

Request for editorial updates to Indic scripts

Srinidhi A and Sridatta A

Tumakuru, India

srinidhi.pinkpetals24@gmail.com, sridatta.jamadagni@gmail.com

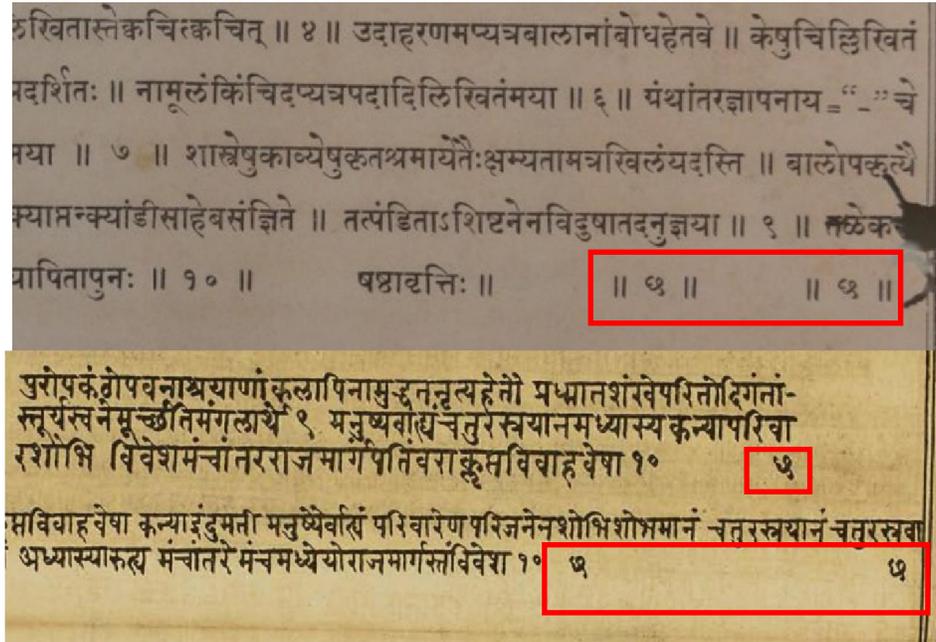
April 17, 2017

1 Devanagari

1.1 A8F8 DEVANAGARI SIGN PUSHPIKA represents the flower and this symbol is commonly used at the end of texts and also as filler. The Code chart annotates it as vaidika pushpika. This character is not limited to Vedic texts and Sanskrit. This sign also occurs in classical Sanskrit and other languages and scripts.

Action Requested

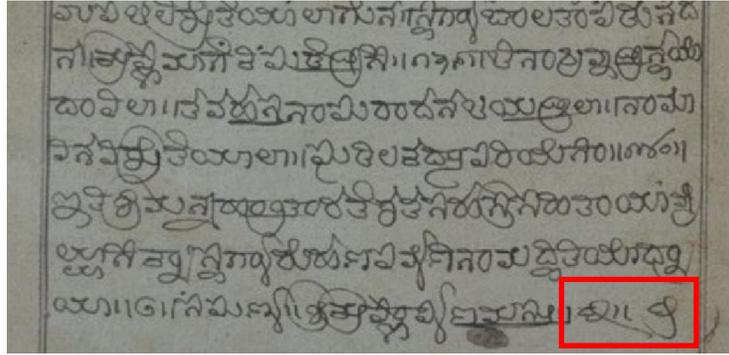
- Remove the term vaidika pushpika from Code chart.
- In Script Extensions extend the use of DEVANAGARI SIGN PUSHPIKA to Kannada and Newa. Currently Tigalari and Nandinagari are not encoded. Add these to Script Extensions after their encoding.



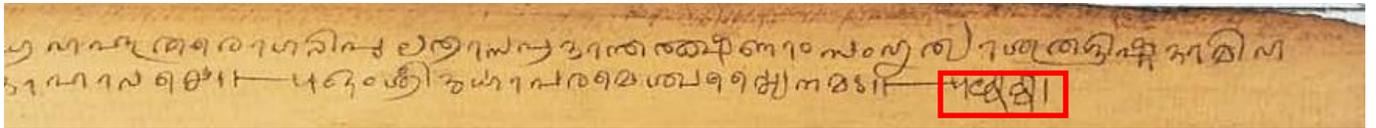
Use of Pushpika in Classical Sanskrit texts of Devanagari.



