

**ISO/IEC JTC 1/SC 2/WG 2  
PROPOSAL SUMMARY FORM TO ACCOMPANY SUBMISSIONS  
FOR ADDITIONS TO THE REPERTOIRE OF ISO/IEC 10646<sup>1</sup>**

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

(Please read Principles and Procedures Document for guidelines and details before filling this form.)

See <http://www.dkuug.dk/JTC1/WG2/docs/summaryform.html> for latest Form.

See <http://www.dkuug.dk/JTC1/WG2/docs/principles.html> for latest Principles and Procedures document.

See <http://www.dkuug.dk/JTC1/WG2/docs/roadmaps.html> for latest roadmaps.

**A. Administrative**

|                                                                  |                                                                                |
|------------------------------------------------------------------|--------------------------------------------------------------------------------|
| 1. Title:                                                        | <u>Proposal to encode Marwari LAM WITH BAR character</u>                       |
| 2. Requester's name:                                             | <u>INCITS/L2; Unicode Technical Committee; Jonathan Kew, SIL International</u> |
| 3. Requester type (Member body/Liaison/Individual contribution): | <u>Member; liaison; expert contribution</u>                                    |
| 4. Submission date:                                              | <u>2003-09-29</u>                                                              |
| 5. Requester's reference (if applicable):                        | <u>L2/03-228</u>                                                               |
| 6. (Choose one of the following:)                                |                                                                                |
| This is a complete proposal:                                     | <u>Yes</u>                                                                     |
| or, More information will be provided later:                     | <u></u>                                                                        |

**B. Technical - General**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| 1. (Choose one of the following:)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                 |
| a. This proposal is for a new script (set of characters):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <u>No</u>                                                       |
| Proposed name of script:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <u></u>                                                         |
| b. The proposal is for addition of character(s) to an existing block:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <u>Yes</u>                                                      |
| Name of the existing block:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <u>Arabic Supplementary</u>                                     |
| 2. Number of characters in proposal:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <u>1</u>                                                        |
| 3. Proposed category (see section II, Character Categories):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <u>A</u>                                                        |
| 4. Proposed Level of Implementation (1, 2 or 3) (see clause 14, ISO/IEC 10646-1: 2000):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <u>1</u>                                                        |
| Is a rationale provided for the choice?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <u>Yes</u>                                                      |
| If Yes, reference:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <u>No combining marks</u>                                       |
| 5. Is a repertoire including character names provided?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>Yes</u>                                                      |
| a. If YES, are the names in accordance with the 'character naming guidelines in Annex L of ISO/IEC 10646-1: 2000?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <u>Yes</u>                                                      |
| b. Are the character shapes attached in a legible form suitable for review?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <u>Yes</u>                                                      |
| 6. Who will provide the appropriate computerized font (ordered preference: True Type, or PostScript format) for publishing the standard?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <u>Jonathan Kew, SIL International</u>                          |
| If available now, identify source(s) for the font (include address, e-mail, ftp-site, etc.) and indicate the tools used:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <u>jonathan_kew@sil.org</u>                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <u>TrueType font generated with FontLab 4.5</u>                 |
| 7. References:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                 |
| a. Are references (to other character sets, dictionaries, descriptive texts etc.) provided?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <u>No</u>                                                       |
| b. Are published examples of use (such as samples from newspapers, magazines, or other sources) of proposed characters attached?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <u>Yes, see §3 below</u>                                        |
| 8. Special encoding issues:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                 |
| 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)?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <u>Yes: suggested Unicode character properties are included</u> |
| 9. Additional Information:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                 |
| 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 <a href="http://www.unicode.org">http://www.unicode.org</a> for such information on other scripts. Also see <a href="http://www.unicode.org/Public/UNIDATA/UnicodeCharacterDatabase.html">http://www.unicode.org/Public/UNIDATA/UnicodeCharacterDatabase.html</a> 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?<br>If YES explain _____                                                                                                                                                                                                                                                                | <u>No</u>                |
| 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.)?<br>If YES, with whom? <u>Local communities, linguists, and NGOs</u><br>If YES, available relevant documents: <u>See §4 below</u>                                                                          | <u>Yes</u>               |
| 3. Information on the user community for the proposed characters (for example: size, demographics, information technology use, or publishing use) is included?<br>Reference: <u>See §2 below</u>                                                                                                                                                                | <u>Yes</u>               |
| 4. The context of use for the proposed characters (type of use; common or rare)<br>Reference: <u>See §2 below</u>                                                                                                                                                                                                                                               | <u>Current publ'ns</u>   |
| 5. Are the proposed characters in current use by the user community?<br>If YES, where? Reference: <u>Marwari communities in southern Pakistan</u>                                                                                                                                                                                                               | <u>Yes</u>               |
| 6. After giving due considerations to the principles in <i>Principles and Procedures document</i> (a WG 2 standing document) must the proposed characters be entirely in the BMP?<br>If YES, is a rationale provided?<br>If YES, reference: <u>Extension to BMP Arabic repertoire, see §1 below</u>                                                             | <u>Yes</u><br><u>Yes</u> |
| 7. Should the proposed characters be kept together in a contiguous range (rather than being scattered)?                                                                                                                                                                                                                                                         | <u>N/A</u>               |
| 8. Can any of the proposed characters be considered a presentation form of an existing character or character sequence?<br>If YES, is a rationale for its inclusion provided?<br>If YES, reference: _____                                                                                                                                                       | <u>No</u>                |
| 9. Can any of the proposed characters be encoded using a composed character sequence of either existing characters or other proposed characters?<br>If YES, is a rationale for its inclusion provided?<br>If YES, reference: _____                                                                                                                              | <u>No</u>                |
| 10. Can any of the proposed character(s) be considered to be similar (in appearance or function) to an existing character?<br>If YES, is a rationale for its inclusion provided?<br>If YES, reference: _____                                                                                                                                                    | <u>No</u>                |
| 11. 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)?<br>If YES, is a rationale for such use provided?<br>If YES, reference: _____<br>Is a list of composite sequences and their corresponding glyph images (graphic symbols) provided?<br>If YES, reference: _____ | <u>No</u>                |
| 12. Does the proposal contain characters with any special properties such as control function or similar semantics?<br>If YES, describe in detail (include attachment if necessary)                                                                                                                                                                             | <u>No</u>                |
| 13. Does the proposal contain any Ideographic compatibility character(s)?<br>If YES, is the equivalent corresponding unified ideographic character(s) identified?<br>If YES, reference: _____                                                                                                                                                                   | <u>No</u>                |

