12.6 Tamil

Tamil: U+0B80-U+0BFF

The Tamil script is descended from the South Indian branch of Brahmi. It is used to write the Tamil language of the Tamil Nadu state in India as well as minority languages such as Irula, the Dravidian language Badaga, and the Indo-European language Saurashtra. Tamil is also used in Sri Lanka, Singapore, and parts of Malaysia.

The Tamil script has fewer consonants than the other Indic scripts. When representing the "missing" consonants in transcriptions of languages such as Sanskrit or Saurashtra, superscript European digits are often used, so $\Box^2 = pha$, $\Box^3 = ba$, and $\Box^4 = bha$. The characters U+00B2, U+00B3, and U+2074 can be used to preserve this distinction in plain text. The Grantha script is often also used by Tamil speakers to write Sanskrit because Grantha contains these missing consonants.

The Tamil script also avoids the use of conjunct consonant forms, although a few conventional conjuncts are used.

Virama (Pulli). Because the Tamil encoding in the Unicode Standard is based on ISCII-1988 (Indian Script Code for Information Interchange), it makes use of the abugida model. An abugida treats the basic consonants as containing an inherent vowel, which can be canceled by the use of a visible mark, called a virama in Sanskrit. In most Brahmi-derived scripts, the placement of a virama between two consonants implies the deletion of the inherent vowel of the first consonant and causes a conjoined or subjoined consonant cluster. In those scripts, ZERO WIDTH NON-JOINER is used to display a visible virama, as shown previously in the Devangari example in Figure 12-4.

The situation is quite different for Tamil because the script uses very few consonant conjuncts. An orthographic cluster consisting of multiple consonants (represented by <C1, U+0BCD TAMIL SIGN VIRAMA, C2, ...>) is normally displayed with explicit viramas, which are called *pulli* in Tamil. The *pulli* is typically rendered as a dot centered above the character. It occasionally appears as small circle instead of a dot, but this glyph variant should be handled by the font, and not be represented by the similar-appearing U+0B82 TAMIL SIGN ANUSVARA.

The conjuncts *kssa* and *shrii* are traditionally displayed by conjunct ligatures, as illustrated for *kssa* in *Figure 12-15*, but nowadays tend to be displayed using an explicit *pulli* as well.

Figure 12-15. Kssa Ligature in Tamil

To explicitly display a *puḷḷi* for such sequences, zero width non-joiner can be inserted after the *puḷḷi* in the sequence of characters.

Rendering of the Tamil Script. The Tamil script is complex and requires special rules for rendering. The following discussion describes the most important features of Tamil rendering behavior. As with any script, a more complex procedure can add rendering characteristics, depending on the font and application.

In a font that is capable of rendering Tamil, the number of glyphs is greater than the number of Tamil characters.

Tamil Vowels

Vowel Letters. Vowel letters are encoded atomically in Unicode, even if they can be analyzed visually as consisting of multiple parts. *Table 12-26* shows the letters that can be analyzed, the single code point that should be used to represent them in text, and the sequence of code points resulting from analysis that should not be used.

Table 12-26. Tamil Vowel Letters

For	Use	Do Not Use
ஆ	0B86	<0B85, 0BC2>

Independent Versus Dependent Vowels. In the Tamil script, the dependent vowel signs are not equivalent to a sequence of *virama* + *independent vowel*. For example:

Left-Side Vowels. The Tamil vowels U+0BC6 (), U+0BC7 (), and U+0BC8 60 are reordered in front of the consonant to which they are applied. When occurring in a syllable, these vowels are rendered to the left side of their consonant, as shown in *Figure 12-16*.

Figure 12-16. Tamil Vowel Reordering

Two-Part Vowels. Tamil also has several vowels that consist of elements which flank the consonant to which they are applied. A sequence of two Unicode code points can be used to express equivalent spellings for these vowels, as shown in *Figure 12-17*.

Figure 12-17. Tamil Two-Part Vowels

$$\bigcirc$$
 П 0ВСА \equiv \bigcirc + П 0ВС6 + 0ВВЕ \bigcirc П 0ВСВ \equiv \bigcirc + П 0ВС7 + 0ВВЕ \bigcirc ОП 0ВСС \equiv \bigcirc + ОП 0ВС6 + 0ВD7

In these examples, the representation on the left, which is a single code point, is the preferred form and the form in common use for Tamil.

In the process of rendering, these two-part vowels are transformed into the two separate glyphs equivalent to those on the right, which are then subject to vowel reordering, as shown in *Figure 12-18*.