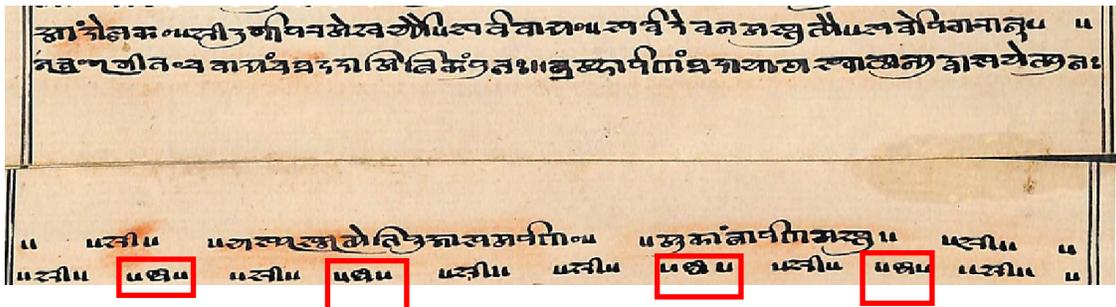
Pushpika in Newa script (from Figure 41 of L2/12-003).



Pushpika in Kannada script.



Pushpika in Tigalari.



Pushpika in Nandinagari.

1.2 A8FA DEVANAGARI CARET

This editorial mark occurs in majority of Indian scripts and languages. This isn't a Vedic specific sign.

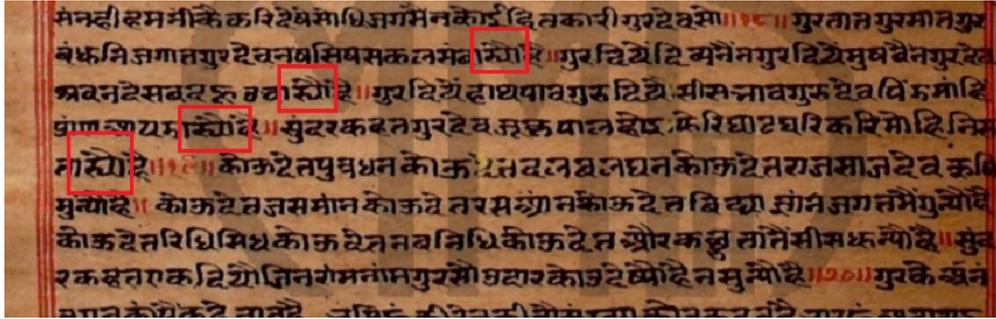
Action Requested: Remove the term vaidika from Code chart.

1.3 Representation of *rya* in North Indian languages.

In Devanagari orthography of North Indian languages like Braj Bhasha, Rajasthani, Malvi etc have special rendering of Rya. Post-base form of ya is preferred over repha. This is exemplified in Braj Bhasha reader of Rupert Snell.

- (c) Conjuncts of *r* with *y*, common in perf. ptc. from verb roots in *-r*, are written not with a superscript *repha* but with a modified य, appearing in the printed text as e.g. करचौ.

Examples of such forms are given below



सब तजि भजिए नंदकुमार ।
 और भजे तैं काम सरै नहिं, मिटै न भव जंजार ॥
 जिहिं जिहिं जोनि जन्म धरचौ बहु जोरचौ अघ कौ भार ।
 तिहिं काटन कौं समरथ हरि कौ तीछन नाम कुठार ॥
 बेद परान भागवत गीता सब कौ यह मत सार ।

BRAJ BHĀKHĀ.

(DISTRICT, BULANSHAHAR.)

एक आदमी-को दो लड़के है । छोटे-ने कही बापू हमारा हिस्सा हमें दे-दे । उस-ने अपना हिस्सा वा-को बाँट-देओ । छोटे थोरे-ही दिन-में अपना माल जमा परदेस-को ले-के चलो गयो । वहाँ सब लुंगाड़पने-में बरबाद कछो । जब सब बरबाद कर चुक्यो वा देस-में जबरा अकाल पछो । वा भूखो कांगाल हो-गयो । वा एक कोई-के नौकर हो-गयो । वा-ने सुअरन चुगाने-पे नौकर कर-दियो । जब वा-को कोई कुछ दे-नाई तो वो जो सुअर चरे-हे खोकटा वा-से पेट भरे-हे ॥

In order to represent both forms in plain text U+200D zero width joiner is to be placed immediately after the ra to obtain the ya-phalaa. The repha form is rendered when no ZWJ is present as shown in the following example. Similar methods are adopted in Bengali and Kannada which have repha.

