Proposal to encode the TAKRI SIGN CANDRABINDU

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June 20, 2020

1 Introduction

This document requests to encode the Candrabindu used in Takri script. The details regarding glyph, code point and character name are mentioned below.



2 Description

In Indic scripts Candrabindu indicates the nasalization of the vowel or the semi vowel. Candrabindu is attested in several Takri records like manuscripts, inscriptions and primers. The behavior and properties of Candrabindu is similar to Candrabindus found in other Indic scripts like Sharada. In Takri it primarily occurs in sacred sound Om. In Indic scripts Om is written as a combination of o + candrabindu or anusvara or m. Hence we propose to encode Candrabindu in Takri.

3 Character properties

- Unicode character data:
 - 116BA;TAKRI SIGN CANDRABINDU;Mn;0;NSM;;;;;N;;;;;
- Linebreak = CM
- Indic_Syllabic_Category=Bindu
- Indic_Positional_Category=Top

4 References

[1] Leitner, Gottlieb William. A Collection of Specimens of Commercial and Other Alphabets and Handwritings as also of Multiplication Tables Current in Various Parts of the Panjab, Sind and the North West Provinces. 'Anjuman-i-Punjab'Press, 1883.

[2] Kaul Deambi, B. K. Śāradā and Ṭakarī alphabets: origin and development/Bhushan Kumar Kaul Deambi; foreword by Walter Slaje; table redrawn through computer graphics by Prakash Pandey. Indira Gandhi National Centre for the Arts and DK Printworld, 2008.

[3] Chhabra, B. Ch. "Antiquities of Chamba State, Part II, Medieval and Later Inscriptions." *Memoirs of the Archaeological Survey of India. Government of India Press, New Delhi* (1957).

[4] A manuscript digitized by eGangotri.

https://archive.org/details/GuruMandaladiPujanVidhi1071GhaAlm5Shlf4SharadaTantra

[5] https://twitter.com/MandiKiJatra/status/1255066228072169473

मीपाभउईाकमीरिली रिमीर्भर रिमीर्ट मेंडर्वमीयलयीरमेर्रे म्बर्स्यीगमिरिर्सार्भंड 5अर्रमीड्यरार्स्भर्माण्डल्प्रान्ध्रीर्श्वम रिग्रहमंडअर्धिमर्वेडलंग्रद्रलल्द तगद हमर्ड उमर्र हमरेवार्भगीर्ड म गमीद्रधां भी समट कगर द रमदि y AGE IMP 5- DA प्रमि रमजगम हमयर्रिरदेलमट

Figure 1. A document in Takri script issued by Raja Zalim Sen of Mandi State in year 1833 CE. The Candrabindu is attested in the beginning in the word Om (from [5]).

Set No 1 I Numes of letters of the Thakari . Aprubet n Sha Om Kang a Dha Shu Ma 6 3 D La Ri Ri D Ē 4i Aa R **D** Dha Oha Mgan Ka G Ζ び Ta Vjan Crra cha 3 Ta 8 3 Nana Thu Dha Iha Da ょ 1 Phu Dha Pr Ba Na Da Bha Ra Lα Ma Kshii Bha Ba Sa Sa Hi

Figure 2. Use of Candrabindu in the letter Om. It also shows the inventory of Takri letters (from [1]).

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II. Thatar of Mandi

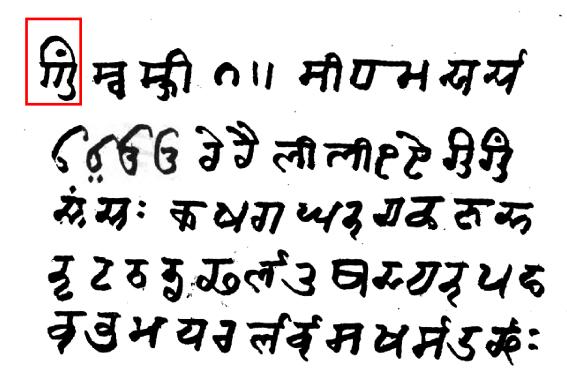


Figure 3. Use of Candrabindu in the letter Om. It also shows the inventory of letters in Takri variety of Mandi region, Himachal Pradesh (from [1]).

