2005-08-09

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

Doc Type: Working Group Document

Title: Final revised proposal to encode the Saurashtra script in the UCS Source: Michael Everson and Jeyakumar Chinnakkonda Krishnamoorty

Status: Individual Contribution

Date: 2005-08-09

Introduction

Saurashtra is an Indo-European language, related to Gujarati and spoken by about 310,000 people (1997 India Missions Association) in southern India, mostly in the area around Madurai, Salem, and Thanjavur cities. The SIL *Ethnologue* describes it as "an Indo-European island surrouded by Dravidian languages". Since the end of the 19th century the Telugu, Tamil, Devanagari, and Saurashtra scripts have been used to publish books in Saurashtra. At present, the Tamil script is most commonly used to write Saurashtra, augmented with the use of superscript digits and a colon to indicate sounds not available in the Tamil script.

The Saurashtra script is of the Brahmic type; its modern version was developed in the late 1800s. Like Tamil, Saurashtra does not make use of complex consonant clusters, preferring instead to mark the killed vowel with a visible subscript virama. An exception to this is the conjunct $\bigotimes k \circ a$, which is formed of KA + VIRAMA + SSA in this encoding, and which is sorted as a unique letter in older dictionaries. Early Saurashtra text makes use of additional conjuncts, which can be handled with the usual Brahmic shaping rules. So although, apart from $k \circ a$, the virama is always visible in modern Saurashtra, it is best to encode modern Saurashtra with ZERO WIDTH NON-JOINER making the virama visible, rather than to consider it a general visible mark. This supports both older and newer Saurashtra text. Input methods may make it easy to type both the VIRAMA and the ZWNJ with a single keystroke.

Collating order

The usual Sanskrit ordering applies to Saurashtra: A AA I II U UU RU RUU LU LUU E EE AI O OO AU AM AH KA KHA GA GHA NGA CA CHA JA JHA NYA TTA TTHA DDA DDHA NNA TA THA DA DHA NA PA PHA BA BHA MA YA RA LA VA SHA SSA SA HA LLA KSSA

Glyph placement

The vowel signs in Saurashtra follow the consonant to which they are applied. The vowels -i and $-\bar{\imath}$, however, are typographically joined to the top right corner of their consonant. Examples: $\Re ka + \hat{\imath} - i = \Re ki \pmod{\Re}$, $\Re ka + \hat{\imath} - \bar{\imath} = \Re k\bar{\imath} \pmod{\Re}$, and $\Im ka + \hat{\imath} - i = \Im k\bar{\imath} \pmod{\Re}$.

Punctuation and digits

In the samples viewed at present, European COMMA, FULL STOP, and QUESTION MARK are used, most commonly. Both SAURASHTRA DANDA and SAURASHTRA DOUBLE DANDA are used in poetry; SAURASHTRA DANDA is also used in prose. Digits have distinctive forms.