Figure 12-18. Tamil Vowel Splitting and Reordering

Even in the case where a two-part vowel occurs with a conjunct consonant or consonant cluster, the left part of the vowel is reordered around the conjunct or cluster, as shown in *Figure 12-19*.

Figure 12-19. Vowel Reordering Around a Tamil Conjunct

For either left-side vowels or two-part vowels, the ordering of the elements is unambiguous: the consonant or consonant cluster occurs first in the memory representation, followed by the vowel.

Confusable Vowels. U+0B94 TAMIL LETTER AU and U+0BCC TAMIL VOWEL SIGN AU are visually indistinguishable from two semantically unrelated sequences, as shown in *Figure 12-20*. In the decompositions of these two vowel characters, the rightmost part is represented as the character U+0BD7 TAMIL AU LENGTH MARK, which looks exactly like the separate character, U+0BB3 TAMIL LETTER LLA.

Figure 12-20. Confusable Vowels in Tamil

ଡ଼େଶୀ
$$0B94 \equiv 9 + 1 = 0B92 + 0BD7 \neq 9 + 1 = 0B92 + 0BB3$$

ରେଶୀ $0BCC \equiv 1 + 1 = 0BC6 + 0BD7 \neq 1 = 0BC6 + 0BB3$

Tamil Ligatures

A number of ligatures are conventionally used in Tamil. Most ligatures involve the shape taken by a consonant plus vowel sequence. A wide variety of modern Tamil words are written without a conjunct form, with a fully visible *pulli*.

Ligatures with Vowel i. The vowel signs i \cap and ii form ligatures with the consonant $tta \perp$ as shown in examples 1 and 2 of *Figure 12-21*. These vowels often change shape or position slightly so as to join cursively with other consonants, as shown in examples 3 and 4 of *Figure 12-21*.

Figure 12-21. Tamil Ligatures with *i*

①
$$\Box + \cap \rightarrow \downarrow \downarrow ti$$
② $\Box + \circ \rightarrow \downarrow \downarrow ti$
③ $\otimes + \circ \cap \rightarrow \otimes \downarrow \downarrow i$
④ $\otimes + \circ \circ \rightarrow \otimes \downarrow \iota$

Ligatures with Vowel u. The vowel signs u and uu normally ligate with their consonant, as shown in *Table 12-27*. In the first column, the basic consonant is shown; the second column illustrates the ligation of that consonant with the u vowel sign; and the third column illustrates the ligation with the uu vowel sign.

Table 12-27. Tamil Ligatures with *u*

x	$x + \bigcirc$	x + ु.
க	ஞ	늉
ங	回	則
ச	ᅲ	சூ
ஞ	ஞு	்
L	டு	Ĝ

x	$x + \bigcirc$	x + ҈
Ц	Ч	±1)
Ф	மு	மூ
ш	Щ	IJ.
Л	ரு	ரு
Э	று	றூ

x	x + ○	x + ु
ண		ணூ
டு	ெ	தூ
ਪਿ	நு	நூ
ன	<u>ത</u>	னூ

Table 12-27. Tamil Ligatures with u (Continued)

x	x + ○	x + ូ
ಉ	லு	லூ
ள	ஞ	ளு
மி	9	ழ
ഖ	ഖ	வூ

With certain consonants, \mathfrak{B} , \mathfrak{A} , \mathfrak{S} , \mathfrak{S} , \mathfrak{S} , and the conjunct \mathfrak{B} , the vowel signs u and uu take a distinct spacing form, as shown in *Figure 12-22*.

Figure 12-22. Spacing Forms of Tamil *u*

$$\mathfrak{g} + \mathfrak{g} \to \mathfrak{g}^{\mathbb{D}} ju$$
 $\mathfrak{g} + \mathfrak{g} \to \mathfrak{g} \mathfrak{D} j\bar{u}$

Ligatures with ra. Based on typographical preferences, the consonant ra Π may change shape to Π , when it ligates. Such change, if it occurs, will happen only when the Π form of U+0BB0 Π Tamil Letter ra would not be confused with the nominal form Π of U+0BBE Tamil vowel sign as (namely, when Π is combined with $\dot{}$, $\dot{}$, or $\ddot{}$). This change in shape is illustrated in *Figure 12-23*.

