

Universal Multiple-Octet Coded Character Set
 International Organization for Standardization
 Organisation Internationale de Normalisation
 Международная организация по стандартизации

Doc Type: Working Group Document**Title: Proposal to add archaic numbers for Sinhala to the BMP and SMP of the UCS****Source: Ireland****Status: National Body Contribution****Action: For consideration by JTC1/SC2/WG2 and UTC****Replaces: N1473R, N3195R****Date: 2010-08-08**

Present-day Sri Lankans use the European digits 0123456789 exclusively, and the older numbering systems are not known by most people literate in Sinhala. N1473R, dated 1997-03-01, proposed what is now known to be an incomplete set of these numbers. UTR#2 published in 1992, contained a proposal for Sinhala written by Andy Daniels which included the digits as listed above as well as NUMBER ONE HUNDRED and NUMBER ONE THOUSAND (but not the tens). The numbers were not considered well-attested and they were removed from the proposal for further study as their encoding was not urgent. In February 2007, document N3195R requested twenty additional characters to be added to the UCS. Experts from Sri Lanka requested time for further study, and recently a book was published (Wijayawardhana 2009) in which the results of that study indicate that the numbers requested in N3195R are justified for encoding, but that an additional set of numbers should also be encoded. A more modern set, called *lith illakkum* in Sinhala were used in ephemerides for casting horoscopes and making astrological calculations. The older, pre-decimal set given in N3195R, was previously approved for encoding by WG2 and the UTC.

The Archaic Sinhala number system, which seems not to have been used after 1815, was additive. Because there was no zero, a separate character was used for each of the tens. The usage of the numbers is illustrated here:

ල 1	උ 2	ඇ 3	ඉ 4	ං 5	ඇ 6	ඇ 7	ඉ 8	ං 9
ය 10	යෙ 11	යෙල 12	යෙලේ 13	යෙඹු 14	යෙබෙ 15	යෙච 16	යෙටු 17	යෙලු 18
ය 20	යිල 21	යිලැ 22	යිලේ 23	යිජු 24	යිබෙ 25	යිච 26	යිටු 27	යිලු 28
ය 30	යිල 31	යිලැ 32	යිලේ 33	යිජු 34	යිබෙ 35	යිච 36	යිටු 37	යිලු 38
ඇජ 40	ඇජල 41	ඇජල 42	ඇජලේ 43	ඇජජු 44	ඇජබෙ 45	ඇජච 46	ඇජටු 47	ඇජලු 48
ඇජ 50	ඇජල 51	ඇජල 52	ඇජලේ 53	ඇජජු 54	ඇජබෙ 55	ඇජච 56	ඇජටු 57	ඇජලු 58
ඇඣ 60	ඇඣල 61	ඇඣල 62	ඇඣලේ 63	ඇඣජු 64	ඇඣබෙ 65	ඇඣච 66	ඇඣටු 67	ඇඣලු 68
ඇඣ 70	ඇඣජල 71	ඇඣජල 72	ඇඣජලේ 73	ඇඣජජු 74	ඇඣජබෙ 75	ඇඣජච 76	ඇඣජටු 77	ඇඣජලු 78
ඇඣ 80	ඇඣල 81	ඇඣල 82	ඇඣලේ 83	ඇඣජු 84	ඇඣබෙ 85	ඇඣච 86	ඇඣටු 87	ඇඣලු 88
ඇඣ 90	ඇඣල 91	ඇඣල 92	ඇඣලේ 93	ඇඣජු 94	ඇඣබෙ 95	ඇඣච 96	ඇඣටු 97	ඇඣලු 98
ඇඣ 100	ඇඣල 101	ඇඣල 102	ඇඣලේ 103	ඇඣජු 104	ඇඣබෙ 105	ඇඣච 106	ඇඣටු 107	ඇඣලු 108
ඇඣජල 111	ඇඣජල 222	ඇඣජලේ 333		ඇඣජජු 444	ඇඣජබෙ 555			
වූඇඣච 666	වූඇඣජටු 777	වූඇඣජලු 888		ඇඣජලු 999				
ඇඣ 1000	ඇඣජලුඇඣලේ 1963	ඇඣජටු 2007		ඇඣජලු 2010				

