# Proposal to encode the TELUGU SIGN COMBINING ANUSVARA ABOVE

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#### 1 Introduction

This is a proposal to encode new character in the Telugu block. This is a second anusvara as attested in Prakrit texts to indicate linguistic anusvara.

Glyph Code Character name



0C04 TELUGU SIGN COMBINING ANUSVARA ABOVE

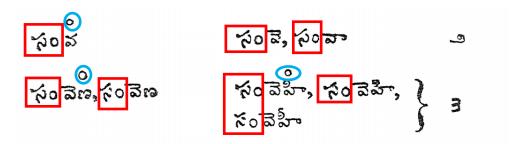
#### 2 Background

The documents L2/13-061 and L2/14-003 proposed combining anusvara above for Grantha and Malayalam respectively. These were based upon contrastive use of regular anusvara and combining anusvara above in Prakrit language manuscripts and texts. The two characters were subsequently accepted for encoding. Now, a similar character is documented in the related Telugu script of South India.

## 3 Description

In Prakrit orthography, the regular anusvara sign is placed to the right is used as a gemination marker and the linguistic anusvara is marked by the anusvara sign placed above the consonant.

The following attestation explains the contrastive use of anusvara.



(Here the regular anusvara is denoted by red box, whereas the anusvara above is denoted by blue circle.)

savvēņam, savvēņa savvēhim, savvēhi, savvēhi

Here, the regular anusvara in words marked in red indicate the gemination. Whereas, the letters denoted by anusvara above marked in blue indicate the linguistic anusvara.

#### 4 Character details

a. Character properties are given below:

```
OC04; TELUGU SIGN COMBINING ANUSVARA ABOVE; Mn; 0; NSM;;;;; N;;;;;
```

b. The following annotation is to be added to the names list:

```
0C02 TELUGU SIGN ANUSVARA
* Used in Prakrit language texts to indicate gemination of the
following consonant

0C04 TELUGU SIGN COMBINING ANUSVARA ABOVE
* Used in Prakrit language texts for the linguistic anusvara
```

c. Collation and other properties are would be similar to that of combining anusvara above of Grantha and Malayalam.

The attestations are obtained from the book *Prākrta śabdamanjarī* by Krishnaraya Pandita printed at Sarasvatinilaya Press, Chennai, 1871. Also, Sanskrit texts in the same book use the regular anusvara to the right denoting the linguistic anusvara. The book is full of such usages and may be obtained from link. http://www.dli.ernet.in/handle/2015/495555

Hence, it is recommended to encode the above character based on the attestations of distinctive usage in Prakrit texts in Telugu script.

### 5 Attestations

Here the regular anusvara is denoted by red box, whereas the anusvara above is denoted by blue circle.

Figure 1. from page no.1

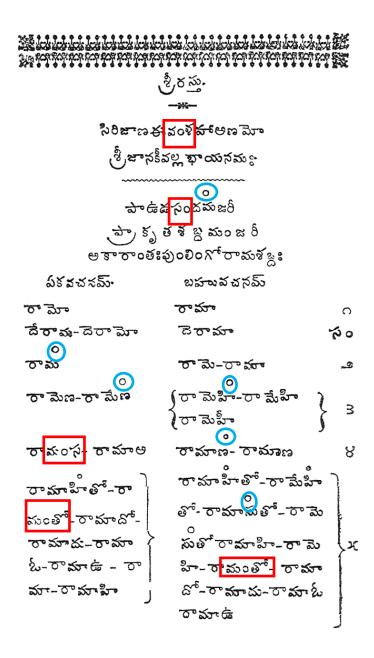


Figure 2. from page no.14

# ౧రి ప్రాకృతశబ్దమంజ**ర్యాం** హాలంతఫుంరింగశబ్దాః

గోధుక్-ఆనడుహ్-ఇత్యాదిహలంతధాతుశబ్దానాం హలాగిత్య గాగమె-గోధు మెయాఇత్యాది రామవత్ \* మదిక్ శబ్దస్యఅధాతుత్వాంతహలాశధూదీఇతి- అంత్య హలాలో పెసుదీఇత్యాదిహరివత్ ॥

రేఫాంత్రుంచింగశ్చత్రశబ్దిం చడరో-దంతారో-దంతారి-౧-౨-చడాహా - చడా హి-చడాహీ 3-చడ్జ్లో -చడ్జ్లో రి- చడాహితో -చడం తో,చడాదో-చడాడు,చడాడు-చడాడుతో -చడాహి తో \*/-చడ్జ్లో -చడ్జ్లో కి-చడ్జు, చడ్డాను, చడ్జు, చడ్జు మకారా నుంచింగుకింశబ్దిం

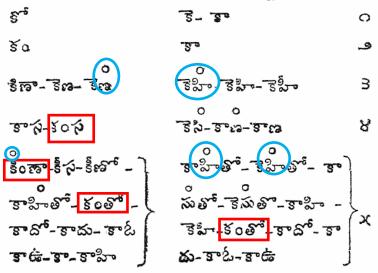
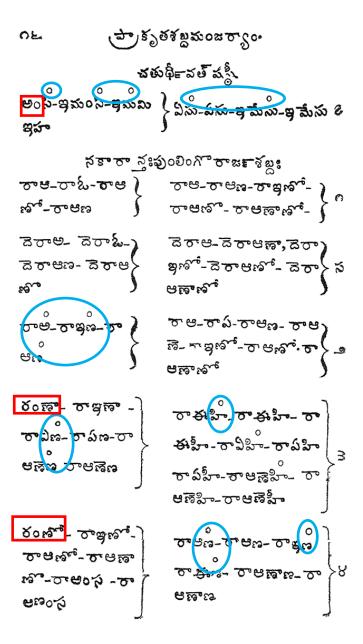


