Long -	Nasal -	Nasal & Long
н	Α	AA	1	U	Е	0	A:	Å	Å:
HL	গ্ল	ন্ধা	ন্ধি	ক্	æ.	না	রূ ৪	রা	রা
HW	តា	ন্ধা	<u>জি</u>	ক্	ង័	ন্ধা	র 8	តាំ	តាំ
HS	झा	क्ता	হ্নি	ক্স	ক্ষ	ऋा	ऋ १	झां	新
HSH	শ্	ন্না	ন্ধি	দ্ধী	ភា័	ন্ধা	ন্ম 8	ង្គាំ	ភាំ
HSS	দ্ধ	न्धा	ন্ধি	দ্ধ	র্ম	দ্রা	द्या १	ជាំ	甜
НН	হ্ন	হ্না	হিন	হ	হ্ব	হ্যা	হ্নঃ	হাঁ	হাঁ
		1							

Table 10 : Cluster अ J with vowel, nasal and long sound diacritical marks

		V	owel Sour	d Mark			Vowel A	& Sound Mo	difier Mark
Character							Long -	Nasal - N	lasal & Lon
J	Α	AA	ļ	U	E	0	A:	Å	Å:
JK	JKA	JKAA	कि JKI	ЭКU ФД	JKE ∰	1ко 2 21	₹√8 JKA:	añ JKÅ	δή JKÅ:
JKH	য়া	হ্মা	হ্মি	<u>ম</u>	য়	<u>ঋা</u>	ऋ १	য়া	য়া
JG	ন	ন্না	রি	ক্র	ÃĨ	না	রা ৪	রা	রা
JGH	ণ্দ	দ্ধা	ন্ধি	দ্ব	ঘ	দ্মা	দ্ধ8	ৰ্ম	ৰ্ম
JNG	ফ্র	হ্ন	হ্রি	ফ্র	25	<u>\$1</u>	<u>22</u> 8	ফ্র	ফ্র
JC	<u>ৰ</u>	<u> </u>	<u>ৰি</u>	ক্	ăĭ	<u>রা</u>	वा १	<u>ৰ</u> া	a i
JCH	<u>a</u>	ক্ল	ক্রি	2	22	2 1	3 28	勐	瓤
JJ	<u>2</u>	<u>ক্</u> রা	35/	<u>2</u>	22	<i>ই</i> না	228	3 /2	3 5
JJH	ক্ষ	ক্ষা	ক্ষি	32	ኽ	মা	ऋ8	<u>ক্</u>	ऋं
JNJ	ङू	स्रा	ह्रि	ह्	¥.	ফ্লা	<u>₹</u> 8	奖	奖
JT	ন্দ	ন্দা	ন্ধি	চ	ৰ্দ্	দ্যা	ক্ষি8	ৰ্ক	ৰ্দ্ধ
JTT	হ্য	श	হিন	2)	22	<u>5</u> 1	<u>278</u>	হা	হা
JTH	ফ	21	ক্রি	20	22	221	228	<u>2</u>	ফ্র
JTTH	<u>ক</u>	গ্ৰ	් a	ক্	ðĩ	<u>না</u>	নঃ	ঠা	ฮำ

Table 10 : Cluster क J with vowel, nasal and long sound diacritical marks

		Vo	owel Sour	d Mark			Vowel A	& Sound Mo	difier Mark
Character							Long -	Nasal - N	asal & Long
J	A	AA	I E	U	Е	0	A:	Å	Å:
JD	হ্র	হ্যা	হিন	হ্	ই্য	হ্রা	হ্ৰাঃ	হা	হাঁ
JDD	37	31	<u>ক্রি</u>	<u>3</u>	351	31	328	<u>3</u> 5	35
JDH	ত্রী JDHA	JDHAA	হ্লি _{JDHI}	JDHU ĴĴ	JDHE	ы ы ы	ক্রা 8 Jdha:	ลี่ JDHA	ฐ์กั JDHÅ:
JDDH	হ্র	হ্য	হৈ	হ্ব	<u>2</u> 2/	<i>2</i> .4	<u>328</u>	হ্ৰ	হু চ
JN	ন	ភា	ি	ক্র	ភា	না	ন্নঃ	রা	ភាំ
JNN	ঞ	গ্ৰ	ঠি	Đ	22	24	228	श्	क्र
JP	ফা	ফা	ফি	য্ম	শ্ব	ট্যা	ফ াঃ	ৰ্ম	ាធំ
JPH	হ্ন	হা	হিন	হ্	<i>\$</i> 2	হ্য	₹78	হা	হ্য
JB	<u>a</u>	<u></u> বা	<u> </u>	ক্	ৰ্	গ্রা	<u>a</u> ।8	ৰ্কা	<u>র</u> া
JBH	হ্ন	হ্য	<u>হ্</u> চি	ক্য	ৰ্চ	হা	হ্ন8	ৰ্ফ	ঠা
JM	ক্ষ	क्रा	ক্ষি	ক্স	গ	<u>সা</u>	ऋ8	ক্ষ	3ជំ
JY	ফা	ফা	ফি	য্ম	হ্য	ফা	হ্ম8	য়া	ষাঁ
JR	<u>ন</u>	<u> </u>	<u>রি</u>	হ্য	ৰ্ম	<u>রা</u>	ন্ন ৪	রা	গ্ৰ
	1	18	1	1	1				

Table 10 : Cluster ব J with vowel, nasal and long sound diacritical marks

		1	owel Sour	nd Mark			Vowel A	& Sound	Modifier Mark
Character							Long -	Nasal -	Nasal & Long
J	A	AA	I Ea	U	E	0	A:	Å	Å:
JL	ন	না	ন্নি	<u> </u>	র্	না	ন্ন ৪	রা	রা
JW	<u>a</u>	<u>बा</u>	<u> </u>	ক্	ãí	্বা	্রাঃ	<u>র</u> া	ai
JS	য়	क्रा	হিম	য়	क्र	क्रा	ऋ १	क्र	য়া
JSH	ত্র	গ্লা	ক্রি	ক্স	ភា	<u>ক্</u> রা	ক্লাঃ	রা	ភាំ
JSS	হ্ম	হ্মা	ফি	<u>ম</u>	শ্ব	য্না	ফা 8	য়া	ជា់
			i				_l	 l	

Table 3 : Cluster निK with vowel, nasal and long sound diacritical marks

		,	owel Sou	nd Mark			Vowel A	& Sound Mod	ifier Mark
Character							Long -	Nasal - Na	sal & Long
Κ	A	AA	I	U	E	0	A:	Å	Å:
KK	ৰূ	का	齲	斬	ৰ্দ্ধ	ন্ধা	क्र8	क्तं	ৰূ
KK	KKA	KKAA	ККІ	KKU	KKE	кко	KKA:	KKÅ	KKÅ:
ККН	અ	क्रा	क्कि	क्	鋷	辆	₹8	載	स्र
KG	ज्ञ	क्रा	क्रि	ज्ञ	Ā	페	ज़ १	肅	肅
KGH	क	क्या	क्षि	कु	क्ष	क्या	क्त १	क्	क्ष
KNG	ক্র	क्रा	ক্রি	ক্র	5 5	ক্লা	क्रा	क्रं	ಪ್
KC	ब्रा	क्रा	क्रि	क्र	ब्रॉ	ক্রা	ब्रा १	क्री	ब्रां
ксн	ক্র	ক্লা	ক্কি	あ	あ	新	ক্ল	ক্র	क्रं
KJ	क्र	क्रा	ক্সি	क्र	3 1	ক্সা	<u>क</u> ्र १	ক্র	क्रं
KJH	垂	का	कि	क्र	軝	輣	का १	斬	क
KNJ	ক্ত	क्रा	ক্তি	क्र	\$ 5	3571	क्र8	क्र	ক্ট
KT	का	का	कि	5	ৰ্দ্	ন্যা	का 8	ৰূ	क्
ктт	ক্ত	হ্যা	গ্রি	হ্য	2 5	হ্যা	<u>হা</u> ।	डां	হাঁ
ктн	ক্ষ	क्रा	ক্ষি	ক্	¥	শ্	क्रश	ক্ষ	ক্ষ
кттн	न	्रा ह्या	 ਗਿ	ग	ðī	्रा जा	न्ध	र्म	र्ग

Table 3 : Cluster $\P K$ with vowel, nasal and long sound diacritical marks

			Vowel Sou	nd Mark			Vowel A	& Sound Mod	lifier Mark
Character							Long -	Nasal - Na	asal & Long
κ	A	AA	1	U	E	0	A:	Å	Å:
KD	क्र	क्रा	क्रि	ক্র	শ্র	ক্রা	श्र	割	द्यं
KDD	ক্ত	ক্তা	্রি ক্রি	ক্	35	ন্ত া	<u>ক্</u> য	ক্ত	ङो
KDH	ক্স	क्वा	ক্সি	ক্স	ন্ত্র	ন্ধ্রা	न्न १	क्रं	ផ្តាំ
KDDH	क्र	क्रा	ক্তি	ক্	2	ন্থা	ন্তঃ	হ্টা	क्रं
KN	តា	क्रा	क्रि	ক্	ងា	ন্ধা	ज्ञ १	តាំ	តាំ
KNN	क्र	ह्या	র ক্লি	क्र	¥	ক্সা	क्रा	क्रं	क्रं
KP	垂	क्रा	क्रि	板	क्ष	स्रा	स्त १	र्क	क
КРН	क्	क्रा	হ্ছি	₽	£ 2	হ্বা	क्र8	क्	क्
КВ	बा	का	क्रि	क्	ৰ্ষা	क्वा	बा १	वां	वां
КВН	<u>ক</u>	का	হি ন	কু	ৰ্চ	হ্যা	ক্য	ষ্ঠ	ষ্ঠ
KM	斬	क्रा	क्रि	क्	軝	क्रा	#ा १	क्र	斬
KY	क	का	_ स्रि	क्	क्र	स्रा	स्त १	र्या	र्क
KR	事	क्रा	_ क्रि	新	Яĭ	ন্সা	রঃ	রা	南

Table 3 : Cluster निK with vowel, nasal and long sound diacritical marks

			Vowel Sou	nd Mark			Vowel A	& Sound Mod	lifier Mark
Character							Long -	Nasal - Na	isal & Long
K	A	AA	ı	U	E	0	A:	Å	Å:
KL	न्न	क्रा	क्रि	a	শ্ল	ন্না	त्र १	र्बा	គាំ
KW	ब्र	ब्रा	 a	क्	ងា៍) ক্রা	क्र8	क्रं	क्रं
KS	執	क्रा	∢	執	軝	辆	₹8	क्र	क्रं
KSH	ক্ল	क्रा	ক্লি	क्र	শ্ল	ক্লা	គ្គា៖	ត្តាំ	ផ្តាំ
KSS	31	आ	<u> ক্রি</u>	<u> </u>	31	3গ	<u>37</u> 8	31	31

Annex-V Table 4 : Cluster স্থ KH with vowel, nasal and long sound diacritical marks

		Vo	wel Soun	d Mark			Vowel A & Sound Modifier Mark				
Character							Long -	Nasal - Na	asal & Lonç		
кн	Α	AA	1	U	E	0	A:	Å	Å:		
кнк	ख् кнка	៕ кнкаа	智 кнкі	强	₹ Б	'হ্বা кнко	酒8 кнка:	र्क्क кнк ⊀	खैं кнк å :		
кнкн	य्म	ख्या	िन्म	ख्यू	न्धा	শ্মা	या १	ख्यं	ख्री		
KHG	खु	न्त्रा	द्धि	खु	ख्र	প্রা	瓀8	र्ख	ख़ै		
кнан	ख्य	ख्या	िष्य	'धु	*ध	"धा	न्दा १	ख्यै	खाँ		
KHNG	复	স্থ্য	ट्टि	复	Z	'হ্ৰা	28	爱	평		
кнс	ख	ख्रा	खि	স্থ	শ্ব	শ্বা	ख 8	ख्रं	增		
КНСН	শ্ব	স্থ্য	স্থি	复	A	শ্বা	% 8	貫	幫		
КНЈ	স্থ্য	স্থ্যা	ন্ধি	ন্ত্র	\$	<i>'</i> ব্ধন	স্কু 8	স্ত	खु		
КНЈН	न्म	ख्मा	ित्रा	खाू	শ্বা	শ্মা	न्या १	শ্বা	खाँ		
KHNJ	खु,	ख्य	रिषु,	खु	₹,	₹ 3 1	र नु, १	खुं,	र्खुं		
КНТ	ख	न्मा	ব্দি	শ্ব	শ্ব	'দ্দা	य्द 8	र्क	ख्तै		
кнтт	乭	श्र	স্থি	雭	.a	শ্রা	翌8	乽	遭		
КНТН	স্ক	স্কা	শ্বি	শ্ব	T	শ্বা	3 8	স্ক	खु		
кнттн	'ল স্ত	 'हा	न्ति	স্ত্র	ð	শ্বী	<u> </u>	र्ख	.) 'वै		