<sup>1</sup>Form number: N2352-F (Original 1994-10-14; Revised 1995-01, 1995-04, 1996-04, 1996-08, 1999-03, 2001-05, 2001-09)

## 1. Proposed character

The following character is proposed for encoding in the UCS:

| Glyph | Code | Character name             | GC | CC | Bidi | Shaping |
|-------|------|----------------------------|----|----|------|---------|
| ﻝ̣    | 076A | ARABIC LETTER LAM WITH BAR | Lo | 0  | AL   | LAM     |

This character is used in writing the Marwari language in southern Pakistan, to represent a flapped retroflexed lateral. It has also been suggested for use in the Gawri language of northern Pakistan (see Baart & Sagar 2002) to represent a lateral fricative, but it is unclear how widely it has been adopted there. The character is proposed for encoding at this time on the basis of its established usage in Marwari, but naturally this does not preclude possible use in other languages and communities.

As this character is an extension to the standard Arabic script, as adapted for use in South Asian languages, and is in current use, it should be encoded on the BMP; a location in the new Arabic Supplementary block is suggested.

Contextual shaping for this character is similar to that of U+0644 ARABIC LETTER LAM, including the requirement to form ligatures with ALEF and related characters (examples can be seen in figures 4, 6, 7, and 9) even in simplified cursive styles of the script.

## 2. Background information

The Marwari language is spoken by over 200,000 people in the Sindh and southern Punjab provinces of Pakistan (see [http://www.ethnologue.com/show\\_language.asp?code=MRI](http://www.ethnologue.com/show_language.asp?code=MRI)). While Marwari has not traditionally been written, with most available education being in Sindhi or Urdu, there has been some use of written Marwari within the past 20 years. The Ethnologue cites a mother-tongue literacy rate of below 1%; nevertheless, a number of works in Marwari have been published in recent years (see §4 References).

