

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 encode the Saurashtra script in the UCS  
**Source:** Jeyakumar Chinnakkonda Krishnamoorthy and Michael Everson  
**Status:** Expert Contribution  
**Date:** 2002-12-03

## **A. Administrative**

### **1. Title**

Proposal to encode the Saurashtra script in the UCS.

### **2. Requester's name**

Jeyakumar Chinnakkonda Krishnamoorthy and Michael Everson.

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

Individual contribution.

### **4. Submission date**

2002-12-03

### **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**

No.

#### **1b. Name of the existing block**

#### **2. Number of characters in proposal**

78.

#### **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 character 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](http://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](http://www.palkar.org)) & Michael Everson (Everson Typography). Fontographer.

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

Yes (see below).

**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)?**

No.

**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. 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 below for ordering and shaping behaviour.

## **C. Technical -- Justification**

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

No.

**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 *Bashabimāni*.

**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?**

See below.

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

Rare.

**4b. Reference**

See below.

**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 *Bashabimāni* 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?**

Not necessarily.

**6b. If YES, is a rationale provided?**

**6c. If YES, reference**

**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?**

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)?**

Yes.

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

No.

**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?**

Yes.

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

See below and attachment, which is a primary teaching book for the language.

**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**

## D. Proposal

### Introduction

Saurashtra is an Indo-European language, related to Gujarati and spoken by about 85,000 people in southern India, in the area around Madurai, Salem, and Thanjavur cities. The SIL *Ethnologue* describes it as “an Indo-European island surrounded 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 ூ *kṣa*, 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 *kṣa*, 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.

## 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 *-ī*, however, are typographically joined to the top right corner of their consonant. Examples:  $\text{𑌕 ka} + \text{𑌖} -i = \text{𑌕𑌖 ki}$ ,  $\text{𑌕 ka} + \text{𑌗} -ī = \text{𑌕𑌗 kī}$  and  $\text{𑌔 ṭa} + \text{𑌖} -i = \text{𑌔𑌖 ṭi}$ ,  $\text{𑌔 ṭa} + \text{𑌗} -ī = \text{𑌔𑌗 ṭī}$ .

## Punctuation and digits

In the samples viewed at present, European COMMA, FULL STOP, and QUESTION MARK are used, as well as the Devanagari DANDA and DOUBLE DANDA. Digits have distinctive forms in Saurashtra.

## Issues

Two fonts exist which contain an unidentified letter 𑌕 *?a*. One of them, *Sangudhari*, which includes precomposed glyphs for characters in *-i* and *-ī*, gives 𑌕𑌖 *?ī* as well. In the publication *Padārthṛn*, the words  $\text{𑌕𑌗𑌕 na?āna}$  and  $\text{𑌕𑌗𑌖 na?īna}$  are transliterated into Tamil-based orthography as  $\text{𑌕𑌗:𑌕 nā:na}$  and  $\text{𑌕𑌗:𑌕 nī:na}$ .  $\text{𑌕𑌗𑌕 ma?or}$  and  $\text{𑌕𑌗𑌖 na?annō}$  are transliterated as  $\text{𑌕𑌗𑌕:𑌕 mo:r}$  and  $\text{𑌕:𑌕𑌕𑌕 na:nnō}$ . The colon-like mark is used also in Tamil transliterations of this letter in *Bashabhimāni*, where  $\text{𑌕𑌗𑌕𑌕 na?ittak}$  is written  $\text{𑌕𑌗:𑌕𑌕𑌕 nī:ttak}$ . This colon-like mark is not encoded in the Tamil block, and the exact meaning of either it or the Saurashtra letter is uncertain.

In a chart from *Bashabhimāni*, four Saurashtra letters are shown in combination with this unidentified letter:  $\text{𑌕𑌗 𑌕𑌖 rh}$ ,  $\text{𑌕𑌗 𑌕𑌗 lh}$ ,  $\text{𑌕𑌗 𑌕𑌕 mh}$ ,  $\text{𑌕𑌗 𑌕𑌖 nh}$ .