The astrological Sinhala number system appears to have been in use even up to the earlier part of the 20th century, is a true decimal system, including the use of the digit zero. The usage of the numbers is illustrated here:

ප 0	ස 1	ං 2	ං 3	ජ 4	ද 5	ං 6	උ 7	ර 8	ලි 9	
ශ 10	මෙ 11	මො 12	මො 13	මේ 14	දෑ 15	මෙ 16	මේ 17	මෙ 18	මේ 19	
ව් 20	මැ 21	මැ 22	මැ 23	මැ 24	මැ 25	මැ 26	මැ 27	මැ 28	මැ 29	
ං 30	ංම 31	ංම 32	ංම 33	ංම 34	ංම 35	ංම 36	ංම 37	ංම 38	ංම 39	
ජ 40	ජම 41	ජම 42	ජම 43	ජම 44	ජම 45	ජම 46	ජම 47	ජම 48	ජම 49	
ද් 50	දම 51	දම 52	දම 53	ද්ම 54	දම 55	දම 56	දම 57	ද්ම 58	දම 59	
ං 60	ංම 61	ංම 62	ංම 63	ංම 64	ංම 65	ංම 66	ංම 67	ංම 68	ංම 69	
උ 70	උම 71	උම 72	උම 73	උම 74	උම 75	උම 76	උම 77	උම 78	උම 79	
ර් 80	රම 81	රම 82	රම 83	රම 84	රම 85	රම 86	රම 87	රම 88	රම 89	
ලි 90	ලිම 91	ලිම 92	ලිම 93	ලිම 94	ලිම 95	ලිම 96	ලිම 97	ලිර 98	ලිබි 99	
ශ් 100	ශ්ම 101	ශ්ම 102	ශ්ම 103	ශ්ම 104	ශ්ම 105	ශ්ම 106	ශ්ම 107	ශ්ර 108	ශ්ම 109	
මෙම 111	මාමාම 222		මාමාම 333		ජ්ම්ම්ම 444	දුදුද 555				
මෙම 666	මෙම 777		රරර 888		ලිබිබි 999					
ව් 1000	ව්මෙම 1963		ව්මු 2007		ව්ම් 2010					

Unicode Character Properties

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0DE6;SINHALA DIGIT ONE;No;0;L;;;;0;N;;;;;
0DE7;SINHALA DIGIT ONE;No;0;L;;;;1;N;;;;;
0DE8;SINHALA DIGIT TWO;No;0;L;;;;2;N;;;;;
0DE9;SINHALA DIGIT THREE;No;0;L;;;;3;N;;;;;
0DEA;SINHALA DIGIT FOUR;No;0;L;;;;4;N;;;;;
0DEB;SINHALA DIGIT FIVE;No;0;L;;;;5;N;;;;;
0DEC;SINHALA DIGIT SIX;No;0;L;;;;6;N;;;;;
0DED;SINHALA DIGIT SEVEN;No;0;L;;;;7;N;;;;;
0DEE;SINHALA DIGIT EIGHT;No;0;L;;;;8;N;;;;;
0DEF;SINHALA DIGIT NINE;No;0;L;;;;9;N;;;;;