Saurashtra upakshara

A letter \(\mathbb{q} \) called UPAKSHARA is unique to Saurashtra, and does not have an equivalent in the Devanagari, Tamil, or Telugu scripts. It functions like the Tamil aytam, in that is used to modify other letters to represent sounds not found in the basic Brahmic alphabet. In a chart from Bashabhimāni, four Saurashtra letters are shown in combination with this unidentified letter, which we transliterate H here: 🎵 ாஹ் rH, 🤼 ல்ஹ் lH, ஜி ம்ஹ் mH, பி ந்ஹ் nH. In this chart, the visible VIRAMA is used after the liquids and nasals and before the UPAKSHARA (and the Tamil letters are shown with the TAMIL SIGN VIRAMA) as reproduced here; but in running text the visible virama is not shown. The related language Marathi also has aspirated liquids and nasal such as these, which are shown as conjuncts with ha: न्ह rha, ल्ह lha, म्ह mha, न्ह nha. Saurashtra UPAKSHARA functions as an independent letter, killing the inherent vowel of the letter to which it is applied; it also takes the dependent vowel when used. In the publication *Padarthun*, the words **GYTG** *nHāna* and **GYG** *nHīna* are transliterated into Tamil-based orthography as நா:ந nā:na and நீ:ந nī:na. ଅчয়ুয় mнor and በዛርርና nнannŏ are transliterated as மோ:ர் *mo:r* and ந:ந்நொ *na:nnŏ*. The colon-like mark is used also in Tamil transliterations of this letter in Bhāṣābhimāni, where எடிவி நிருமாகக் is written நீத்தக் nī:ttak. This colon-like mark is not encoded in the Tamil block, and the exact meaning of either it or the Saurashtra letter is uncertain. Another example of a word written with the UPAKSHARA is GUGTY nHīnāv (note again there is no visible VIRAMA drawn under the first letter). The Tamil transliteration given is நி:நாவ் *nHināv*, apparently with the wrong vowel in the first syllable, and with the (as yet unencoded for Tamil) colon. The Tamil translation given is വழ്രക്കെ vazakkai 'bald'. The Hindi word for this is given (in Tamil script!) as கீதோ $ka^3 \tilde{n} j \bar{a}$, i.e., $ga \tilde{n} j \bar{a}$ 'bald'. In L2/03-256 Daniel Kai has suggested that the aspirates be encoded as digraphs, but this is unnecessary. Often considerable space can be seen between the liquid or nasal and the UPAKSHARA.

In 2003, Peri Bhaskarararao suggested that the UPAKSHARA could be analyzed as a combining form of HA. No additional information in support of that position has been provided to overturn the analysis we have given above. Compare again Saurashtra 双中rh, with its Tamil transliteration 市前 rh shown above. For Saurashtra were exactly equivalent to that, we would see 双 rh. The equivalent Devanagari sequence would be रह rh with two viramas; all three of these would be encoded RA + VIRAMA + ZWNJ + HA + VIRAMA + ZWNJ. For 双中 to be equivalent to Devanagari ई or 元, it would have to be encoded RA + VIRAMA + ZWNJ + VIRAMA + HA + VIRAMA + ZWNJ. Accordingly, now, in 2005, we reiterate our proposal for UPAKSHARA to be encoded as a unique Saurashtran character.

Glyph variants

The shape of the vowel signs for -l and -l is noteworthy. In one teaching book it appears that full-size glyphs are used, with a tilde beneath marking the long vowel: $\mathbf{N}\mathbf{0}$ kl, $\mathbf{N}\mathbf{0}$ $k\bar{l}$ (compare $\mathbf{N}\mathbf{S}$ $k\bar{r}$ and $\mathbf{N}\mathbf{S}$ $k\bar{r}$). In earlier sources, however, the glyph for -l is reduced, and length is marked with $-\bar{a}$; the Sangudhari font supports this practice: $\mathbf{N}\mathbf{0}$ kl, $\mathbf{N}\mathbf{0}$ $\mathbf{7}$ $k\bar{l}$ (compare Sangudhari $\mathbf{N}\mathbf{S}$ $k\bar{r}$ and $\mathbf{N}\mathbf{S}$ $k\bar{r}$).

Implementations

There are a number TrueType implementations of the modern Saurashtra script in circulation on the internet. To date, no computer implementation of the older version of the script has been created. Previously, a letterpress was used to print *Bhashabimani* magazine. As printing technology advanced, the need for a Saurashtra script font was felt, and was created by local publishers. The *Suresh* font, designed by Suresh Thimma Ramdas, is used to print *Bhāṣābhimāni*.; a later corrected version of that font is *Kuber*, which is used here. (The name *Kuber* is derived from "Kubendiran", the name of the editor of this magazine.)

References

Norihiko Uchida, Language of the Saurashtrans in Tirupati. (In Latin script.)

Norihiko Uchida. *Saurashtra-English dictionary*. ISBN 3447030550. (In Latin script.) (Uchida is a Japanese scholar who went to Madurai to research Saurashtra. He did his research at Madurai Kamarajar University. The local language in Madurai is Tamil; in the course of his research, he learned Saurashtra well and is said to speak Saurashtra as well as a native Saurashtrian.)

