

Proposal to Encode the Gondi Script in ISO/IEC 10646

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1 Introduction

This is a proposal to encode the Gondi script in the Universal Character Set (ISO/IEC 10646). It replaces the following documents:

- N3841 L2/10-207 “Preliminary Proposal to Encode the Gondi Script in the UCS”
- N4291 L2/12-235 “Revised Preliminary Proposal to Encode the Gondi Script”

This document provides a description of the writing system, a code chart and names list, character properties, and specimens that illustrate letterforms and usage.

2 Background

The Gondi script was invented by Munshi Mangal Singh Masaram of Kochewada, Balaghat District, Madhya Pradesh, India in 1918. It has no genetic relationship to other writing systems, but it is based upon the Brahmi model. It is used for writing Gondi (ISO 639-3: gon), a Dravidian language spoken by 2.6 million people, primarily in Madhya Pradesh and Maharashtra, with some speakers in Andhra Pradesh and Chhattisgarh. The language is generally written in both Devanagari and Telugu. The Gondi script is actively used and has been slightly modified over the years in order to facilitate needs of the modern user community. It is used for producing both hand-written and printed materials. Fonts have been developed for the production of books. In 2011, the Akhil Gondvana Gondi Sahitya Parishad (Chandagadh, Maharashtra) passed a resolution adopting Masaram’s script as the official script of the Gondi language.

3 Script Details

3.1 Structure

Gondi is an alphasyllabic script that is written from left to right. Consonant letters possess the inherent vowel *a*, which is graphically represented by a horizontal stroke that extends rightward from the right edge of each consonant glyph. A bare consonant is represented by removing this stroke. Consonant clusters are represented as conjuncts, which are rendered linearly using bare forms for all letters except for the final

consonant. There are some exceptions to this rule. Independent and initial vowels are written using vowel letters, while dependent signs are used for medial and final vowels. There is no *mātrā* reordering.

3.2 Character Repertoire

A total of 72 characters are proposed for encoding in the Gondi script block. A code chart and names list are attached. Names for characters follow the UCS convention for Brahmi-based scripts and align with the Latin transliteration of Devanagari correspondences for Gondi letters given by B. S. Masaram (1951). There are glyphic variations for some consonant letters. These differences result from the simplification of glyphs for ease of writing, ie. sets of independent circles being joined into a single-stroked loop. Representative glyphs are based upon forms shown in published script primers and reflect modern preferences.

The Gondi script is actively used. Consequently, the original script designed by Masaram has been expanded by modern users. Such changes include the addition of new consonant letters, vowel letters, vowel signs, and even the use of a visible VIRAMA for marking a bare consonant. Some of these newly-invented characters are included in the proposed repertoire, while others are not. Rationale for inclusion and exclusion of newly-invented characters is given in section 3.13.

3.3 Vowel Letters

Ten vowel letters are proposed for encoding:

ᱠ	GONDI LETTER A	ᱡ	GONDI LETTER U	ᱢ	GONDI LETTER O
ᱣ	GONDI LETTER AA	ᱤ	GONDI LETTER UU	ᱥ	GONDI LETTER AU
ᱦ	GONDI LETTER I	ᱧ	GONDI LETTER E		
ᱨ	GONDI LETTER II	ᱩ	GONDI LETTER AI		

3.4 Vowel Signs

Ten dependent vowel signs are proposed for encoding:

ᱠ̣	GONDI VOWEL SIGN AA	ᱡ̣	GONDI VOWEL SIGN VOCALIC R
ᱢ̣	GONDI VOWEL SIGN I	ᱣ̣	GONDI VOWEL SIGN E
ᱤ̣	GONDI VOWEL SIGN II	ᱦ̣	GONDI VOWEL SIGN AI
ᱧ̣	GONDI VOWEL SIGN U	ᱨ̣	GONDI VOWEL SIGN O
ᱩ̣	GONDI VOWEL SIGN UU	ᱪ̣	GONDI VOWEL SIGN AU

Vowel signs and modifiers are written above and below the horizontal stroke of a consonant letter:

ᱠ	ᱠ̣	ᱢ̣	ᱣ̣	ᱤ̣	ᱦ̣	ᱧ̣	ᱨ̣	ᱩ̣	ᱪ̣	ᱫ̣
ka	kā	ki	kī	ku	kū	kṛ	ke	kai	ko	kau

They are represented in encoded text as follows:

$k\bar{a}$	0^{F}	<0- KA, 0^{F} SIGN AA>
$k\bar{i}$	0^{I}	<0- KA, 0^{I} SIGN I>
$k\bar{I}$	0^{II}	<0- KA, 0^{II} SIGN II>
$k\bar{u}$	0^{U}	<0- KA, 0^{U} SIGN U>
$k\bar{u}$	0^{UU}	<0- KA, 0^{UU} SIGN UU>
$k\bar{r}$	0^{R}	<0- KA, 0^{R} SIGN VOCALIC R>
$k\bar{e}$	0^{E}	<0- KA, 0^{E} SIGN E>
$k\bar{ai}$	0^{AI}	<0- KA, 0^{AI} SIGN AI>
$k\bar{o}$	0^{O}	<0- KA, 0^{O} SIGN O>
$k\bar{au}$	0^{AU}	<0- KA, 0^{AU} SIGN AU>

There is no independent counterpart to VOWEL SIGN VOCALIC R. The independent form of this vowel is represented using a consonant-vowel combination composed with the letter RA:

r 0^{R} <0- RA, 0^{R} VOWEL SIGN VOCALIC R>

3.5 Vowel modifiers

Two ‘vowel modifiers’ are proposed for encoding:

0^{A}	GONDI SIGN ANUSVARA
0^{V}	GONDI SIGN VISARGA

Anusvara The 0^{A} ANUSVARA is used for marking nasalization. It is placed above the horizontal stroke of a consonant. Its position differs slightly in different sources. In some documents the position is altered by the presence of an accompanying above-base vowel sign:

0^{A} 0^{F} 0^{I} 0^{II} 0^{U} 0^{UU} 0^{R} 0^{E} 0^{AI} 0^{O} 0^{AU}

As shown above, the ANUSVARA occurs in its normal position when there is no vowel sign or the vowel sign is positioned below the stroke. Its position is raised when 0^{F} VOWEL SIGN AA is present. It is placed to the right of the following: 0^{I} VOWEL SIGN I, 0^{II} VOWEL SIGN II, 0^{U} VOWEL SIGN U, 0^{UU} VOWEL SIGN UU, 0^{E} VOWEL SIGN E, 0^{AI} VOWEL SIGN AI. It is placed to the right and raised higher when it occurs with 0^{O} VOWEL SIGN O, 0^{AU} VOWEL SIGN AU. Some modern users prefer a more stationary position for ANUSVARA and place it towards the left edge of the stroke raised slightly higher:

0^{A} 0^{F} 0^{I} 0^{II} 0^{U} 0^{UU} 0^{R} 0^{E} 0^{AI} 0^{O} 0^{AU}

These positional preferences are to be managed in the font. The ANUSVARA is used in encoded text as shown below. It is always placed after a vowel sign in the encoded sequence.

kam 0^{A} <0- KA, 0^{A} SIGN ANUSVARA>

kām 𑌓𑌃 <𑌓 KA, 𑌃 SIGN AA, 𑌃 SIGN ANUSVARA>
kīm 𑌓𑌃𑌃 <𑌓 KA, 𑌃 SIGN II, 𑌃 SIGN ANUSVARA>
kṛṃ 𑌓𑌃𑌃𑌃 <𑌓 KA, 𑌃 SIGN VOCALIC R, 𑌃 SIGN ANUSVARA>

Visarga The 𑌃 VISARGA is used for the representation of Sanskrit words. It is written above the horizontal line of a consonant letter. When occurring with vowel signs its position is adjusted as follows:

𑌃 𑌃𑌃 𑌃𑌃𑌃 𑌃𑌃𑌃𑌃 𑌃𑌃𑌃𑌃𑌃 𑌃𑌃𑌃𑌃𑌃𑌃 𑌃𑌃𑌃𑌃𑌃𑌃𑌃 𑌃𑌃𑌃𑌃𑌃𑌃𑌃𑌃 𑌃𑌃𑌃𑌃𑌃𑌃𑌃𑌃𑌃 𑌃𑌃𑌃𑌃𑌃𑌃𑌃𑌃𑌃𑌃 𑌃𑌃𑌃𑌃𑌃𑌃𑌃𑌃𑌃𑌃𑌃

Some modern sources show the 𑌃 VISARGA written as the glyphic variant 𑌃. This form is placed after the base letter:

𑌃𑌃 𑌃𑌃𑌃 𑌃𑌃𑌃𑌃 𑌃𑌃𑌃𑌃𑌃 𑌃𑌃𑌃𑌃𑌃𑌃 𑌃𑌃𑌃𑌃𑌃𑌃𑌃 𑌃𑌃𑌃𑌃𑌃𑌃𑌃𑌃 𑌃𑌃𑌃𑌃𑌃𑌃𑌃𑌃𑌃 𑌃𑌃𑌃𑌃𑌃𑌃𑌃𑌃𑌃𑌃 𑌃𑌃𑌃𑌃𑌃𑌃𑌃𑌃𑌃𑌃𑌃

The VISARGA is used in encoded text as follows:

kaḥ 𑌓𑌃 <𑌓 KA, 𑌃 SIGN VISARGA>
kāḥ 𑌓𑌃𑌃 <𑌓 KA, 𑌃 SIGN AA, 𑌃 SIGN VISARGA>

3.6 Consonants

There are 34 consonant letters:

𑌓	GONDI LETTER KA	𑌃	GONDI LETTER DDA	𑌃	GONDI LETTER MA
𑌃	GONDI LETTER KHA	𑌃	GONDI LETTER DDHA	𑌃	GONDI LETTER YA
𑌃	GONDI LETTER GA	𑌃	GONDI LETTER NNA	𑌃	GONDI LETTER RA
𑌃	GONDI LETTER GHA	𑌃	GONDI LETTER TA	𑌃	GONDI LETTER LA
𑌃	GONDI LETTER NGA	𑌃	GONDI LETTER THA	𑌃	GONDI LETTER VA
𑌃	GONDI LETTER CA	𑌃	GONDI LETTER DA	𑌃	GONDI LETTER SHA
𑌃	GONDI LETTER CHA	𑌃	GONDI LETTER DHA	𑌃	GONDI LETTER SSA
𑌃	GONDI LETTER JA	𑌃	GONDI LETTER NA	𑌃	GONDI LETTER SA
𑌃	GONDI LETTER JHA	𑌃	GONDI LETTER PA	𑌃	GONDI LETTER HA
𑌃	GONDI LETTER NYA	𑌃	GONDI LETTER PHA	𑌃	GONDI LETTER LLA
𑌃	GONDI LETTER TTA	𑌃	GONDI LETTER BA		
𑌃	GONDI LETTER TTHA	𑌃	GONDI LETTER BHA		

The letter 𑌃 LLA is not part of Masaram's original script. It was introduced by later users in order to properly represent Marathi ऌ *la* (see figure 17 for an example of LLA in usage).