111E1;SINHALA DIGIT ONE;No;0;L;;;;1;N;;;;;
111E2;SINHALA DIGIT TWO;No;0;L;;;;2;N;;;;;
111E3;SINHALA DIGIT THREE;No;0;L;;;;3;N;;;;;
111E4;SINHALA DIGIT FOUR;No;0;L;;;;4;N;;;;;
111E5;SINHALA DIGIT FIVE;No;0;L;;;;5;N;;;;;
111E6;SINHALA DIGIT SIX;No;0;L;;;;6;N;;;;;
111E7;SINHALA DIGIT SEVEN;No;0;L;;;;7;N;;;;;
111E8;SINHALA DIGIT EIGHT;No;0;L;;;;8;N;;;;;
111E9;SINHALA DIGIT NINE;No;0;L;;;;9;N;;;;;
111EA;SINHALA NUMBER TEN;No;0;L;;;;10;N;;;;;
111EB;SINHALA NUMBER TWENTY;No;0;L;;;;20;N;;;;;
111EC;SINHALA NUMBER THIRTY;No;0;L;;;;30;N;;;;;
111ED;SINHALA NUMBER FORTY;No;0;L;;;;40;N;;;;;
111EE;SINHALA NUMBER FIFTY;No;0;L;;;;50;N;;;;;
111EF;SINHALA NUMBER SIXTY;No;0;L;;;;60;N;;;;;
111F0;SINHALA NUMBER SEVENTY;No;0;L;;;;70;N;;;;;
111F1;SINHALA NUMBER EIGHTY;No;0;L;;;;80;N;;;;;
111F2;SINHALA NUMBER NINETY;No;0;L;;;;90;N;;;;;
111F3;SINHALA NUMBER ONE HUNDRED;No;0;L;;;;100;N;;;;;
111F4;SINHALA NUMBER ONE THOUSAND;No;0;L;;;;1000;N;;;;;

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Bibliography

Wijayawardhana, Harsha. 2009. *Numerations in the Sinhala Language*. Edited by Aruni Goonetilleke. Colombo: Strategic Communications and Media Unit - ICTA. ISBN 978-955-1199-05-0

	0D8	0D9	0DA	0DB	0DC	0DD	0DE	0DF
0	ලළ	ව	ඩ	ච	ට	ඹ		
1		ඡ	ජ	ඤ	ඣ	ඹ		
2	ං	ආ	ඇ		ආ	ං	ංaa	
3	ංං	ංං	ංං	ංං	ංං	ංං	ංං	ංං
4		ං	ං	ං	ං	ං	ං	ං
5	ං	ං	ං	ං	ං			
6	ං	ං	ං	ං	ං	ං	ං	
7	ං		ං	ං			ං	
8	ං		ං	ං		ං	ං	
9	ං		ං	ං		ං	ං	
A	ං	ං	ං	ං	ං	ං	ං	
B	ං	ං	ං	ං		ං	ං	
C	ං	ං	ං			ං	ං	
D	ං	ං	ං	ං		ං	ං	
E	ං	ං	ං			ං	ං	
F	ං	ං	ං			ං	ං	

Various signs

- 0D82 ۞ SINHALA SIGN ANUSVARAYA
= anusvara
0D83 ۞ SINHALA SIGN VISARGAYA
= visarga

Independent vowels

- 0D85 ܂ SINHALA LETTER AYANNA
= sinhala letter a
0D86 ܃ SINHALA LETTER AAYANNA
= sinhala letter aa
0D87 ܄ SINHALA LETTER AEYANNA
= sinhala letter ae
0D88 ܅ SINHALA LETTER AEEYANNA
= sinhala letter aae
0D89 ܆ SINHALA LETTER IYANNA
= sinhala letter i
0D8A ܇ SINHALA LETTER IIYANNA
= sinhala letter ii
0D8B ܈ SINHALA LETTER UYANNA
= sinhala letter u
0D8C ܉ SINHALA LETTER UUYANNA
= sinhala letter uu
0D8D ܊ SINHALA LETTER IRUYANNA
= sinhala letter vocalic r
0D8E ܋ SINHALA LETTER IRUUYANNA
= sinhala letter vocalic rr
0D8F ܌ SINHALA LETTER ILUYANNA
= sinhala letter vocalic l
0D90 ܍ SINHALA LETTER ILUUYANNA
= sinhala letter vocalic ll
0D91 ܎ SINHALA LETTER EYANNA
= sinhala letter e
0D92 ܏ SINHALA LETTER EEYANNA
= sinhala letter ee
0D93 ܐ SINHALA LETTER AIYANNA
= sinhala letter ai
0D94 ܑ SINHALA LETTER OYANNA
= sinhala letter o
0D95 ܒ SINHALA LETTER OOYANNA
= sinhala letter oo
0D96 ܓ SINHALA LETTER AUYANNA
= sinhala letter au