Figure 12-23. Tamil Ligatures with *ra*

However, various governmental bodies mandate that the basic shape of the consonant $ra \, \Pi$ should be used for these ligatures as well, especially in school textbooks. Media and literary publications in Malaysia and Singapore mostly use the unchanged form of $ra \, \Pi$. Sri Lanka, on the other hand, specifies the use of the changed forms shown in *Figure 12-24*.

Tamil Ligature shri. Prior to Unicode 4.1, the best mapping to represent the ligature *shri* was to the sequence <U+0BB8, U+0BCD, U+0BB0, U+0BC0>. Unicode 4.1 in 2005 added the character U+0BB6 TAMIL LETTER SHA and as a consequence, the best mapping became

<U+0BB6, U+0BCD, U+0BB0, U+0BC0>. Due to slow updates to implementations, both representations are widespread in existing text. Therefore, treating both representations as equivalent sequences is recommended. *Figure 12-24* shows the two sequences.

Figure 12-24. Tamil Ligatures for shri

Ligatures with aa in Traditional Tamil Orthography. In traditional Tamil orthography, the vowel sign *aa* Π optionally ligates with 6001, 601, or ①, as illustrated in *Figure 12-25*.

Figure 12-25. Traditional Tamil Ligatures with *aa*

These ligations also affect the right-hand part of two-part vowels, as shown in Figure 12-26.

Figure 12-26. Traditional Tamil Ligatures with *o*

Ligatures with ai in Traditional Tamil Orthography. In traditional Tamil orthography, the left-side vowel sign *ai* 600 is also subject to a change in form. It is rendered as 20 when it occurs on the left side of 6001, 601, or 611, as illustrated in *Figure 12-27*.

Figure 12-27. Traditional Tamil Ligatures with *ai*

By contrast, in modern Tamil orthography, this vowel does not change its shape, as shown in *Figure 12-28*.

Figure 12-28. Vowel *ai* in Modern Tamil

Tamil aytham. The character U+0B83 TAMIL SIGN VISARGA is normally called *aytham* in Tamil. It is historically related to the *visarga* in other Indic scripts, but has become an ordinary spacing letter in Tamil. The *aytham* occurs in native Tamil words, but is frequently used as a modifying prefix before consonants used to represent foreign sounds. In particular, it is used in the spelling of words borrowed into Tamil from English or other languages.

Punctuation. Danda and double danda marks as well as some other unified punctuation used with Tamil are found in the Devanagari block; see *Section 12.1*, *Devanagari*.

Numbers. Modern Tamil decimal digits are encoded at U+0BE6..U+0BEF. Note that some digits are confusable with letters, as shown in *Table 12-28*. In some Tamil fonts, the digits for two and eight look exactly like the letters *u* and *a*, respectively. In other fonts, as shown here, the shapes for the digits two and eight are adjusted to minimize confusability.

Table 12-28. Confusable Tamil Digits

U+0BE7 க tamil digit one	U+0B95 க tamil letter ka
U+0BE8 2_ TAMIL DIGIT TWO	U+0B89 2_ tamil letter u
U+0BED 6T TAMIL DIGIT SEVEN	U+0B8E 6T tamil letter e
U+0BEE 🔑 TAMIL DIGIT EIGHT	U+0B85 🎒 tamil letter a

Tamil also has distinct numerals for ten, one hundred, and one thousand at U+0BF0..U+0BF2 used for historical numbers.

Use of Nukta. In addition to Tamil, several other languages of southern India are written using the Tamil script. For example, Irula is written with the Tamil script. Some of these languages contain sounds distinct from those normally written for the Tamil language. In

such cases, the writing systems of these languages apply diacritic nukta marks to Tamil letters to represent their distinct sounds. For example, Irula uses a double dot nukta below represented with U+1133C GRANTHA SIGN NUKTA, and Badaga uses a single dot nukta represented by U+1133B COMBINING BINDU BELOW for some sounds.

Tamil Supplement: U+11FC0-U+11FFF

The Tamil Supplement block contains a set of fractions in the range U+11FC0..U+11FD4 used for generic measurement and calculations and for money. The block also includes symbols indicating various forms of measurement, old units of currency, agricultural and clerical signs, and other miscellaneous abbreviations. Most characters in this block are no longer in use, but a few appear in traditional contexts, such as on marriage invitations printed in a traditional format.

Tamil Named Character Sequences

Tamil is less complex than some of the other Indic scripts, and both conceptually and in processing can be treated as an atomic set of elements: consonants, stand-alone vowels, and syllables. *Table 12-29* shows these atomic elements, with the corresponding Unicode characters or sequences. In cases where the atomic elements for Tamil correspond to sequences of Unicode characters, those sequences have been added to the approved list of Unicode named character sequences. See NamedSequences.txt in the Unicode Character Database for details.