Another issue is the shape of the vowel signs for *-l* and *-ī*. In one teaching book it appears that full-size glyphs are used, with a tilde beneath marking the long vowel:  $\text{𑌕𑌕 k̃l}$ ,  $\text{𑌕𑌕 k̃ī}$  (compare  $\text{𑌕𑌕 kṛ}$  and  $\text{𑌕𑌕 kṛ̃}$ ). In earlier sources, however, the glyph for *-l* is reduced, and length is marked with *-ā*; the *Sangudhari* font supports this practice:  $\text{𑌕𑌕 k̃l}$ ,  $\text{𑌕𑌕 k̃ī}$  (compare *Sangudhari*  $\text{𑌕𑌕 kṛ}$  and  $\text{𑌕𑌕 kṛ̃}$ ).

## 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 *Bhashabimani*; 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.) The fonts are freely available in the Internet at [www.palkar.org](http://www.palkar.org).

## References

U. Norihiko, *Language of the Saurashtrians in Tirupati*. (In Latin script.)

N. Uchida. *Saurashtra-English dictionary*. ISBN 3447030550. In Saurashtra 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, ஸ்ரீ தாடா. 2000. *ஸவ்ராஷ்ட்ர பாத<sup>2</sup> மாலா*.  
மதுரை: ப்ரியா பதப்பகம் ப்ரியா டெக்னிகல் இன்ஸ்டிடியூட். [Śrī Tāṭā.  
Cupramaṇiyaṅ. 2000. *Savrāṣṭra pātha mālo = Savrāṣṭra pāṭ<sup>2</sup>a mālo*. Madurai: Priyā  
Patappakam Priyā Ṭekṇikal Inṣṭīyūṭ]

*Bashabhimāni*.

## Unicode Character Properties

The same properties as apply to Tamil and Devanagari apply to Saurashtra.

உயிரெழுத்துக்கள்

அ	ஆ	இ	ஈ	உ	ஊ	ஊ	ஊ	ஊ
ஊ	ஊ	ஊ	ஊ	ஊ	ஊ	ஊ	ஊ	ஊ
ஊ	ஊ	ஊ	ஊ	ஊ	ஊ	ஊ	ஊ	ஊ
ஊ	ஊ	ஊ	ஊ	ஊ	ஊ	ஊ	ஊ	ஊ

Saurashtra vowels, with equivalents in Tamil and Telugu scripts.

அகரமேறிய மெய்யெழுத்துக்கள்

க	கா	கி	கி	கி	கி	கி	கி	கி
க	கா	கி	கி	கி	கி	கி	கி	கி
க	கா	கி	கி	கி	கி	கி	கி	கி
க	கா	கி	கி	கி	கி	கி	கி	கி
க	கா	கி	கி	கி	கி	கி	கி	கி
க	கா	கி	கி	கி	கி	கி	கி	கி
க	கா	கி	கி	கி	கி	கி	கி	கி
க	கா	கி	கி	கி	கி	கி	கி	கி
க	கா	கி	கி	கி	கி	கி	கி	கி

உயிர்பெயர்வெழுத்துக்கள்

க	கா	கி	கி	கி	கி	கி	கி	கி
க	கா	கி	கி	கி	கி	கி	கி	கி
க	கா	கி	கி	கி	கி	கி	கி	கி
க	கா	கி	கி	கி	கி	கி	கி	கி
க	கா	கி	கி	கி	கி	கி	கி	கி
க	கா	கி	கி	கி	கி	கி	கி	கி
க	கா	கி	கி	கி	கி	கி	கி	கி
க	கா	கி	கி	கி	கி	கி	கி	கி
க	கா	கி	கி	கி	கி	கி	கி	கி

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:

<sub>1</sub> லௌ<sub>0</sub> ஸௌ<sub>7</sub> ல<sub>1</sub> ல<sub>2</sub>; ஸ<sub>7</sub> ல<sub>6</sub> ஸ<sub>7</sub>, ல<sub>0</sub> ல<sub>2</sub> |  
 ல<sub>2</sub> ல<sub>0</sub> ஸ<sub>7</sub> ல<sub>2</sub> ல<sub>2</sub> ஸ<sub>7</sub> ல<sub>0</sub> ஸ<sub>7</sub>, ல<sub>0</sub> ல<sub>2</sub> |  
 śreṣṭha saurāṣṭra sāhitya sabhā, machuro |  
 ஸ்ரேஷ்ட ஸௌராஷ்ட்ர ஸாஹித்ய ஸபா, மதுரை  
 sreṣṭha sauraṣṭra sāhītya sapā, maturai

ஸௌராஷ்டிர விபிநு  
அஜாநு

உ	ஊ	ஐ	ஈ	உ	ஊ	ஐ	ஐ	ஐ
அ	ஆ	ஐ	ஈ	உ	ஊ	ஐ	-	-
ஐ	ஊ	ஐ	ஈ	உ	ஊ	ஐ	ஐ	ஐ
-	-	ஐ	ஈ	-	ஊ	ஐ	ஐ	ஐ

ஒபநு

க <sup>1</sup> க	க <sup>2</sup> க	க <sup>3</sup> க	க <sup>4</sup> க	ங	ங
ச <sup>1</sup> ச	ச <sup>2</sup> ச	ச <sup>3</sup> ச	ச <sup>4</sup> ச	ஞ	ஞ
ட <sup>1</sup> ட	ட <sup>2</sup> ட	ட <sup>3</sup> ட	ட <sup>4</sup> ட	ண <sup>3</sup>	ண
த <sup>1</sup> த	த <sup>2</sup> த	த <sup>3</sup> த	த <sup>4</sup> த	ந	ந
ப <sup>1</sup> ப	ப <sup>2</sup> ப	ப <sup>3</sup> ப	ப <sup>4</sup> ப	ம	ம
ய	ர	ல	வ	ஸ	ஸ
ஷ <sup>1</sup> ஷ	ஸ	ஹ <sup>1</sup> ஹ	ள	க்ஷ <sup>1</sup> க்ஷ	க்ஷ

தநுநு

க	ந	க	க்ஷு	நு	-
கா	ந	கா	கெ	நு	-
கி	ந	கி	கே	நு	கே
கீ	ந	கி	கை	நு	கே
கு	நு	கு	கொ	நு	-
கூ	நு	கூ	கோ	நு	கோ
க்ரு	நு	கூ	கொள	நு	கொ
க்ரு	நு	-	கம்	நு	கம்
க்ஷு	நு	-	கஹ	நு	கஹ

## ரோமன் எழுத்து - ஸௌராஷ்டிர மொழி

- ஜயபாலி

ரோமன் (ஆங்கில) எழுத்துகளைக் கொண்டு ஸௌராஷ்டிர மொழியை எழுதப் பயன்படுத்தும் முறை. வெளிநாடுகளில் வாழும் ஸௌராஷ்டிரர்கள் இம் முறையினைப் பயன்படுத்தி தம் உறவினர்களுக்கும் நண்பர்களுக்கும் கடிதம் மற்றும் E-mailகளை அனுப்பலாம். ஏன், இங்குள்ளவர்களும் வயது முதிர்ந்த - புது வகை வரி வடிவத்தினைக் கற்றுக் கொள்ள முடியாது என்று நம்புவர்கள் - இதனைப் பயன்படுத்தலாமே.