3.7 Virama

The embedding of the inherent vowel into the graphical structure of a consonant is a unique and innovative feature of the Gondi script. The horizontal stroke of each consonant letter represents the inherent vowel; removal of this stroke produces a bare consonant. In traditional Brahmi-based scripts, such as Devanagari, the inherent vowel is not part of the graphical structure of a consonant letter. For this reason these other scripts require some mechanism for indicating the absence of the inherent vowel. In Devanagari this mechanism is the sign called ् *halanta*: क *ka* + ् \rightarrow क् *k*, etc. The Gondi script as designed by Masaram does not have a native *halanta*, as the structure of the script does not require it. However, the encoding model requires a method of controlling the production of a bare consonant. This is achieved through the encoding of the following control character:

◌ GONDI SIGN VIRAMA

The Gondi VIRAMA is identical in shape and function to the corresponding character ◌ U+094D DEVANAGARI SIGN VIRAMA. It is rendered by default as a visible sign. All sequences of a consonant + VIRAMA produce a half-form of the consonant:

<i>k</i>	◌	<◌ KA, ◌ VIRAMA>
<i>kh</i>	◌	<◌ KHA, ◌ VIRAMA>
<i>g</i>	◌	<◌ GA, ◌ VIRAMA>
<i>gh</i>	◌	<◌ GHA, ◌ VIRAMA>
<i>ṅ</i>	◌	<◌ NGA, ◌ VIRAMA>

The representative glyph for the Gondi VIRAMA is identical to the *halanta* or *hal cinha* that was recently introduced into the modern script. In current usage a visible *halanta* is written with the regular full form of a consonant letter for indicating the absence of the inherent vowel (see figure 22). In encoded text, this behavior is to be produced using the generic control character ◌ U+200C ZERO WIDTH NON-JOINER, as is the practice for the representation of visible VIRAMA in Unicode encodings for Indic scripts:

<i>k</i>	◌	<◌ KA, ◌ VIRAMA, ◌ U+200C ZERO WIDTH NON-JOINER>
<i>kh</i>	◌	<◌ KHA, ◌ VIRAMA, ◌ U+200C ZERO WIDTH NON-JOINER>

3.8 Nukta

The ◌ SIGN NUKTA is used for representing sounds that are not native to the Gondi language. It is written beneath the horizontal stroke of a consonant:

ra ◌ <◌ DDA, ◌ NUKTA>

Some users prefer to position the NUKTA below the body of the consonant letter: ◌

3.9 Consonant Conjuncts

Consonant clusters are written as conjuncts, which are rendered linearly using half-forms of all but the final letter in a cluster, eg. ◌◌ *kka*, ◌◌ *kta*, etc. Conjuncts are represented in encoded text by placing the sign ◌

VIRAMA after each non-initial consonant in a cluster. Consonants in the cluster are placed sequentially in the order that they occur in the cluster.

<i>kka</i>	00-	<0- KA, 0 VIRAMA, 0- KA>
<i>hta</i>	0U-	<0- KA, 0 VIRAMA, U- TA>
<i>dga</i>	0T-	<0- DA, 0 VIRAMA, U- GA>
<i>nda</i>	0S-	<0- NA, 0 VIRAMA, S- DA>
<i>rya</i>	0C-	<0- RA, 0 VIRAMA, C- YA>
<i>lla</i>	0N-	<0- LA, 0 VIRAMA, N- LA>
<i>sva</i>	0B-	<0- SHA, 0 VIRAMA, B- VA>

The sequence $\langle (C, 0 \text{ VIRAMA})^*, C_f \rangle$ produces a half-form of all C and the regular full-form of C_f :

<i>ktva</i>	0U8-	<0- KA, 0 VIRAMA, U- TA, 0 VIRAMA, 8- VA>
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There are two exceptions to the rule of conjunct formation: the behavior of RA (explained below) and the use of atomic ligatures for three conjuncts (see section 3.10).

Forms of RA Sources show different ways of writing 0- RA in conjuncts. It occurs in its half-form 0 when cluster-initial or alternately as 0^h when cluster-initial and as 0_r when cluster-final. These are described below:

- *Half-form* The half-form 0 is used for representing semantic distinctions of RA when it occurs at a morphological boundary. Its usage is influenced by Devanagari orthography for the Marathi language, in which र RA is represented as one of two forms when it is the initial consonant in a cluster: the 0 regular *repha* and the 0^h ‘eyelash’ *repha*. The distinction between the two types of *repha* is both morphological and phonemic. For example, the ‘eyelash’ *repha* marks plural suffixes — compare दऱ्या *daryā* ‘valleys’ and दऱ्या *daryā* ‘ocean’ — and inflectional suffixes: आचाऱ्यास *ācāryās* ‘to the cook’ and आचार्यास *ācāryās* ‘to the teacher’.
- *Repha* The secondary cluster-initial form 0^h of RA is known as *repha*. It is written above the horizontal line of the final consonant in a conjunct and is placed to the right above an extension of the horizontal stroke if there is an accompanying above vowel sign:

0^h 0^h 0^h 0^h 0^h 0^h 0^h 0^h 0^h 0^h

Some modern sources show the 0^h *repha* represented using the form 0^h, eg. 0^h. This form is a glyphic variant and is to be handled by the font.

- *Ra-kāra* The secondary cluster-final form 0_r of RA is known as *ra-kāra*. It is written below the horizontal line of a consonant glyph: 0- ka + 0- ra → 0_r kra. If a below-base vowel sign is attached to the consonant, then the sign is placed after *ra-kāra* beneath an extension of the horizontal line:

0_r 0_r 0_r 0_r 0_r 0_r 0_r 0_r 0_r 0_r

Some modern sources show the 0_r *ra-kāra* represented using the form 0_r, eg. 0_r. This form is a glyphic variant and is to be handled by the font.

The proposed representation for the three forms of RA requires an exception to the rule of conjunct formation. The general rule states that the sequence <RA, VIRAMA> is rendered normatively using the half-form 𑌒. It also states that <C, VIRAMA, RA> would produce the half-form of C and the full-form of RA. For this reason another method is required for the encoded representation of 𑌒 *repha* and 𑌒 *ra-kāra*, for which the expected representations would also be <RA, VIRAMA> and <C, VIRAMA, RA>, respectively. The generic control character 𑌒 U+200D ZERO WIDTH JOINER offers a mechanism for representing the *repha* and *ra-kāra*. The proposed encoded representation of the three forms of RA are as follows:

half-form 𑌒 <𑌒 RA, 𑌒 VIRAMA, C>
repha 𑌒 <𑌒 RA, 𑌒 ZERO WIDTH JOINER, 𑌒 VIRAMA, C>
ra-kāra 𑌒 <C, 𑌒 VIRAMA, 𑌒 RA, 𑌒 ZERO WIDTH JOINER>

This approach provides a means for accommodating all possible representations of RA in Gondi

rha 𑌒𑌒 <𑌒 RA, 𑌒 VIRAMA, 𑌒 HA>
rha 𑌒𑌒 <𑌒 RA, 𑌒 ZERO WIDTH JOINER, 𑌒 VIRAMA, 𑌒 HA>
hra 𑌒𑌒 <𑌒 HA, 𑌒 VIRAMA, 𑌒 RA>
hra 𑌒𑌒 <𑌒 HA, 𑌒 VIRAMA, 𑌒 RA, 𑌒 ZERO WIDTH JOINER>

It also provides a way to handle hypothetical sequences entered by a user:

rra 𑌒𑌒 <𑌒 RA, 𑌒 VIRAMA, 𑌒 RA>
rra 𑌒𑌒 <𑌒 RA, 𑌒 ZERO WIDTH JOINER, 𑌒 VIRAMA, 𑌒 RA>
rra 𑌒𑌒 <𑌒 RA, 𑌒 VIRAMA, 𑌒 RA, 𑌒 ZERO WIDTH JOINER>

The *repha* requires reordering during rendering. The glyph is to be placed at the end of the cluster after any accompanying vowel signs.

3.10 Conjunct letters

The clusters *kṣa*, *jña*, *tra* are represented not as conjuncts, but as distinctive letters. These are proposed for encoding as atomic letters:

𑌒 GONDI LETTER KSSA
 𑌒 GONDI LETTER JNYA
 𑌒 GONDI LETTER TRA

Following the rules of conjunct formation, the expected representation of these three conjuncts would be:

kṣa 𑌒𑌒 <𑌒 KA, 𑌒 VIRAMA, 𑌒 SSA>
jña 𑌒𑌒 <𑌒 JA, 𑌒 VIRAMA, 𑌒 NYA>
tra 𑌒𑌒 <𑌒 TA, 𑌒 VIRAMA, 𑌒 RA>

In the Gondi script, each of these three letters represent a phoneme that is phonetically a consonant cluster, but, they all have the structure of an atomic letter. These forms are encoded as consonant letters because in all cases consonant conjuncts are written as linear sequences of half-forms, not as ligatures. While in most Indic scripts the written forms for *kṣa*, *jña*, *tra* have encoded representations as a character sequence, such an approach would not be consistent with this script.

It is evident that these ligatures were developed because distinctive forms exist in Devanagari. These three conjuncts are often shown at the end of Devanagari orthographies for various languages and are often interpreted by users as being distinctive letters that are fundamental elements of the script.

3.11 Digits

There is a full set of digits:

0	GONDI DIGIT ZERO	᱐	GONDI DIGIT FOUR	᱙	GONDI DIGIT EIGHT
᱁	GONDI DIGIT ONE	᱑	GONDI DIGIT FIVE	ᱚ	GONDI DIGIT NINE
᱂	GONDI DIGIT TWO	᱒	GONDI DIGIT SIX		
᱃	GONDI DIGIT THREE	᱓	GONDI DIGIT SEVEN		

3.12 Punctuation

Script-specific punctuation is not attested. The *daṇḍā* and double *daṇḍā* are commonly; these are not included in the Gondi block, but are to be unified with ᱁ U+0964 DEVANAGARI DANDA and ᱂ U+0965 DEVANAGARI DOUBLE DANDA. Latin marks of punctuation, such as periods, are also used.