சுப்ரமணியன், நீ தாடா. 2000. 🗗 ஜேர்ஜ்க்க் இரை உலவ்ராஷ்ட்ர பாட² மாலொ. மதுரை: ப்ரியா பதப்பகம் ப்ரியா டெக்னிகல் இன்ஸ்டிடியூட். [Śrī Tāṭā. Cupramaṇiyaṇ. 2000. Savrāṣṭra pātha mālo = Savrāṣṭra pāṭ²a mālo. Madurai: Priyā Patappakam Priyā Ṭekṇikal Inṣṭiṭiyuṭ]

ทานาที่ 217 กิ Bhāsābhimāni.

Unicode Character Properties

Rick McGowan provided the following text in L2/03-225.

The Saurashtra characters have properties similar to Devanagari and the other Indic scripts. Since Saurashtra uses no truly non-spacing marks, all of the combining classes are zero, with the exception of the virama. All of the letters are in the Letter other category, and have strong left-to-right directionality. The vowel signs all follow the consonants with which they are associated, and therefore are combining class zero as well, analogous to the Devanagari model. The virama has the same combining class (9) as other virama characters. The digits likewise are analogous to the Devanagari and other digits, with the same properties, including decimal digit values. The table below shows all of the properties defined in the UnicodeData.txt file.

```
AB80; SAURASHTRA SIGN ANUSVARA; Mc; 0; L;;;;; N;;;;;
AB81; SAURASHTRA SIGN VISARGA; Mc; 0; L;;;;; N;;;;;
AB82; SAURASHTRA LETTER A; Lo; 0; L;;;;; N;;;;
AB83; SAURASHTRA LETTER AA; Lo; 0; L;;;;; N;;;;
AB84; SAURASHTRA LETTER I; Lo; 0; L;;;;; N;;;;
AB85; SAURASHTRA LETTER II; Lo; 0; L;;;;; N;;;;
AB86; SAURASHTRA LETTER U; Lo; 0; L;;;;; N;;;;
AB87; SAURASHTRA LETTER UU; Lo; 0; L;;;;; N;;;;
AB88; SAURASHTRA LETTER VOCALIC R; Lo; 0; L;;;;; N;;;;
AB89; SAURASHTRA LETTER VOCALIC RR; Lo; 0; L;;;;; N;;;;
AB8A; SAURASHTRA LETTER VOCALIC L; Lo; 0; L;;;;; N;;;;
AB8B; SAURASHTRA LETTER VOCALIC LL; Lo; 0; L; ;; ;; N; ;; ;
AB8C; SAURASHTRA LETTER E; Lo; 0; L;;;;; N;;;;
AB8D; SAURASHTRA LETTER EE; Lo; 0; L;;;;; N;;;;
AB8E; SAURASHTRA LETTER AI; Lo; 0; L;;;;; N;;;;
AB8F; SAURASHTRA LETTER O; Lo; 0; L;;;;; N;;;;
AB90; SAURASHTRA LETTER OO; Lo; 0; L;;;;; N;;;;
AB91; SAURASHTRA LETTER AU; Lo; 0; L;;;;; N;;;;
AB92; SAURASHTRA LETTER KA; Lo; 0; L;;;;; N;;;;
AB93; SAURASHTRA LETTER KHA; Lo; 0; L;;;;; N;;;;
AB94; SAURASHTRA LETTER GA; Lo; 0; L;;;;; N;;;;
AB95; SAURASHTRA LETTER GHA; Lo; 0; L;;;;; N;;;;
AB96; SAURASHTRA LETTER NGA; Lo; 0; L;;;;; N;;;;
AB97; SAURASHTRA LETTER CA; Lo; 0; L;;;;; N;;;;
AB98; SAURASHTRA LETTER CHA; Lo; 0; L;;;;; N;;;;
AB99; SAURASHTRA LETTER JA; Lo; 0; L;;;;; N;;;;
AB9A; SAURASHTRA LETTER JHA; Lo; 0; L;;;;; N;;;;
AB9B; SAURASHTRA LETTER NYA; Lo; 0; L;;;;; N;;;;
AB9C; SAURASHTRA LETTER TTA; Lo; 0; L;;;;; N;;;;
AB9D; SAURASHTRA LETTER TTHA; Lo; 0; L;;;;; N;;;;
