Proposal to encode two characters in Khojki

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1 Introduction

This is a proposal to encode two characters in the Khojki block.

Glyph	Code	Character name
્	U+1123F	KHOJKI VOWEL SIGN VOCALIC R
:::	U+11240	KHOJKI SIGN VISARGA

2 Description

These characters are used in printed texts to represent the words of Sanskrit origin.

VOWEL SIGN VOCALIC R: This character is used in the words that contain the vowel r.

The proposal for Khojki (page 14 of L2/11-021) discusses the use of VOWEL SIGN VOCALIC R. But it was not proposed due to lack of primary sources. This document provides the attestations for this character.

7. **VOWEL SIGN VOCALIC R** Authors of Khojki instructional books often attempted to extend the script by borrowing orthographic practices from Devanagari. As shown below, one such script primer, *Sindhī pahelī copadī*, introduces the character ς , the dependent form of Ξ U+090B DEVANAGARI LETTER VOCALIC R, for transcribing words of Sanskrit origin. The book also specifies diacritic marks for representing conjunct with RA.

The character is derived from either U+0AC3 of GUJARATI VOWEL SIGN VOCALIC R or U+0943 of DEVANAGARI VOWEL SIGN VOCALIC R.

VISARGA: It indicates the voiceless glottal fricative. Visarga : is confusable with U+1123A: KHOJKI WORD SEPARATOR. As Visarga is a combining mark; its character properties would differ from that of Separator. As in others Indic scripts independent encoding of Visarga in Khojki is recommended.

3 Character Data

3.1 Character Properties

```
In the format of UnicodeData.txt:
1123F; KHOJKI VOWEL SIGN VOCALIC R; Mn; 0; NSM;;;;; N;;;;;
11240; KHOJKI SIGN VISARGA; Mc; 0; L;;;;; N;;;;
```

3.2 Syllabic Categories

```
In the format of IndicSyllabicCategory.txt:
```

```
# Indic_Syllabic_Category=Vowel_Dependent

1123F; Vowel_Dependent # Mn KHOJKI VOWEL SIGN VOCALIC R
# Indic_Syllabic_Category=Visarga

11240; Visarga # Mc KHOJKI SIGN VISARGA
```

3.3 Positional Categories

In the format of IndicPositionalCategory.txt:

```
# Indic_Positional_Category=Bottom

1123F; Bottom # Mn KHOJKI VOWEL SIGN VOCALIC R
# Indic_Positional_Category=Right

11240; Right # Mc KHOJKI SIGN VISARGA
```

Other properties are similar to the respective characters of Devanagari.

4 References

Mukhi Laljibhai Devraj. Sindhī pahelī copaḍī. Mumbai. Samvat 1966 [=1910 CE].

Pandey, Anshuman. Final Proposal to Encode the Khojki Script in ISO/IEC 10646. N3978 L2/11-021. January 28, 2011.

5 Attestations

All attestations provided here are from the book Sindhī pahelī copaḍī written by Mukhi Laljibhai Devraj.

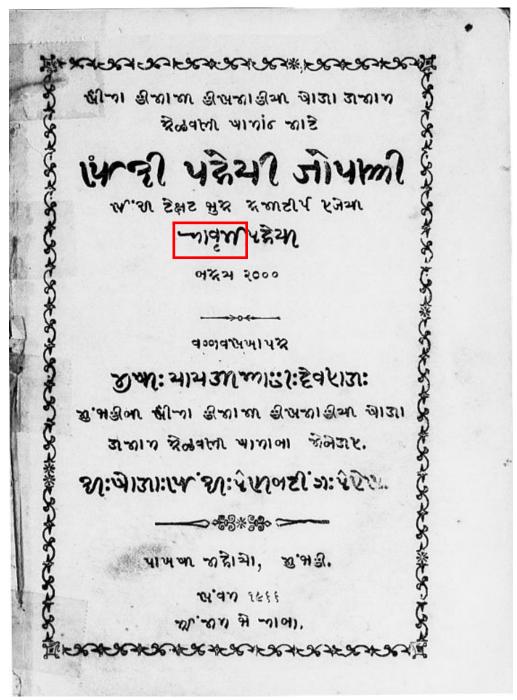


Figure 1. Use of VOWEL SIGN VOCALIC R in the word āvṛti.

Figure 2. Use of VOWEL SIGN VOCALIC R in the words kṛpāļu and tṛṣṇā

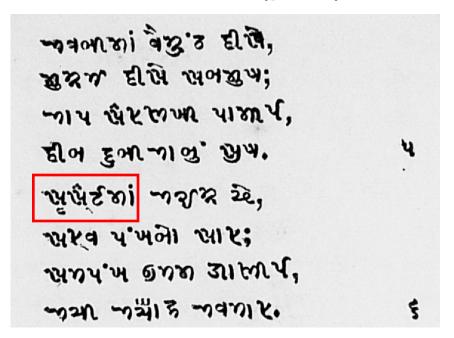


Figure 3. Use of VOWEL SIGN VOCALIC R in the word sṛṣṭi.