Consonants

- 0D9A ܔ SINHALA LETTER ALPAPRAANA KAYANNA
= sinhala letter ka
0D9B ܕ SINHALA LETTER MAHAAPRAANA KAYANNA
= sinhala letter kha
0D9C ܖ SINHALA LETTER ALPAPRAANA GAYANNA
= sinhala letter ga
0D9D ܗ SINHALA LETTER MAHAAPRAANA GAYANNA
= sinhala letter gha
0D9E ܘ SINHALA LETTER KANTAJA NAASIKYAYA
= sinhala letter nga
0D9F ܙ SINHALA LETTER SANYAKA GAYANNA
= sinhala letter nnga
0DA0 ܚ SINHALA LETTER ALPAPRAANA CAYANNA
= sinhala letter ca
0DA1 ܛ SINHALA LETTER MAHAAPRAANA CAYANNA
= sinhala letter cha
0DA2 ܜ SINHALA LETTER ALPAPRAANA JAYANNA
= sinhala letter ja
0DA3 ܝ SINHALA LETTER MAHAAPRAANA JAYANNA
= sinhala letter jha

- 0DA4 ܞ SINHALA LETTER TAALUJA NAASIKYAYA
= sinhala letter nya
0DA5 ܟ SINHALA LETTER TAALUJA SANYOOGA
NAAKSIKYAYA
= sinhala letter jnya
0DA6 ܠ SINHALA LETTER SANYAKA JAYANNA
= sinhala letter nyja
0DA7 ܡ SINHALA LETTER ALPAPRAANA TTAYANNA
= sinhala letter tta
0DA8 ܢ SINHALA LETTER MAHAAPRAANA TTAYANNA
= sinhala letter ttha
0DA9 ܣ SINHALA LETTER ALPAPRAANA DDAYANNA
= sinhala letter dda
0DAA ܤ SINHALA LETTER MAHAAPRAANA DDAYANNA
= sinhala letter ddha
0DAB ܥ SINHALA LETTER MUURDHAJA NAYANNA
= sinhala letter nna
0DAC ܦ SINHALA LETTER SANYAKA DDAYANNA
= sinhala letter nnnda
0DAD ܧ SINHALA LETTER ALPAPRAANA TAYANNA
= sinhala letter ta
0DAE ܨ SINHALA LETTER MAHAAPRAANA TAYANNA
= sinhala letter tha
0DAF ܩ SINHALA LETTER ALPAPRAANA DAYANNA
= sinhala letter da
0DB0 ܪ SINHALA LETTER MAHAAPRAANA DAYANNA
= sinhala letter dha
0DB1 ܫ SINHALA LETTER DANTAJA NAYANNA
= sinhala letter na
0DB2 ܬ <reserved>
0DB3 ܭ SINHALA LETTER SANYAKA DAYANNA
= sinhala letter nda
0DB4 ܮ SINHALA LETTER ALPAPRAANA PAYANNA
= sinhala letter pa
0DB5 ܯ SINHALA LETTER MAHAAPRAANA PAYANNA
= sinhala letter pha
0DB6 ܰ SINHALA LETTER ALPAPRAANA BAYANNA
= sinhala letter ba
0DB7 ܱ SINHALA LETTER MAHAAPRAANA BAYANNA
= sinhala letter bha
0DB8 ܲ SINHALA LETTER MAYANNA
= sinhala letter ma
0DB9 ܳ SINHALA LETTER AMBA BAYANNA
= sinhala letter mba
0DBA ܴ SINHALA LETTER YAYANNA
= sinhala letter ya
0DBB ܵ SINHALA LETTER RAYANNA
= sinhala letter ra
0DBC ܶ <reserved>
0DBD ܷ SINHALA LETTER DANTAJA LAYANNA
= sinhala letter la
• dental
0DBE ܸ <reserved>
0DBF ܹ <reserved>
0DC0 ܺ SINHALA LETTER VAYANNA
= sinhala letter va
0DC1 ܻ SINHALA LETTER TAALUJA SAYANNA
= sinhala letter sha
0DC2 ܼ SINHALA LETTER MUURDHAJA SAYANNA
= sinhala letter ssa
• retroflex
0DC3 ܽ SINHALA LETTER DANTAJA SAYANNA
= sinhala letter sa
• dental
0DC4 ܾ SINHALA LETTER HAYANNA
= sinhala letter ha