AB9E; SAURASHTRA LETTER DDA; Lo; 0; L;;;;; N;;;;
AB9F; SAURASHTRA LETTER DDHA; Lo; 0; L;;;;; N;;;;
ABAO; SAURASHTRA LETTER NNA; Lo; 0; L;;;;; N;;;;
ABA1; SAURASHTRA LETTER TA; Lo; 0; L;;;;; N;;;;
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ABA2; SAURASHTRA LETTER THA; Lo; 0; L;;;;; N;;;;
ABA3; SAURASHTRA LETTER DA; Lo; 0; L;;;;; N;;;;
ABA4; SAURASHTRA LETTER DHA; Lo; 0; L;;;;; N;;;;
ABA5; SAURASHTRA LETTER NA; Lo; 0; L; ;; ;; N; ;; ;
ABA6; SAURASHTRA LETTER PA; Lo; 0; L;;;;; N;;;;
ABA7; SAURASHTRA LETTER PHA; Lo; 0; L;;;;; N;;;;
ABA8; SAURASHTRA LETTER BA; Lo; 0; L; ;; ;; N; ;; ;
ABA9; SAURASHTRA LETTER BHA; Lo; 0; L;;;;; N;;;;
ABAA; SAURASHTRA LETTER MA; Lo; 0; L; ;; ;; N; ;; ;
ABAB; SAURASHTRA LETTER YA; Lo; 0; L;;;;; N;;;;
ABAC; SAURASHTRA LETTER RA; Lo; 0; L;;;;; N;;;;
ABAD; SAURASHTRA LETTER LA; Lo; 0; L;;;;; N;;;;
ABAE; SAURASHTRA LETTER VA; Lo; 0; L;;;;; N;;;;
ABAF; SAURASHTRA LETTER SHA; Lo; 0; L;;;;; N;;;;
ABBO; SAURASHTRA LETTER SSA; Lo; 0; L;;;;; N;;;;
ABB1; SAURASHTRA LETTER SA; Lo; 0; L;;;;; N;;;;
ABB2; SAURASHTRA LETTER HA; Lo; 0; L;;;;; N;;;;
ABB3; SAURASHTRA LETTER LLA; Lo; 0; L;;;;; N;;;;
ABB4; SAURASHTRA LETTER UPAKSHARA; Lo; 0; L;;;;; N;;;;
ABB5; SAURASHTRA VOWEL SIGN AA; Mc; 0; L;;;;; N;;;;;
ABB6; SAURASHTRA VOWEL SIGN I; Mc; 0; L; ;; ;; N; ;; ;;
ABB7; SAURASHTRA VOWEL SIGN II; Mc; 0; L;;;;; N;;;;;
ABB8; SAURASHTRA VOWEL SIGN U; Mc; 0; L;;;;; N;;;;;
ABB9; SAURASHTRA VOWEL SIGN UU; Mc; 0; L;;;;; N;;;;
ABBA; SAURASHTRA VOWEL SIGN VOCALIC R; Mc; 0; L;;;;; N;;;;
ABBB; SAURASHTRA VOWEL SIGN VOCALIC RR; Mc; 0; L;;;;; N;;;;;
ABBC; SAURASHTRA VOWEL SIGN VOCALIC L; Mc; 0; L; ;; ;; N; ;; ;;
ABBD; SAURASHTRA VOWEL SIGN VOCALIC LL; Mc; 0; L;;;;; N;;;;;
ABBE; SAURASHTRA VOWEL SIGN E; Mc; 0; L;;;;; N;;;;
ABBF; SAURASHTRA VOWEL SIGN EE; Mc; 0; L;;;;; N;;;;
ABCO; SAURASHTRA VOWEL SIGN AI; Mc; O; L;;;;; N;;;;;
ABC1; SAURASHTRA VOWEL SIGN O; Mc; 0; L;;;;; N;;;;
ABC2; SAURASHTRA VOWEL SIGN OO; Mc; 0; L;;;;; N;;;;;
ABC3; SAURASHTRA VOWEL SIGN AU; Mc; 0; L;;;;; N;;;;;
ABC4; SAURASHTRA SIGN VIRAMA; Mn; 9; NSM;;;;; N;;;;;
ABC5; SAURASHTRA DIGIT ZERO; Nd; 0; L;; 0; 0; 0; N;;;;;
ABC7; SAURASHTRA DIGIT ONE; Nd; 0; L; ; 1; 1; 1; N; ; ; ;
ABC8; SAURASHTRA DIGIT TWO; Nd; 0; L;; 2; 2; 2; N;;;;;
ABC9; SAURASHTRA DIGIT THREE; Nd; 0; L; ; 3; 3; 3; N; ; ; ; ;
ABCA; SAURASHTRA DIGIT FOUR; Nd; 0; L;; 4; 4; 4; N;;;;;
ABCB; SAURASHTRA DIGIT FIVE; Nd; 0; L;; 5; 5; 5; N;;;;;
ABCC; SAURASHTRA DIGIT SIX; Nd; 0; L; ; 6; 6; 6; N; ; ; ;
ABCD; SAURASHTRA DIGIT SEVEN; Nd; 0; L;; 7; 7; 7; N;;;;;
ABCE; SAURASHTRA DIGIT EIGHT; Nd; 0; L;; 8; 8; 8; N;;;;;
ABCF; SAURASHTRA DIGIT NINE; Nd; 0; L;; 9; 9; 9; N;;;;;
```