NINE 19.31 B.B. M. 21.

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Figure 4. Use of VOWEL SIGN VOCALIC R in the word amrta.

જીવા દીબજાં સપરાપ્રભાં સાબજાં પ્રમાવસં કરે.

Figure 5. Use of Visarga in the word duḥkha.

ISO/IEC JTC 1/SC 2/WG 2

PROPOSAL SUMMARY FORM TO ACCOMPANY SUBMISSIONS FOR ADDITIONS TO THE REPERTOIRE OF ISO/IEC 10646

Please fill all the sections A, B and C below.

Please read Principles and Procedures Document (P & P) from

http://std.dkuug.dk/[TC1/SC2/WG2/docs/principles.html for guidelines and details before filling this form.

Please ensure you are using the latest Form from

http://std.dkuug.dk/JTC1/SC2/WG2/docs/summaryform.html.

See also http://std.dkuug.dk/ITC1/SC2/WG2/docs/roadmaps.html for latest Roadmaps.

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. Administ	trative			
1.Title:	Proposal to encode two characters in Khojki			
2. Requester's nar	ne:	Srinidhi A and Sridatta A		
3. Requester type	(Member body/Liaison/Indi	vidual contribution):	Individual contribution	
4. Submission date:		August 30, 2017		
5. Requester's ref	erence (if applicable):			
6. Choose one of t	he following:			
This is a complete proposal:			Yes	
(or) More in	nformation will be provided	later:		
B. Technica	l - General			
1. Choose one of t	he following:			
a. This prop	osal is for a new script (set o	of characters):		
Propo	osed name of script:			
b. The prop	osal is for addition of charac	cter(s) to an existing block:	Yes	
Name	e of the existing block:	K	hojki	

2. Number of characters in proposal: 3. Proposed category (select one from below - see section 2.2 of P&P document): B.1-Specialized (small collection) X B.2-Specialized (large collection) A-Contemporary D-Attested extinct C-Major extinct E-Minor extinct F-Archaic Hieroglyphic or Ideographic G-Obscure or questionable usage symbols 4. Is a repertoire including character names provided? Yes a. If YES, are the names in accordance with the "character naming guidelines" Yes b. Are the character shapes attached in a legible form suitable for review? Yes 5. Fonts related: a. Who will provide the appropriate computerized font to the Project Editor of 10646 for publishing the standard? Not necessary. Glyphs can be borrowed from Gujarati.

Not necessary 6. References:

b. Identify the party granting a license for use of the font by the editors (include address, e-mail, ftp-site, etc.):

b. Are published examples of use (such as samples from newspapers, magazines, or other sources)

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

of proposed characters attached?	Yes		
7. Special encoding issue			
Does the proposal address other aspects of char	racter data processing (if applicable) such as input,		
presentation, sorting, searching, indexing, trans	sliteration etc. (if yes please enclose information)?	Yes	
Se	e the text of proposal		
8. 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/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, available relevant documents:	
3. Information on the user community for the proposed characters (for example:	
size, demographics, information technology use, or publishing use) is included?	No
Reference:	
4. The context of use for the proposed characters type of use; common or rare)	common
Reference: See the text of proposal	
5. Are the proposed characters in current use by the user community?	
If YES, where? Reference: Details are not available	
6. After giving due considerations to the principles in the P&P document must the proposed cha	=
in the BMP?	N/A
If YES, is a rationale provided?	
If Yes, reference:	
7. Should the proposed characters be kept together in a contiguous range (rather than being sca	ttered)? Yes
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 character sequence of either	er
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, can any of the proposed character(s) be considered to be similar (in appearance of function	
to, or could be confused with, an existing character?	Yes
to, or could be confused with, an existing character? If YES, is a rationale for its inclusion provided?	Yes Yes
to, or could be confused with, an existing character? If YES, is a rationale for its inclusion provided? If Yes, reference: See the text of proposal.	
to, or could be confused with, an existing character? If YES, is a rationale for its inclusion provided?	Yes

If Yes, reference: Visarga is a com	bining mark.
Is a list of composite sequences and their corresponding glyph images (graphic symbols) provided? N/A
If Yes, reference:	
12. Does the proposal contain characters with any special properties such as	
control function or similar semantics?	No
If YES, describe in detail (include attachment if necessary)	
13. Does the proposal contain any Ideographic compatibility characters?	No
If YES, are the equivalent corresponding unified ideographic characters	sidentified?
If Yes, reference:	