0DC5	ස	SINHALA LETTER MUURDHAJA LAYANNA = sinhala letter lla • retroflex
0DC6	ෆ	SINHALA LETTER FAYANNA = sinhala letter fa

Sign

0DCA	අ	SINHALA SIGN AL-LAKUNA = virama
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Dependent vowel signs

0DCF	ං	SINHALA VOWEL SIGN AELA-PILLA = sinhala vowel sign aa
0DD0	ං	SINHALA VOWEL SIGN KETTI AEDA-PILLA = sinhala vowel sign ae
0DD1	ං	SINHALA VOWEL SIGN DIGA AEDA-PILLA = sinhala vowel sign aae
0DD2	ඒ	SINHALA VOWEL SIGN KETTI IS-PILLA = sinhala vowel sign i
0DD3	ඒ	SINHALA VOWEL SIGN DIGA IS-PILLA = sinhala vowel sign ii
0DD4	ං	SINHALA VOWEL SIGN KETTI PAA-PILLA = sinhala vowel sign u
0DD5	ං	<reserved>
0DD6	ං	SINHALA VOWEL SIGN DIGA PAA-PILLA = sinhala vowel sign uu
0DD7	ං	<reserved>
0DD8	ං	SINHALA VOWEL SIGN GAETTA-PILLA = sinhala vowel sign vocalic r
0DD9	ං	SINHALA VOWEL SIGN KOMBUVA = sinhala vowel sign e
0DDA	ං	SINHALA VOWEL SIGN DIGA KOMBUVA = sinhala vowel sign ee
0DDB	ං	≡ 0DD9 ම 0DCA ඒ
0DDC	ං	SINHALA VOWEL SIGN KOMBU DEKA = sinhala vowel sign ai

Two-part dependent vowel signs

These vowel signs have glyph pieces which stand on both sides of the consonant; they follow the consonant in logical order, and should be handled as a unit for most processing.

0DDC	ං	SINHALA VOWEL SIGN KOMBUVA HAA AELA-PILLA = sinhala vowel sign o ≡ 0DD9 ම 0DCF ඒ
0DDD	ං	SINHALA VOWEL SIGN KOMBUVA HAA DIGA AELA-PILLA = sinhala vowel sign oo ≡ 0DDC ම 0DCA ඒ
0DDE	ං	SINHALA VOWEL SIGN KOMBUVA HAA GAYANUKITTA = sinhala vowel sign au ≡ 0DD9 ම 0DDF ඒ

Dependent vowel sign

0DDF	ං	SINHALA VOWEL SIGN GAYANUKITTA = sinhala vowel sign vocalic i
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Historical digits

0DE6	ශ	SINHALA DIGIT ZERO
0DE7	ශ	SINHALA DIGIT ONE
0DE8	ශ	SINHALA DIGIT TWO
0DE9	ශ	SINHALA DIGIT THREE
0DEA	ශ	SINHALA DIGIT FOUR
0DEB	ශ	SINHALA DIGIT FIVE
0DEC	ශ	SINHALA DIGIT SIX

0DED	ශ	SINHALA DIGIT SEVEN
0DEE	ශ	SINHALA DIGIT EIGHT
0DEF	ශ	SINHALA DIGIT NINE

Additional dependent vowel signs

0DF2	ං	SINHALA VOWEL SIGN DIGA GAETTA-PILLA = sinhala vowel sign vocalic rr
0DF3	ං	SINHALA VOWEL SIGN DIGA GAYANUKITTA = sinhala vowel sign vocalic ll