In implementations such as natural language processing, where it may be useful to treat such Tamil text elements as single code points for ease of processing, Tamil named character sequences could be mapped to code points in a contiguous segment of the Private Use Area.

In *Table 12-29*, the first row shows the transliterated representation of the Tamil vowels in abbreviated form, while the first column shows the transliterated representation of the Tamil consonants. Those row and column labels, together with identifying strings such as "TAMIL SYLLABLE" or "TAMIL CONSONANT" are concatenated to form formal names for these sequences. For example, the sequence shown in the table in the K row and the AA column, with the sequence <0B95, 0BBE>, gets the associated name TAMIL SYLLABLE KAA. The sequence shown in the table in the K row in the first column, with the sequence <0B95, 0BCD>, gets the associated name TAMIL CONSONANT K.

Details on the complete names for each element can be found in NamedSequences.txt.

 Table 12-29.
 Tamil Vowels, Consonants, and Syllables

		Α	AA	I	II	U	UU	E	EE	Al	0	00	AU
	0B83	அ 0B85	ஆ 0886	இ 0B87	FF: 0B88	ഉ 0B89	ഉ ണ് _{0B8A}	6T OB8E	ஏ ®B8F	ഇ 0B90	ஒ 0892	ஒ ₀₿93	ஒள 0894
<u> </u>	க்	Б	கா	கி	கீ	<u>க</u>	<i>-</i>	கெ	கே	கை	கொ	கோ	கௌ
K	0B95	0B95	0B95	0B95	0B95	0B95	0B95	0B95	0B95	007CD 0B95	0B95	0B95	0B95
-	0BCD		0BBE	0BBF	0BC0	0BC1	0BC2	0BC6	0BC7	0BC8	0BCA	0BCB	0BCC
NG	ାହା	IРЛ	ΙШΠ	ஙி	គ្នោ	囮	阻	மெ	ஙே	ஙை	யொ	ஙோ	ஙெள
	0B99 0BCD	0B99	0B99 0BBE	0B99 0BBF	0B99 0BC0	0B99 0BC1	0B99 0BC2	0B99 0BC6	0B99 0BC7	0B99 0BC8	0B99 0BCA	0B99 0BCB	0B99 0BCC
С	ச்	ச	σπ	சி	£	क	சூ	செ	சே	சை	சொ	சோ	சௌ
	0B9A 0BCD	0B9A	0B9A 0BBE	0B9A 0BBF	0B9A 0BC0	0B9A 0BC1	0B9A 0BC2	0B9A 0BC6	0B9A 0BC7	0B9A 0BC8	0B9A 0BCA	0B9A 0BCB	0B9A 0BCC