3.13 Characters Not Proposed for Encoding

The following are newly-invented characters. Their actual usage beyond their inclusion in new charts of the script is unknown. For this reason, they are not proposed for encoding at present. Space has been reserved in the code chart for their future inclusion in the event that usage of these characters becomes conventional.

Representation of Dravidian vowels /e:/ and /o:/ The vowels /e:/ and /o:/ are distinct phonemes in Gondi. They are represented in the Telugu orthography for Gondi using ᱠ *ē* and ᱡ *ō*. Neither independent letters or dependent signs for these vowels exist in the original script designed by Masaram. Modern users have tried to fill this gap by borrowing signs used for short vowels in Devanagari. The book *Koyābolī* by Sītārām Maṇḍāle shows the following additions to the script:

/e:/ ᱠ ᱡ
/o:/ ᱢ ᱣ

The above representation of /e:/ in the Gondi script consists of the sign ᱡ combined with the vowel letter ᱠ. This form is borrowed from Devanagari, where the sign ᱡ (U+0946 DEVANAGARI VOWEL SIGN SHORT E) is used for representing the short vowel /e/ and the independent form of the vowel is formed by combining the sign with Devanagari letter ᱠ U+090F DEVANAGARI LETTER E to produce ᱡ (U+090E DEVANAGARI LETTER SHORT E). Similarly, the vowel /o:/ is represented as ᱢ which is a combination of ᱡ and ᱣ VOWEL SIGN AA. The independent form ᱢ is produced by combining the sign ᱡ with ᱣ VOWEL LETTER AA. This concept

is also borrowed from Devanagari, in which the sign ॐ is combined with ॐ (U+093E DEVANAGARI VOWEL SIGN AA) to produce ॐ (U+094A DEVANAGARI VOWEL SIGN SHORT O).

4 Character Data

4.1 Character Properties

The properties for Gondi in the Unicode Character Database format are:

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11B90;GONDI LETTER A;Lo;0;L;;;;N;;;;;
11B91;GONDI LETTER AA;Lo;0;L;;;;N;;;;;
11B92;GONDI LETTER I;Lo;0;L;;;;N;;;;;
11B93;GONDI LETTER II;Lo;0;L;;;;N;;;;;
11B94;GONDI LETTER U;Lo;0;L;;;;N;;;;;
11B95;GONDI LETTER UU;Lo;0;L;;;;N;;;;;
11B96;GONDI LETTER E;Lo;0;L;;;;N;;;;;
11B98;GONDI LETTER AI;Lo;0;L;;;;N;;;;;
11B99;GONDI LETTER O;Lo;0;L;;;;N;;;;;
11B9B;GONDI LETTER AU;Lo;0;L;;;;N;;;;;
11B9C;GONDI LETTER KA;Lo;0;L;;;;N;;;;;
11B9D;GONDI LETTER KHA;Lo;0;L;;;;N;;;;;
11B9E;GONDI LETTER GA;Lo;0;L;;;;N;;;;;
11B9F;GONDI LETTER GHA;Lo;0;L;;;;N;;;;;
11BA0;GONDI LETTER NGA;Lo;0;L;;;;N;;;;;
11BA1;GONDI LETTER CA;Lo;0;L;;;;N;;;;;
11BA2;GONDI LETTER CHA;Lo;0;L;;;;N;;;;;
11BA3;GONDI LETTER JA;Lo;0;L;;;;N;;;;;
11BA4;GONDI LETTER JHA;Lo;0;L;;;;N;;;;;
11BA5;GONDI LETTER NYA;Lo;0;L;;;;N;;;;;
11BA6;GONDI LETTER TTA;Lo;0;L;;;;N;;;;;
11BA7;GONDI LETTER TTHA;Lo;0;L;;;;N;;;;;
11BA8;GONDI LETTER DDA;Lo;0;L;;;;N;;;;;
11BA9;GONDI LETTER DDHA;Lo;0;L;;;;N;;;;;
11BAA;GONDI LETTER NNA;Lo;0;L;;;;N;;;;;
11BAB;GONDI LETTER TA;Lo;0;L;;;;N;;;;;
11BAC;GONDI LETTER THA;Lo;0;L;;;;N;;;;;
11BAD;GONDI LETTER DA;Lo;0;L;;;;N;;;;;
11BAE;GONDI LETTER DHA;Lo;0;L;;;;N;;;;;
11BAF;GONDI LETTER NA;Lo;0;L;;;;N;;;;;
11BB0;GONDI LETTER PA;Lo;0;L;;;;N;;;;;
11BB1;GONDI LETTER PHA;Lo;0;L;;;;N;;;;;
11BB2;GONDI LETTER BA;Lo;0;L;;;;N;;;;;
11BB3;GONDI LETTER BHA;Lo;0;L;;;;N;;;;;
11BB4;GONDI LETTER MA;Lo;0;L;;;;N;;;;;
11BB5;GONDI LETTER YA;Lo;0;L;;;;N;;;;;
11BB6;GONDI LETTER RA;Lo;0;L;;;;N;;;;;
11BB7;GONDI LETTER LA;Lo;0;L;;;;N;;;;;
11BB8;GONDI LETTER VA;Lo;0;L;;;;N;;;;;
11BB9;GONDI LETTER SHA;Lo;0;L;;;;N;;;;;
11BBA;GONDI LETTER SSA;Lo;0;L;;;;N;;;;;
11BBB;GONDI LETTER SA;Lo;0;L;;;;N;;;;;
11BBC;GONDI LETTER HA;Lo;0;L;;;;N;;;;;
11BBD;GONDI LETTER LLA;Lo;0;L;;;;N;;;;;
11BBE;GONDI LETTER KSSA;Lo;0;L;;;;N;;;;;
11BBF;GONDI LETTER JNYA;Lo;0;L;;;;N;;;;;
11BC0;GONDI LETTER TRA;Lo;0;L;;;;N;;;;;
11BC1;GONDI VOWEL SIGN AA;Mn;0;NSM;;;;N;;;;;
11BC2;GONDI VOWEL SIGN I;Mn;0;NSM;;;;N;;;;;
11BC3;GONDI VOWEL SIGN II;Mn;0;NSM;;;;N;;;;;

```

```

11BC4;GONDI VOWEL SIGN U;Mn;0;NSM;;;;;N;;;;;
11BC5;GONDI VOWEL SIGN UU;Mn;0;NSM;;;;;N;;;;;
11BC6;GONDI VOWEL SIGN VOCALIC R;Mn;0;NSM;;;;;N;;;;;
11BCA;GONDI VOWEL SIGN E;Mn;0;NSM;;;;;N;;;;;
11BCC;GONDI VOWEL SIGN AI;Mn;0;NSM;;;;;N;;;;;
11BCD;GONDI VOWEL SIGN O;Mn;0;NSM;;;;;N;;;;;
11BCF;GONDI VOWEL SIGN AU;Mn;0;NSM;;;;;N;;;;;
11BD0;GONDI SIGN ANUSVARA;Mn;0;NSM;;;;;N;;;;;
11BD1;GONDI SIGN VISARGA;Mn;0;NSM;;;;;N;;;;;
11BD2;GONDI SIGN VIRAMA;Mn;9;NSM;;;;;N;;;;;
11BD3;GONDI SIGN NUKTA;Mn;7;NSM;;;;;N;;;;;
11BE0;GONDI DIGIT ZERO;Nd;0;L;;0;0;0;N;;;;;
11BE1;GONDI DIGIT ONE;Nd;0;L;;1;1;1;N;;;;;
11BE2;GONDI DIGIT TWO;Nd;0;L;;2;2;2;N;;;;;
11BE3;GONDI DIGIT THREE;Nd;0;L;;3;3;3;N;;;;;
11BE4;GONDI DIGIT FOUR;Nd;0;L;;4;4;4;N;;;;;
11BE5;GONDI DIGIT FIVE;Nd;0;L;;5;5;5;N;;;;;
11BE6;GONDI DIGIT SIX;Nd;0;L;;6;6;6;N;;;;;
11BE7;GONDI DIGIT SEVEN;Nd;0;L;;7;7;7;N;;;;;
11BE8;GONDI DIGIT EIGHT;Nd;0;L;;8;8;8;N;;;;;
11BE9;GONDI DIGIT NINE;Nd;0;L;;9;9;9;N;;;;;

```

4.2 Linebreaking

Linebreaking properties given in the data format of LineBreak.txt:

```

11B90..11BC0; AL # GONDI LETTER A .. GONDI LETTER TRA
11BC1..11BD3; CM # GONDI SIGN AA .. GONDI SIGN NUKTA
11BE0..11BE9; NU # GONDI DIGIT ZERO .. GONDI DIGIT NINE

```

4.3 Syllabic Categories

Syllabic categories given in the format of IndicSyllabicCategory.txt:

```

# Indic_Syllabic_Category=Bindu
11BD0 ; Bindu # Mn SIGN ANUSVARA

# Indic_Syllabic_Category=Visarga
11BD1 ; Visarga # Mc SIGN VISARGA

# Indic_Syllabic_Category=Virama
11BD2 ; Virama # Mn SIGN VIRAMA

# Indic_Syllabic_Category=Vowel_Independent
11B90..11B9B ; Vowel_Independent # Lo [10] LETTER A .. LETTER AU

# Indic_Syllabic_Category=Vowel_Dependent
11BC1..11BCA ; Vowel_Dependent # Mn [6] VOWEL SIGN AA .. VOWEL SIGN VOCALIC R
11BCA ; Vowel_Dependent # Mn VOWEL SIGN E
11BCC..11BCD ; Vowel_Dependent # Mn [2] VOWEL SIGN AI .. VOWEL SIGN O
11BCF ; Vowel_Dependent # Mn VOWEL SIGN AU

# Indic_Syllabic_Category=Consonant
11A5C..1181F ; Consonant # Lo [40] LETTER KA .. LETTER TRA

```

4.4 Positional Categories

Positional data for Gondi combining signs in the format of `IndicPositionalCategory.txt`:

```
# Indic_Positional_Category=Top
11BC1..11BCA ; Top # Mn [6] VOWEL SIGN AA .. VOWEL SIGN VOCALIC R
11BCA ; Top # Mn VOWEL SIGN E
11BCC..11BCD ; Top # Mn [2] VOWEL SIGN AI .. VOWEL SIGN O
11BCF ; Top # Mn VOWEL SIGN AU
11BD0 ; Top # Mn SIGN ANUSVARA
11BD1 ; Top # Mn SIGN VISARGA

# Indic_Positional_Category=Bottom
11BD2 ; Bottom # Mn SIGN VIRAMA
11BD3 ; Bottom # Mn SIGN NUKTA
```

4.5 ‘Confusable’ Characters

Gondi characters that bear resemblances to those of other scripts are listed below:

```
11BC1 GONDI VOWEL SIGN AA ; 0304 COMBINING MACRON
11BB1 GONDI LETTER PHA ; 1109D KAITHI LETTER NNA
11BBA GONDI LETTER SSA ; 0398 GREEK CAPITAL LETTER THETA
11BE2 GONDI DIGIT TWO ; 0055 LATIN CAPITAL LETTER U
```

5 References

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Masaram, Mangalasinha. 1951. “गोंडी लिपि” [Goṃḍī lipi]. Central Institute of Indian Languages, Multimedia library, photograph no. 64.

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———. 2012. “Revised Preliminary Proposal to Encode the Gondi Script”. ISO/IEC JTC1/ SC2/WG2 N4291 L2/12-235. July 23, 2012. <http://std.dkuug.dk/jtc1/sc2/wg2/docs/n4291.pdf>

































































































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रामानन्द [Rāmānanda]. गोंडी अक्षर ज्ञान [Goṃḍī Akṣara Jñāna].

6 Acknowledgments

I owe much gratitude to Mukund Gokhale (Script Research Institute, Pune) for providing me with materials in the Gondi script and details on the current usage of the script. The Gondi chart shown in figure 1 was provided by B. A. Sharada and Suman Kumari of the Central Institute of Indian Languages (Mysore). Mark Penny provided the chart shown in figure 5.

This project was made possible in part through a Google Research Award, granted to Deborah Anderson for the Script Encoding Initiative. Research for earlier phases of this project was made possible in part by a grant from the United States National Endowment for the Humanities, which funded the Universal Scripts Project (part of the Script Encoding Initiative at the University of California, Berkeley). Any views, findings, conclusions or recommendations expressed in this publication do not necessarily reflect those of Google or the National Endowment for the Humanities.

	11B9	11BA	11BB	11BC	11BD	11BE
0	 11B90	 11BA0	 11BB0	 11BC0	 11BD0	 11BE0
1	 11B91	 11BA1	 11BB1	 11BC1	 11BD1	 11BE1
2	 11B92	 11BA2	 11BB2	 11BC2	 11BD2	 11BE2
3	 11B93	 11BA3	 11BB3	 11BC3	 11BD3	 11BE3
4	 11B94	 11BA4	 11BB4	 11BC4		 11BE4
5	 11B95	 11BA5	 11BB5	 11BC5		 11BE5
6	 11B96	 11BA6	 11BB6	 11BC6		 11BE6
7		 11BA7	 11BB7			 11BE7
8	 11B98	 11BA8	 11BB8			 11BE8
9	 11B99	 11BA9	 11BB9			 11BE9
A		 11BAA	 11BBA	 11BCA		
B	 11B9B	 11BAB	 11BBB			
C	 11B9C	 11BAC	 11BBC	 11BCC		
D	 11B9D	 11BAD	 11BBD	 11BCD		
E	 11B9E	 11BAE	 11BBE			
F	 11B9F	 11BAF	 11BBF	 11BCF		

Vowels

11B90	ᳵ	GONDI LETTER A
11B91	ᳶ	GONDI LETTER AA
11B92	᳷	GONDI LETTER I
11B93	᳸	GONDI LETTER II
11B94	᳹	GONDI LETTER U
11B95	ᳺ	GONDI LETTER UU
11B96	᳻	GONDI LETTER E
11B97	᳼	<reserved>
11B98	᳽	GONDI LETTER AI
11B99	᳾	GONDI LETTER O
