



Doc Type: Working Group Document
Title: Proposal to Encode the Samvat Date Sign for Arabic in ISO/IEC 10646
Source: Anshuman Pandey (pandey@umich.edu)
Status: Individual Contribution
Action: For consideration by UTC
Date: 2009-04-15

1 Introduction





This is a proposal to encode a new character for the Arabic script:  ARABIC SIGN SAMVAT.

The ARABIC SIGN SAMVAT is used in Urdu for writing dates of the Śaka *saṃvat* (سموت *saṃwat*, from Sanskrit संवत् *saṃvat* < संवत्सर *saṃvatsara* ‘year’), or calendar.



The character is functionally similar to  U+0601 ARABIC SIGN SANAH (Arabic سنة *sanah* ‘year’). However, ARABIC SIGN SANAH is a generic date marker, while ARABIC SIGN SAMVAT is used specifically for writing dates of the Śaka era.







The Śaka is one of three major calendars used in India. The other two are the Islamic and Gregorian calendars. Legend holds that the Sātavāhana king Śālivāhana established the Śaka era after his victory over king Vikramāditya in 78 CE, which is the zero year for the era. According to another legend, Vikramāditya is the founder of another popular calendar, the Vikrama *saṃvat*, which was established in 56 BCE. The Śaka, or more accurately the Śālivāhana Śaka *saṃvat*, is the basis for the Indian national calendar, which was established on Caitra 1, Śaka 1879 (March 22, 1957).

2 Basis for Glyph Shape


The glyph  for ARABIC SIGN SAMVAT is based upon the form  shown in Figure 1. It is drawn in the Naskh style, rather than in the Nastaliq form of the original, in order to conform to the design of the Arabic font used in the code charts. The glyph represents a stylized abbreviation of سموت *saṃwat*, which consists of the initial form of  U+0633 ARABIC LETTER SEEN, the medial form of  U+0645 ARABIC LETTER MEEM, and a horizontal swash. It is analogous to the abbreviation of संवत् *saṃvat* as सं° *saṃ* in Devanagari.

3 Orthography

The  ARABIC SIGN SAMVAT is a subtending character. The date is written inside the character, to the left of the SEEN-MEEM element, and above the horizontal stroke. For example, the current Gregorian year 2009 CE corresponds to Śaka 1931 and is written in Urdu as .

In Urdu orthography, years of the Islamic calendar are denoted by a  U+06BE ARABIC LETTER HEH DOACHASHMEE, which is an abbreviation of the Arabic هجري *hijrī* ‘migration of Muhammad from Mecca to Medina’. The  is written after the year:  1430 AH (2009 CE). Years of the Gregorian calendar are marked with ء, the initial form of U+0639 ARABIC LETTER AIN, which is an abbreviation of the Arabic عيسوي *‘isawī* ‘Christian’. The ء is written after the year:  2009 CE. When dates are written with ARABIC SIGN SANAH the abbreviations are also written to indicate the era, eg. 1430 AH  and 2009 CE . There is no similar convention for denoting years of the Śaka calendar.

4 Implementation

Representation The ARABIC SIGN SAMVAT should be represented in the code chart as , in the manner of other subtending marks.

Allocation The character should be encoded at U+0604 with other subtending marks.

Properties The ARABIC SIGN SAMVAT has the following general properties, expressed in the format used in the Unicode Character Database (`UnicodeData.txt`):

```
0604;ARABIC SIGN SAMVAT;Cf;0;AN;;;;;N;;;;;
```

It has the following shaping properties, expressed in the format used in the Arabic shaping and joining properties database (`ArabicShaping.txt`):

```
0604; ARABIC SIGN SAMVAT; U; No_Joining_Group
```

5 References

Ahmad Dihlavī, Sayyid. 1974. *فرہنگ آصفیہ* [*Farhang-i Āsafīyyah*]. vol. 2. Delhi: Taraqqī-e-Urdū Board, National Academy.

6 Acknowledgments

The proposal author would like to thank Roozbeh Pournader for reviewing an earlier version of this proposal and for providing information on character shaping properties.

۶۱۹۷۴

۱۸۹۶

FARHANG-E-ASIFIA-Vol. II

ترقی اردو بورڈ ایڈیشن
تعداد — تین ہزار

تقسیم کار: نیشنل اکاڈمی
۹۔ انصاری مارکیٹ، دریا گنج، دہلی ۱۱۰۰۰۶

قیمت جلد دوم: پچیس روپے

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کے لیے جید پریس، بلیماران، دہلی سے چھپوا کر شایع کیا۔

Figure 1: Title page of *Farhang-i Āsafiyah* showing use of ARABIC SIGN SAMVAT (from Ahmad Dihlavī 1974). The date in the boxed text is ۱۸۹۶ (1896 samvat), which corresponds to ۱۹۷۴ (1974) of the Gregorian calendar (*ṭsawī*), as shown above the boxed text.