र ra + ् virama + य ya → र्य

र ra + ् virama + ZWJ + य → र्य

र ra + ZWJ + ् virama + य → र्य

Action Requested: Mention the representation of rya with and without repha and their approach to render correctly in Devanagari chapter of Core Specification.

1.4 U+0904 ऐ DEVANAGARI LETTER SHORT A

As noted in L2/09-321 there isn't any information regarding the phonetic value and usage of the character. The character is used to denote short e similar to ओ ओ औ where the signs are graphically composed of ऐ and the respective vowel sign. The character is used in many sources such as Hindi translations along with Devanagari transliteration of Literature of Kannada, Telugu, Tamil, Malayalam and Kashmiri languages published by Bhuvan Vani Trust, Lucknow.

इत्तु ऐम् अळित्तनर्-आज हमको बचा चुके; ऐम्नुम् एम्पलाल्
अळुन्तु तुळ्ळिनार्-उठे और उछले; नत्त्रि कौळ्-कृतज्ञता-प्रित

ऐ in Kamba Ramayana of Tamil.

तेलुगु-देवनागरी वर्णमाला				
అ	ఆ	ఇ	ఈ	ఉ
క	కా	కి	కీ	కు
ఊ	ఊ	ఋ	ౠ	ౡ
ఎ	ఎ	ఐ	ఓ	ఔ
కే	కే	కై	కొ	కౌ

ऐसगु मोबंधु संधिल्ल निण्टमैन,
रसिक मृदुलान्न मथि वारणलु सेसि
मंजुलासव रसपान मत्तुलगुषु,
गणगि यन्योन्य हास्य वादयमल गलगि ॥

ऐ in Telugu śrī pōtana mahābhāgavatamu.

It is also used in recent books containing Awadhi language to indicate short e.

ऐहि विधि बीते बरष षट सहस बारि आहार ।
संबत सप्त सहस्र पुनि रहे समीर अधार ॥
बरष सहस दश त्यागेउ सोऊ । ठाढ़े रहे एक पद दोऊ ॥

(मा. १.१४४, १४५.१)

ऐ in Śrīrāmacaritamānasa-kathā mānasamēm tīsa kathāē (containing Awadhi) by Svāmī Rāmabhadrācārya (2017).

Action Requested: Annotate in Code chart denoting the usage for short e.

1.5 Tibetan in Devanagari

In Himalayan regions like Nepal, Tibetan language is infrequently written Devanagari. The following characters are employed. The manuscript is from EAP676/3/6.

OF04 ཨ TIBETAN MARK INITIAL YIG MGO MDUN MA

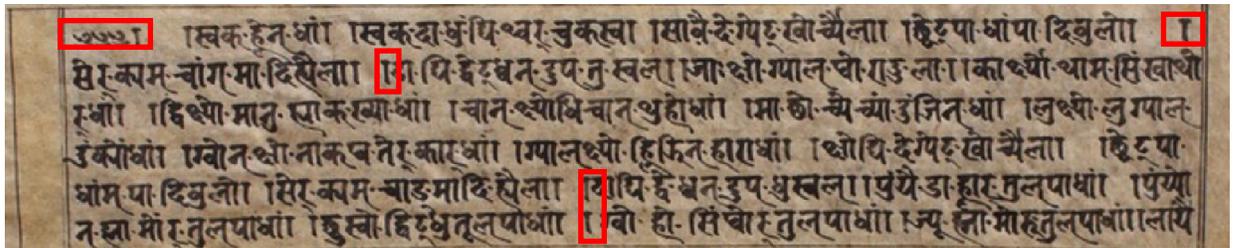
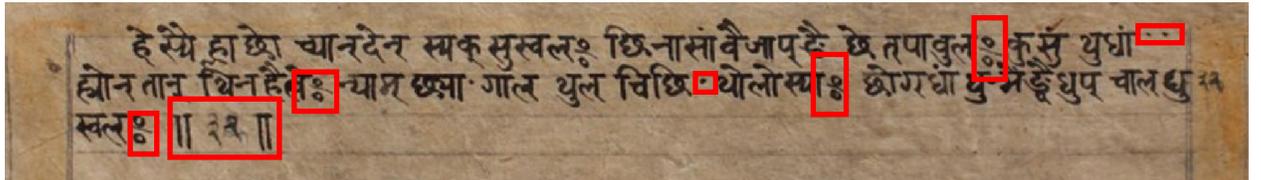
OF05 ཨ TIBETAN MARK CLOSING YIG MGO SGAB MA