Figure 3. from page no.16



#### ISO/IEC JTC 1/SC 2/WG 2

#### PROPOSAL SUMMARY FORM TO ACCOMPANY SUBMISSIONS

#### FOR ADDITIONS TO THE REPERTOIRE OF ISO/IEC 10646.1

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

Please read Principles and Procedures Document (P & P) from <a href="http://std.dkuug.dk/JTC1/SC2/WG2/docs/principles.html">http://std.dkuug.dk/JTC1/SC2/WG2/docs/principles.html</a> for guidelines and details before filling this form.

 $\textbf{Please ensure you are using the latest Form from .} \underline{http://std.dkuug.dk/JTC1/SC2/WG2/docs/summaryform.html.}.$ 

 $\textbf{See also } \underline{ http://std.dkuug.dk/JTC1/SC2/WG2/docs/roadmaps.html} \underline{ \ \, \textbf{for latest } \textit{Roadmaps.} } \\$ 

#### A. Administrative

2. Requester's name: Srinidhi A and Sridatta A					
3. Requester type (Member body/Liaison/Individual contribution): Individual contribution					
4. Submission date: October 20, 2016					
5. Requester's reference (if applicable): N/A					
6. Choose one of the following:					
This is a complete proposal:  Yes					
(or) More information will be provided later:					
B. Technical – General					

1. Choose one of the following:		
a. This proposal is for a new script (set of cha	aracters):	No
Proposed name of script:	N/A	
b. The proposal is for addition of character(s)	Yes	
Name of the existing block:	Telugu	
2. Number of characters in proposal:		1

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)

3. Proposed category (select one from below - see section 2.2 of P&P document):				
A-Contemporary B.1-Specialized (small collection) X B.2-Specialized (large collect	cion)			
C-Major extinct D-Attested extinct E-Minor extinct				
F-Archaic Hieroglyphic or Ideographic G-Obscure or questionable usage syn	nbols			
4. Is a repertoire including character names provided?	Yes			
a. If YES, are the names in accordance with the "character naming guidelines"				
in Annex L of P&P document?	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 t	the standard?			
Not necessary. The glyph may be borrowed from Grantha or Malayalam				
b. Identify the party granting a license for use of the font by the editors (include address, e-mail, ftp-	-site, etc.):			
Not necessary				
6. References:				
a. Are references (to other character sets, dictionaries, descriptive texts etc.) provided?  Yes				
b. Are published examples of use (such as samples from newspapers, magazines, or other sources)				
of proposed characters attached? Yes				
7. 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)?	Yes			
See text of proposal				
8. Additional Information:				
8. Additional Information:  Submitters are invited to provide any additional information about Properties of the proposed Character(s assist in correct understanding of and correct linguistic processing of the proposed character(s) or script.	_			

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 (
<a href="http://www.unicode.org/reports/tr44/">http://www.unicode.org/reports/tr44/</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?		No		
If YES explain	N/A			
2. Has contact been made to members of the user community (for example: National Body,				
user groups of the script or charact	ters, other experts, etc.)?	No		
If YES, with whom?	N/A			
 If YES, available relevant do	ocuments: N/A			
3. Information on the user community fo	r the proposed characters (for example:			
size, demographics, information te	chnology use, or publishing use) is included?	Yes		
Reference:	Used by scholars desiring to document old Telugu books and manuscr	ipts.		
4. The context of use for the proposed ch	aracters (type of use; common or rare)	rare		
Reference:	See text of proposal			
5. Are the proposed characters in current	use by the user community?	Yes		
If YES, where? Reference:	Used by scholars desiring to document old Telugu books an	d manuscripts		
6. After giving due considerations to the principles in the P&P document must the proposed characters be entirely				
in the BMP?		Yes		
If YES, is a rationale prov	ided?	Yes		
If YES, reference:	It belongs to Telugu block which is in BMP			
7. Should the proposed characters be kep	t together in a contiguous range (rather than being scattered)?	N/A		
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 it	ts inclusion provided?	N/A		

If YES, reference:	N/A			
9. Can any of the proposed characters be encoded using a composed character sequence of either				
existing characters or other proposed	characters?	No		
If YES, is a rationale for its i	nclusion provided?	N/A		
If YES, reference:	N/A			
10. Can any of the proposed character(s) be	considered to be similar (in appearance or function)			
to, or could be confused with, an exist	ting character?	Yes		
If YES, is a rationale for its i	nclusion provided?	Yes		
If YES, reference:	Not in Telugu script. Identical characters are accepted in Grantha script property would be different.	The		
11. Does the proposal include use of combining characters and/or use of composite sequences?  Yes				
If YES, is a rationale for such use prov	ided?	Yes		
If YES, reference:	The character is an Indic non-spacing mark.			
Is a list of composite sequences and th	neir corresponding glyph images (graphic symbols) provided?	N/A		
If YES, reference:	N/A			
12. Does the proposal contain characters with any special properties such as				
control function or similar semantics	?	No		
If YES, describe in detail (in	clude attachment if necessary)	N/A		
13. Does the proposal contain any Ideograph	nic compatibility characters?	No		
If YES, are the equivalent correspondi	ing unified ideographic characters identified?	N/A		
If YES, reference:	N/A			