Two approaches have been taken to writing Marwari: in Sindh province, an orthography based on that of Sindhi has been used, while in the northern Marwari area (southern Punjab) the orthography has instead been based on Urdu. In both cases, however, the orthography has been extended by the use of a “barred LAM” character to represent a flapped retroflexed lateral, not found in either Sindhi or Urdu.

Most existing literature in Marwari comes from church-related organizations and other NGOs working in the fields of education and community development among the Marwari community. Examples using both southern (Sindhi-based) and northern (Urdu-based) orthographies are shown below.

It may be noted that the name “Marwari” is also used to refer to the standard form of the Rajasthani language spoken in India (see [http://www.ethnologue.com/show\\_language.asp?code=MKD](http://www.ethnologue.com/show_language.asp?code=MKD)). It is unclear exactly how closely related the Pakistani “Marwari” language is to this. In any case, Marwari in India is written with the Devanagari script, and is therefore not relevant to the present character proposal.

## 3. Samples showing use of the proposed character

### 3.1 Southern Marwari (Sindhi-based orthography)

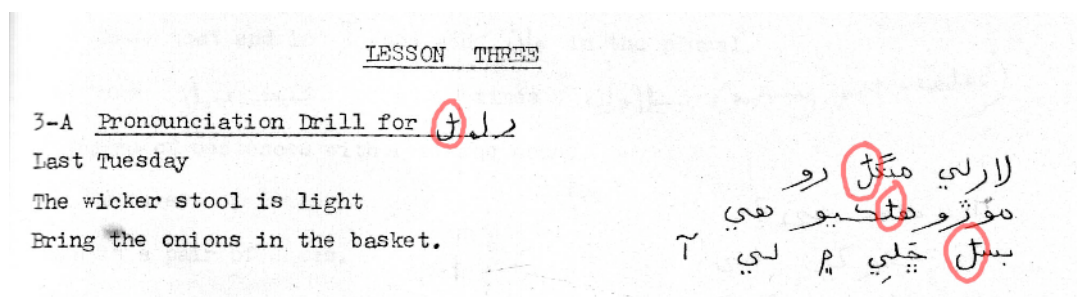


Figure 1: Saint (1986), page 12



Figure 2: Saint (1988), page 30

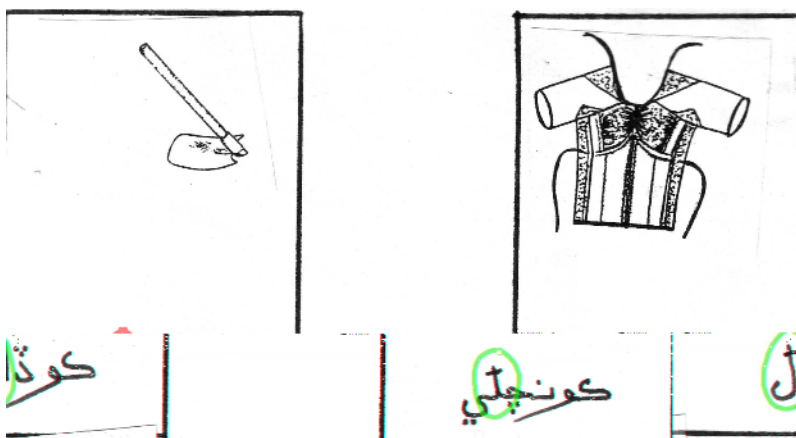


Figure 3: ICF (1987), no page #

آن پچي سات برسان رو ڪال پڙشي.  
 پچي يوسف بادشاه نا صلاح ڏنهي ڪه ڪي ڪرڻو چهي.  
 بادشاه نا يوسف ري صلاح ڏاڍي ٺاهوڪي لاڳي.  
 آن بادشاه يوسف نا مصر رو وزير ٺايو. (

جڏي يوسف وزير ٿيو  
 تو اوئي ري عمر ترس برس هتي.  
 پچي سات برسان تائين گهڻي ٺاهوڪي پوک هئي.  
 آن يوسف سڄي ملڪ ۾ ڦريو آن اي حڪم ڏنو ڪه  
 اي ڏاڏا گاوان ري گدامان ۾ پيٽا ڪرو.  
 اوئي پيٽا ايتري ڪٽڪ هتي جڪو ٿوڻ ڏکي هتي.