Annex-V Table 4 : Cluster স্ব KH with vowel, nasal and long sound diacritical marks

		Vo	wel Sound	d Mark			Vowel A &	Sound Mod	ifier Mark
Character							Long - N	lasal - Na	sal & Lon
кн	A	AA	1	U	E	0	A:	Å	Å:
KHD	펻	স্থা	স্থি	च	শূ	শ্রা	필8	켵	컐
KHDD	खु KHDDA	चा	िंचु KHDDI	खु KHDDU	KHDDE	*31 кноро	電 8 KHDDA:	खुं KHDDÅ	खुँ KHDDÅ:
KHDH	खु	স্থা	স্থি	खु	শ্ব	শ্বা	म्ब्र	खुं	컣
KHDDH	खु	শ্বা	ন্তি	खु	শ্ব	'ব্যা	खु १	खुं	खुँ
KHN	ख	ञ्जा	ন্ধি	खू	শ্ব	শ্বা	ख्न १	खै	껾
KHNN	न्ह	न्ह्या	स्त्रि	सू	শ্ব	শ্বা	न्ह,१	न्ह	ख्
КНР	खा	खा	िच्य	ख्यू	च्य	"घा	•चा १	ख्यं	खाँ
КНРН	खू	শ্ব্য	ব্হি	खू	শৃ	শ্বা	ख्. १	ख्	खूं
КНВ	ख	खा	खि	ख्	শ্ব	শ্বা	ख8	र्ख	컙
КНВН	खू	न्हा	स्हि	स्तु	*8	*হা	ऋ १	ख्	ख्
КНМ	खा	खा	िद्या	ख्य	শ্বা	শ্বা	न्द्रा १	खाँ	खाँ
КНҮ	ख्य	खा	िश्य	ख्य	শ্য	শ্মা	खा १	ख्यै	खाँ
KHR	꼌	শ্রা	^{चि} त्र	霟	শ্ৰ	শ্রা	<u>ख</u> 8	增	켴

Annex-V Table 4 : Cluster স্ব KH with vowel, nasal and long sound diacritical marks

		٧	owel Soun		Vowel A & Sound Modifier Mark						
Character							Long - Nasal - Nasal & Long				
кн	A	AA	1	U	E	0	A:	Å	Å:		
KHL	ख	खा	द्धि	खु	স্থ	क्षा	ख़ १	ख़ै	ख़ै		
KHW	' 껾	ख्वा	द्वि	खु	শ্ব	শ্বা	<u>ख</u> 8	र्ख	增		
KHS	या	ख्या	िया	न्त्र	শ্বা	श्मा	*श्र	ख्रा	ख्री		
KHSH	껿	ख्ना	द्वि	ख	শ্ব	শ্লা	318	र्ख	졌		
KHSS	न्या	ख्या	िष्य	ख्यू	শ্ব	শ্বা	*चा १	ख्यै	ख्यै		

Annex-V Table 29 : Cluster ल L with vowel, nasal and long sound diacritical marks

		V	owel Sour	Vowel A & Sound Modifier Mark						
Character							Long - Nasal - Nasal & Long			
L	A	AA	l	U	E	0	A:	Å	Å:	
LK	क	न्धा	न्कि	न्तु,	ন্ধ	ন্ধা	न्द्र १	क्ष	र्वं	
	LKA	LKAA	LKI	LKU	LKE	LKO	LKA:	LKÅ	LKÅ:	
LKH	न्म	न्मा	िग्र	न्मू	न्म	त्या	न्म8	ल्म	ल्धं	
LG	ন্ন	न्ना	ল্লি	ল্প	ন্ত্র	ন্ত্রা	ज्ञ १	ङ्ग	न्नं	
LGH	न्य	न्धा	ন্দ্যি	त्यु	ल्घ	ल्घा	न्प्र	ल्प्रं	न्धं	
LNG	雹	ন্ত্রা	ন্তি	ন্তু	2	ন্ত্রা	ह्य १	ヹ	霓	
LC	च	न्त्रा	ब्रि	म्रु	শ্ব	ন্ত্ৰা	च्र8	र्च	ब्रं	
LCH	স্ক	न्त्रा	ন্থি	ন্ম	A	ন্ত্ৰা	I 8	幫	ब्र	
LJ	न्द	न्ता	ন্ধি	क	35	ন্ত্রা	न्द्र १	ন্ত	ন্ত	
LJH	न्म	न्मा	। শ্মি	न्म	শা	त्मा	न्म8	শ্ম	, শু	
LNJ	न्दु	न्प्र	ন্ধি	नु	T,	ন্ত্রা	न्द्र,8	ন্ত্ৰ	ন্ধ	
LŤ	ন্দ	न्मा	ন্দি	ন্দ	শ্দ	ন্দা	ন্দ8	ल्फ्	ન્તું	
LTT	न्य	ग्र	হি	द्य	T	ন্তা	78	吏	र्गुं	
LTH	'ৱ	न्ना	ন্ধি	ন্ম	T	ন্ম	38	ন্ধ	न्ह	
LTTH	ন্ত	ন্তা	ਬਿ	ন্ত্	a	গ্ৰা	न्ध	र्च	तुं	

Annex-V Table 29 : Cluster ल L with vowel, nasal and long sound diacritical marks

		Vo	wel Soun	d Mark			Vowel A	& Sound Mo	difier Mark
Character							Long -	Nasal - N	asal & Long
L	A	AA	Î	U	E	0	A:	Å	Å:
LD	च	द्या	ट्टि	न्य	ন্ত্ৰ	শ্রা	च्र8	켣	켣
LDD	नु LDDA	IDDAA	चुि LDDI	नु LDDU	TJ LDDE	ন্ত্রা LDDO	可8 LDDA:	तुं LDDÅ	नुं LDDÅ:
LDH	<u>ত্ব</u>	ন্ম	ন্মি	ন্ম	ন্ত্র	ন্ত্রা	ন্ত্ৰ8	ল্ব	র্ঘ
LDDH	नु	न्धा	ন্তি	नु	સ	ন্তা	च्छ।	तु	तुः
LN	ল্ল	ল্লা	द्वि	ল্ব	ল	ল্লা	ធរ	র	ল্ল
LNN	ह्म	न्ना	ह्य	न्ह	क्ष	न्त्रा	ऋ8	न्हं	लुं
LP	न्य	न्या	िय	न्यू	ल्य	न्या	न्य १	न्यं	न्यं
LPH	न्	न्म	च्छि	न्	ন্	ন্ম	न्,१	न्,	न्,
LB	च	चा	ा चि	ন্থ	শ্ৰ	ন্ত্রা	च8	र्च	र्चं
LBH	ल्ह	न्हा	िह	স্ত	শ্	न्हा	ऌ8	ल्हं	ल्हं
LM	न्म	न्मा	न्मि	न्म	শ্ম	न्मा	न्म १	न्म	न्म
LY	न्य	च्या	च्यि	च्य	শ্য	च्या	च्य8	च्यं	च्यं
LR	লু	ল্ম	গ্রি	<u>ब</u> ्च	<u>লু</u>	শ্রা	<u>च</u> 8	<u>র</u>	<u>্</u> র

Annex-V Table 29 : Cluster ल L with vowel, nasal and long sound diacritical marks

		1	owel Sour	nd Mark			Vowel A	& Sound I	Modifier Mark
Character							Long -	Nasal -	Nasal & Long
L	A	AA	Žā.	U	E	0	A:	Å	Å:
LL	ल्ल	न्ना	न्नि	न्नु	ল্ল	ল্লা	न्न8	ह्म	हाँ
LW	द्य	द्या	द्यि	न्नू	ন্ত্র	ল্লা	च्च १	ল্ল	न्तं
LS	न्म	न्मा	द्मि	न्म्	न्म	त्या	न्म8	न्म	न्म
LSH	ল্প	ল্লা	ল্লি	न्न	ធ	ল্পা	ল্ল 8	ল্ল	ផ្តាំ
LSS	न्य	न्या	िघ	न्यू	न्य	त्या	न्य १	न्धं	ការ្នំ

Table 27 : Cluster म M with vowel, nasal and long sound diacritical marks

		V	owel Sour	d Mark			Vowel A & Sound Modifier Mark				
Character							Long - Nasal - Nasal & Long				
M	A	AA	I	U	E	0	A:	Å	Å:		
мк	禹 MKA	机 MKAA	擂 мкі	 類 MKU	₹ MKE	唱	哥8 MKA:	य mka	र्क MKÅ:		
МКН	म्म	म्या	िम्म	म् गू	म्म	म्प्रा	म्म १	म्प्रं	म्धं		
MG	झ	झा	झि	मु	भ्र	आ	स १	क्षं	क्षं		
MGH	म्प	म्या	िम्प	भु	म्घ	म्घा	म्पृ8	म्धं	म्धं		
MNG	सू	स्रा	िष्ट	夏	শু	द्या	र ह8	龙	龙		
МС	म्र	म्रा	म्रि	म्रु	म्र	श्रा	#8	म्रं	碧		
мсн	ग्र	म्रा	ग्चि	夏	A	স্থ্যা	ग्रु १	蒙	큜		
MJ	मु,	मु	ी फु	- 表	₹.	मुत	मु, १	मु*	मु,		
МЈН	मा	मा	िमा	म्मृ	मा	भा	मा १	मां	मां		
MNJ	मु,	मु	न्यु ,	मु	मु,	नुप्र	गु,8	मुं,	मुं,		
МТ	म्	म्पा	म्पि	म्	भ	म्पा	म्प १	र्क्न	म्भ		
МТТ	मु	ग्रा	रिष्ट	यु	Æ	ग्रा	सु १	मुं	मुं		
мтн	मु	म्मा	िम्र	मू	A	म्रा	#४१	मुं,	मु		
МТТН	मु	श्वा	िष्ठ	मु	A	श	स्र १	र्स	सै		

Table 27 : Cluster म M with vowel, nasal and long sound diacritical marks

		Vo	wel Soun	d Mark			Vowel A 8	& Sound Mod	lifier Mark
Character							Long -	Nasal - Na	asal & Long
M	A	AA	ı	U	E	0	A:	Å	Å:
MD	य	या	ट्टि	यु	মূ	শ্রা	ჟ8	र्य	휟
MDD	मु MDDS	स्रा mddaa	िसु _{MDDI}	मु MDDU	MDDE A	मा _{MDD0}	सु४ MDDA:	र्ड MDDÅ	मुं MDDÅ:
MDH	। मु	म्बा	ग्चि	म्रु	म्र	뒓	म्र १	म्रं	मुं
MDDH	मु	स्रा	रि रु	सु	भु	ग्रा	सु १	मु	मुं
MN	झ	झा	िक्ष	झु	휡	झा	#8	क्ष	झै
MNN	#,	स्रा	स्रि	सु	स	स्रा	#8	क्ष	#,
MP	म् य	म्पा	िम्य	म्यू	भ्य	म्या	म्प्र	ग्यं	म्यं
МРН	म्	म्रा	य्	म्	र्भ	म्मा	म्,8	म्.ं	मुं.
МВ	म्र	म्रा	। धि	मु	म्र	म्रा	म् १	यं	.। र्घ
МВН	क्	स्रा	िस्	सु	क्र	क् रा	क्र १	ग रं	म हं
мм	मा	मा	िम्रा	म्म	मा	मा	मा १	मा	मा
MY	ग्य	ग्या	िंग्य	म्यू	म्य	ग् या	•य१	ग्यं	म्यं
MR	ച	펰	<u>।</u> च्रि	虹	म्	म्रा	型8	曹	 학

Table 27 : Cluster म M with vowel, nasal and long sound diacritical marks

		1	owel Sour	d Mark			Vowel A	& Sound M	odifier Mark
Character							Long -	Nasal -	Nasal & Long
М	Α	AA	1	U	E	0	A:	Å	Å:
ML	म	झा	झि	मु	म्	म्रा	स् १	棋	स्
MW	ם	म्रा	द्य	म्ब	ם	म्रा	य १	स्र	वं
MS	म्म	मा	िम्म	म्म	भा	स्मा	मा १	यां	यां
MSH	퀽	म्ना	क्स	स्	휣	শ্লা	# १	क्षै	ដ្ដ
MSS	म्प्र	म्प्रा	िम्य	म्यू	म्प	म्या	म्प्र १	म्यं	म्यू
							i		j.