Punctuation

0DF4	ං	SINHALA PUNCTUATION KUNDDALIYA
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	111E	111F
0		 111F0
1		 111F1
2		 111F2
3		 111F3
4		 111F4
5		
6		
7		
8		
9		
A		
B		
C		
D		
E		
F		

Historical digits

These digits are not used with a zero

111E1		SINHALA ARCHAIC DIGIT ONE
111E2		SINHALA ARCHAIC DIGIT TWO
111E3		SINHALA ARCHAIC DIGIT THREE
111E4		SINHALA ARCHAIC DIGIT FOUR
111E5		SINHALA ARCHAIC DIGIT FIVE
111E6		SINHALA ARCHAIC DIGIT SIX
111E7		SINHALA ARCHAIC DIGIT SEVEN
111E8		SINHALA ARCHAIC DIGIT EIGHT
111E9		SINHALA ARCHAIC DIGIT NINE

Historical numbers

111EA		SINHALA ARCHAIC NUMBER TEN
111EB		SINHALA ARCHAIC NUMBER TWENTY
111EC		SINHALA ARCHAIC NUMBER THIRTY
111ED		SINHALA ARCHAIC NUMBER FORTY
111EE		SINHALA ARCHAIC NUMBER FIFTY
111EF		SINHALA ARCHAIC NUMBER SIXTY
111F0		SINHALA ARCHAIC NUMBER SEVENTY
111F1		SINHALA ARCHAIC NUMBER EIGHTY
111F2		SINHALA ARCHAIC NUMBER NINETY
111F3		SINHALA ARCHAIC NUMBER ONE HUNDRED
111F4		SINHALA ARCHAIC NUMBER ONE THOUSAND

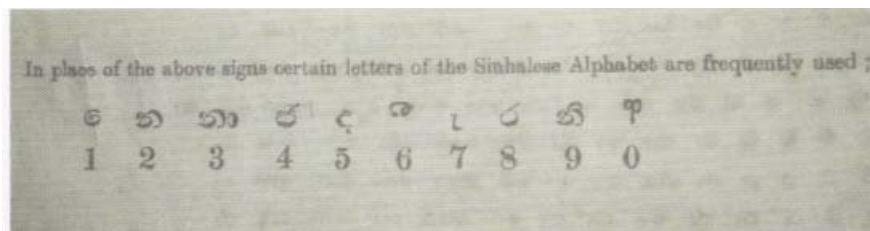


Figure 1. Sample from Wijayawardhana 2009 showing a sample by W. A. de Silva in which he has substituted letter glyphs for the decimal numbers.

ලිජ් තුළක්කම				
ස	භ	භ	ර	ණ
1	2	3	4	5
ව	උ	උ	ඩි	ඩ
6	7	8	9	10
ගෝ	ගො	ගො	ගෝ	ගේ
11	12	13	14	15
ශෝ	ශේ	ශේ	ශේ	ශේ
16	17	18	19	20
ගාග	ගාග	ගාග	ගාජ	ගාද
21	22	23	24	25

Figure 2. Sample from Wijayawardhana 2009 showing typographic forms of the decimal numbers in a document buy Dr P. De S. Kularatne. As Wijayawardhana points out, the number 20 is incorrectly depicted.

A. Administrative

1. Title

Proposal to add archaic numbers for Sinhala to the BMP and SMP of the UCS

2. Requester's name

Ireland

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

National Body contribution.

4. Submission date

2010-08-08

5. Requester's reference (if applicable)

6. Choose one of the following:

6a. This is a complete proposal

Yes.

6b. More information will be provided later

No.

B. Technical – General

1. Choose one of the following:

1a. This proposal is for a new script (set of characters)

No.