	ஞ்	(бЪ	ஞா	ஞி	ஞீ	ஞ	ஞா	ெஞ	ஞே	ஞை	ஞொ	ஞோ	ஞௌ
NY	0B9E 0BCD	0B9E	0B9E 0BBE	0B9E 0BBF	0B9E 0BC0	0B9E 0BC1	0B9E 0BC2	0B9E 0BC6	0B9E 0BC7	0B9E 0BC8	0B9E 0BCA	0B9E 0BCB	0B9E 0BCC
	Ŀ	L	டா	Ц	ര	Θ	G	டெ	டே	டை	டொ	டோ	டௌ
TT	0B9F 0BCD	0B9F	0B9F 0BBE	0B9F 0BBF	0B9F 0BC0	0B9F 0BC1	0B9F 0BC2	0B9F 0BC6	0B9F 0BC7	0B9F 0BC8	0B9F 0BCA	0B9F 0BCB	0B9F 0BCC
	ண்	ண	ணா	ணி	ഞ്	ഞ്ച	ணூ	ணெ	ணே	തെ	ணொ	ணோ	ணௌ
NN	0BA3 0BCD	0BA3	0BA3 0BBE	0BA3 0BBF	0BA3 0BC0	0BA3 0BC1	0BA3 0BC2	0BA3 0BC6	0BA3 0BC7	0BA3 0BC8	0BA3 0BCA	0BA3 0BCB	0BA3 0BCC
Ţ	த்	த	தா	தி	தீ	து	தூ	தெ	தே	தை	தொ	தோ	தௌ
Ľ	0BA4 0BCD	0BA4	0BA4 0BBE	0BA4 0BBF	0BA4 0BC0	0BA4 0BC1	0BA4 0BC2	0BA4 0BC6	0BA4 0BC7	0BA4 0BC8	0BA4 0BCA	0BA4 0BCB	0BA4 0BCC
١	ந்	Б	நா	நி	நீ	நு	நூ	நெ	நே	நை	நொ	நோ	நௌ
N	0BA8 0BCD	0BA8	0BA8 0BBE	0BA8 0BBF	0BA8 0BC0	0BA8 0BC1	0BA8 0BC2	0BA8 0BC6	0BA8 0BC7	0BA8 0BC8	0BA8 0BCA	0BA8 0BCB	0BA8 0BCC
Р	Ц	⊔	ШΠ	பி	្ម	Г	Ц	பெ	பே	பை	பொ	போ	பௌ
-	0BAA 0BCD	0BAA	0BAA 0BBE	0BAA 0BBF	0BAA 0BC0	0BAA 0BC1	0BAA 0BC2	0BAA 0BC6	0BAA 0BC7	0BAA 0BC8	0BAA 0BCA	0BAA 0BCB	0BAA 0BCC
	ம்	Ф	மா	மி	மீ	(Д)	¢Ф	மெ	மே	மை	மொ	மோ	மௌ
М	0BAE 0BCD	0BAE	0BAE 0BBE	0BAE 0BBF	0BAE 0BC0	0BAE 0BC1	0BAE 0BC2	0BAE 0BC6	0BAE 0BC7	0BAE 0BC8	0BAE 0BCA	0BAE 0BCB	0BAE 0BCC
				9	IJ٩		11.1	யெ	யே	யை	Outr	யோ	யெள
Υ	ш	เ⊔	ШП	யி	ш	Щ	uД,	ெய	94	0074	யொ	ெயா	MINDE
	0BAF 0BCD	OBAF	0BAF 0BBE	OBAF OBBF	0BAF 0BC0	0BAF 0BC1	OBAF OBC2	0BAF 0BC6	0BAF 0BC7	0BAF 0BC8	0BAF 0BCA	OBAF OBCB	OBAF OBCC
	0BAF		0BAF	0BAF	0BAF	0BAF	0BAF	0BAF	0BAF	0BAF	0BAF	0BAF	0BAF
R	0BAF 0BCD	0BAF	0BAF 0BBE	0BAF 0BBF	0BAF 0BC0	0BAF 0BC1	0BAF 0BC2	0BAF 0BC6	0BAF 0BC7	0BAF 0BC8	0BAF 0BCA	0BAF 0BCB	0BAF 0BCC
R	OBAF OBCD	ОВАБ	OBAF OBBE TIT OBBO	OBAF OBBF	OBAF OBCO	OBAF OBC1	OBAF OBC2	0ВАF 0ВС6 ОГ 0ВВ0	0BAF 0BC7 G J 0BB0	0BAF 0BC8 6 0 万 0BB0	OBAF OBCA	OBAF OBCB	OBAF OBCC の月 町 OBBO