Table 21 : Cluster $\overline{\mathfrak{q}}$ N with vowel, nasal and long sound diacritical marks

		V	owel Sour	d Mark			Vowel A & Sound Modifier Mark				
Character							Long -	Nasal - N	lasal & Long		
N	A	AA	I	U	E	0	A:	Å	Å:		
NK	哥 NKA	¶ NKAA	चि NKI	च्रू NKU	軧 NKE	朝 NKO	कि 8 NKA:	र्कं	र्क		
NKH	<u> </u>						_	NKÅ	NKÅ:		
	न्म	न्मा	न्मि	न्मु	न्य	न्मा	न्म १	न्मै	न्धं		
NG	ञ्ज	झा	ब्रि	ञ्च	ল্ল	গ্লা	ज़ 8	ন্ত্ৰ	ন্ত্ৰ		
NGH	न्प	न्या	न्धि	॰मु	न्ध	न्धा	न्प्र	न्धं	न्धं		
NNG	न्ह	द्या	ন্থি	न्द्र	Z.	ন্ত্রা	₹8	र्ह	न्ह्रं		
NC	च	म्रा	म्रि	भ्र	¥	শ্বা	ब १	र्छ	छं		
NCH	ब्र	ब्रा	ब्रि	ग्र	Ą	劉	ब्रु १	蒙	큜		
NJ	नु,	न्द्रा	ন্ধি	कु	<i>ক্য</i>	ন্থ্যা	ब्र. १	ड ू	बु		
NJH	न्म	न्मा	न्मि	न्मू	শ্বা	न्मा	ना १	না	न्।		
NNJ	चु,	न्त्र	न्द्रि	नु	F,	31	न्द्र,8	र्जं,	नुं,		
NT	न्	न्ता	न्मि	ন্	শ্	ন্দা	न्त् १	斬	न्भै		
NTT	ग्र	ग्रा	ग्रि	न्य	1	ন্থা	च्र8	र्र	ग्रं		
NTH	न्त	ग्ना	ন্ধি	ग्र	শ্ব	ন্মা	ग्र 8	न्ह	ग्रं		
NTTH	স্ত	न्त्रा	हि	স্ত্	ð	स्रा	न्न १	र्ष	र्छ		

Table 21 : Cluster न N with vowel, nasal and long sound diacritical marks

		Vo	wel Soun	d Mark			Vowel A & Sound Modifier Mark				
Character							Long -	Nasal - Na	asal & Lonç		
N	A	AA	ı	U	E	0	A:	Å	Å:		
ND	<u>ਭ</u>	ग्रा	ट्टि	चृ	ষ্ট	শ্র	च्र8	휟	휟		
NDD	चु ndda	न्ता nddaa	चु _{NDDI}	चु NDDU	eg NDDE	जु NDDO	चु ४ NDDA:	चुं NDDÅ	चुं NDDÅ:		
NDH	ન્ધ	श्रा	સ્ત્રિ	ન્ધ્ર	(સ્ત્ર	(સ્ત્રા	ન્ધ્ર 8	ન્ધ્રે	ર્ચ		
NDDH	नु	ग्रा	च्हि	नु	बु	द्या	चु १	न्	गु		
NN	न्न	ञ्चा	ब्रि	ब्र	ল্ল	গ্লা	न्न १	ল্ল	ब्रै		
NP	न्य	न्या	न्यि	न्यू	न्य	न्या	न्म १	न्यं	อ บ้		
NPH	न्,	न्म	ब्य्	न्	र्ग्	ग्रा	न् १	र्ग,	र्गू;		
NB	च	घा	चि	म्	च	व्या	च्च १	र्च	द्यं		
NBH	। क्	न्रा	। हिर	गु	ब् र	न्हा	<u>क</u> 8	न्हें स्	न्हें इं		
NM	न्म	न्मा	न्मि	न्म	শ্বা	गा	न्म १	ন্ম	จุำ		
NY	ग्य	च्या	च्यि	ग्यू	শ্য	খ্যা	च्य8	च्यै	ग्यं		
NR	व्र	व्रा	त्रि	虱	গু	গ্রা	न्न १	न्र	회		

Table 21 : Cluster $\overline{\mathfrak{q}}$ N with vowel, nasal and long sound diacritical marks

		1	owel Sour	nd Mark			Vowel A	& Sound M	odifier Mark
Character							Long -	Nasal -	Nasal & Long
N	Α	AA	Ī	U	E	0	A:	Å	Å:
NL	न्न	न्ना	ब्लि	न्नु	ল	न्ना	न्न १	혅	न्नं
NW	न्न	व्या	द्यि	ब्रु	ল্ল	ল্লা	च्च १	ם	ם
NS	ग्रा	ग्रा	िंग	ग्र	ग्रा	ग्रा	चा १	ग्रं	ग्रं
NSH	ब्न	ল্লা	গ্লি	ब्र	গ্ল	গ্লা	ब्र8	গ্ন	ផ្គាំ
NSS	न्य	न्या	न्मि	न्यू	न्य	न्या	न्म १	न्यूं	•น้
			_i						

Table 7 : Cluster ⅙ NG with vowel, nasal and long sound diacritical marks

		Vo	wel Soun	d Mark			Vowel A & Sound Modifier Mark				
Character							Long -	Nasal - Na	asal & Lon		
NG	A	AA	1	U	E	0	A:	Å	Å:		
NGK	ন্দ্ৰ NGKA	M NGKAA	ি NGKI	⊕ NGKU	ੴ NGKE	MGKO	कि 8 NGKA:	역 NGKA	ৰ্দ্ধ NGKÅ:		
NGKH	ত্ম	ब्या	ঝি	ন্ম	দ্ম	গ্মা	ন্ম8	ঝ	ঝ		
NGG	দ্ধ	ন্ধা	দ্ধি	<u>দ্</u>	Я	ন্ধা	দ্ৰ8	ৰ্ক	क्षं		
NGGH	ন্ম	শ্বা	ব্যি	ঞ্য	শ্ব	শ্বা	ন্ম १	শ্ব	শ্ব		
NGNG	જ	ন্তা	ন্থি	%	8	ন্তা	<u>&</u> 8	裳	ર્જ		
NGC	দ্ধ	দ্বা	দ্ধি	দ্ব	ર્ષ	দ্বা	ब्र8	र्ष	र्ख		
NGCH	দ্ধ	ন্ধ্য	দ্ধি	%	%	দ্ধা	% 8	爱	<i>જુ</i> ં		
NGJ	ন্ধ	ন্ধা	ন্ধি	3	%	ন্ত্রা	<u>₹</u> 8	ন্ <u>ধ</u>	જુ		
NGJH	ন্দা	শ্বা	দ্মি	ন্ম	দ্ম	শা	ৰাঃ	ৰা	ত্ম		
NGNJ	ব্যু	ন্ধ্য	ন্তি	ন্দ্ৰ	19 31	জা	<u>₹</u> 8	ৰ্ক্ত	<i>જ</i> ું.		
NGT	व्य	ন্দা	ক্রি	هم	ৰ্দ্	শ্দা	<u>a</u> 8	व्य	व्य		
NGTT	ন্ত	ন্তা	ন্থি	હ	હ	ন্তা	<u>&</u> 8	ন্ত্ৰ	હ		
NGTH	<u>ক্ষ</u>	ন্ধা	ন্ধি	%	%	দ্ধা	₹ 8	ৰ্ক্ত	જ		
NGTTH	ন	ন	ন্তি	ন্ত্	ð	ଖ	ন্তঃ	6	6		

Table 7 : Cluster ⅙ NG with vowel, nasal and long sound diacritical marks

		Vo	wel Sound	d Mark			Vowel A	& Sound Mod	ifier Mark
Character							Long -	Nasal - Na	sal & Lonç
NG	A	AA	1	U	E	0	A:	Å	Å:
NGD	ন্ত	ন্ত্র	ছি	ন্ত	Q	গ্র	ন্তঃ	হ	ৰ্ছ
NGDD	ন্ত	ন্তা	দ্ভি	ন্ত	%	<u>জ</u>	<u>4</u> 8	3	ૡ૽
NGDH	্ব্ৰ NGDHA	କ୍ଷା ngdhaa	দ্ধি NGDHI	ହୁ NGDHU	ହୁଁ NGDHE	ମ୍ମି NGDHO	দ্ধ NGDH:	ର୍ଦ୍ଧ NGDHÅ	ର୍ଦ୍ଧ NGDHÅ:
NGDDH	હ્યુ	ন্তা	ন্থি	જુ	ર્જુ	ন্তা	€8	હું	હું
NGN	দ্ধ	দ্ধা	দ্ধি	দ্ধ	দ্ধ	দ্ধা	দ্ধ8	ক্ষ	ঞ্জ
NGNN	Æ.	দ্ধা	দ্ধি	જ્	Ą	ন্ধা	Æ8	%	ૡ૽
NGP	দ্ম	শ্বা	দ্যি	শ্ব	শ্য	প্যা	শ্বঃ	শ্ব	শ্বা
NGPH	<u> </u>	ৰু	ক্তি	(Ag	Ø.	দ্ধা	<u> 4</u> 8	4	Q.
NGB	দ্ৰ	দ্বা	দ্ধি	দ্ব	ন্দ্ৰ	ଜା	ন্ত্ৰ8	ৰ্ব	ৰ্ত্ত
NGBH	ক্	দ্ধা	হ্নি	জ	ৰ্জ	ঙ্গা	₹ 8	₹	ھ
NGM	ন্ধ	গ্রা	। দ্বি	দ্ম	জা	্থা ১	। ত্বা	ন্ধা	। ত্বা
NGY	ন্থ	গুা	থ্যি	অ্	ত্য	গ্মা	অঃ	ৰ্থ	ন্থা
NGR	জ	। ত্রা	জি জ	দ্ধ	জ	ঞ্জা	ত্রঃ	ৰ্ত্ত	ঙ্গ

Table 7 : Cluster ⅙ NG with vowel, nasal and long sound diacritical marks

		١	owel Soun	d Mark			Vowel A	& Sound I	Modifier Mark
Character							Long -	Nasal -	Nasal & Long
NG	Α	AA	1	U	E	0	A:	Å	Å:
NGL	দ্ধ	দ্ধা	দ্ধি	দ্ধ	জ	প্লা	জ্ব	ৰ্দ্ধ	ৰ্দ্ধ
NGW	ଜ୍ୱ	দ্ধা	দ্ধি	দ্ধ	ଜୁ	ଜା	দ্ধ8	দ্ধ	r ଜ
NGS	ত্থা	ত্মা	ঞ্চি	ब्यू	ত্ম	প্সা	ত্বাঃ	ক্ষা	ত্ম
NGSH	দ্ধ	ন্ধা	দ্ধি	দ্ধ	দ্ধ	দ্ধা	দ্ধ8	ক্ষ	ផ្គំ
NGSS	ন্ম	ন্মা	দ্মি	ন্ম	দ্ম	শ্মা	ন্মঃ	ন্ম	ন্ম
			- 1			- 1	I		

Annex-V Table 12 : Cluster 3: NJ with vowel, nasal and long sound diacritical marks

		Vo	owel Soun	d Mark			Vowel A & Sound Modifier Mark				
Character							Long -	Nasal - N	asal & Long		
NJ	Α	AA	I la	U	Е	0	A:	Å	Å:		
NJK	ी NJKA	ATI njkaa	илкі	илки	NJKE	илко	æ¶ 8 njka:	AŘ NJKA	अं NJKÅ:		
NJKH	श्र	श्चा	[3 8]	3	(33	(311	318	Ąi	ૠું		
NJG	Я	आ	্লি	₹ 3 °	(F)	প্লো	3₹8	Ą.	Å		
NJGH	ભા	श्वा	ঞ্চি	श्रु	(%)	(ঞা	2818	श्री	વર્ષ		
NJNG	æ	2 31	િક્ષ	%	(£	(281	28	Ž	ž		
NJC	Зř	শ্বা	ঞ্জি	Ą ʻ	(a ^a	(শ্ৰ	28	Á [†]	Å*		
NJCH	&	3 21	િક્ર	Æ	(3 2	(<u>28</u> 1	28.8	À	Å.		
NJJ	3 8	381	[3 8	<i>3</i> 8.	(38,	(381	₹8	₹	3 <u>i</u>		
NJJH	भ	आ	(31	38	(31	(आ	318	अं	Aj.		
NJNJ	3°s	31	138	R	(35,	(31)	35,8	Å,	Å,		
NJT	ભ	ঞা	िभ	3	(%)	(শ্বা	34.8	भं	ઋ		
NJTT	3:	3 1	િક	₹	(3;	(21	3:8	Ą	ž		
NJTH	æ	æ l	જિ	Æ	(%	(%)	88	Å	Å		
NJTTH	ď	સા	િજ	ď	(ð	(ଧୀ	38	ð	ð		

Annex-V Table 12 : Cluster 3: NJ with vowel, nasal and long sound diacritical marks