11B9A	᳿	<reserved>
11B9B	᳠	GONDI LETTER AU

Consonants

11B9C	᳡	GONDI LETTER KA
11B9D	᳢	GONDI LETTER KHA
11B9E	᳣	GONDI LETTER GA
11B9F	᳤	GONDI LETTER GHA
11BA0	᳥	GONDI LETTER NGA
11BA1	᳦	GONDI LETTER CA
11BA2	᳧	GONDI LETTER CHA
11BA3	᳨	GONDI LETTER JA
11BA4	ᳩ	GONDI LETTER JHA
11BA5	ᳪ	GONDI LETTER NYA
11BA6	ᳫ	GONDI LETTER TTA
11BA7	ᳬ	GONDI LETTER TTHA
11BA8	᳭	GONDI LETTER DDA
11BA9	ᳮ	GONDI LETTER DDHA
11BAA	ᳯ	GONDI LETTER NNA
11BAB	ᳰ	GONDI LETTER TA
11BAC	ᳱ	GONDI LETTER THA
11BAD	ᳲ	GONDI LETTER DA
11BAE	ᳳ	GONDI LETTER DHA
11BAF	᳴	GONDI LETTER NA
11BB0	ᳵ	GONDI LETTER PA
11BB1	ᳶ	GONDI LETTER PHA
11BB2	᳷	GONDI LETTER BA
11BB3	᳸	GONDI LETTER BHA
11BB4	᳹	GONDI LETTER MA
11BB5	ᳺ	GONDI LETTER YA
11BB6	᳻	GONDI LETTER RA
11BB7	᳼	GONDI LETTER LA
11BB8	᳽	GONDI LETTER VA
11BB9	᳾	GONDI LETTER SHA
11BBA	᳿	GONDI LETTER SSA
11BBB	᳠	GONDI LETTER SA
11BBC	᳡	GONDI LETTER HA
11BBD	᳢	GONDI LETTER LLA

Conjunct letters

11BBE	᳤᳥	GONDI LETTER KSSA
11BBF	᳥᳦	GONDI LETTER JNYA
11BC0	᳦᳧	GONDI LETTER TRA

Dependent vowel signs

11BC1	ᳵᳶ	GONDI VOWEL SIGN AA
11BC2	ᳵ᳷	GONDI VOWEL SIGN I
11BC3	ᳵ᳸	GONDI VOWEL SIGN II
11BC4	ᳵ᳹	GONDI VOWEL SIGN U
11BC5	ᳵᳺ	GONDI VOWEL SIGN UU
11BC6	ᳵ᳻	GONDI VOWEL SIGN VOCALIC R
11BC7	᳼	<reserved>
11BC8	᳽	<reserved>
11BC9	᳾	<reserved>
11BCA	᳿	GONDI VOWEL SIGN E
11BCB	᳠	<reserved>

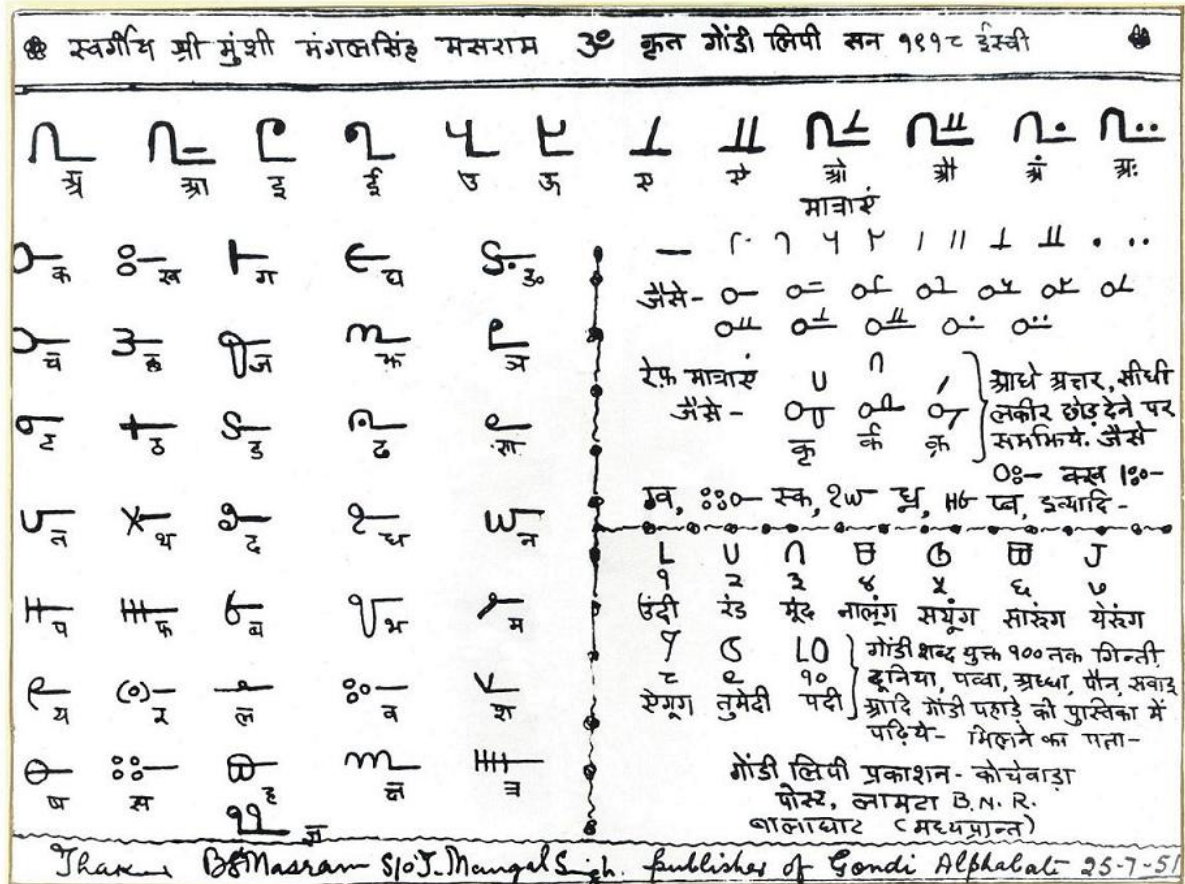
11BCC	᳡᳢	GONDI VOWEL SIGN AI
11BCD	᳡᳣	GONDI VOWEL SIGN O
11BCE	᳡᳤	<reserved>
11BCF	᳡᳥	GONDI VOWEL SIGN AU

Various signs

11BD0	᳦᳧	GONDI SIGN ANUSVARA
11BD1	᳦᳨	GONDI SIGN VISARGA
11BD2	᳦ᳩ	GONDI SIGN VIRAMA
11BD3	᳦ᳪ	GONDI SIGN NUKTA

Digits

11BE0	0	GONDI DIGIT ZERO
11BE1	ᳵ	GONDI DIGIT ONE
11BE2	ᳶ	GONDI DIGIT TWO
11BE3	᳷	GONDI DIGIT THREE
11BE4	᳸	GONDI DIGIT FOUR
11BE5	᳹	GONDI DIGIT FIVE
11BE6	ᳺ	GONDI DIGIT SIX
11BE7	᳻	GONDI DIGIT SEVEN
11BE8	᳼	GONDI DIGIT EIGHT
11BE9	᳽	GONDI DIGIT NINE



SRI MUNSHI MANGALASIMHA MASARAM KRIT GONDI LIPI - 25.7.1951

Figure 1: A document illustrating the basic principles of the Gondi script (Masaram 1951). Courtesy of the Central Institute of Indian Languages (Mysore).

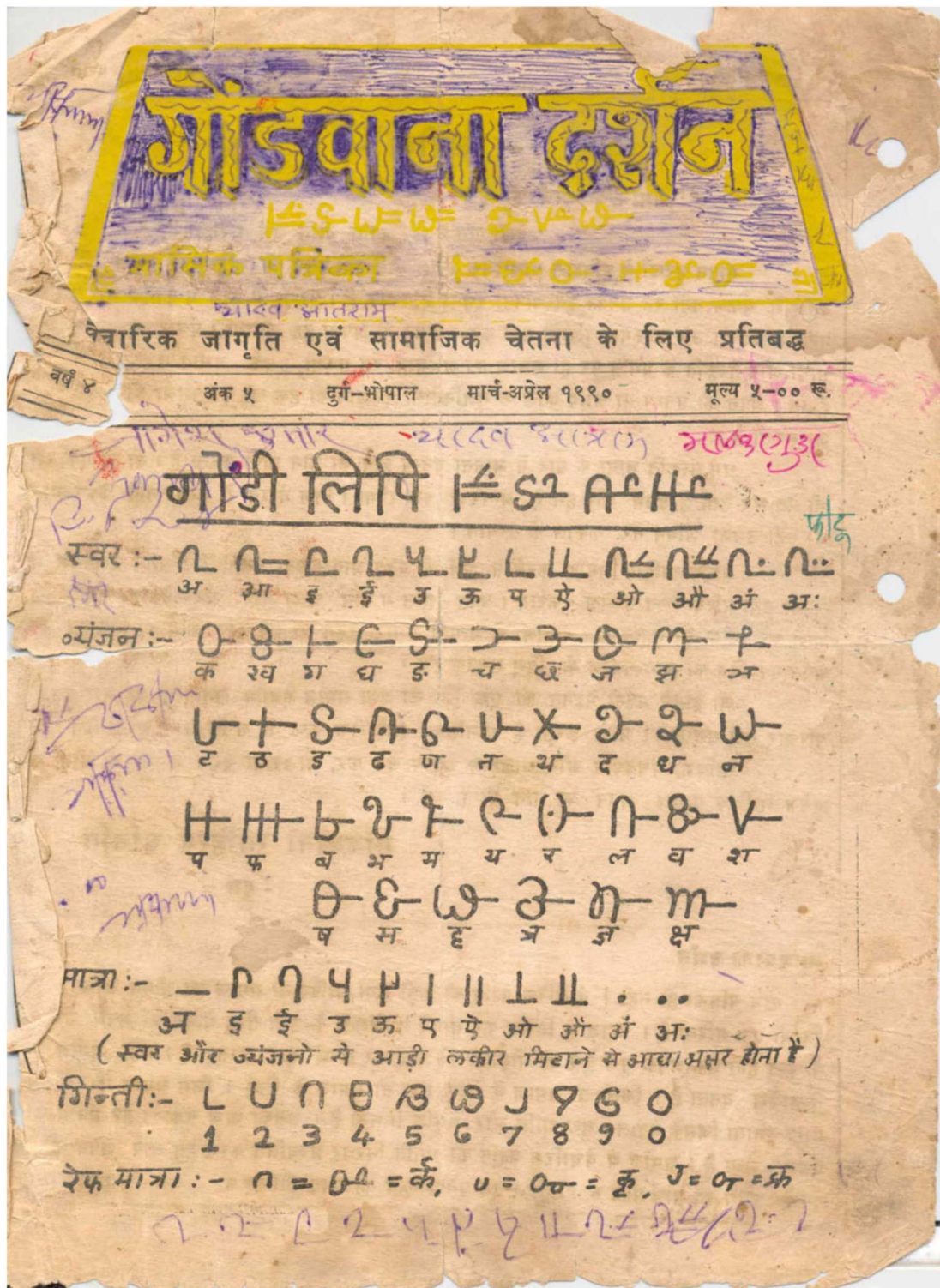


Figure 2: Cover of Gondwana Darshan (March-April 1990, vol. 5).

४- WO- (वंजेग) व्यंजन			
0-8-1-5-3-0	M-1		
6-1-5-1-6-1-4-8-2-2	W-		
H-1-1-6-1-1-1-1-8-1			
0-8-1-5-3-0	M-1		
05 WO- (कूक) मात्राएं			
- 1-05 W अर्कून	1 अकार	0-+-=0-	
1 1-05 W इर्कून	1 इकार	0-+1=01	
1 2-05 W ईर्कून	2 ईकार	0-+1=02	
4 4-05 W उर्कून	4 उकार	0-+4=04	
1 1-05 W अर्कून	1 अकार	0-+1=01	
1 1-05 W एर्कून	1 एकार	0-+1=01	
11 11-05 W ऐर्कून	11 ऐकार	0-+11=011	
1 1-05 W ओर्कून	1 ओकार	0-+1=01	
11 11-05 W और्कून	11 औकार	0-+11=011	
• 1-05 W अंकून	• अंकार	0-+•=0•	
•• 1-05 W अःकून	•• अःकार	0-+••=0••	

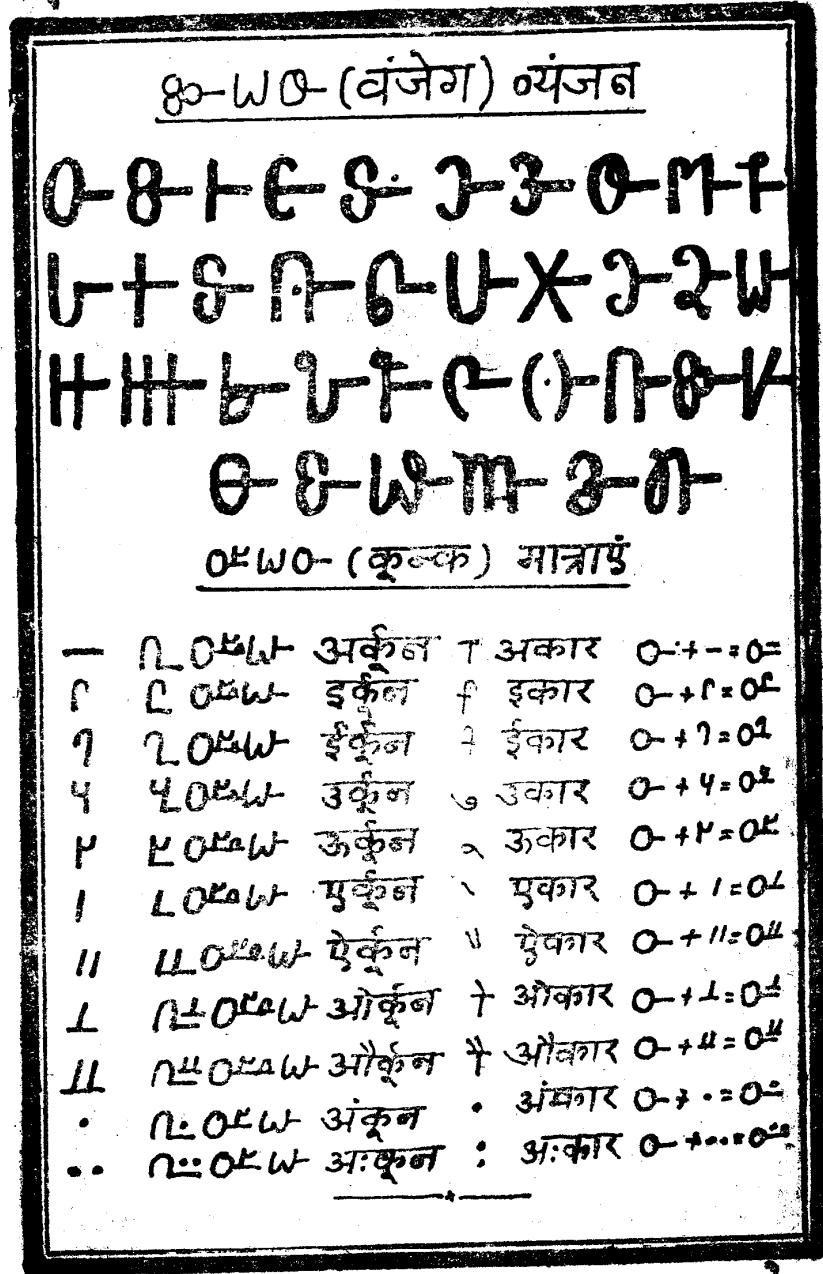


Figure 4: Page from *Gomdi Lamk Pundant* showing consonants and vowel signs, and consonant-vowel combinations (from Guruji: 11).

Consonants व्यञ्जन

	Cons. only	– [voice]		+ [voice]		Nasals	Cons. with word
<i>Aspiration</i>		– [asp]	+ [asp]	– [asp]	+ [asp]		
Velar		ᳵ	ᳶ	᳷	᳸	᳹	
Palatal		ᳺ	᳻	᳼	᳽	᳾	
Retroflex		᳼	᳽	᳾	᳿	ᳺ	
Dental		᳼	᳽	᳾	᳿	ᳺ	
Bilabial		᳼	᳽	᳾	᳿	ᳺ	
Liquids and Semi-Vowels		᳼	᳽	᳾	᳿	ᳺ	
Fricatives		᳼	᳽	᳾	᳿	ᳺ	