OF0B ཨ TIBETAN MARK INTERSYLLABIC TSHEG

OF0D ཨ TIBETAN MARK SHAD

OF0E ཨ TIBETAN MARK NYIS SHAD

OF14 ཨ TIBETAN MARK GTER TSHEG



Action Requested: Extend the use of above mentioned Tibetan characters to Devanagari in script extensions.

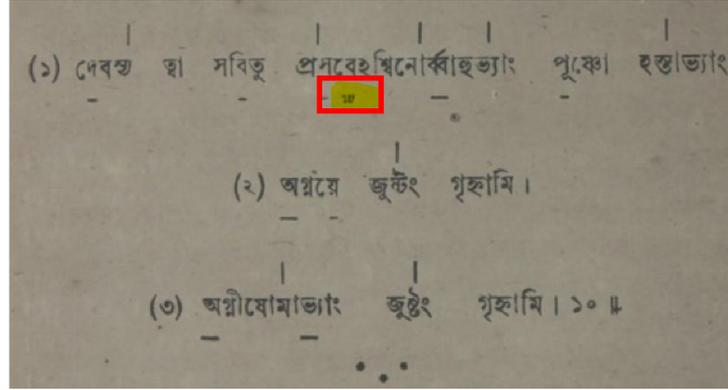
Action Requested: Change the kind of writing system from abugida to alphabetic in Chapters 6.1, 15.14 and elsewhere. Update the section Encoding Structure of chapter 15.14 appropriately.

4 Vedic Extensions

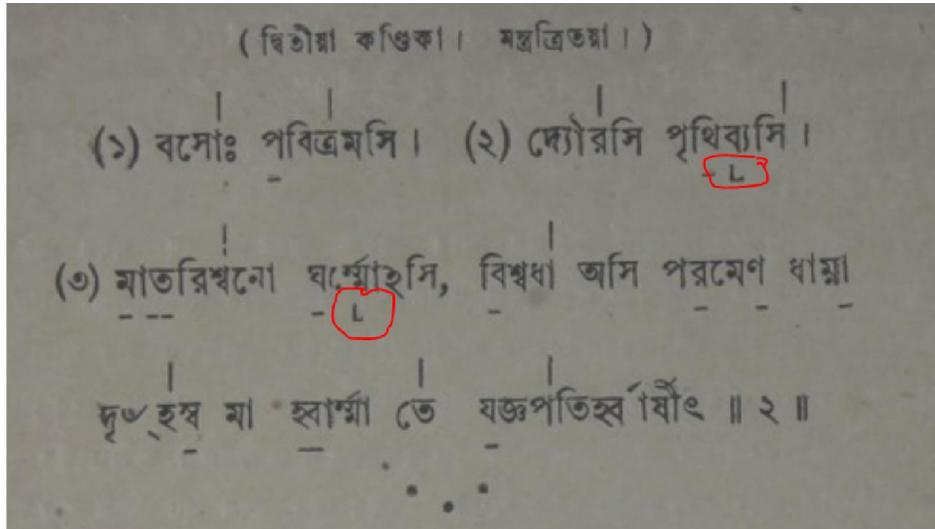
4.1 Veda in Bengali

The following Vedic characters- 1CD5, 1CD6, 1CD8, 1CE1, 1CD0, 1CD2, 1CEA and 1CED should be extended for Bengali script.