		Vo	wel Soun	d Mark			Vowel A & Sound Modifier Mark				
Character							Long - I	Nasal - Na	asal & Lonç		
NJ	Α	AA	I	U	E	0	A:	Å	Å:		
NJD	₹	21	[S 3	₹	(\$.	(21	₹8	\$	Ş.		
NJDD	3° ndda	31 NJDDAA	[³3° _Y NDDI	₹ NJDDU	(3°	(31 NJDDO	38 NJDDA:	Š NDDA	Š [*] NJDDA [*]		
NJDH	a ^r	গ্ৰা	(3°	₹°	(F)	(31	318	å [*]	á ^r		
NJDDH	રુ	3 31	િક	3 £	(%	(३१	3:8	₹	ર્		
NJN	a ⁿ	গ্ল	ि भि	ar	ଖ	্লো	₹8	á	ងំ		
NJNN	æ	श्च	ક્રિ	Æ	(£	(3)	38	Ą	å		
NJP	921	श्रा	िश	Ð	(92)	(211	218	ઋં	P å		
NJPH	Æ	ૠ	[£	₹	(3;	(2 8)	3:8	Æ	3 ¢		
NJB	a	क्ष	la ^a	a ^r	(a ^a	(a)	a %	á ^a	å		
NJBH	Æ	হ া	સિ	33	(2 8	(% 1	₹8	Ą	Ŕ		
NJM	भ	भा	िभ	भ	(34)	(31)	318	34	3 Å		
NJY	শ্ব	শ্বা	િશ	સ્	(2 1	(2 11	218	ઝ	Ð		
NJR	Эř	त्रा	त्रि [°]	3 t,	(A ^a	(31	318	\$	Å		

Annex-V Table 12 : Cluster 3: NJ with vowel, nasal and long sound diacritical marks

		'	owel Sour	nd Mark			Vowel A & Sound Modifier Mark				
Character							Long - Nasal - Nasal & Long				
	Α	AA	1	U	E	0	A:	Å	Å:		
NJL	ঐ	ল	্লি	ag.	(A°	শ্লে	₹8	á	á ^a		
NJW	ar ar	গ্ৰা	্রি	Ą	(ař	(ম্রা	ar8	á	ੂੰ ਬੰ		
NJS	ઋ	श्रा	िश	श्	(¥1	(३ १)	348	श्	ઋ i		
NJSH	a ⁿ	श्री	শ্লি	ð	(A°	প্লো	A8	á	్ట్ 		
NJSS	ૠ	श्चा	(2 8)	P	(%)	(2811	28186	Æ	ૠાં		

Table 22 : Cluster & NN with vowel, nasal and long sound diacritical marks

		Vo	wel Soun	d Mark			Vowel A & Sound Modifier Mark				
Character							Long -	Nasal - Na	asal & Long		
NN	A	AA	ı	U	E	0	A:	Å	Å:		
NNK	EH NNKA	ബ иикаа	हिं иикі	иики Ф	(참 NNKE	мико Мико	된 8 NNKA:	된 NNKA	ម៉ាំ NNKA:		
NNKH	धी	_{ह्} य्री	िध	धी	्ह् <mark>य</mark>	ह्या	र्धि 8	ध्यं	ខ្សាំ		
NNG	텱	511	झि	<u></u>	G	লা	318	ģ	ŝ		
NNGH	εД	_ह त्र।	िध	धीं	(EA	(_E त्रा	ह्मि १	εជុំ	εţį		
NNNG	&	দ্ধা	দ্ধি	(A)	Ą	ন্ধা	<u>&</u> 8	氨	ૡ૾		
NNC	શ્ચ	গ্না	श्चि	श्रृ	(SI	(됆	ब १	Ą	શ્રું		
NNCH	ક્રુ	3 1	ક્ચિ	EJ.	(S)	(3)1	3 8	eğ.	કું		
NNJ	દુ,	<i>£</i> 21	િકુ,	કુ,	(g,	(27.1	કે 8	કર્યું કર્ય	<i>ક</i> ું,		
NNJH	ध्य	ध्या	ह्म	કુ,	(EII	(हमा	£Д 8	εή	ខ្សាំ		
NNNJ	દ્યુ	3 1	ક્ષિ	દુર્યુ	(F),	(3)	ક્યું.8	Ęj,	દું,		
NNT	દામ	ध्य	[Eh	દ્યુ	(Et)	(हम्	ક્ષ 8	ខ្សុំ	દા _{પૈ}		
NNTT	દ	গ্ৰ	રિ	દ્ય	E	(E)	58	ઈ	શું		
NNTH	ဌ	শ্ব	ह्य	ဥ	ક્ષ	টো	ક્ષ 8	ક્ષું	ရွိ		
NNTTH	প্ত	ଶା	ষ্টি	શ્	(8)	ଖ	88	ð	ð		

Annex-V Table 22 : Cluster & NN with vowel, nasal and long sound diacritical marks

		Vo	wel Sound	d Mark			Vowel A &	Sound Mod	ifier Mark
Character							Long - N	Nasal - Na	sal & Long
NN	Α	AA	ı	U	E	0	A:	Å	Å:
NND	ឱ	গ্রা	धि	র্	(S	ଞା	58	Ę	ខ្ញុំ
NNDD	EJ NNDDA	NNDDAA	हिंदु NNDDI	EJ.	(E) NNDDE	(S)	EJ 8 NNDDA:	EŠ NNDDĀ	EŠ NNDDĀ:
NNDH	ឡ	ឡា	ध्यि	ध्य	(E)	(ঘ্রা	ឱ្យ 8	ឡ	ឡំ
NNDDH	ફ્	গ্ৰ	हि	દ્યુ	હ	E	ઈ 8	ર્શું	ર્ઘું
NNP	_ह ्य	_{ह्या}	िध	ध्य	(ह्य	(ह्या	_ह म १	ध्यं	εţૌ
NNPH	ર્દ્ય	ध्य	ह्यू.	દીર્જ	(£Î°	(£1)	£ 8	εί [*]	ŧį,
NNB	<u>।</u> ମ୍ବ	গ্রা	धि	ध्	(E)	(a l	ឧ ខ	ģ	ខ្មុំ
NNBH	દ્ય	ध	ફિંદ	કુ	(E)	(E)	£ 8	र्ध्	ર્ઘ્
NNM	ध	ঝা	ह्य I	धी	(ह्य	(ह्या	चा १	ឡុ	ឡ ាំ
NNY	ध्य	ध्या	ध्यि	ध्य	(ঘ	(আ	द्या १	र्धं	શું
NNR	ឮ	勻	শ্রি	5 ,	(E)	শ্রো	518	្នំ	ឡំ

Annex-V Table 22 : Cluster 8 NN with vowel, nasal and long sound diacritical marks

		1	owel Sour	nd Mark			Vowel A	& Sound Mo	odifier Mark
Character							Long -	Nasal - 1	Nasal & Long
NN	Α	AA	1	U	E	0	A:	Å	Å:
NNL	ଣ୍ଟ	श्ला	हि	શ્	Œ	(EII	श्च	É	ឌុំ
NNW	ଣ୍ପ		ह्य	धु	ଞ	ଞା	a ខ	ឌុ	ឌ្នំ
NNS	ध	ध्या	िह्म	ध्य	(ह्म	(ह्मा	धा १	ध्यं	झं
NNSH	ឡ	ឡា	গ্লি	E	(SI	ু গো	218	ន្តី	ยู่
NNSS	ध्य	_{ध्} या	ह्य	धी	(EA	(ह्या	_ह म ४	εវវ្ត	ဧဍုံ

Table 23 : Cluster य P with vowel, nasal and long sound diacritical marks

		V	owel Sour	nd Mark			Vowel A & Sound Modifier Mark				
Character							Long -	Nasal - N	lasal & Long		
Р	A	AA	ı	U	E	0	A:	Å	Å:		
РК	क्ष	क्षा	ধ্ধি	क्	শ্ব	দ্ধা	क्र8	क्षं	याँ		
	PKA	PKAA	PKI	PKU	PKE	PKO	PKA:	PKÅ	PKÅ:		
PKH	य्य	य्या	िया	यु	या	य्म	या१	य्	या		
PG	झ	झा	प्लि	म्र	भ्र	भ्रा	अ 8	क्षे	म्न		
PGH	य्य	या	िप्प	पु	या	य्वा	या १	या	या		
PNG	द्ध	द्या	प्टि	द्ध	Z	দ্রা	ग्र 8	奖	嗟		
PC	म्र	म्रा	म्रि	म्र	श्र	শ্বা	म्र8	म्रं	碧		
PCH	স্ক	क्रा	ঝ্লি	%	A	क्रा	3 .8	爱	爱		
PJ	पु	द्धा	यु	3	द्ध	द्धा	फ १	यु:	पु,		
РЈН	पा	या	। पा	या	শ্বা	भा	या १	শ্বা	्। या		
PNJ	यु,	स्र	प्रि ,	यु,	TJ,	31	3 .8	र्फ,	र्फ़,		
PT	क	का	िफ	क्	क्ष	দ্দা	य्म १	र्क	र्फ		
PTT	प्र	ग्रा	प्टि	द्य	ã	श	E8	एं	र्छ		
PTH	प्र	म्ना	দ্ধি	স্ক	म	দ্ধা	T 8	\$	प्र		
РТТН	ष्ठ	म्रा	ਿਲ	ब्र	g	প্তা	স্তঃ	र्छ	र्ष		

Table 23 : Cluster य P with vowel, nasal and long sound diacritical marks

		Vo	wel Soun	d Mark			Vowel A & Sound Modifier Mark				
Character							Long -	Nasal - N	asal & Long		
Р	A	AA	1	U	E	0	A:	Å	Å:		
PD	प्ट	य्रा	प्टि	प्र	ā	প্রা	प्र8	ष्ट	볗		
PDD	यु PDDA	II PDDAA	ियु PDDI	यु PDDU	A PDDE	II PDDO	यु १ PDDA:	युं PDDå	युं PDDA:		
PDH	멸	म्रा	ध्रि	म्र	म्र	দ্রা	म्र १	म्रे	ម្នំ		
PDDH	यु	स्रा	यु	यु	યુ	म्रा	यु १	यु	युः		
PN	म्र	म्रा	। ਸ਼ਿ	म्र	म्र	স্না	ਸ ਬ	म्न	걝		
PNN	द्ध	स्रा	यु	स्	क्र	क्षा	Æ8	裳	棋		
PP	या	या	िया	याू	শ্ব	धा	या १	यां	याँ		
PPH	य्	य्ग	यि	यू	ય્	यू	यः१	य्	य्;		
РВ	। ख	घा	। ਬਿ	म्र	म्र	প্রা	<u>य</u> श	र्ष	। म्रं		
РВН	फ्	स्रा	फि	मु	K	स्रा	फ 8	模	प् रं		
PM	या	या	या	या	শ্বা	म्रा	या १	याँ	या		
PΥ	या	या	िय	य्यू	ध	धा	या १	र्यं	यां		
PR	<u>।</u> प्र	प्रा	प्रि	प्र	প্র	প্রা	प्र8	增	별		

Table 23 : Cluster य P with vowel, nasal and long sound diacritical marks

		1	owel Sour	nd Mark			Vowel A	& Sound M	lodifier Mark
Character							Long -	Nasal -	Nasal & Long
Р	A	AA	1	U	E	0	A:	Å	Å:
PL	म्न	म्रा	य्लि	म्र	म्न	म्रा	म्र8	म्नै	볉
PW	멅	म्रा	ध्रि	म्रु	শ্ব	দ্রা	प्र8	य्वै	璫
PS	या	या	िया	य्रा	भ	स्रा	या १	य्रा	यां
PSH	म्न	म्ना	গ্লি	म्रु	ង	ង្គា	म्न १	ផ្ដ	ដ្ឋ
PSS	य्य	य्या	िया	य्यू	শ্ব্য	य्या	याः	याँ	युं
							İ		