Affricates		᳼	᳽	᳾	᳿	ᳺ	

Vowels स्वर

	ᳵ	ᳶ	᳷	᳸	᳹		
	ᳺ	᳻	᳼	᳽	᳾	᳿	

Figure 5: A handwritten chart of the Gondi script. Source: Ramesh Gedam and Mark Penny (2001).

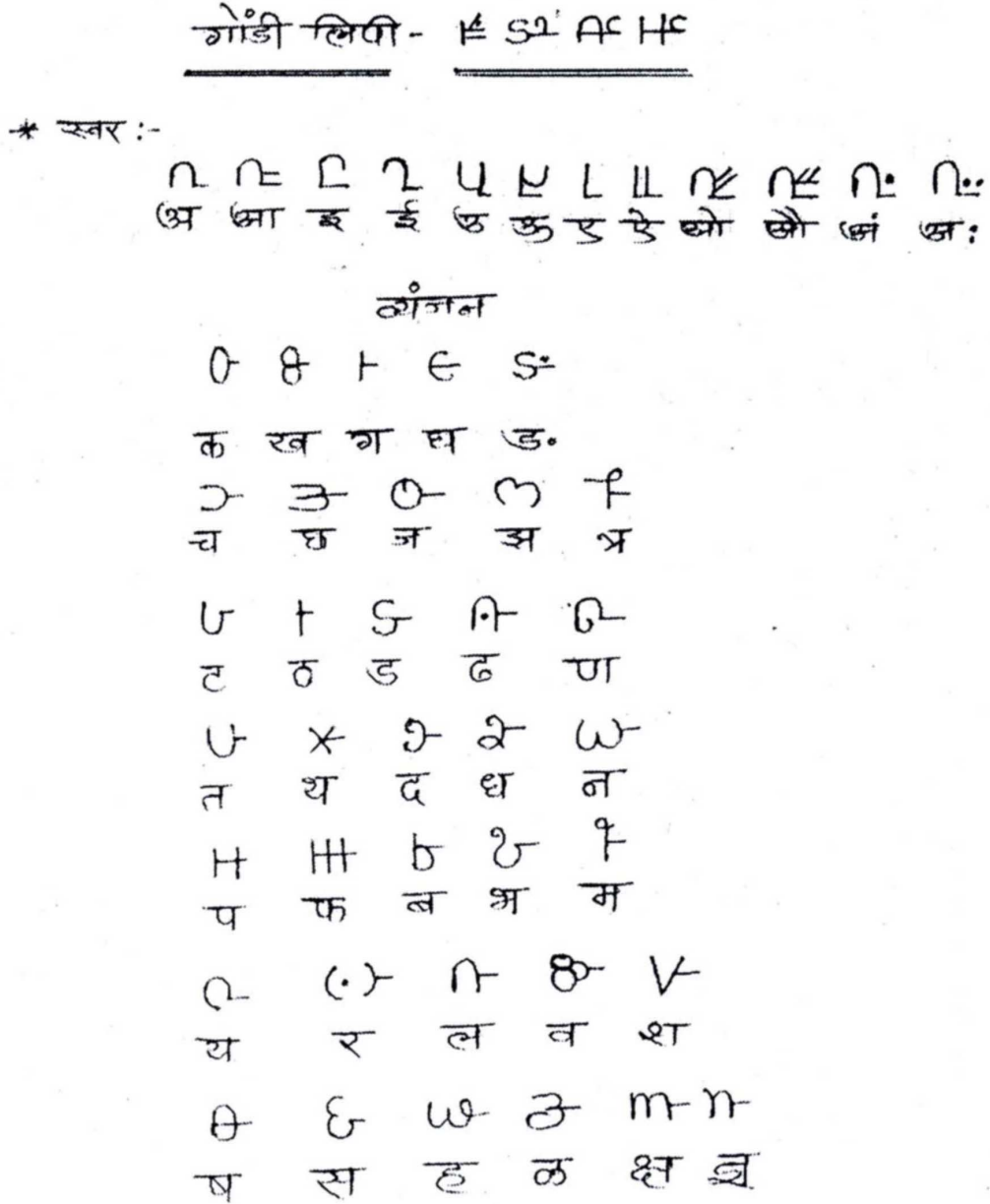
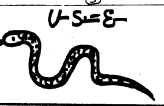
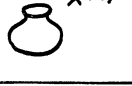

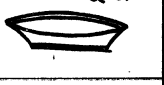





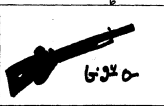

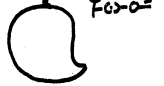




Figure 6: A handwritten chart of the Gondi script (Maṇḍāle 2008: 8).

	८५०	८५० लक ८५० लक चशमा
	१६६ 	१६६ ओटा १६६ ओर दहलान
	१६७८ 	१६७८ औजार १६७८ औकून ठथियार
	१६९९ 	१६९९ अंबाडी १६९९ अंकून सबजी-भाजी
		१६९९ अः कून १६ मः अः

क	ज	ऊ	उ
ख	झ	ए	ऋ
ग	ण	इ	ॠ
घ	त	ई	ॡ
च	थ	उ	ऋ
छ	द	ए	ॠ
ज	ध	इ	ॡ
झ	न	उ	ऋ
ट	प	ए	ॠ
ड	फ	इ	ॡ
ण	ब	उ	ऋ
त	क	ए	ॠ
थ	ख	इ	ॡ
द	ग	उ	ऋ
ध	घ	ए	ॠ
न	च	इ	ॡ
प	छ	उ	ऋ
फ	ज	ए	ॠ
ब	झ	इ	ॡ
क	ट	उ	ऋ
ख	ड	ए	ॠ
ग	ण	इ	ॡ
घ	त	उ	ऋ
च	थ	ए	ॠ
छ	द	इ	ॡ
ज	ध	उ	ऋ
झ	न	ए	ॠ
ट	प	इ	ॡ
ड	फ	उ	ऋ
ण	ब	ए	ॠ
त	क	इ	ॡ
थ	ख	उ	ऋ
द	ग	ए	ॠ
ध	घ	इ	ॡ
न	च	उ	ऋ
प	छ	ए	ॠ
फ	ज	इ	ॡ
ब	झ	उ	ऋ
क	ट	ए	ॠ
ख	ड	इ	ॡ
ग	ण	उ	ऋ
घ	त	ए	ॠ
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छ	द	उ	ऋ
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झ	न	इ	ॡ
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छ	द	इ	ॡ
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ब	झ	ए	ॠ
क	ट	इ	ॡ
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घ	त	इ	ॡ
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छ	द	ए	ॠ
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द	ग	उ	ऋ
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प	छ	उ	ऋ
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घ	त	उ	ऋ
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ग	ण	उ	ऋ
घ	त	ए	ॠ
च	थ	इ	ॡ
छ	द	उ	ऋ
ज	ध	ए	ॠ
झ	न	इ	ॡ
ट	प	उ	ऋ
ड	फ	ए	ॠ
ण	ब	इ	ॡ
त	क	उ	ऋ
थ	ख	ए	ॠ
द	ग	इ	ॡ
ध	घ	उ	ऋ
न	च	ए	ॠ
प	छ	इ	ॡ
फ	ज	उ	ऋ
ब	झ	ए	ॠ
क			

Figure 7: Page from *Gomḍī Akṣara Jñāna* showing vowel letters (from Rāmānanda: 1–4).

त		तडास नाग लकनार
थ		थानी थड़ी लोटा
द		दवड़ी दवाई डलियो
ध		धडीया धका कोपर
न		नय कुना नलर
प		पन्ते पतंग मेदक
फ		फन्नी फनकाड़ फन

ब		बन्दक बरमो बन्दक
भ		भाला भर बरही
म		मरका मड़ा आम
य		येरन्डी यायाळ अरन्डी
र		रन्दा रच्यो रिन्दा
ल		लसून लका लहरून
व		वरबुड वरच बरवर

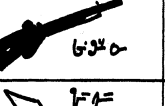

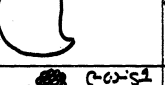
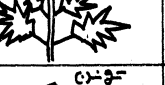



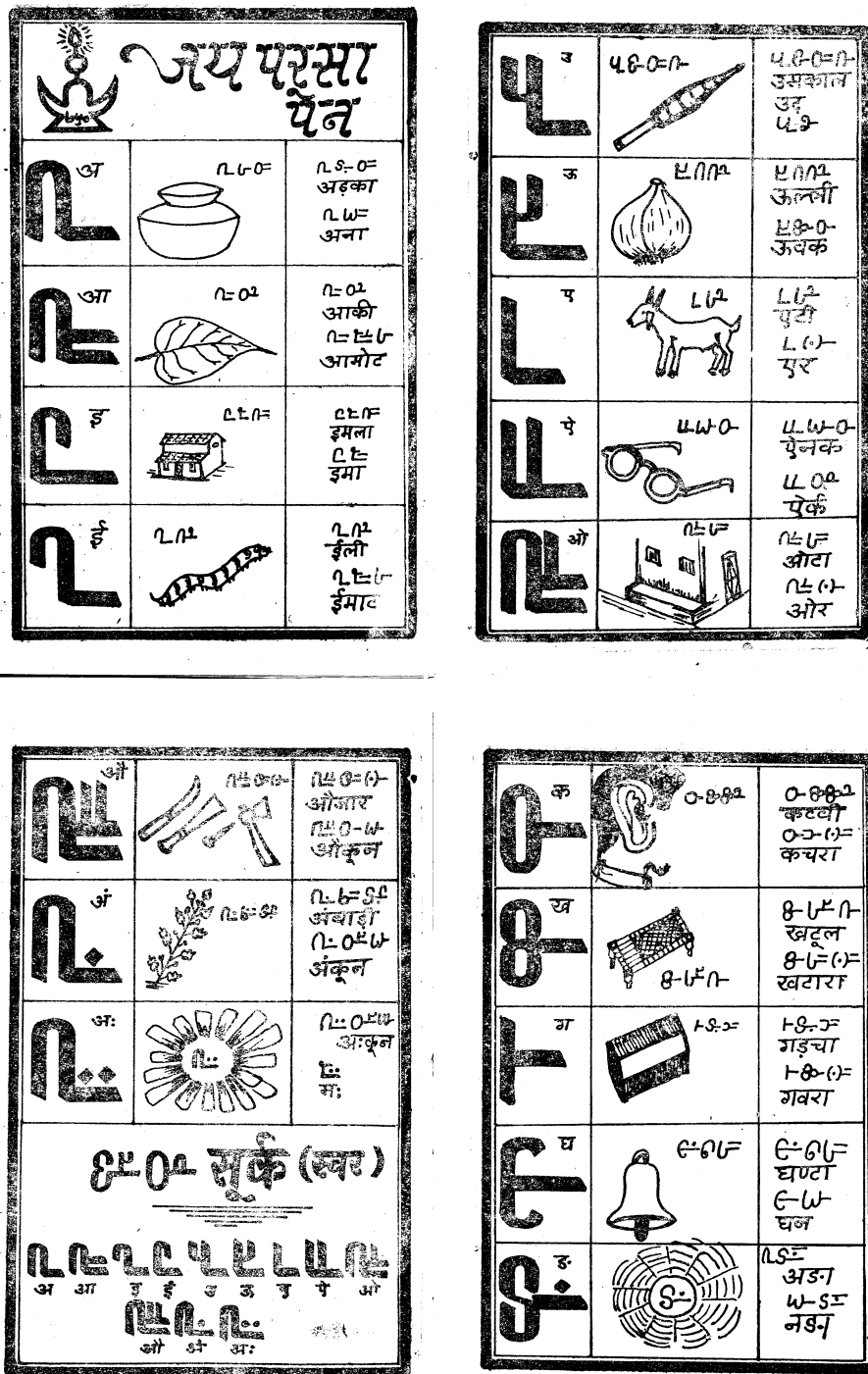


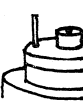
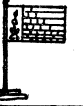





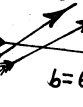





ब		बन्दक बरमो बन्दक
भ		भाला भर बरही
म		मरका मड़ा आम
य		येरन्डी यायाळ अरन्डी
र		रन्दा रच्यो रिन्दा
ल		लसून लका लहरून
व		वरबुड वरच बरवर

Figure 8: Page from *Gomḍī Akṣara Jñāna* showing the letters TA .. VA (from Rāmānanda: 5–7).

Figure 9: Page from *Gomḍī Lamk Pundan* showing vowel letters (from Guruji: 1–4).

य		उ-०-१२ यकरी उ-१-१- यराट
उ		उ-१-१२ छोडी उ-१-१२ छपरी
ज		उ-१-१२ जन्ना उ-१-१२ जन्नांग
झ		म-१-१२ झडा म-१-१२ झपाटा
ञ		म-१-१२ झमरा म-१-१२ झमोता

ट		उ-१-१२ टवडी उ-१-१२ टरछुज
ठ		म-१-१२ ठपा म-१-१२ ठाना
ड		उ-१-१२ डबर उ-१-१२ डब्या
ढ		म-१-१२ ढपली म-१-१२ ढमढम
ण		ब-१-१२ बाण म-१-१२ गण

व		उ-१-१२ तडास उ-१-१२ तलवार
श		म-१-१२ शाली म-१-१२ शडी
ड		उ-१-१२ दवडी उ-१-१२ दवाई
ध		म-१-१२ धडीया म-१-१२ धक्का
न		म-१-१२ नय म-१-१२ नतूर





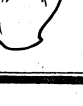