### VOWELS - உயிரெழுத்துகள்

ஐ	ஐ	ஐ	ஐ	ஐ	ஐ	ஐ	ஐ	ஐ	ஐ
அ	ஆ	இ	ஈ	உ	ஊ	எ	ஏ	ஓ	ஔ
A	Ā	I	Ī	U	Ū	E	Ē	O	Ō

### CONSONANTS - மெய்யெழுத்துகள்

க	க	க	க	ங்	ச	ச	ஜ	ஜ	ஞ்
K	Kh	G	Gh	Ng	C	Ch	J	Jh	Ņg
த	த	த	த	ண்	த்	த்	த்	த்	ந்
T	Th	D	Dh	Ṇ	T	Th	D	Dh	N
ப	ப	ப	ப	ம்	ய்	ர	ல்	வ்	ஸ்
P	Ph	B	Bh	M	Y	R	L	V	S
ஷ	ஸ	ஹ	ள்	க்ஷ	ர்ஹ்	ல்ஹ்	ம்ஹ்	ந்ஹ்	
Sh	S	H	L	Ksh	Rh	Lh	Mh	Nh	

### CONSONANT ADDED VOWELS - உயிர் மெய்யெழுத்துகள்

க	கா	கி	கீ	கு	கூ	கெ	கே	கொ	கோ
KA	KĀ	KI	KĪ	KU	KŪ	KE	KĒ	KO	KŌ

### EXAMPLES - உதாரணங்கள்

<p>பாஷாபிமாணி BhĀShĀBhīMĀṆī</p> <p>ஸவ்ராஷ்டிர மணி SAVRĀShĪTRA MAṆī</p>	<p>இயெ அநுசரி அம்தெநு லேகுந் லிக்குவொ IYE ANUCARI AMTENU LĒKUN LIKKUVO</p> <p>ஒண்டெதிம் சிக்குலடுவாயி OṆTEDIM SIKKULĒUVĀYī</p>
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Row 1x0: SAURASHTRA

	1x00	1x01	1x02	1x03	1x04	1x05
0	◌̇	இ	ஓ	ஔ	ஐ	஑
1	◌̈́	ஐ	ஓ	ஔ	ஐ	
2	ஐ	ஓ	ஔ	ஐ	஑	
3	ஐ	ஓ	ஔ	ஐ	஑	
4	ஐ	ஓ	ஔ		◌̇	
5	ஐ	ஓ	ஔ	ஐ		
6	ஐ	ஓ	ஔ	ஐ	஑	
7	ஐ	ஓ	ஔ	ஐ	஑	
8	ஐ	ஓ	ஔ	ஐ	஑	
9	ஐ	ஓ	ஔ	ஐ	஑	
A	ஐ	ஓ	ஔ	ஐ	஑	
B	ஐ	ஓ	ஔ	ஐ	஑	
C	ஐ	ஓ	ஔ	ஐ	஑	
D	ஐ	ஓ	ஔ	ஐ	஑	
E	ஐ	ஓ	ஔ	ஐ	஑	
F	ஐ	ஓ	ஔ	ஐ	஑	