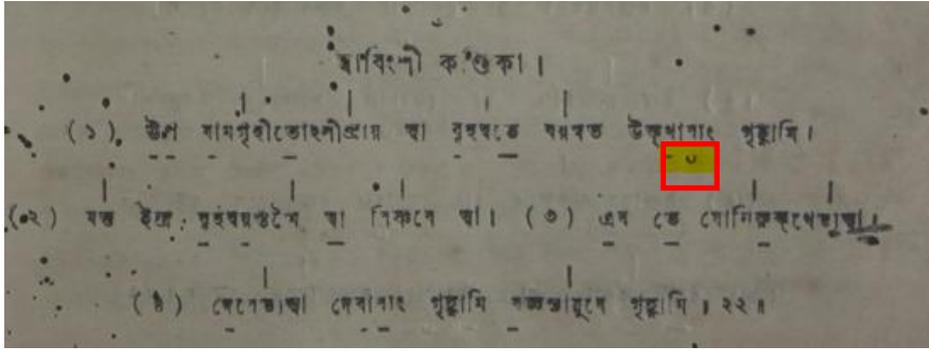
4.1.1 Shukla-yajurvedic characters



Attestation for 1CD5 VEDIC TONE YAJURVEDIC AGGRAVATED INDEPENDENT SVARITA



Attestation for 1CD6 VEDIC TONE YAJURVEDIC INDEPENDENT SVARITA



Attestation for 1CD8 VEDIC TONE CANDRA BELOW

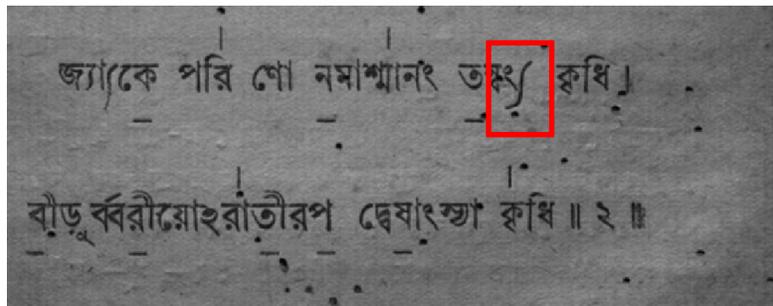
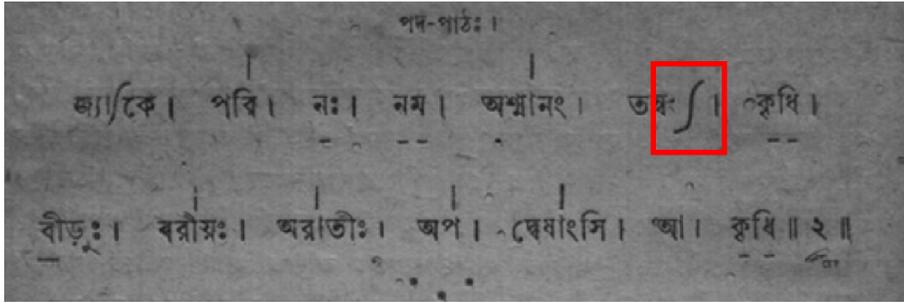
Here latin w,L are used due to lack of proper glyphs.

Source:

http://eap.bl.uk/database/overview_item.a4d?catId=187010;r=31647

http://eap.bl.uk/database/overview_item.a4d?catId=187012;r=13093

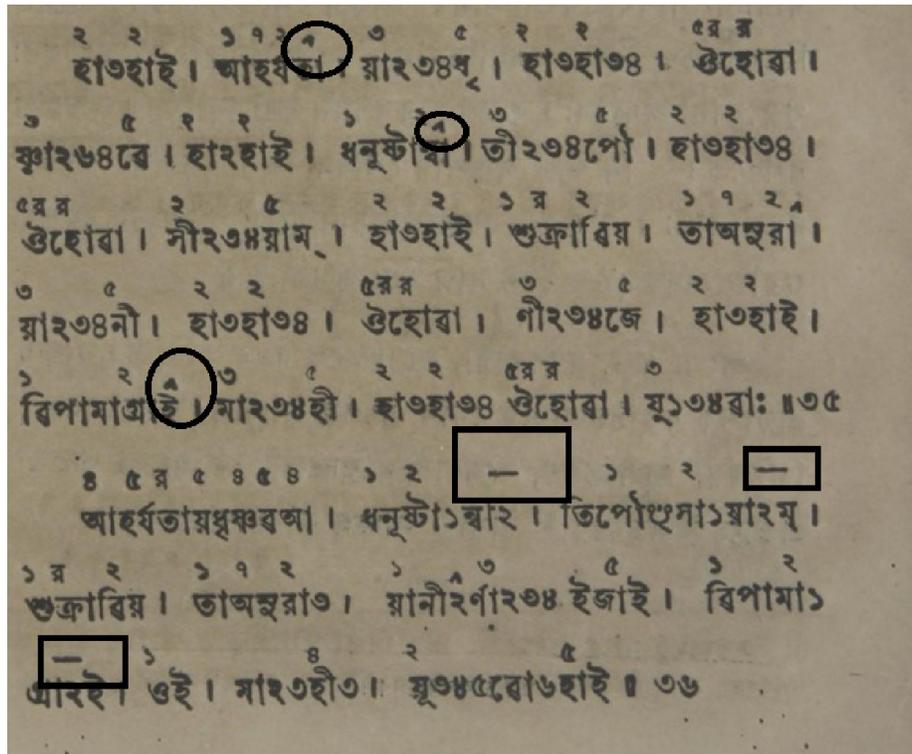
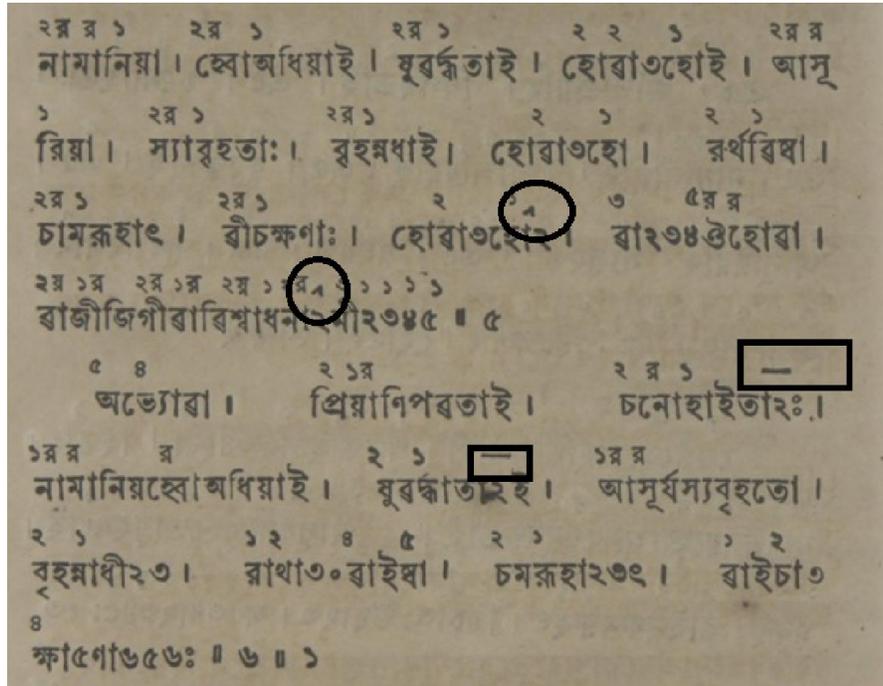
4.1.2 Atharvavedic character