प		म-१-१२ पन्ने म-१-१२ पतंग
फ		म-१-१२ फन्नी म-१-१२ फनकाड
ब		उ-१-१२ बदुक उ-१-१२ बरमा
भ		म-१-१२ भाला म-१-१२ भरु
म		म-१-१२ मरका म-१-१२ मडा

Figure 10: Page from *Gomḍī Lamk Pundan* showing vowel letters (from Guruji: 5–8).


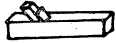



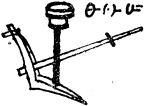


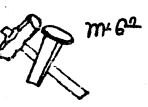
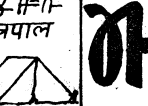

य		य-रंडी य-रं-ल यायाल
र		रंदा रंदा-रंदा रंदा
ल		लं-लं-लं लं-लं-लं लं-लं-लं
व		व-व-व व-व-व व-व-व
श		श-श-श श-श-श श-श-श
ष		ष-ष-ष ष-ष-ष ष-ष-ष
स		स-स-स स-स-स स-स-स
ह		ह-ह-ह ह-ह-ह ह-ह-ह
क्ष		क्ष-क्ष-क्ष क्ष-क्ष-क्ष क्ष-क्ष-क्ष
त्र		त्र-त्र-त्र त्र-त्र-त्र त्र-त्र-त्र
ज्ञ		ज्ञ-ज्ञ-ज्ञ ज्ञ-ज्ञ-ज्ञ ज्ञ-ज्ञ-ज्ञ

Figure 11: Page from *Gomḍī Lamk Pundan* showing vowel letters (from Guruji: 9–10).

क क= क२ क३ क४ क५ क६ क७ क८ क९ क१० क११ क१२ क१३ क१४ क१५ क१६ क१७ क१८ क१९ क२०
 ख ख२ ख३ ख४ ख५ ख६ ख७ ख८ ख९ ख१० ख११ ख१२ ख१३ ख१४ ख१५ ख१६ ख१७ ख१८ ख१९ ख२०
 ग ग२ ग३ ग४ ग५ ग६ ग७ ग८ ग९ ग१० ग११ ग१२ ग१३ ग१४ ग१५ ग१६ ग१७ ग१८ ग१९ ग२०
 घ घ२ घ३ घ४ घ५ घ६ घ७ घ८ घ९ घ१० घ११ घ१२ घ१३ घ१४ घ१५ घ१६ घ१७ घ१८ घ१९ घ२०
 च च२ च३ च४ च५ च६ च७ च८ च९ च१० च११ च१२ च१३ च१४ च१५ च१६ च१७ च१८ च१९ च२०
 छ छ२ छ३ छ४ छ५ छ६ छ७ छ८ छ९ छ१० छ११ छ१२ छ१३ छ१४ छ१५ छ१६ छ१७ छ१८ छ१९ छ२०
 ज ज२ ज३ ज४ ज५ ज६ ज७ ज८ ज९ ज१० ज११ ज१२ ज१३ ज१४ ज१५ ज१६ ज१७ ज१८ ज१९ ज२०
 झ झ२ झ३ झ४ झ५ झ६ झ७ झ८ झ९ झ१० झ११ झ१२ झ१३ झ१४ झ१५ झ१६ झ१७ झ१८ झ१९ झ२०
 ञ ञ२ ञ३ ञ४ ञ५ ञ६ ञ७ ञ८ ञ९ ञ१० ञ११ ञ१२ ञ१३ ञ१४ ञ१५ ञ१६ ञ१७ ञ१८ ञ१९ ञ२०
 ट ट२ ट३ ट४ ट५ ट६ ट७ ट८ ट९ ट१० ट११ ट१२ ट१३ ट१४ ट१५ ट१६ ट१७ ट१८ ट१९ ट२०
 ठ ठ२ ठ३ ठ४ ठ५ ठ६ ठ७ ठ८ ठ९ ठ१० ठ११ ठ१२ ठ१३ ठ१४ ठ१५ ठ१६ ठ१७ ठ१८ ठ१९ ठ२०
 ड ड२ ड३ ड४ ड५ ड६ ड७ ड८ ड९ ड१० ड११ ड१२ ड१३ ड१४ ड१५ ड१६ ड१७ ड१८ ड१९ ड२०
 ढ ढ२ ढ३ ढ४ ढ५ ढ६ ढ७ ढ८ ढ९ ढ१० ढ११ ढ१२ ढ१३ ढ१४ ढ१५ ढ१६ ढ१७ ढ१८ ढ१९ ढ२०
 ण ण२ ण३ ण४ ण५ ण६ ण७ ण८ ण९ ण१० ण११ ण१२ ण१३ ण१४ ण१५ ण१६ ण१७ ण१८ ण१९ ण२०
 त त२ त३ त४ त५ त६ त७ त८ त९ त१० त११ त१२ त१३ त१४ त१५ त१६ त१७ त१८ त१९ त२०
 थ थ२ थ३ थ४ थ५ थ६ थ७ थ८ थ९ थ१० थ११ थ१२ थ१३ थ१४ थ१५ थ१६ थ१७ थ१८ थ१९ थ२०
 द द२ द३ द४ द५ द६ द७ द८ द९ द१० द११ द१२ द१३ द१४ द१५ द१६ द१७ द१८ द१९ द२०
 ध ध२ ध३ ध४ ध५ ध६ ध७ ध८ ध९ ध१० ध११ ध१२ ध१३ ध१४ ध१५ ध१६ ध१७ ध१८ ध१९ ध२०
 न न२ न३ न४ न५ न६ न७ न८ न९ न१० न११ न१२ न१३ न१४ न१५ न१६ न१७ न१८ न१९ न२०
 प प२ प३ प४ प५ प६ प७ प८ प९ प१० प११ प१२ प१३ प१४ प१५ प१६ प१७ प१८ प१९ प२०
 फ फ२ फ३ फ४ फ५ फ६ फ७ फ८ फ९ फ१० फ११ फ१२ फ१३ फ१४ फ१५ फ१६ फ१७ फ१८ फ१९ फ२०
 ब ब२ ब३ ब४ ब५ ब६ ब७ ब८ ब९ ब१० ब११ ब१२ ब१३ ब१४ ब१५ ब१६ ब१७ ब१८ ब१९ ब२०
 भ भ२ भ३ भ४ भ५ भ६ भ७ भ८ भ९ भ१० भ११ भ१२ भ१३ भ१४ भ१५ भ१६ भ१७ भ१८ भ१९ भ२०
 म म२ म३ म४ म५ म६ म७ म८ म९ म१० म११ म१२ म१३ म१४ म१५ म१६ म१७ म१८ म१९ म२०
 य य२ य३ य४ य५ य६ य७ य८ य९ य१० य११ य१२ य१३ य१४ य१५ य१६ य१७ य१८ य१९ य२०
 र र२ र३ र४ र५ र६ र७ र८ र९ र१० र११ र१२ र१३ र१४ र१५ र१६ र१७ र१८ र१९ र२०
 ल ल२ ल३ ल४ ल५ ल६ ल७ ल८ ल९ ल१० ल११ ल१२ ल१३ ल१४ ल१५ ल१६ ल१७ ल१८ ल१९ ल२०
 व व२ व३ व४ व५ व६ व७ व८ व९ व१० व११ व१२ व१३ व१४ व१५ व१६ व१७ व१८ व१९ व२०
 श श२ श३ श४ श५ श६ श७ श८ श९ श१० श११ श१२ श१३ श१४ श१५ श१६ श१७ श१८ श१९ श२०
 ष ष२ ष३ ष४ ष५ ष६ ष७ ष८ ष९ ष१० ष११ ष१२ ष१३ ष१४ ष१५ ष१६ ष१७ ष१८ ष१९ ष२०
 स स२ स३ स४ स५ स६ स७ स८ स९ स१० स११ स१२ स१३ स१४ स१५ स१६ स१७ स१८ स१९ स२०
 ह ह२ ह३ ह४ ह५ ह६ ह७ ह८ ह९ ह१० ह११ ह१२ ह१३ ह१४ ह१५ ह१६ ह१७ ह१८ ह१९ ह२०
 म२ म३ म४ म५ म६ म७ म८ म९ म१० म११ म१२ म१३ म१४ म१५ म१६ म१७ म१८ म१९ म२०