Table 24 : Cluster ₹ PH with vowel, nasal and long sound diacritical marks

		Vo	wel Soun	d Mark			Vowel A & Sound Modifier Mark				
Character							Long -	Nasal - N	asal & Lon		
PH	A	AA	ı	U	Е	0	A:	Å	Å:		
РНК	₹ћ РНКА	都[РНКАА	猛	₹ РНКИ	新 PHKE	新 РНКО	香8 PHKA:	香 PHKÅ	者 PHK 4:		
РНКН	স্থ	স্থা	ঝ্বি	স্থ	স্থা	স্থা	ऋ18	ন্থ	鬈		
PHG	₹ 3		<u>ক্রি</u>	₹ 3	3	3 1	₹8	₹	उँ		
PHGH	স্থ	স্থা	স্থি	দ্ম	স্থা	স্থা	ऋ8	ৰ্য	खं		
PHNG	3	ह्य	हि	逶	₹	স্থা	83	菱	耄		
PHC	奢	潘	ঠ্বি	3	著	潮	著8	奢	オ		
PHCH	袤	豰	ক্লি	菱	菱	刻	₹8	薏	薏		
PHJ	₹ <u></u>	ऋा	ক্তি	35.	35	<u>ক্</u> কা	₹8	₹ <u> </u>	₹ *		
РНЈН	স্থ	স্থা	শ্বি	স্থ্	শ্ব	শ্বা	স্থাঃ	শ্ব	ক্ষ		
PHNJ	₹,	अ	क्ति	₹ <u></u>	紊	3 31	₹8	蒙	秀		
PHT	ক	ন্ধা	ব্দি	₹9	ৰ্শ্ব	স্থা	₹ 8	<u>축</u>	苓		
PHTT	ङ	ङ्घ	হ্ছি	ङ्	逶	স্থা	₹8	ङ	ङं		
РНТН	<u>3</u>	ऋा	ক্তি	蟊	蕎	স্কা	88	蒙	क		
РНТТН	कें	स	ঠি	र्वे	8	त्र	38	कें	ठं		

Table 24 : Cluster ₹ PH with vowel, nasal and long sound diacritical marks

		Vo	wel Sound	d Mark			Vowel A &	Sound Mod	ifier Mark
Character							Long - I	Nasal - Na	sal & Long
PH	Α	AA	I	U	E	0	A:	Å	Å:
PHD	₹ 2	স্থ	হ্রি	₹	ž	শ্ব	₹8	₹	ट
PHDD	弯 PHDDA	引 PHDDAA	ि PHDDI	35 PHDDU	*** PHDDE	到 PHDDO	予8 PHDDA:	考 PHDDA	考 PHDDA:
PHDH	ক্র	ञ्ज	ফ্রি	3	3	31	₹8	盏	苕
PHDDH	ङ	স্তা	স্থি	逶	₹	স্থা	₹8	₹	₹
PHN	द	괢	ক্রি	3	ş.	স্ত্র	₹8	i	츙
PHNN	ऋ	ऋा	ऋ	æ	₹	স্থা	₹8	₹	ॐ
PHP	ख	खा	স্থি	<u>ষ্</u>	স্থ	স্থা	च्छ8	खं	खे
РНРН	₹	霾	হ্ছি	₹	₹ <u>.</u>	স্থা	₹8	裳	奖.
РНВ	र्दे	স্ত্র	ক্রি	₹	ž	শ্ৰ	골 8	कें	耆
РНВН	衰	剩	<u>হি</u>	秀	菱	স্থা	₹8	荐	養
РНМ	শ্ব	স্থা	শ্বি	ক্স	শ্ব	শ্বা	ন্ধ	광	ক্ষ
РНҮ	স্থ	खा	স্থি	퐿	শ্ব	স্থা	च 8	र्ख	ऋं
PHR	泽	<u>'</u>	ক্রি	泵	3	শ্ৰ	₹8	李	李

Table 24 : Cluster ₹ PH with vowel, nasal and long sound diacritical marks

	1	owel Sour	nd Mark			Vowel A & Sound Modifier Mark				
						Long -	Nasal -	Nasal & Long		
A	AA	1	U	Е	0	A:	Å	Å:		
द्ध	स्न	क्षि	₹.	क	শ্ল	₹8	ई	- 1		
द्ध	স্ত্র	ক্রি	द्ध	ă	潮	골 8	毒	वै		
剩	ऋा	ৠ	ऋ	শ্ব	ऋा	ऋ 8	剩	ক্টা		
*	শ্ল	ক্লি	र्स	ž	淵	₹8	*	*		
ख	खा	স্থি	स्रू	স্থ	স্থা	7ह्य १	र्ख	ऋं		
	रू ख इस	A AA 系	A AA I 素 新 語 番 甜 語 和 知 知 記 素 新 話	語 語 語 語 語 語 至 题 题 型 题 题	A AA I U E 素 類	A AA I U E O 零 新 語 語 語 語 語 語 語 語 語 語 至 至 至 至 至 至 五 五 五 五 五 五 五 五 五 五 五 五 五 五 五 五 五 五 五 五 五 五 五 五 五 五 五 五 五 五 五 五 五 五 五 五 五 五 五 五 五 五 五 五<	A AAA I U E O A: 語 記述 記述<	A AAA I U E O A: A 語 語 語 語 語 語 語 語 語 語 語 語 語 語 語 語 표 期 報 報 報 報 報 報 報 五 期 報 報 報 報 報 報 報		

Table 28 : Cluster ₹ R with vowel, nasal and long sound diacritical marks

		V	owel Sour	d Mark			Vowel A & Sound Modifier Mark				
Character							Long -	Nasal - N	lasal & Long		
R	A	AA	I	U	E	0	A:	Å	Å:		
RK	र्क rka	र्ना सкаа	र्कि हरा	र्ज़ _{RKU}	﴿ RKE	র্না ¤KO	र्नि 8 rka:	र्की BKÅ	र्क RKÅ:		
RKH	र्ख	र्सा	र्सि	र्स्	र्स	र्सा	र्खि 8	र्स	र्स		
RG	র্গ	ৰ্মা	র্গি	র্গ	র্গ	গো	ર્ગ 8	ৰ্গ	้ำ		
RGH	र्घ	र्घा	र्घि	र्घ्	र्घ	র্ঘা	र्घ8	र्घ	र्घ		
RNG	ર્જ	ৰ্ম	ঠী	र्द	\$	ঠো	፩ ଃ	\$	ሯ		
RC	र्व	र्वा	र्वि	र्वृ	र्व	ৰ্বা	र्व8	र्व	र्व		
RCH	क्र	र्क्षा	ঠি	葱	æ	क्षा	ऋ ४	葱	aక్		
RJ	ৰ্গ	ৰ্গা	র্গি	র্গ	ৰ্গ	ৰ্গা	ৰ্ক্8	ৰ্ক	ৰ্ক		
RJH	र्म	र्मा	र्मि	र्म्	ৰ্ম	र्भा	र्म8	र्म	र्म		
RNJ	ૠૼ	ૠ	ર્જિ	Ú	(Ž	ાં	58	5 5	J 5		
RT	ৰ্দ	র্ণা	ৰ্ণি	Ţ	ή	র্ণা	ৰ্ণঃ	۴	۴		
RTT	£	र्टा	र्टि	र्द	£	र्या	र्टं१	ŧ	ŧ		
RTH	ર્થ	ર્થા	র্থি	ર્થ્	ર્થ	(র্থা	ર્થ8	র্থ	র্থ		
RTTH	δ	σí	ĺб	ą	б	ത്	08	ą	ą		

Table 28 : Cluster ₹ R with vowel, nasal and long sound diacritical marks

		Vo	wel Soun	d Mark			Vowel A	& Sound Mod	difier Mark
Character							Long -	Nasal - N	asal & Lonç
R	A	AA	1	U	Е	0	A:	Å	Å:
RD	र्द	र्दा	र्दि	र्द्	र्द	र्दा	र्द8	र्द	र्द
RDD	5 rdda	T	15 RDDI	र्ज RDDU	5 RDDE	5 Î	5 8 rdda:	ち rdda	5 RDDA:
RDH	ษ์	র্মা	র্ষি	র্ঘ	ર્ષ	ર્લા	র্ম 8	ង ៍	র্ষ
RDDH	र्द	र्धा	र्हि	र्द	र्द	र्धा	र्दंश	र्ट	र्ड
RN	र्न	र्ना	र्नि	र्न्	र्न	र्नी	र्न8	र्न	र्न
RNN	ર્દા	દર્શ	ર્દિ	र्ध	ર્દ્ધા	ŒŲ	र्धा	ર્દા	ર્દા
RP	र्ष	र्या	र्यि	र्ष	र्ष	र्या	र्पंश	र्ष	र्ष
RPH	ź	र्स्र	र्दि	苓	z.	र्स्र	₹8	Æ	Ę
RB	र्व र्व	र्वा	विं विं	र्व्	र्व	र्वा	र्व8	र्व	र्व र्व
RBH	Ę	र्ए	र्ि	打	Ę	র্ণা	4 8	Ę	t
RM	र्म	र्मा	र्मि	र्म्	र्म	र्मा	र्म8	र्म	र्म
RY	र्य	र्या	र्यि	र्यू	र्य	र्था	र्य8	र्य	र्य
RR	। र्न	र्ना	র্নি	 ৰ্ক	ৰ্	র্সা	_ 1 8	_ ৰ	র্ব

Table 28 : Cluster ₹ R with vowel, nasal and long sound diacritical marks

			owel Sour	nd Mark			Vowel A & Sound Modifier Mark				
Character							Long -	Nasal & Long			
R	Α	AA	I	U	E	0	A:	Å	Å:		
RL	र्ल	र्ला	र्लि	र्ल्	র্ল	र्ला	र्लं 8	र्लं	र्ल		
RW	र्व	র্বা	र्वि	र्वृ	र्व	ৰ্না	र्व8	ৰ্ব	र्व		
RS	र्स	र्सा	र्सि	र्स्	र्स	र्सा	र्स् १	र्स	र्स		
RSH	ર્શ	শ্	শি	શ્	ঞ্	পো	শ্8	শ্	ર્શ		
RSS	र्ष	र्षा	र्षि	र्ष्	र्ष	র্দ্ধা	र्ष8	र्ष	র্ষ		
	<u> </u>		i				İ		J		

Annex-V T

Table 30 : Cluster $\overline{\tau}$ S with vowel, nasal and long sound diacritical marks

		V	owel Soun	d Mark			Vowel A & Sound Modifier Mark				
Character							Long -	Nasal - N	lasal & Long		
S	A	AA	1	U	E	0	A:	Å	Å:		
SK	霜	क्षा	ঝি	क्	শ্ব	শ্ধা	番8	蕃	猫		
	SKA	SKAA	SKI	SKU	SKE	SKO	SKA:	SKÅ	SKÅ:		
SKH	म्म	म्मा	िग्र	म्मु	म्म	म्मा	म्म8	म्मू	711		
SG	न्न	ञ्जा	ग्नि	म्र	3	ञ्चा	ऋ 8	क्षं	त्रं		
SGH	म्घ	न्धा	िम्घ	भ्यु	न्ध	न्धा	म्प	न्धं	म्पं		
SNG	宏	स्रा	ग्चि	湿	Z	स्रा	₹8	龙	龙		
SC	꿣	म्रा	म्रि	म्र	a	শ্বা	च 8	苕	碧		
SCH	স্ক	ग्ना	ग्नि	湿	A	স্থা	38	芨	菠		
SJ	सु	ग्रा	ন্ধি	\$	\$	শ্ব্যা	ग्र .8	गु\$	ऋै		
SJH	न्म	न्मा	- िमा	म्म	न्म	न्मा	न्म8	न्मं	मां		
SNJ	सु,	ऋ	ग्जि	गु	73,	73,1	₹,8	75,	₹,		
ST	क्ष	न्मा	िम्म	শ্দু	2 K	स्मा	स्म १	र्यं	र्यं		
STT	ग्र	ग्रा	য়ি	ع	Ŧ	স্থা	गृ 8	ग्रं	ग्रं		
STH	ग्न	ग्ना	া	五	*\$	শ্বা	ग्र 8	な	な		
STTH	म्र	स्रा	िश	म्र	8	म	स्र १	र्छ	र्छ		

Table 30 : Cluster $\overline{\pi}\,$ S with vowel, nasal and long sound diacritical marks

		Vo	wel Soun	d Mark			Vowel A	& Sound Mod	difier Mark
Character							Long -	Nasal - N	asal & Long
S	A	AA	l	U	E	0	A:	Å	Å:
SD	य	य्य	यि	य	য়	শ্বা	권 8	苕	耄
SDD	सु sdda	स्रा sddaa	िसु sddi	सु sddu	*3 SDDE	स्त्रा sddo	書 8 SDDA:	सुं SDDA	राँ SDDÅ:
SDH	म्र	म्रा	ग्चि	म्रु	म्र	শ্বা	म्ब8	켭	报j
SDDH	सु	स्रा	सु	सु	मु	सु	सु १	गुं	मु
SN	न्न	स्रा	िम	म्	শ্ব	শ্ল	#8	컮	ग्नं
SNN	ऋ	स्रा	ऋ	ॠ	#	श्रा	ऋ8	ऋं	ग हं
SP	न्य	न्या	िम्य	म्यू	म्य	न्या	म्प्य १	न्यं	ग्यं
SPH	मू	म्मा	िम्,	मू	भू	મૃ 1	म्,१	म्	म्
SB	च	या	धि	म्	শ্ব	वा	च8	君	趙
SBH	क्	स्रा	रिरु	सु	₹ <u></u>	क्ष	रह 8	枝	枝
SM	म्म	न्मा	िम	म्म	শ্ম	म्मा	मा १	ग्रं	माँ
SY	न्य	स्या	िय	स्य	ग् य	म्या	स्प8	स्यं	स्यं
SR	귘	켸	ग्रि	<u>নু</u>	77	শ্রা	코 8	苕	크 크