Figures

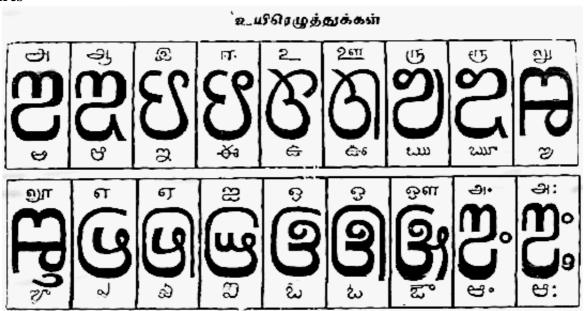


Figure 1. Saurashtra vowels, with equivalents in Tamil and Telugu scripts.

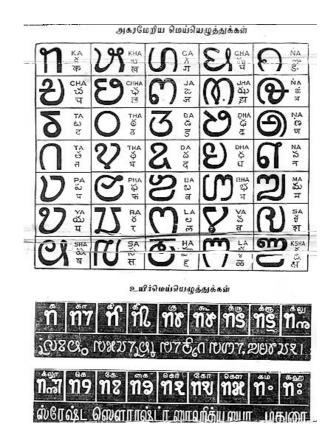


Figure 2. The text in the bottom half of this figure is given in Saurashtra and Tamil script; the Saurashtra appears to be in an early form of the script as it shows conjunct consonants. It is rendered here with modern orthography and transliteration:

டலக் மகுர்க் மக்கி மக்



Figure 3. Saurashtra letters, with equivalents in Tamil and Devanagari scripts.

AND ARCHARTA AND ARCHART AND ARCHARTAGO ARCH

Figure 4. Handwritten pamphlet showing the UPAKSHARA character. The word is **2021** calarhiya. The SAURASHTRA DANDA is used three times in the small text to the lower left.

தநுநு					
க 11 क	க்லூ 1100 -				
கா ११7 का	கெ 119 -				
क्री ኺ कि	கே 117 के				
ड भी की	கை 119 के				
ভ পাই ক	கொ 11 7 -				
ক্দ পার্চ কু	கோ ११२) को				
க் ரு ୩ S ஒ	கெள ி13 டுகி				
க்ரூ ಇട್ತ	கம் 910 क்				
க்லு 11 மு	கஹ 91 ; க:				

Figure 5. Saurashtra vowels, with equivalents in Tamil and Devanagari scripts.