TABLE 8 (a) DEVĀŚEṢA - ȚĂKARĪ ALPHABET (17th - 18th Centuries)

| | 1 | 11 | 111 | IV | v | VI. | VII | VШ | IX | x |
|---------------------------|--|--|--|---|---|---|---|------------------------------|--|---------------|
| Characters in Roman | Chamba Plate of Balabhadra V.5. 1667 | Chamba Plate of Balabhadra V.S. 1692 | Mindhal Plate of Pythvisimha V.5. 1698 | Chamba Plate of Pythvisimha V.S. 1702 | Divkhari Plate of Prthytsinha V.S. 1718 | Lakşminäräyana Temple Plate of Šatrusinha | Lakşmînärêyaşa Temple Niche Inscription | Cabütră Stone Inscription | Treaty Between Rajasimha and Samsaracand | Modern Tākarī |
| а | य ु स्ट्र | 저 | স্বু স্ব | र्म | म्रु | চ্য | | 77 | ব্য | চ্চ |
| ā | | | | দ্ব | | | | | | ਲ |
| i | <i>\</i> : | <i>b</i> : | ;? | ركم | <i>~</i> ?? | っい | ٤٦ | | 6 | G |
| ī | | | | | | | | | | C |
| u | ন্য | ডা | ি | ୰ | ы | | | उ | G | G |
| ū | | | | | | | | | | в |
| e | 4 M | ЧИ | Р | | म | PZ | \mathbb{N} | Р | 2 | 2 |
| ai | | 戸 | | | ন | | | | | T |
| 0 | हा | ß | ব্য | Ŋ | | 13 | | | | র্ট্য |
| anu- nāsika | <u>.</u> | | \circ | $\hat{}$ | ۰ | | | | | |
| k | ゆゆめ | ゆむ | Φ | Ð | 4 b | ক | ₽ | \$ \$ | Ж | ን |
| kh | 79 | | Щ | দ্দ | | ाप | | | Ä | र्भ |
| g | ব্য | ৰা | ਗ | म | ৰা | J 7 | 1 7 | 41 | Ħ | តា |
| gh | щ | щ | щ | - | ખ | | | | Ś | m |

Figure 4. Use of Candrabindu (it is referred as anunāsika here) in various Devāšeṣa Ṭākarī inscriptions. Most of these inscriptions are from Chamba region of Himachal Pradesh (from [2]).

B.-LAKSHMI-NARAYANA TEMPLE PLATE OF BALABHADRA; V. S. 1697. ないらたけたけにないといいですい FALL F 户长1:至12至121上··· ana - 4

Figure 5. A copper plate inscription belonging to Lakshmi Narayana Temple, Chamba. The initial portion is in Sanskrit language and rest of the portion is in the regional Chambyali language. It is dated Vikrama Samvat 1697 which corresponds to 1641 CE. The Candrabindu is attested in the beginning in the word Om (from [3]).

PLATE XXX. A.-LAKSHMI-NARAYANA TEMPLE PLATE OF SATRUSIMHA; V. S. 1734. лчх

Figure 6. A copper plate inscription belonging to Lakshmi Narayana Temple, Chamba. The language is partly in Sanskrit and partly in regional Chambyali. It is dated Vikrama Samvat 1734 which corresponds to 1678 CE. The Candrabindu is attested in the beginning in the word Om (from [3]).

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Figure 7. The Candrabindu is attested in the word Om. The way of writing Om is similar to way written in inscriptions. The language is the manuscript is Sanskrit (from [4]).

ISO/IEC JTC 1/SC 2/WG 2 PROPOSAL SUMMARY FORM TO ACCOMPANY SUBMISSIONS FOR ADDITIONS TO THE REPERTOIRE OF ISO/IEC 10646¹. Please fill all the sections A, B and C below. Please read Principles and Procedures Document (P & P) from .<u>http://std.dkuug.dk/JTC1/SC2/WG2/docs/principles.html</u>. for guidelines and details before filling this form. Please ensure you are using the latest Form from .<u>http://std.dkuug.dk/JTC1/SC2/WG2/docs/summaryform.html</u>. See also .<u>http://std.dkuug.dk/JTC1/SC2/WG2/docs/roadmaps.html</u>. for latest *Roadmaps*.

A. Administrative

| 1. Title: | Pro | Proposal to encode the TAKRI SIGN CANDRABINDU | | | | |
|--|---------------------------|---|-------------------------|-----|--|--|
| | | | | | | |
| 2. Requester's name: | Srinidhi A and Sridatta A | | | | | |
| 3. Requester type (Member body/Liaison/Individual contribution): | | | Individual Contribution | | | |
| 4. Submission date: | | | June 20, 2020 | | | |
| 5. Requester's reference | (if applicable): | | | | | |
| 6. Choose one of the following: | | | | | | |
| This is a comple | te proposal: | | | Yes | | |
| (or) More inforr | nation will be provided | later: | | | | |
| | | | | | | |

B. Technical – General

| 1. Choose one of the following: | | | | | |
|---|-------|---|--|--|--|
| a. This proposal is for a new script (set of cha | | | | | |
| Proposed name of script: | | | | | |
| b. The proposal is for addition of character(s) | Yes | | | | |
| Name of the existing block: | Takri | | | | |
| 2. Number of characters in proposal: | | 1 | | | |
| 3. Proposed category (select one from below - see section 2.2 of P&P document): | | | | | |