Attestation for 1CE1 VEDIC TONE ATHARVAVEDIC INDEPENDENT SVARITA

Source: http://eap.bl.uk/database/overview_item.a4d?catId=186923;r=17465

4.1.3 Samavedic characters in Bengali

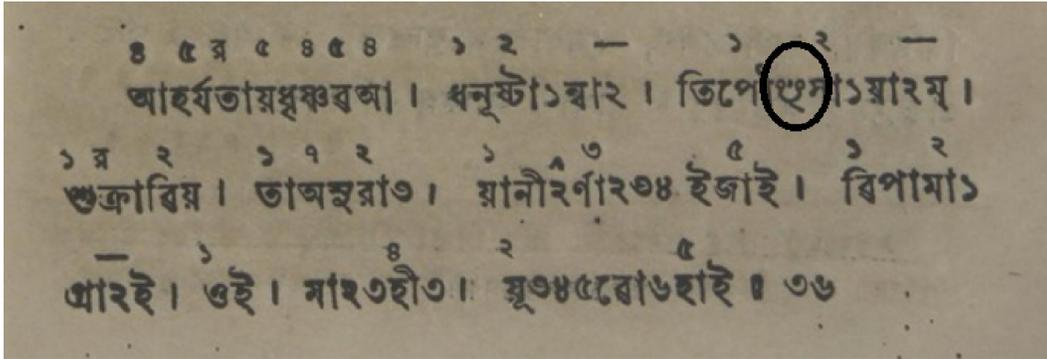
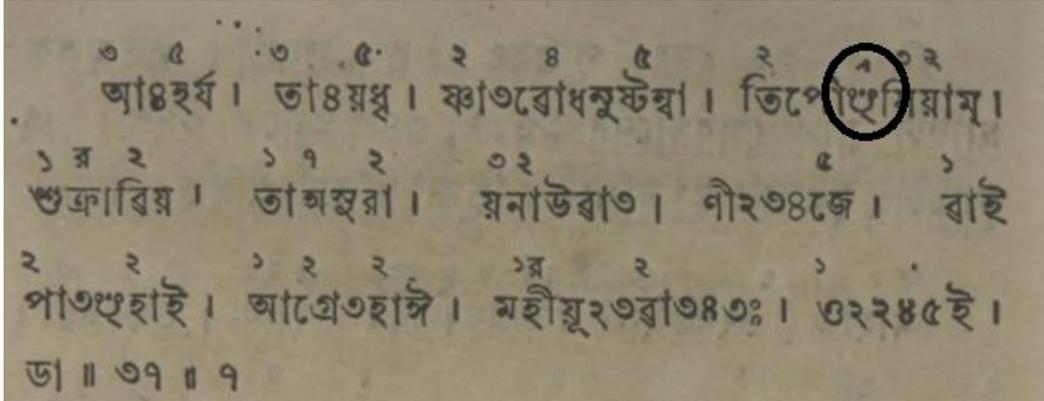


Attestations for 1CD0 and 1CD2

No attestation is provided for 1CD1 VEDIC TONE SHARA which indicates *dīpta śruti*, since *dīpta śruti* is indicated by VEDIC TONE ATHARVAVEDIC INDEPENDENT SVARITA (see [L2/15-164](#))

Source: http://eap.bl.uk/database/overview_item.a4d?catId=187038;r=21411

4.1.4 Vedic Anusvara



Attestations for 1CEA and 1CED

Source: http://eap.bl.uk/database/overview_item.a4d?catId=187038;r=21411

4.2 Veda in Tirhuta

The use of 0951 DEVANAGARI STRESS SIGN UDATTA and 0952 DEVANAGARI STRESS SIGN ANUDATTA should be extended to Tirhuta.

4.6 VEDIC SIGN NIHSHVASA

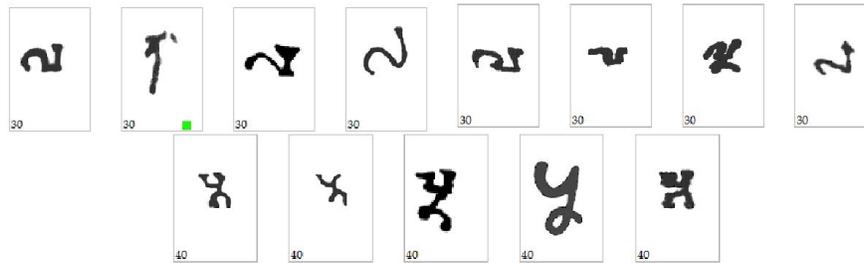
Section 4.5 of L2/09-372 and L2/09-298 informs U+1CD3 separates sections between which a pause is disallowed. The annotation in the code chart has been corrected as suggested in L2/09-372, but explanation in section 12.1 pg. 465 of the core specification “U+1CD3 VEDIC SIGN NIHSHVASA indicates where a breath may be taken.” is misleading. This should be corrected to “Separates sections of Sama Vedic singing between which a pause is disallowed” as in the code chart.

5 Brahmi

This is about minor glyph changes in Brahmi digits 30 and 40. Like other letters headstroke in 30 appears in later stages of Brahmi. Earliest sources do not have the headstroke. The earliest sources of 40 have symmetrical form. Similar shape is employed in Segoe UI Historic font as ୪.

1105D 𑀓 BRAHMI NUMBER THIRTY
1105E 𑀔 BRAHMI NUMBER FORTY
Current glyphs

1105D- 𑀓 1105E- 𑀔
Proposed glyphs



Earliest examples of 30 and 40 (from Indoskript project).



30 and 40 in Brahmi.

Current glyph of 30 with headstroke is found from 2-3 century CE
(from Indian Paleography of Bühler).

Action Requested: Change the glyphs of 1105D and 1105E to match their earliest sources.