Table 12-29. Tamil Vowels, Consonants, and Syllables (Continued)

		Α	AA	I	II	U	UU	Е	EE	Al	0	00	AU
v	வ்	ഖ	வா	ഖി	ഖ്	ഖ	ഖ്യ	வெ	ഖേ	ബെ	வொ	வோ	வெள
	0BB5 0BCD	0BB5	0BB5 0BBE	0BB5 0BBF	0BB5 0BC0	0BB5 0BC1	0BB5 0BC2	0BB5 0BC6	0BB5 0BC7	0BB5 0BC8	0BB5 0BCA	0BB5 0BCB	0BB5 0BCC
LLL	<u></u> ОВВ4	ழ 0BB4	ழா 0ВВ4	ழ 0BB4	ழீ 0BB4	<u>ழ</u> 0BB4	<u>С</u> 0ВВ4	ழெ _{0BB4}	ழே _{0BB4}	ழை	ழொ _{0BB4}	ழோ	ழௌ _{0BB4}
<u> </u>	0BCD	UDD4	0BBE	0BBF	0BC0	0BC1	0BC2	0BC6	0BC7	0BB4 0BC8	0BCA	0BB4 0BCB	0BCC
LL	ள்	ា	ளா	ଶୀ	ଶଂ	ளு	ளு	ளெ	ளே	ளை	ளொ	ளோ	ளெள
	0BB3 0BCD	0BB3	0BB3 0BBE	0BB3 0BBF	0BB3 0BC0	0BB3 0BC1	0BB3 0BC2	0BB3 0BC6	0BB3 0BC7	0BB3 0BC8	0BB3 0BCA	0BB3 0BCB	0BB3 0BCC
RR	Ğ.	ഇ	றா	றி	ģ	று	றூ	றெ	றே	றை	றொ	றோ	றௌ
	0BB1 0BCD	0BB1	0BB1 0BBE	0BB1 0BBF	0BB1 0BC0	0BB1 0BC1	0BB1 0BC2	0BB1 0BC6	0BB1 0BC7	0BB1 0BC8	0BB1 0BCA	0BB1 0BCB	0BB1 0BCC
NNN	ன்	ன	னா	னி	ത്	னு	னூ	னெ	னே	னை	னொ	னோ	னௌ
141414	0BA9 0BCD	0BA9	0BA9 0BBE	0BA9 0BBF	0BA9 0BC0	0BA9 0BC1	0BA9 0BC2	0BA9 0BC6	0BA9 0BC7	0BA9 0BC8	0BA9 0BCA	0BA9 0BCB	0BA9 0BCC
J	33.	333	ஜா	இ	333	£	ஜூ	ജെ	ලෙ	ജെ	ஜொ	ஜோ	ஜௌ
Ľ	0B9C 0BCD	0B9C	0B9C 0BBE	0B9C 0BBF	0B9C 0BC0	0B9C 0BC1	0B9C 0BC2	0B9C 0BC6	0B9C 0BC7	0B9C 0BC8	0B9C 0BCA	0B9C 0BCB	0B9C 0BCC
SH	ஶ்	w	חסט	மி	ஶீ	oon	സ	ஶெ	ஶே	ஶை	ஶொ	ஶோ	ஶௌ
	0BB6 0BCD	0BB6	0BB6 0BBE	0BB6 0BBF	0BB6 0BC0	0BB6 0BC1	0BB6 0BC2	0BB6 0BC6	0BB6 0BC7	0BB6 0BC8	0BB6 0BCA	0BB6 0BCB	0BB6 0BCC
SS	ல்	ல	லூ	<u>ച്</u>	െ	ஹு	മൗ	ெல	ஷே	ക്ക	ஹொ	ஹோ	தெள
	0BB7 0BCD	0BB7	0BB7 0BBE	0BB7 0BBF	0BB7 0BC0	0BB7 0BC1	0BB7 0BC2	0BB7 0BC6	0BB7 0BC7	0BB7 0BC8	0BB7 0BCA	0BB7 0BCB	0BB7 0BCC
s	ஸ்	സ	ஸா	സി	സ്	സൗ	സൗ	സെ	സേ	സെ	ஸொ	ஸோ	ஸௌ
5	0BB8 0BCD	0BB8	0BB8 0BBE	0BB8 0BBF	0BB8 0BC0	0BB8 0BC1	0BB8 0BC2	0BB8 0BC6	0BB8 0BC7	0BB8 0BC8	0BB8 0BCA	0BB8 0BCB	0BB8 0BCC
Н	ஹ்	ஹ	ஹா	ஹி	ஹீ	ஹு	ஹൗ	ஹெ	ஹേ	മ്ബെ	ஹொ	ஹோ	ஹௌ
L"	0BB9 0BCD	0BB9	0BB9 0BBE	0BB9 0BBF	0BB9 0BC0	0BB9 0BC1	0BB9 0BC2	0BB9 0BC6	0BB9 0BC7	0BB9 0BC8	0BB9 0BCA	0BB9 0BCB	0BB9 0BCC
	ஷ்ջ	ক্ৰি	கூலா	ক্ষ্যু	ക്കൂ	ሙያን	ക്കൂ	க்ஷெ	கேஷ	கைழ	க்ஷோ	க்ஷோ	க்ஷௌ
KSS	0B95 0BCD 0BB7 0BCD	0B95 0BCD 0BB7	0B95 0BCD 0BB7 0BBE	0B95 0BCD 0BB7 0BBF	0B95 0BCD 0BB7 0BC0	0B95 0BCD 0BB7 0BC1	0B95 0BCD 0BB7 0BC2	0B95 0BCD 0BB7 0BC6	0B95 0BCD 0BB7 0BC7	0B95 0BCD 0BB7 0BC8	0B95 0BCD 0BB7 0BCA	0B95 0BCD 0BB7 0BCB	0B95 0BCD 0BB7 0BCC