ஸவ்ராஷ்ட்ர மாதா ருஜுரமூத்து ஜாரு

1. **60 60 104374353 21707** *७७ ७७ ७५७७*५५७ २७०७ 2. THE EXECUTION OF BYON wrvar nrow avo wxvietv wiai vare vous re use use all (**၁၈၈၈**) II ustusing exus uph usprasp blod 3. nryvyr oregorg roughout nothg enrur M orne uturusu mror alyone count as solutan welle as BOUCHUR STUS OFFI TRUITS I WILL (**೧**೪೧೪) II 1 ஜய ஜய ஸவ்ராஷ்ட்ர மாதா, ஜய ஜய ஸவ்ராஷ்ட்ர மாதா. ஸோவு தே³ஷுனுக் தூ ராணி மாதா ஸுரிது குலம் தி³யெ ஸவ்ராஷ்ட்ர மாதா. ஸோவு ஜெலும் க2டி³ தொகொ நமு மாதா லொந்தம்மு ப²ய்லொ தூஸ் ஸவ்ராஷ்ட்ர மாதா (ஜய ஜய) காவ்யமு பூ⁴ஷணுன் ஸஸர் ஸஸர் கெரிகின் 3 க⁴லுஸு மீ தொகொ ஸவ்ராஷ்ட்ர மாதா. ஜீவ்யமு லெக்கு யே, தெ⁴ய்ாியம் ஜு²க்கு ஸே ஜெக³துரு ப²ய்லொ தூஸ் ஸவ்ராஷ்ட்ர மாதா (ஜய ஜய)

Figure 6. Saurashtra poem with both SAURASHTRA DANDA and SAURASHTRA DANDA. A Tamil transliteration of the poem is shown below.

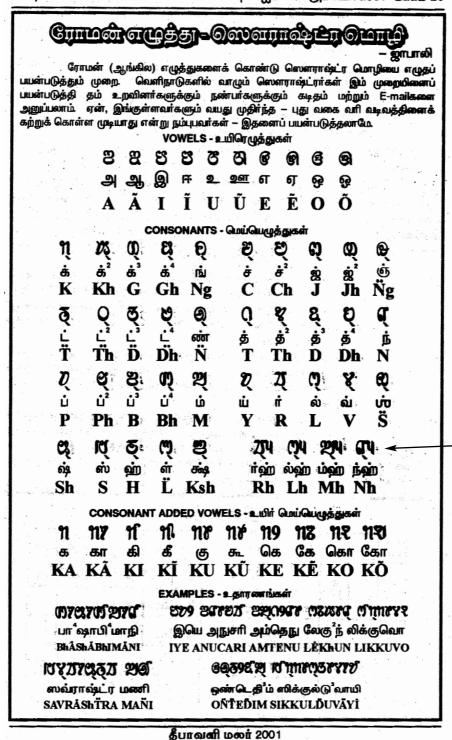


Figure 7. Saurashtra vowels, with equivalents in Tamil. The UPAKSHARA character is shown in combination with killed consonants, indicated with the arrow.



Figure 8. Saurashtra prose text. Note the use of SAURASHTRA DANDA.

Row A8: SAURASHTRA

	A88	A89	A8A	A8B	A8C	A8D
0	್	9	9	ಆ	ි 9	0
1	್	S	a	n	्र	9
2	ශ	n	¥		ুখ	5
3	ස	V S	a	ტ	ૠ	3
4	ಆ	Ø	೮	0	্	8
5	ಆ	ES	ត	୍ଷ		%
6	ප	9	v	៍		3
7	හ	ಶ	ග	ી		9
8	න	න	න	್		6)
9	ಖ	ខា	m	್		b
Α	e	Ø	21	్		
В	Ą	0	V	్ష		
С	8	o	IJ	ന		
D	ଡ	0	n	ൻ		
E	B	3	8	୍ର	ı	
F	3	2	ಉ	8	II	