Figure 4: PBS (1990), page 12

لوقا ۸

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ڏيئو ڇڪ هيٺا راڪي

۱۶ ڪوئي به اهڙو منڪ ڪوني جڪو ڏيئو پال رو ڇڪ سان ڇڪي  
 جان اوئي نا مانڀي هيٺا راڪي. پن اوئي نا جائگي ۾ راڪي جان  
 هر پيٽرا آون آڻي نا آڃاڻو جڙي. ۱۷ ڪيان ڪه ڪوئي لڪيوڙي بست  
 اهڙي ڪوني جڪو چئي ٿي وي، آن ڪوئي اهڙو پيڏ ڪوني جڪي ري ڪهر

Figure 5: PBS (1991), page 45

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جگت ۾ پاپ ڪيان آيو

۱: عدن ڏيش ۾ ايشور باغ لگاڻو جيئو ۾ نر ناري نان بسايو  
 اس ٻڌ پاپ جگت ۾ آيا رے پائيو پاپ جگت ۾ آيا

۲: پيارے پريو اے وڃن سڻايا پاپ پرکو رو ڦل مٽي ڪايا  
 اوے ڦل رے تيزا مٽي جايا اوئي ڦل ني ڪايا

۳: نانگ رے روپ ۾ شيطان آيو نر ناري نان ڦل ڪلايو  
 پاپ پرک رو ڦل ڪلايو نر ناري نان پلايا

Figure 6: SCF/PCF (n.d. #1), page 98; compare figure 7 for Urdu-based orthography

### 3.2 Northern Marwari (Urdu-based orthography)

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## جگت میں پاپ کیاں آیو

- ۱۔ عدن ڈیس میں ایشور باغ لگا یو میں نرناری ناں بسپا یو  
اس ہڈ پاپ جگت میں آیا اے بجائیو پاپ جگت میں آیا
- ۲۔ پیارے پر بھولے وچن سٹا یو پاپ پرکھ رو پھل مٹی کھایا  
اوے پھل مے نیرا مے جایا اوئی پھل فی کھایا
- ۳۔ نانگ رے روپ میں شیطان آئیو نرناری ناں پھل کھایو  
پاپ پرکھ رو پھل کھلے نرناری ناں پھلایا

Figure 7: SCF/PCF (n.d. #2), page 98

(۵) ۱ پطرس ۳  
پن مسع ناں ایشور جاں کہ آپرے منوں  
میں یوینتر سمجھو آن جکو کوئی نقاں ساں  
منازہ امید ری وجد پوچھے اوئے ناں بٹتی  
ڈیوٹ ساروں ہر بٹتہ تیار رو  
پن حلیہی آن لوچیں رے بٹتہ -

Figure 8: ARP (n.d.), #75 of 100 portions

۲۱  
تھیں اوئے ناں کہو کہ  
منال ای پتی ڈرے  
جیسو اوئے ناں بٹتی ڈھنی کہ  
منال تھیں ماتھے نیا کر ٹاٹو  
جاں مال پٹا وٹن آٹو  
کے کھلایو

Figure 9: PBS (n.d.), page 21

## 4. References

[ARP Mission?]. n.d. 100 Hawale [100 Scripture passages], Marwari boli [language].

Baart, Joan L. G. and Muhammad Zaman Sagar. 2002. *The Gawri language of Kalam and Dir Kohistan*.  
[http://www.geocities.com/kcs\\_kalam/gawri.pdf](http://www.geocities.com/kcs_kalam/gawri.pdf).

ICF [Indus Christian Fellowship]. 1987. Marwari Bhili Topical Vocabulary, Trial Edition.

Pakistan Bible Society. 1990. Genesis New Reader Portion Book 5 (Joseph): Marwari language.

———. 1991. Gospel of Luke: Marwari language.

———. n.d. Parables of Jesus (Part 1): Marwari language.

Saint, Helen. 1986. Marwari Language Learning Course.

———. 1988. Marwari Primer, Trial Edition. Pakistan: ICF [Indus Christian Fellowship].

Sindhi Christian Fellowship/Pakistani Christian Fellowship. n.d. (#1). Christian Songs (Sindhi Script).

———. n.d. (#2). Christian Songs (Urdu Script).