Annex-V Table 30 : Cluster ₹ S with vowel, nasal and long sound diacritical marks

		١	owel Soun	d Mark			Vowel A	& Sound Mo	odifier Mark
Character							Long -	Nasal - I	Nasal & Long
s	A	AA	1	U	E	0	A:	Å	Å:
SL	म्न	म्ना	म्नि	मु	म	स्रा	स्र8	‡	켮
SW	뀸	म्रा	म्नि	म्ब	শ্ব	শ্বা	#8	콥	潜
SS	ऋ	ऋा	िया	स्र्	न्म	स्मा	मा१	यां	यां
SSH	귊	和	ग्नि	म्न	শ্ল	শ্লা	ग्न8	컮	겼
SSS	न्म	न्या	िम्य	म्मू	न्ध	न्धा	म्प्र	न्धं	711
		10				- 1	1	!	j

Annex-V Table 31 : Cluster শ SH with vowel, nasal and long sound diacritical marks

		Vo	wel Soun	d Mark			Vowel A & Sound Modifier Mark				
Character							Long -	Nasal - Na	asal & Lonç		
SH	A	AA	ı	U	E	0	A:	Å	Å:		
SHK	對 SHKA	भी shkaa	янкі В	ў ф ѕнки	(ধী SHKE	্রেনা sнко	की 8 shka:	क्ष्रे SHKA	都 SHKA:		
SHKH	श्री	भ्या	िग्ध	sil	(श्री	(ब्रह्मा	श्री १	শ্	भ्यं		
SHG	শ্ব	आ	প্লি	শ্ব	(শ্ল	(গ্লা	318	श्री	şj		
SHGH	s.El	श्वा	श्रिष्ठ	».tl	(क्रम	(ब्रह्मा	श्री	श्रृ	क्ष		
SHNG	જ	% 1	શ્ચિ	શ્રુ	(%	(ম্ব্য	\$ 8	శ్ర	શું		
SHC	ध	শ্বা	শ্বি	শ্ব	শ্বে	(শ্বা	248	श्च	क्षं		
SHCH	જુ	শ্লী	શ્ચિ	ž	(B)	ক্ষো	3 8	क्षु	ૹૢૢૼ		
SHJ	શ્રું,	<i>s</i> 21	હ્યું'	s?	(A)	(27.1	<i>a</i> 7' 8	sã,	જું		
SHJH	ъĦ	श्मा	श्रिम	s?	(eM	(क्रमा	8 tts	श्रो	ងាំ		
SHNJ	શ્યુ	33H	િ ક્યું	s.P	(e3'	(3)	s3'8	8ď,	જીં,		
SHT	ልዞ	क्षम	Part	×ŋ	(at	(ধ্বদা	sH 8	≱h ¹	Χή		
SHTT	શુ	হ্যা	શિ	શ્	હ	(হ্লা	£8	શું	શું		
SHTH	rg.	<u>1</u> 221	શ્ચિ	ag .	(શ્રુ	(A)	<i>s</i> 78	ð	શું		
SHTTH	Ŋ	স্থা	প্তি	প্র	ଖ	প্তো	88	Ą	ð		

Annex-V Table 31 : Cluster শ SH with vowel, nasal and long sound diacritical marks

		Vo	wel Sound	d Mark			Vowel A &	Sound Mod	ifier Mark
Character							Long - N	Nasal - Na	sal & Long
SH	Α	AA	ı	U	E	0	A:	Å	Å:
SHD	শ্ব	শ্বা	હિ	ষ্	(ଯ	(গ্রা	5 8	র্	బ్
SHDD	83 SHDDA	SHDDAA,	िखु SHDDI	shddn	(%) SHDDE	(З)	₹3.8 SHDDA:	ર્યું SHDDÅ	ŠÝ SHDDÁ:
SHDH	ชู	শ্বা	শ্বি	ধু	শ্বে	(গ্ৰা	শ্ব8	វ្នំ	ชุ่
SHDDH	શુ	শ্বা	શ્ચિ	શુ	હ્યુ	(গ্রা	£8	શું	શું
SHN	ধ্ব	প্লা	ুল ।	শ্ব	(গ্ৰ	(গ্ৰা	য় ৪	প্ন	ଣ୍ଡ
SHNN	ક્ષ	क्षा	ક્ષિ	ક્ષ	(if	લ્યા	#8	क्षू	ક ્ષું,
SHP	<u>থ্য</u>	<u>ग्र्या</u>	श्रिय	stĬ	(क्री	(হুয়া	2A8	ชนุ่	ชนุ
SHPH	র্ম	ग्री	[র্ক	শূ	(હર્ય	(st)	sf*8	ર્જા	ર્યું
SHB	শ্ব	धा	শ্বি	ध्	(শ্ৰ	(গ্ৰা	ध	श्र	ଅଧ
SHBH	શ્	रुप्त	હિર્ય	শ্য	(હર્ય	(ৰুধা	શ્રું 8	જ્	જ્
SHM	শ্ম	শ্মা	श्य	श्री	(क्री	(क्या	2118	श्री	ชนำ
SHY	শ্ম	*था	िश्य	भ्य	(শ্য	(শ্যা	म्या १	र्था	થાં
SHR	শ্ব	껰	গ্রি	শু	শ্রে	শ্রো	শ্ব8	শ্ৰ	গু

Annex-V Table 31 : Cluster শ SH with vowel, nasal and long sound diacritical marks

		٧	owel Soun	d Mark			Vowel A	& Sound Mo	difier Mark
Character							Long -	Nasal - N	lasal & Long
SH	A	AA	I	U	E	0	A:	Å	Å:
SHL	क्ष	শ্লা	শ্লি	श्रु	শ্লে	(শ্লা	#8	क्ष	ક્ષું
SHW	শ্ব	শ্বা	শ্বি	धू	ଖ	(শ্ৰা	ਬ 8	ង្នំ	ង្នំ
SHS	श्म	भ्या	िश्र	भ्री	(হ্যা	(द्या	न्ध्रा १	भ्रां	শ্
SHSH	শ্ব	গ্না	গ্লি	શુ	ঞ্জ	(গ্লা	শ্ল ৪	শ্ব	শ্ব
SHSS	ъЙ	न्या	िष्ठ	श्री	(হুম	(ম্মা	2E18	ъЦ	ъЦ

Table 32 : Cluster य S with vowel, nasal and long sound diacritical marks

		Vo	wel Soun	d Mark			Vowel A & Sound Modifier Mark				
Character							Long -	Nasal - N	asal & Long		
SS	A	AA	T And	U	Е	0	A:	Å	Å:		
SSK	ন্ধ sska	ন্ধা sskaa	िक sski	म्रू ssku	र्क sske	ন্ধা ssko	यि 8 sska:	र्क sskat	本 sskå:		
SSKH	म्म	म्मा	िम्म	म्मू	भा	ध्या	षा१	ষ্ম	म्		
SSG	ন্ত্র	ञ्जा	ব্লি	झु	ä	आ	न्न १	क्ष	碧		
SSGH	ष्य	न्मा	िध	न्यु	ध्य	ध्या	म्ब	ष्यं	ष्यं		
SSNG	ع	द्धा	ष्टि	द्ध	g	স্থ্য	E 8	ष्ट	爱		
SSC	ম্ব	স্বা	শ্বি	म्र	A	শ্বা	श्र	श्रं	श्रे		
SSCH	F	न्त्रा	ষ্ক্রি	A	A	স্থ্যা	3 .8		蒙		
SSJ	षु	म्रा	স্থ্রি	\$	ধ্য	স্ক্রা	क्र 8	স্ক	षु		
SSJH	षा	मा	िषा	या्	শ্বা	मा	या १	या	म्		
SSNJ	मु,	স্থ্য	ধ্যু,	मु	Å.	B	च्र.8	यु ,	फ्र ं		
SST	क्	का	िक	ন্দ্	ধ্য	का	क्ष	र्क	र्कं		
SSTT	ष्ट	द्या	ष्टि	द्य	â	ष्ठा	ब्र १	ष्ट	र्छ		
SSTH	দ্ধ	म्ना	ষ্কি	দ্ধ	A	ন্ধা	3 8	蒙	當		
SSTTH	স্ত	ष्ठा	ਬਿ	ब्र	a	প্তা	न्न १	र्ष	र्ष		

Table 32 : Cluster य S with vowel, nasal and long sound diacritical marks

		Vo	wel Sound	d Mark			Vowel A & Sound Modifier Mark				
Character							Long - I	Nasal - Na	sal & Long		
SS	A	AA	1	U	E	0	A:	Å	Å:		
SSD	ष्ट	ष्ट्रा	ष्टि	ब्र	ই	প্রা	펄8	ष्टं	望		
SSDD	मु ssdda	सु ssddaa	िषु ssddi	मु ssddu	SSDDE	SSDDO	सु४ ssdda:	सुं ssdda	खुँ SSDDÅ:		
SSDH	দ্ব	দ্বা	ম্বি	घ्व	ন্ত্র	প্রা	म्न १	ផ្ទំ	ផ្ទំ		
SSDDH	बु	स्रा	धि	यु	ã	म्रा	द्य १	षु	षु		
SSN	<u>ਬ</u>	ষ্ণা	। म्लि	म्	প্ল	প্লা	न्न १	व्य	렭		
SSNN	क्र	क्षा	क्षि	Æ	झ	क्षा	£8	ह्रं	禹		
SSP	म्य	न्धा	िष्य	म्यू	ध	ध्या	म्य १	ष्यं	ष्यं		
SSPH	ष्	ष्म	य्	ष्	र्वः	म्रा	ब्र. १	यं,	म्;		
SSB	। घ	घ	। ਬਿ	घ्	a	প্রা	<u>।</u> घ्र	ष्ठं	। श्वं		
SSBH	ष्र	स्रा	ष्ठि	यु	Æ	स्रा	ऋ8	裝	ष्ह		
SSM	म्बा	न्धा	ी या	म्रा	শ্বা	भ्रा	म्बा १	म्बा	म्रा		
SSY	म्य	म्या	िख	स्यू	শ্ব	ध्या	खा १	खं	खाँ		
SSR	। ম্ব	দ্রা	<u>।</u> প্রি	<u>ष्र</u>	শ্ব	প্রা	<u>ष</u> ्ध	혈	헄		

Table 32 : Cluster य S with vowel, nasal and long sound diacritical marks

		1	owel Sour	nd Mark			Vowel A & Sound Modifier Mark				
Character SS							Long -	Nasal - 1	Nasal & Long		
	Α	AA	i i	U	E	0	A:	Å	Å:		
SSL	म्न	म्ना	क्षि	म्र	क्ष	भ्रा	म्न8	स्रं	볉		
SSW	펉	ब्रा	ষ্লি	घ्व	শ্ব	প্রা	म्न १	स्त्रं	碧		
SSS	म्रा	क्सा	िश्र	म्र	भ	म्रा	म्रा १	क्षं	म्रा		
SSSH	펉	স্না	প্লি	झ	শ্ব	প্লা	न्न8	ផ្ត	葫		
SSSS	म्य	न्या	िम्य	म्यू	শ্ব্য	क्या	म्बा १	र्य्य	म्यं		
SSH	ष्ट्	यहा	य्हि	मृ	植	দ্বা	मृ १	ष्ट्	मृ ः		

Table 13 : Cluster τ T with vowel, nasal and long sound diacritical marks

		V	owel Soun	d Mark			Vowel A & Sound Modifier Mark				
Character							Long -	Nasal - N	lasal & Long		
Т	Α	AA	I	U	E	0	A:	Å	Å:		
тк	त्क тка	त्का ткаа	त्कि ^{ткі}	а , тки	₹ TKE	त्वा тко	禹 8 тка:	र्क тк#	र्क тк å :		
ткн	ग्र	त्र्या	ग्भि	भ्र	গ্ৰ	গ্লো	ग्रा	্য়	য়ো		
TG	ञ	भ	मि	3	Я	A	38	#	ផ្ទាំ		
TGH	रघ	त्प्रा	धि	মূ	त्म	एघा	:प्र8	য়ে	एपं		
TNG	\mathbf{z}	ट्या	হি	হ	Z	য়া	28	客	定		
TC	घ	वा	घि	म्	ষ	দ্বা	ब १	ষ	ងំ		
тсн	A	क्रा	ন্মি	A	a	স্থা	28	墓	墓		
TJ	ढ	त्रा	ਿਲ	2	ढ	त्रा	त्र १	ढ़	ಡ		
ТЈН	ञ	ञा	ग्मि	अ	ম	भा	ग्र	য়ে	্ম		
TNJ	<i>3</i> ,	अ	13,	<u>I</u>	<i>A'</i>	31	3.8	3,	3,		
π	फ	फा	रिफ	फ्	15	एन	क्र8	एं	रु		
TTT	S	श	દિ	इ	£	হা	58	Ş	Ş		
ттн	æ	क्रा	ক্রি	<u>r</u>	æ	স্ম	28	\$	B		
тттн	8	भ	l a	a	a	91	98	ā	i B		