G = 00 P = 00

Row A8: SAURASHTRA

hex	Name	hex	Name
A880 A881 A882 A883 A884 A885 A886 A887 A888 A888 A889 A888 A889 A888 A889 A888 A889 A888 A899 A891 A892 A893 A894 A895 A896 A897 A898 A899 A898 A899 A898 A899 A898 A888 A889 A888 A889 A888 A888 A888 A888 A888 A888 A888 A888 A888 A8888	SAURASHTRA SIGN ANUSVARA SAURASHTRA LETTER A SAURASHTRA LETTER A SAURASHTRA LETTER A SAURASHTRA LETTER I SAURASHTRA LETTER U SAURASHTRA LETTER U SAURASHTRA LETTER VOCALIC R SAURASHTRA LETTER VOCALIC L SAURASHTRA LETTER E SAURASHTRA LETTER O SAURASHTRA LETTER HA SAURASHTRA LETTER D SAURASHTRA LETTER THA SAURASHTRA LETTER THA SAURASHTRA LETTER D SAURASHTRA LETT	A8D9 A8DA A8DB A8DC A8DD A8DE A8DF	Name SAURASHTRA DIGIT NINE (This position shall not be used)

A. Administrative

1. Title

Final revised proposal to encode the Saurashtra script in the UCS.

2. Requester's name

Michael Everson.and Jeyakumar Chinnakkonda Krishnamoorty

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

Individual contribution.

4. Submission date

2005-08-08

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)

Yes.

Proposed name of script

Saurashtra.

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

Nο

1b. Name of the existing block

2. Number of characters in proposal

79

3. Proposed category (see section II, Character Categories)

Category A.

4a. Proposed Level of Implementation (1, 2 or 3) (see clause 14, ISO/IEC 10646-1: 2000)

Level 2.

4b. Is a rationale provided for the choice?

Yes.

4c. If YES, reference

Brahmic script with vowel signs.

5a. Is a repertoire including character names provided?

Yes

5b. If YES, are the names in accordance with the naming guidelines in Annex L of ISO/IEC 10646-1: 2000?

Yes

5c. Are the character shapes attached in a legible form suitable for review?

Yes.

6a. Who will provide the appropriate computerized font (ordered preference: True Type, or PostScript format) for publishing the standard?

Jeyakumar C. K. (www.palkar.org) & Michael Everson (Everson Typography). TrueType.

6b. If available now, identify source(s) for the font (include address, e-mail, ftp-site, etc.) and indicate the tools used:

Jeyakumar C. K. (www.palkar.org) & Michael Everson (Everson Typography). Fontographer.

7a. Are references (to other character sets, dictionaries, descriptive texts etc.) provided?

Yes.

7b. Are published examples of use (such as samples from newspapers, magazines, or other sources) of proposed characters attached?

Yes.

8. 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)?

9. 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.

See Unicode properties above.

C. Technical – Justification

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

Yes. See N2607.

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.)?

Yes

2b. If YES, with whom?

Mr Kubendiran, editor of **ตายาต**ิ **ยาต** *Bhāṣābhimāni*.

2c. If YES, available relevant documents

N/A.

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

Yes.

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

This character is used to write the Saurashtran language.

4b. Reference

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

Yes.

5b. If YES, where?

In Tamil Nadu, Andhra Pradesh, Gujarat states of India. A monthly magazine called Bhāṣābhimāni is published in Madurai, India.

6a. After giving due considerations to the principles in Principles and Procedures document (a WG 2 standing document) must the proposed characters be entirely in the BMP?

Vac

6b. If YES, is a rationale provided?

Yes.

6c. If YES, reference

Accordance with the Roadmap.

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

Yes

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?

Nο

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? N_{Ω}

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)?

Yes.

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

Yes.

11c. If YES, reference

Brahmic vowel signs.

12a. Is a list of composite sequences and their corresponding glyph images (graphic symbols) provided?

No

12b. If YES, reference

13a. Does the proposal contain characters with any special properties such as control function or similar semantics?

No.

13b. If YES, describe in detail (include attachment if necessary)

14a. Does the proposal contain any Ideographic compatibility character(s)?

No.

14b. If YES, is the equivalent corresponding unified ideographic character(s) identified?

14c. If YES, reference