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

| A-Contemporary | | B.1-Specialized (small of | collection) | | B.2-Specialized (large collect | ction) | Х | |
|--|--|----------------------------|--------------------|----------|--------------------------------|---------------|-----|--|
| C-Major extinct | | D-Attested extinct | | | E-Minor extinct | | | |
| F-Archaic Hieroglyphic or Ideographic G-Obscure or questionable usage symbols | | | | | | | | |
| 4. Is a repertoire includi | 4. Is a repertoire including character names provided? Yes | | | | | | | |
| a. If YES, are the names in accordance with the "character naming guidelines" | | | | | | | | |
| in Annex L | of P8 | P document? | | | | Ye | ?S | |
| b. Are the character shapes attached in a legible form suitable for review? | | | | | | Ye | Yes | |
| 5. Fonts related: | | | | | | | | |
| a. Who will provid | le the | appropriate computeriz | zed font to the Pi | roject E | ditor of 10646 for publishing | the standar | ·d? | |
| | Sej | parate font is not necess | ary. Candrabindı | ı of Not | o Sans Sharada can be used. | | | |
| b. Identify the par | ty gra | anting a license for use o | of the font by the | editors | (include address, e-mail, ftp | -site, etc.): | | |
| | | | NA | | | | | |
| 6. References: | | | | | | | | |
| a. Are references | (to ot | her character sets, dictio | onaries, descripti | ve texts | s etc.) provided? | Yes | | |
| b. Are published e | examp | les of use (such as samp | oles from newspa | ipers, m | hagazines, or other sources) | | | |
| of proposed characters attached? Yes | | | | | | | | |
| 7. Special encoding issue | es: | | | | | | | |
| 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 | | | | | | Yes | | |
| Yes; see proposal for additional details. | | | | | | | | |
| 8. Additional Informatio | n: | | | | | | | |
| 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 . <u>http://www.unicode.org</u> for such information on other scripts. Also see Unicode Character Database (http://www.unicode.org/reports/tr44/) and associated Unicode Technical Reports for information needed for consideration by the Unicode Technical Committee for inclusion in the Unicode Standard. | | | | | | | | |

C. Technical - Justification

| 1. Has this proposal for addition of character(s) been submitted before? | No | | | | | |
|---|--|--|--|--|--|--|
| If YES explain | | | | | | |
| 2. Has contact been made to members of the user community (for example: | National Body, | | | | | |
| user groups of the script or characters, other experts, etc.)? | No | | | | | |
| If YES, with whom? | | | | | | |
| If YES, available relevant documents: | | | | | | |
| 3. Information on the user community for the proposed characters (for exam | nple: | | | | | |
| | | | | | | |
| size, demographics, information technology use, or publishing use) is i | | | | | | |
| Reference: Takri script is not in active use. Informat | tion of User community is not available. | | | | | |
| 4. The context of use for the proposed characters (type of use; common or ra | rare) common | | | | | |
| Reference: See the text | of proposal | | | | | |
| 5. Are the proposed characters in current use by the user community? | No | | | | | |
| If YES, where? Reference: | | | | | | |
| 6. After giving due considerations to the principles in the P&P document must the proposed characters be entirely | | | | | | |
| in the BMP? | NA | | | | | |
| If YES, is a rationale provided? | | | | | | |
| If YES, reference: | | | | | | |
| | | | | | | |
| 7. Should the proposed characters be kept together in a contiguous range (ra | ather than being scattered)? NA | | | | | |
| 8. Can any of the proposed characters be considered a presentation form of | an existing | | | | | |
| character or character sequence? | No | | | | | |
| If YES, is a rationale for its inclusion provided? | | | | | | |
| If YES, reference: | | | | | | |
| 9. Can any of the proposed characters be encoded using a composed charact | ter sequence of either | | | | | |
| existing characters or other proposed characters? | No | | | | | |
| If YES, is a rationale for its inclusion provided? | | | | | | |
| | | | | | | |
| If YES, reference: | | | | | | |

| 10. Can any of the proposed character(s) be | considered to be similar (in appearance or function) | |
|--|---|-----|
| to, or could be confused with, an exist | Yes | |
| If YES, is a rationale for its in | Yes | |
| If YES, reference: | of proposal for | |
| 11. Does the proposal include use of combin | ing characters and/or use of composite sequences? | Yes |
| If YES, is a rationale for such use provi | ded? | Yes |
| If YES, reference: | See the text of proposal | |
| Is a list of composite sequences and the | neir corresponding glyph images (graphic symbols) provided? | NA |
| If YES, reference: | | |
| 12. Does the proposal contain characters wit | th any special properties such as | |
| control function or similar semantics? | | No |
| If YES, describe in detail (inc | lude attachment if necessary) | |
| | | |
| | | |
| 13. Does the proposal contain any Ideograph | nic compatibility characters? | No |
| If YES, are the equivalent corresponding | ng unified ideographic characters identified? | |
| If YES, reference: | | |
| | | |