Table 13 : Cluster प T with vowel, nasal and long sound diacritical marks

		Vo	wel Soun	d Mark			Vowel A & Sound Modifier Mark				
Character							Long -	Nasal - N	asal & Long		
Т	A	AA	ı	U	E	0	A:	Å	Å:		
TD	5	श	िष्ट	ā	ā	য়	58	\$	Ş		
TDD	उ	उ	ট্র	उ	ß	শ্র	38	उ	3		
TDH	T AHDT	TE AAHDT	ਹਿ _{TDHI}	Д	Д ТDHE	ДД трно	ਬ tdha:	ชี้ тон 	นี้ тон ஃ :		
TDDH	£	स	য়ি	£	â	য়া	£8	ŝ	द्ध		
TN	त्न	त्ना	ਫ਼ਿ	त्व	त्न	ন্না	त्नश	त्नं	ढो		
TNN	x	स्र	क्रि	x	x	भ्रा	x_8	¥	¥,		
TP	ग्र	्या	ध्यि	ग्र	य	भा	च्य	र्य	য়ো		
ТРН	Ŀ	ग्रा	क्रि	Ĵ.	Ţ,	্যা	£8	Ĵ.	Ĵ.		
ТВ	घ	घा	वि	ब्	ធ	वा	घ ।	甘	រ ំ		
ТВН	ফ	'ম	ফি	স্ত	ফ	'ম	<u>হ</u> 8	1 ¢	रुं		
тм	भ	भा	ग्भि	भ	গ্ৰ	भा	ग्रा४	্ম	ग्रं		
TY	श्य	श्रा	श्यि	श्र	য়ে	श्रा	श्य १	र्थ	र्थ		
TR	্ব	্মা	গ্রি	¥	্ন	্মা	<u>ম</u> 8	1	立		

Table 13 : Cluster \P T with vowel, nasal and long sound diacritical marks

		1	owel Sour	nd Mark			Vowel A	& Sound	Modifier Mark
Character							Long -	Nasal -	Nasal & Long
Т	Α	AA	1	U	Е	0	A:	Å	Å:
TL	त्न	त्ना	ਫ਼ਿ	त्व	त्न	त्ना	त्नश	त्तं	त्वं
TW	ล	त्वा	बि	त्व	त्व	त्वा	्त त्वश	त्वं	, aਂ
TS	भ्र	भा	ग्भि	भ	भ	भ्रा	अ ।	भ्रा	য়
TSH	ฎ	រា	រិ	গ্ৰ	ធ	গ্লা	<u> </u>	ជ	ដ្
TSS	भ	त्र्या	য়ি	भ	ग्र	त्रम	ग्र	खं	য়ো
			- 1				J		J

Table 15 : Cluster थ TH with vowel, nasal and long sound diacritical marks

		Vo	wel Soun	d Mark			Vowel A & Sound Modifier Mark				
Character							Long -	Nasal - N	asal & Lon		
тн	A	AA	I	U	E	0	A:	Å	Å:		
тнк	쐽, тнка	ধ্বা тнкаа	िक्ष тнкі	थू, тнки	(ধ THKE	(ধ্বনা тнко	축 8 THKA:	र्क THKÅ	档 THKA:		
тнкн	થા	थ्या	થ્યા	યા	(শ্ব্য	(श्वा	थ्य १	थ्यं	યાં		
THG	욁	쇎	욁	욁	G	্লো	48	쇎	켥		
THGH	થા	थ्या	થિ	થાુ	শ্বে	(श्वा	થા શ	ર્યાં	થાં		
THNG	શુ	쒾	ષ્ટ્રિ	યુ	ૡ	(%)	સુ. 8	શું	શું		
THC	થ્ર	খ্ৰা	খ্রি	শ্ব	শ্বে	(খ্ৰা	अ 8	설	શ્રું		
тнсн	(ચુ	ঞ্জো	સ્થ્રિ	(ચૂ	(યુ	(3)	(સુ 8	ા્યું	(સું		
ТНЈ	થુ,	3₹1	િયુ,	યુ	(યુ,	(স্ক্রো	યુ, 8	યુ ં	યું,		
ТНЈН	শ্বা	থ্যা	খ্যি	યુ	(শ্বা	(খ্যা	শা 8	খাঁ	યાં		
THNJ	યુ,	331	િયુ,	યુ	ભુ	(শ্ব	યુ,8	ર્યું,	યું,		
тнт	યા	শ্দা	િયા	યુ	(થ	(ধ্দা	ય, 8	ર્યું	યાં		
тнтт	શુ	গু ।	િષ્ટ	થ્	હ	(শু)	ય 8	શું	શું		
тнтн	યુ	% 1	િશ્વ	યુ	(યુ	(শ্বা	યુ. 8	યું	યું		
тнттн	쓍	প্তা	િશ	ક્ષ	ଖ	প্তো	88	ર્શ	ઇ		

Table 15 : Cluster थ TH with vowel, nasal and long sound diacritical marks

		Vo	wel Sound	d Mark			Vowel A & Sound Modifier Mark				
Character							Long - I	Nasal - Na	sal & Long		
тн	Α	AA	l la	U	E	0	A:	Å	Å:		
THD	묕	켐	খિ	큍	હ્ય	খ্রো	28	휟	휟		
THDD	થુ THDDA	31 THDDAA	િયુ тнооі	ஆ тноои	(U) THDDE	(З) тнооо	યું 8 THDDA:	र्यु THDDĀ	થું THDDÅ		
THDH	묇	ো	웹	ધ્રુ	(ધ્ર	(খ্ৰা	월8	ช ื่	쐷		
THDDH	થુ	খ্যা	િશુ	યુ	િલ	(শ্ব)	યુ 8	શું	થું		
THN	욂	ឌា	क्षि	욁	্ল	্লো	#8	ង៉	ង៉		
THNN	થૂ	<u>થ્</u> યા	િક્ષ	યુ	(થુ,	ક્ષા	થ, 8	થું	થું		
THP	થ <u>ા</u>	श्या	िश्य	था	(শ্বা	(श्वा	था १	र्था	યાં		
ТНРН	ચ્	থ্ম	ચિ્	ય્	(ચુ.	(খু;া	ચ્.8	થું.	થું.		
ТНВ	욉	ধ্রা	। খ্রি	월	(খ্ৰ	(প্রা	월8	થું	થું		
ТНВН	થ્	ধ্ ধ	િષ્	સુ	(ચ્	(শ্ব্বা	થ, 8	થ્	થું		
ТНМ	খ্বা	খ্যা	िथा	क्षा	(শ্বা	(आ	था १	থ া	થાં		
ТНҮ	થા	था	<u>ચિ</u> ય	યા	(খ্য	(था)	ચા શ	খাঁ	થાં		
THR	욐	ᆀ	খ্রি	ચુ,	শ্রে	শ্রো	<u></u> 일8	솈	쑄		

Table 15 : Cluster थ TH with vowel, nasal and long sound diacritical marks

	١	owel Soun	d Mark			Vowel A & Sound Modifier Mark				
						Long -	Nasal -	Nasal & Long		
Α	AA	l	U	Е	0	A:	Å	Å:		
뫾	쎎	ક્ષિ	શુ	୯ଖ	ଖ୍ଲା	48	久	શ્		
ឧ	ধ্বা	খ্ৰি	યુ	ଞ୍ଜ	ধ্রো	월 8	å	ឌំ		
थ्रा	थ्मा	िश्रा	श्र	(খ্বা	(क्सा	था १	श्रां	થાં		
윘	쓂	খ্লি	શ્	ଖ	্ল্লা	48	설	શ્રં		
યા	श्वा	िश्व	થા	(થ્ય	(क्या	થા શ	र्थं	યાં		
	श्च श्च श्च श्च	A AA 의 웨 임 웹 থ 웨 및 웨	A AA I 왕 왕 왕 왕 왕 왕 왕 왕 왕 왕 왕 왕 왕 왕 왕 왕 왕	위 위 원 원 임 웨 원 월 와 웨 왕 왕 있 웨 왕 왕	A AA I U E 왕 왕 왕 왕 왕 왕	A AA I U E O	Long - A AA I U E O A: 왕 왕 왕 왕 왕 왕 왕 작 왕 왕 왕 왕 왕 왕 왕	A AA I U E O A: A 명 명 명 명 명 명 명 명 명 명 명 명 명 명 명 명 명 명 명 의 의 의 의 의 의 의 의 의 의 의 의 의 의 의		

Table 14 : Cluster \overline{c} TT with vowel, nasal and long sound diacritical marks

		Vo	owel Sour	nd Mark			Vowel A & Sound Modifier Mark				
Character							Long -	Nasal - N	asal & Lon		
TT	A	AA	I	U	Е	0	A:	Å	Å:		
ттк	哥 TTKA	軺 ttkaa	锋 ткі	द्ध ттки	新 TTKE	झ्ना ттко	军8 TTKA:	崭 ttkå	ਬੱ ਜ਼ਿਲ੍ਹ:		
тткн	स्र	द्या	द्मि	स्र्	স্থ	স্থা	ग्र ा		 로		
ΤΤG	<u>;</u>	झ	ফ্লি	ङ	걁	ञ्ज	₹8	茅	ङ्ग		
TTGH	च्य	च्या	िख	खु	স্থ	স্থা	च्छ8	र्य	र्य		
TTNG	इ	द्धा	হ্লি	द्ध	\$	স্থা	<u>इ</u> 8	芨	इं		
TTC	झ	झ	দ্ধি	ङ्	끃	झ	इ 8	喜	इं		
ттсн	蒃	ङ्का	द्धि	趸	¥	ন্ত্ৰ	₹8	蒙	蒙		
πј	द्ध	द्धा	ন্ধি	<u>इ.</u>	\$	স্কা	<u>द्</u> र	ङ्क	嗉		
ТТЈН	স্ব	न्ना	শ্বি	स्र	শ্ব	স্না	न्न8	र्स	'		
TTNJ	द्ध	झ	ব্ধি	द्ध	F	ন্ধ	इ .8	螦	嗉		
ш	द	न्ता	ধ্দি	ন্ধ্	ধ	ন্দা	द्म 8	र्ष	र्फ		
TTTT	ङ	ङा	ষ্টি	इ	જ	স্থা	₹8	ई	इं		
тттн	স্ক	स्न	ন্ধি	স্ক	8	স্কা	₹8	र्छ	इं		
тттн	ङ	झ	िं	ङ	र्ड	স্ত্র	ङ १	र्छ	छै		
	1		-			- 1					

Table 14 : Cluster \overline{c} TT with vowel, nasal and long sound diacritical marks

		Vo	wel Soun	d Mark			Vowel A & Sound Modifier Mark				
Character							Long - I	Nasal - Na	sal & Long		
TT	A	AA	Ī	U	E	o	A:	Å	Å:		
TTD	ङ	झ	হ্	ङ्	茎	স্থ	돧8	\$	茎		
TTDD	ङ	ञ	ন্তি	ङ्	*§	স্তা	ड १	उं	ङ		
ттон	잘 TTDHA	퍼 TTDHAA	ਡਿ ^{TTDHI}	뀵 ттони	登 TTDHE	湖 ттрно	달8 TTDHA:	출 TTDH Å	学 TTDH Å:		
TTDDH	इ	द्धा	ন্থি	द्ध	જ	স্থা	इ 8	इं	इं		
TTN	팖	झ	ক্লি	ङ्	ङ्ग	শ্ল	골8	\$	ङ्ग		
TTNN	इ	झ	द्धि	द्ध	₹	झ	इ.१	इं	इं		
TTP	뀔	च्या	चि	स्र्	স্থ	স্থা	च्य8	र्ख	र्ख		
ТТРН	द्ध	द्धा	হ্ছি	द्	Ę	স্থা	इ.8	裳	 \$		
ттв	뀰	झ	। ਬਿ	ङ्	뀰	স্ত্র	- 골8	뀰	। इं		
ттвн	इ	ह्म	हि	मु	Ħ	স্থা	इ .8	इं	इं		
ттм	ञ्च	झा	ग्नि	झ्	স্প	স্থা	ञ 8	झै	झं		
ТТΥ	꿯	স্থা	च्चि	স্থ	স্থ	স্থা	च्र8	毬	큠		
TTR	孚	ञ्ज	ফ্রি	案	孚	ञ्ज	퍜 8	享	享		