G = 00  
P = 01

Row 1x0: SAURASHTRA

hex	Name
1x00	SAURASHTRA SIGN ANUSVARA
1x01	SAURASHTRA SIGN VISARGA
1x02	SAURASHTRA LETTER A
1x03	SAURASHTRA LETTER AA
1x04	SAURASHTRA LETTER I
1x05	SAURASHTRA LETTER II
1x06	SAURASHTRA LETTER U
1x07	SAURASHTRA LETTER UU
1x08	SAURASHTRA LETTER VOCALIC R
1x09	SAURASHTRA LETTER VOCALIC RR
1x0A	SAURASHTRA LETTER VOCALIC L
1x0B	SAURASHTRA LETTER VOCALIC LL
1x0C	SAURASHTRA LETTER E
1x0D	SAURASHTRA LETTER EE
1x0E	SAURASHTRA LETTER AI
1x0F	SAURASHTRA LETTER O
1x10	SAURASHTRA LETTER OO
1x11	SAURASHTRA LETTER AU
1x12	SAURASHTRA LETTER KA
1x13	SAURASHTRA LETTER KHA
1x14	SAURASHTRA LETTER GA
1x15	SAURASHTRA LETTER GHA
1x16	SAURASHTRA LETTER NGA
1x17	SAURASHTRA LETTER CA
1x18	SAURASHTRA LETTER CHA
1x19	SAURASHTRA LETTER JA
1x1A	SAURASHTRA LETTER JHA
1x1B	SAURASHTRA LETTER NYA
1x1C	SAURASHTRA LETTER TTA
1x1D	SAURASHTRA LETTER TTHA
1x1E	SAURASHTRA LETTER DDA
1x1F	SAURASHTRA LETTER DDHA
1x20	SAURASHTRA LETTER NNA
1x21	SAURASHTRA LETTER TA
1x22	SAURASHTRA LETTER THA
1x23	SAURASHTRA LETTER DA
1x24	SAURASHTRA LETTER DHA
1x25	SAURASHTRA LETTER NA
1x26	SAURASHTRA LETTER PA
1x27	SAURASHTRA LETTER PHA
1x28	SAURASHTRA LETTER BA
1x29	SAURASHTRA LETTER BHA
1x2A	SAURASHTRA LETTER MA
1x2B	SAURASHTRA LETTER YA
1x2C	SAURASHTRA LETTER RA
1x2D	SAURASHTRA LETTER LA
1x2E	SAURASHTRA LETTER VA
1x2F	SAURASHTRA LETTER SHA
1x30	SAURASHTRA LETTER SSA
1x31	SAURASHTRA LETTER SA
1x32	SAURASHTRA LETTER HA
1x33	SAURASHTRA LETTER LLA
1x34	(This position shall not be used)
1x35	SAURASHTRA VOWEL SIGN AA
1x36	SAURASHTRA VOWEL SIGN I
1x37	SAURASHTRA VOWEL SIGN II
1x38	SAURASHTRA VOWEL SIGN U
1x39	SAURASHTRA VOWEL SIGN UU
1x3A	SAURASHTRA VOWEL SIGN VOCALIC R
1x3B	SAURASHTRA VOWEL SIGN VOCALIC RR
1x3C	SAURASHTRA VOWEL SIGN VOCALIC L
1x3D	SAURASHTRA VOWEL SIGN VOCALIC LL
1x3E	SAURASHTRA VOWEL SIGN E
1x3F	SAURASHTRA VOWEL SIGN EE
1x40	SAURASHTRA VOWEL SIGN AI
1x41	SAURASHTRA VOWEL SIGN O
1x42	SAURASHTRA VOWEL SIGN OO
1x43	SAURASHTRA VOWEL SIGN AU
1x44	SAURASHTRA SIGN VIRAMA
1x45	(This position shall not be used)
1x46	SAURASHTRA DIGIT ZERO
1x47	SAURASHTRA DIGIT ONE
1x48	SAURASHTRA DIGIT TWO
1x49	SAURASHTRA DIGIT THREE
1x4A	SAURASHTRA DIGIT FOUR
1x4B	SAURASHTRA DIGIT FIVE
1x4C	SAURASHTRA DIGIT SIX
1x4D	SAURASHTRA DIGIT SEVEN
1x4E	SAURASHTRA DIGIT EIGHT
1x4F	SAURASHTRA DIGIT NINE
1x50	unidentified saurashtra letter
1x51	(This position shall not be used)
1x52	(This position shall not be used)
1x53	(This position shall not be used)
1x54	(This position shall not be used)
1x55	(This position shall not be used)
1x56	(This position shall not be used)
1x57	(This position shall not be used)
1x58	(This position shall not be used)

hex	Name
1x59	(This position shall not be used)
1x5A	(This position shall not be used)
1x5B	(This position shall not be used)
1x5C	(This position shall not be used)
1x5D	(This position shall not be used)
1x5E	(This position shall not be used)
1x5F	(This position shall not be used)