1b. Proposed name of script

1c. The proposal is for addition of character(s) to an existing block

Yes

1d. Name of the existing block

Sinhala

2. Number of characters in proposal

20

3. Proposed category (A-Contemporary; B.1-Specialized (small collection); B.2-Specialized (large collection); C-Major extinct; D-Attested extinct; E-Minor extinct; F-Archaic Hieroglyphic or Ideographic; G-Obscure or questionable usage symbols)

Category A.

4a. Is a repertoire including character names provided?

Yes.

4b. If YES, are the names in accordance with the “character naming guidelines” in Annex L of P&P document?

Yes.

4c. Are the character shapes attached in a legible form suitable for review?

Yes.

5a. Who will provide the appropriate computerized font (ordered preference: True Type, or PostScript format) for publishing the standard?

Michael Everson.

5b. If available now, identify source(s) for the font (include address, e-mail, ftp-site, etc.) and indicate the tools used:

Michael Everson, Fontographer.

6a. Are references (to other character sets, dictionaries, descriptive texts etc.) provided?

Yes.

6b. Are published examples of use (such as samples from newspapers, magazines, or other sources) of proposed characters attached?

Yes.

7. Does the proposal address other aspects of character data processing (if applicable) such as input, presentation, sorting, searching, indexing, transliteration etc. (if yes please enclose information)?

Yes.

8. Submitters are invited to provide any additional information about Properties of the proposed Character(s) or Script that will assist in correct understanding of and correct linguistic processing of the proposed character(s) or script. Examples of such properties are: Casing information, Numeric information, Currency information, Display behaviour information such as line breaks, widths etc., Combining behaviour, Spacing behaviour, Directional behaviour, Default Collation behaviour, relevance in Mark Up contexts, Compatibility equivalence and other Unicode normalization related information. See the Unicode standard at <http://www.unicode.org> for such information on other scripts. Also see Unicode Character Database <http://www.unicode.org/Public/UNIDATA/UnicodeCharacterDatabase.html> and associated Unicode Technical Reports for information needed for consideration by the Unicode Technical Committee for inclusion in the Unicode Standard.

See above.

C. Technical – Justification

1. Has this proposal for addition of character(s) been submitted before? If YES, explain.

Yes. See N1473R, N3195R

2a. Has contact been made to members of the user community (for example: National Body, user groups of the script or characters, other experts, etc.)?

No.

2b. If YES, with whom?

2c. If YES, available relevant documents

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

The characters have historical use in Sinhala script.

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

Used rarely today but found in documents prior to the 19th century CE.

4b. Reference

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

Yes.

5b. If YES, where?

Publications describing the history of the script, ephemerides.

6a. After giving due considerations to the principles in the P&P document must the proposed characters be entirely in the BMP?

Only some of them.

6b. If YES, is a rationale provided?

No.

6c. If YES, reference

7. Should the proposed characters be kept together in a contiguous range (rather than being scattered)?

No.

8a. Can any of the proposed characters be considered a presentation form of an existing character or character sequence?

No.

8b. If YES, is a rationale for its inclusion provided?

8c. If YES, reference

9a. Can any of the proposed characters be encoded using a composed character sequence of either existing characters or other proposed characters?

No.

9b. If YES, is a rationale for its inclusion provided?

9c. If YES, reference

10a. Can any of the proposed character(s) be considered to be similar (in appearance or function) to an existing character?

No.

10b. If YES, is a rationale for its inclusion provided?

10c. If YES, reference

11a. Does the proposal include use of combining characters and/or use of composite sequences (see clauses 4.12 and 4.14 in ISO/IEC 10646-1: 2000)?

No.

11b. If YES, is a rationale for such use provided?

11c. If YES, reference

11d. Is a list of composite sequences and their corresponding glyph images (graphic symbols) provided?

No.

11e. If YES, reference

12a. Does the proposal contain characters with any special properties such as control function or similar semantics?

No.

12b. If YES, describe in detail (include attachment if necessary)

13a. Does the proposal contain any Ideographic compatibility character(s)?

No.

13b. If YES, is the equivalent corresponding unified ideographic character(s) identified?