Table 14 : Cluster \overline{c} TT with vowel, nasal and long sound diacritical marks

			owel Sour	nd Mark			Vowel A & Sound Modifier Mark				
Character							Long -	Nasal -	Nasal & Long		
TT	A	AA	I	U	E	0	A:	Å	Å:		
TTL	ङ्ग	झ	ব্লি	ङ	झ	झ	₹8	ई	ङ्ग		
TTW	ङ्ग	झ	ব্লি	ङ्घ	뀵	স্ত্র	골 8	झै	ន់		
TTS	स्र	झा	झि	झ्	ৠ	স্না	स्र 8	स्रं	झं		
TTSH	ङ्ग	झ	ফ্লি	ङ्घ	\$	ञ्ज	₮ 8	\$	\$		
TTSS	ख	न्त्रा	ন্মি	स्र्	স্থ	স্থা	च्च १	र्ख	궣		
			i								

Annex-V Table 16 : Cluster 0 TTH with vowel, nasal and long sound diacritical marks

Character TTH		Vo	wel Sound	Vowel A & Sound Modifier Mark						
								Long - Nasal - Nasal & Long		
	Α	AA	1	U	E	0	A:	Å	Å:	
ттнк	Ц ттнка	₽П ттнкаа	[Ц ттнкі	Д ттнки	(Д	(की ттнко	4,8 ттнка:	Ф, ттнк 	Ф, ттнк ф:	
ттнкн	क्ष	द्या	िध	वी	(31	(ঝা	वा १	य्वं	વાં	
TTHG	Я	Я	lg	Э	(9	(Al	98	ģ	ģ	
TTHGH	ন্দ্ৰ	থ্যা	िध	ď	(41	(धा	તા ક	αβ	αj	
TTHNG	2	81	િ	2	(S	(81	8.8	Š	<u>&</u>	
TTHC	શ્વ	श्रा	धि	ब्र	(9	(21)	88	र्ध	ង	
ттнсн	8	871	િદ્વ	2	%	18 0	88	gį.	g <u>i</u>	
ТТНЈ	3'	371	ß'	3'	(3,	(37)	3.8	3,	જું.	
ТТНЈН	ঝ	ঝা	विम	3'	(41	(211	वाश	đ	ф	
TTHNJ	3,	31	ß	8	(9,	(3)	3,8	Ś,	g _i	
ттнт	ભ	দা	વિત	B	(Q 1	(দা	4,8	a ₁	αή	
ттнтт	ક	81	િક	ફ	6	631	58	ğ	હુ	
ттнтн	B	81	િક	&	B	(37)	8.8	Š	Š	
ттнттн	8	81	l8	8	(8)	(81	88	8	8	

Annex-V Table 16 : Cluster 0 TTH with vowel, nasal and long sound diacritical marks

Character TTH		Vov	Vowel A & Sound Modifier Mark								
								Long - Nasal - Nasal & Lon			
	A	AA	1	U	E	0	A:	Å	Å:		
TTHD	5	ଥା	િક	8	6	(SI	58	ģ	ģ		
TTHDD	3	331	િ	3	B	(3 1	38	ġ	લું		
TTHDH	I G TTHDHA	ЯП ттнднаа	[g ттноні	д ттнони	(9) ттноне	(ДП ттноно	98 ттндна:	ģ TTHDH Å	g TTHDHA		
TTHDDH	g,	ક્ષ	િ	8	<i>(</i> E	(81	88	<i>હ</i> ું	ર્હું		
TTHN	g	ଣା	ß	a	(A	ଖ	88	ģ	ផ្ទ		
TTHNN	g,	ક્ષા	િક	g.	(F	(8)1	88	ď,	g,		
ТТНР	ন্ত্র	धा	िवा	đ	(91	(911	ব্যঃ	đį	ପ୍ତୀ		
ТТНРН	ą,	হা	િવ્	Q.	(Q *	(Q)	Q. 8	đ,	ď,		
ттнв	8	ଥା	धि	a व	(8)	(81	88	Ŕ	j å		
ттнвн	Ŕ	হ্না	ષ્ઠિ	8	(<i>Q</i> ,	(&I	88	Ŕ	Ŕ		
ттнм	ঝ	स्रा	िया	क्षो	(31	(भा	ঝ ৪	ଷ୍ଟା	ଔ		
ттнү	શ	ପା	િશ	શ્	(SI	(থা	থা {	શું	શું		
TTHR	٩	91	প্রি	9,	(9	(91	98	9	ģ		

Annex-V Table 16 : Cluster 0 TTH with vowel, nasal and long sound diacritical marks

Character TTH	Vowel Sound Mark							Vowel A & Sound Modifier Mark Long - Nasal - Nasal & Long			
	TTHL	á	ଖ	[a	g	(A	(Al	88	ģ	á	
TTHW	а	ସ୍ଥା	ြဋ	g	(2	(ଥା	88	ģ	ģ		
TTHS	क्ष	श्रा	िम	क्ष	(21	(स्रा	स्र	क्षं	क्षं		
TTHSH	Я	ង្កា	୍ଲ	g	(S)	প্লো	88	á	4		
TTHSS	æ	ণ্মা	વિવ્ર	ď	(21	(धा	818	QΪ	ପୃ		
ттнн	ď	હ્ય	હિ	Q.	(G	(&) 	68	δ,	હ ૂ		

Annex-VI List of included letters and papers

Letter from the Prime Minister of Nepal
Letter from the Nepal Bhasha Academy
Letter from the Vice-Chancellor of Tribhuvan University
Letter from the Vice Chancellor of Lumbini Buddhist University
Letter from the Central Department of Nepalbhasa, Tribhuvan University
Monthly Paper in Nepaalalipi script Lipi Pau, Prachalit Nepal Script Monthly
Annual magazine in Nepaalalipi Pauvaa, Nepāl Lipi Guthi



Acknowledgement

Nepal is a recognized centre for a variety of South Asian manuscripts which provide a rich source of Nepalese culture to the world. It is indeed a great pleasure to see young scholars involved in the preservation and development of Nepalese culture through codification of these manuscripts.

The trio of researchers consisting of Mr Dev Dass Manandhar, Mr Samir Karmacharya and Mr Bishnu Chitrakar has made significant contributions to develop one of the Nepalese scripts "NEPAALALIPI" and to propose this script to be entered in the UNICODE CONSORTIUM, with its headquarters in the USA.

I wish them all the best for the success of their efforts, and hope that more work in this line will follow to bring to light other Nepalese scripts which reflect the historical development of human culture in Nepal.

10 August 2011

Jhala Nath Khanal



याल्नाया। ग्वडाम

नं. वडा, न्यामासिमा, किप् (कीर्तिपुर)

कोन त्याः ४३३४२२२

न्हि त्याः..

polipasona resource

To Whom It May Concern

Taking Nepaalalipi(script) with Nepaalabhasaa(language) to UNICODE Consortium and getting Universal Character Code from UNICODE Consortium is a dream of millions of Nepaalalipi lovers all over the world.

Nepaalabhasa Academy had conducted a seminar (Mr. Dev Dass Manandhar had presented a paper) regarding the different aspects of project proposal to enter Nepaalalipi script into the Universal Character Set Code in the UNICODE Consortium.

Presented proposal includes basic alphabets, their sequential order and their application in Nepaalahhasaa(language).

Recognition and inclusion of six new alphabets in the alphabetical list in comparison to UNICODE Debanagari will help to understand the difference between Tibeto Burmese group of languages and other family of languages .

This Project proposal prepared by Mr. Dev Dass Manandhar, Mr. Samir Karmacharya and Mr. Bishnu Chitrakar presents the basic requirements of alphabets and their behavior required in Nepaalabhasaa(language). We wish this project proposal will help UNICODE Consortium to encode NEPAALALIPI with UNIVERSAL CHARACTER CODE number.

Nepal Bhasha Academy Ward No 2, Kirtipur Kathmandu, Sept 7th, 2011 Sincerely yours
Satya Mchan Josha
Satya Mohan Joshi
Chancellor



TRIBHUVAN UNIVERSITY

Kirtipur, Kathmandu, Nepal

OFFICE OF THE VICE CHANCELLOR

December 28, 2011

Recommendation

I am very pleased to learn that serious work is being conducted to document the unique structure of Nepalalipi which is regarded as a major treasure of Nepalese society. It was therefore a great pleasure for me to go through the proposal prepared by a group of Nepalese researchers to enter this script in the UNICODE Consortium. This proposal will also motivate further research on the other unlisted Nepalese script to obtain Universal Character Set in the UNICODE Consortium.

The three young researchers, namely Dev Dass Manandhar, Samir Karmacharya and Bishnu Chitrakar, who have undertaken this important task, certainly deserve appreciation and encouragement. I would like in this context to strongly recommend that the present proposal on Nepalalipi will be assigned the Universal Character Set by the UNICODE Consortium at the earliest date.

Prof. Dr. Hira Bahadur Maharjan

Vice-Chancellor



Lumbini Buddhist University



Date: 3 Jan. 2012

To whom it may concern

I am pleased to know that a serious work has been done by Mr. Dev Dass Manandhar and his friends to document the unique structure of Nepalalipi which is considered to be the main treasure of thousands of Nepali manuscripts deposited in different archival offices of Nepal and abroad. I would like to give emphasis on the point that most of the Buddhist manuscripts of Nepal are written on Nepalalipi, and as such the scholars on Buddhist Studies would be highly benefited, if this script obtains Universal Character Set in the UNICODE consortium. I strongly recommend for the same at the earliest convenience.

Thanking You

(Prof. Dr. Tri Ratna Manandhar)

Vice Chancellor



त्रिभुवन विश्वविद्यालय TRIBHUVAN UNIVERSITY मानविकी तथा समाजिक शास्त्र संकाय FACULITY OF HUMANITHE

फोन नं. :१२६०४९४ Ph:5260494

पत्र संख्याः

FACULITY OF HUMANITES AND SOCIAL SCIENCES

नेपालभाष्यकाय विभाग

CENTRAL DEPARATE FOR NEPALBHASHA

भारत के जिल्ला विकास के जाता है। से जाता के ज

चैन लाकौल स्मृति भवन पाटन संयुक्त क्याम्पस परिसर पाटन ढोका, ललितपुर

Date : January 29, 2012

To whom it may Concern

The Central Department of Nepalbhasa is one of the outstanding departments of Tribhuvan University. It is established to run the Post Graduate Degree of Nepalbhasa and to carry out research and research on Newar (one of the endiginious people of Nepal) and related field. The Department carries study Nepalalipi (one of the Nepalese Scripts, literature and Culture. Among the different Newar Scripts, taught at the post graduate level.

To enhance the study on Nepalalipi, last year the department had conducted two outstanding seminars in this subject. Mr. Dev Dass Manandhar, Mr. Samir Karmacharya and Mr. Bishnu Chitrakar had presented the papers on different aspects of Nepalalipi . Recognition of prime alphabets, vowel diacritical marks and the collation order of alphabets of Nepalalipi were discussed in the seminars. They had analysed and presented Nepalalipi in a very logical and clear format. The paper on Nepalalipi proposed to uncode Nepalalipi in UNICODE was presented by Mr. Dev Dass Manandhar.

I am pleased to learn that the outcomes of these presentations will be a basis for a project proposal to enter the Universal Character Set Code to be approved by UNICODE Consortium. I look forward to your kind attention to this matter.

Sincerely yours

Prof. Prem Shanti Tuladhar

Head

Central department Of Nepalbhasa

Photograph of Binyapitaka in Liksabilipi evolved from the Dhamalipi(Brahmi)



Foto-2

The oldest manuscript on Binayapitaka in Liksabilipi script.

Nepaalalipi is evolved from Liksabilipi script.

Three folios of the manuscript are preserved in the National Archive, Archeological Department, Government Of Nepal.

Photograph of early evidence of Nepaalalipi derived from Liksabilipi.



Foto-3

Photograph of manuscript of Lankaa-Awataara written in the Nepaalalipi script dated NS 28(AD 908) preserved in the National Archive, Department Of Archeology, Kathmandu, Nepal.

Photograph of Nepaalalipi minted Coin issued by King Jayaprakasha Malla NS $873(1753\ \mathrm{AD})$





Foto-4
Photograph of a silver coin in Nepaalalipi script issued by
King Jayaprakash Malla NS 873(AD1753).

Photograph of 15 scripts inscription on stone



Foto-5

Photograph of a stone installed at the Royal palace courtyard by King Pratap Malla enscribed in 15 different scripts including Nepālalipi called Newāraākhara.