 क्ष क्ष२ क्ष३ क्ष४ क्ष५ क्ष६ क्ष७ क्ष८ क्ष९ क्ष१० क्ष११ क्ष१२ क्ष१३ क्ष१४ क्ष१५ क्ष१६ क्ष१७ क्ष१८ क्ष१९ क्ष२०
 ज्ञ ज्ञ२ ज्ञ३ ज्ञ४ ज्ञ५ ज्ञ६ ज्ञ७ ज्ञ८ ज्ञ९ ज्ञ१० ज्ञ११ ज्ञ१२ ज्ञ१३ ज्ञ१४ ज्ञ१५ ज्ञ१६ ज्ञ१७ ज्ञ१८ ज्ञ१९ ज्ञ२०
 श्र श्र२ श्र३ श्र४ श्र५ श्र६ श्र७ श्र८ श्र९ श्र१० श्र११ श्र१२ श्र१३ श्र१४ श्र१५ श्र१६ श्र१७ श्र१८ श्र१९ श्र२०
 ५५५५ ०५५० (तीर्थकुन्क) रेफ मात्रा
 (०)-+०=०५ र+क=क ५
 ०-(०)=०७ क+र=क ७
 ०-(०)५=०७ क+र=क ७

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Figure 14: Page from *Gomḍī Akṣara Jñāna* explaining conjunct formation (from Rāmānanda: 13). Bottom half describes the usage of Latin marks of punctuation.

H S T (पाङ्ग) गिनती		
L उन्दी एक	W सारंग छह	
U रंड दो	J येरंग सात	
n मून्द तीन	9 अरंग आठ	
θ नाळुंग चार	6 नरंग नौ	
B सयुंग पांच	LO पद दस	
नूर बेरी पाङ्ग (सौ तक गिनती)		
L उन्दी	LL पव्दी	UL रण्डुन्दी
U रंड	LU पदंड	UU रण्डुन्ड
n मून्द	Ln पव्द	Un रण्डुन्द
θ नाळुंग	Lθ पनाळू	Uθ रणनाळू
B सयुंग	LB पसयुं	UB रन्सयूं
W सारंग	LW पसारु	UW रन्सारु
J येरंग	LJ पदेरु	UJ रन्डेरु
9 अरंग	L9 पदारु	U9 रन्डारु
6 नरंग	L6 पनरु	U6 रनरु
LO पद	UO रण्डू	UO मण्डू

Figure 15: Page from *Gomḍī Akṣara Jñāna* showing Gondi digits (from Rāmānanda: 14).

H= S=+ (पाङ्ग) गिनती			
L	उंदी	७	सारंग छह
U	रंड	J	येरंग सात
n	मूंद	७	अरंग आठ
8	नालुंग	6	नरंग नव
β	सयुंग	LO	षट दस
नुर वेरी पाङ्ग (सौ तक गिनती)			
L	उंदी	LL	पदुंदी
U	रंड	LU	पदेठ
n	मूंद	Ln	पदूंद
8	नालुंग	L8	पनालू
β	सयुंग	Lβ	पसयू
७	सारंग	L७	पसार
J	येरंग	LJ	पदेर
७	अरंग	L७	पदार
6	नरंग	L6	पनर
LO	षट	UO	रंड
UL	रण्डुंदी	UU	रण्डुण्ड
Un	रण्डुन्द	U8	रन्नालू
Uβ	रन्सयू	U७	रन्सार
UJ	रन्डेर	U७	रन्बार
U6	रनर	NO	मण्ड

Figure 16: Page from *Gomḍi Lamk Pundan* showing Gondi digits (from Guruji: 14).

[illegible]

Figure 17: A document showing usage of `CO-LLA`.

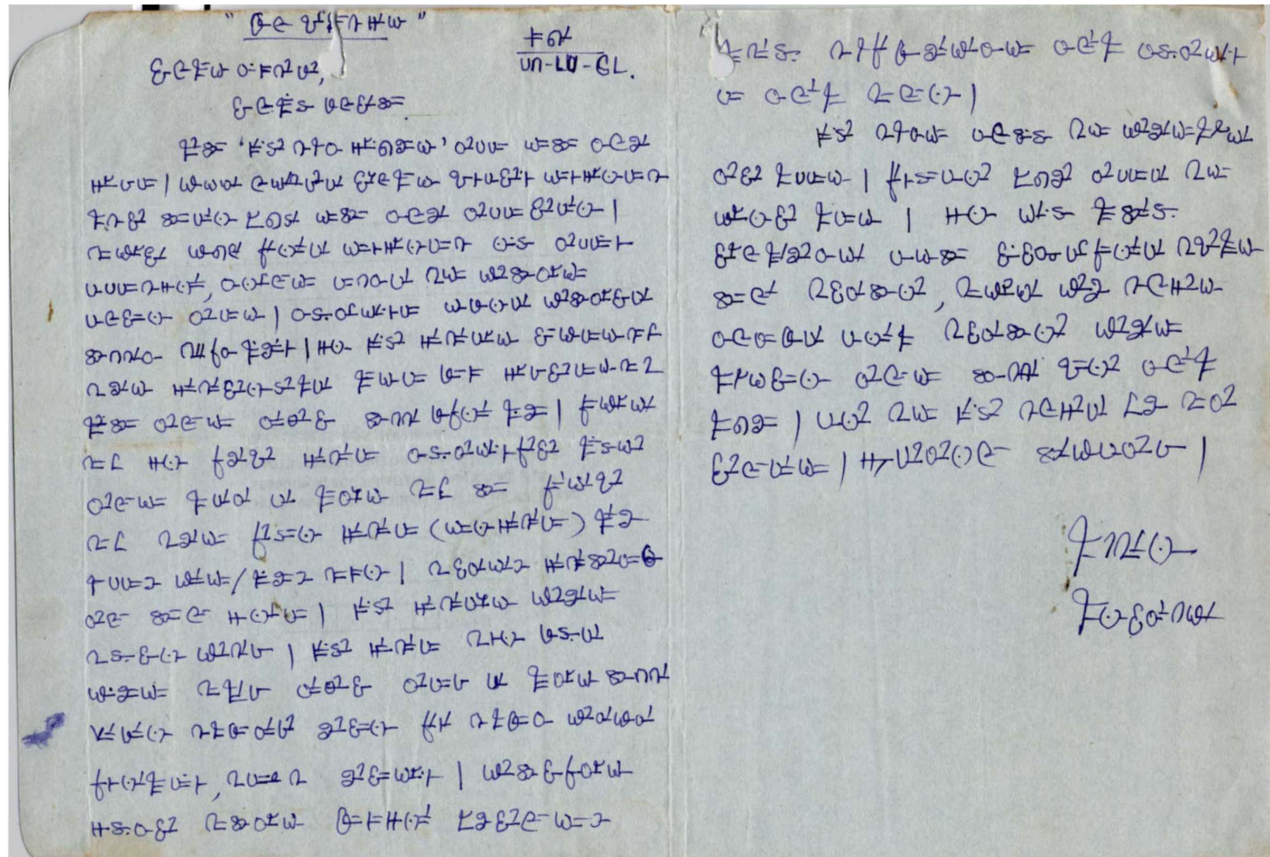
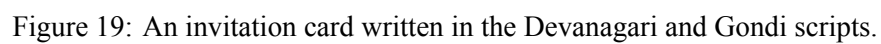


Figure 18: A letter written in Gondi.



$$H^1(\Theta) = H^1(\omega) - H^4(\dot{\omega}^2\omega) = H^6$$
[illegible]

$\varepsilon^2 U = O(1)$ ን $\dot{\Gamma} S = n$ ($\varepsilon \rightarrow 0$)

[illegible]

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अखिल-गोंडवाना गोंडो साहित्य परिषद, नागपूर

कार्यालय :- गोंडवाना विकास मंडल संत तुकडोजी नगर, प्लॉट नं. २३३, मानेवाडा रोड, नागपूर.

पत्र क्रमांक

दिनांक 17.1.2015.

આદરણીય મોરવળેજી

नमस्कार.

मोंडी लिपित अर्था वपारिदारांची व्यवस्था आहे.
बाबदाच्या मध्ये जोडाक्षरे लिहणांना अर्था वपारिदारांच्या
प्रयोग केला जातो. जसे -

उद्/न/ पृष्ठ-७२ = वसपो

4 तर्जनी $HUV = \omega^2 = 4800$

$\phi \rightarrow \phi \phi \phi \phi \phi \phi \quad 0=00=WF = 3+1(\phi \phi \phi)$

44/1011 H-22-W = #1451

विमाना ऊपर $W = 800$ वोल्ट

परंतु शब्दांच्या अंत्याक्षरांचे उच्चारण - हस्य होना
आसल्यास अर्धे वर्णाक्षरे लिहण्याची पद्धत नाही. - हस्य
वर्णाक्षरां-वळरीत। पूर्ण वर्णाक्षरे लिहून हलत। - चेव्ह
लक्षणाची पद्धत आहे - जसे -

उद्देश ५३३ = ६० = नाली क्षमता

उद्देश्य 422-क.
परामर्श HUU-क. = नहीं पठा.

फो व फोन $0 \leq 00 \leq 09$ = नाही अर्थान.

4. $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$: नही भावल

विद्यमान कुलपुत्र = नही था।

345000

2

(14) 60. 45 315 (14)

Figure 22: Usage of VIRAMA with regular forms of consonants for representation of bare consonants.

**ISO/IEC JTC 1/SC 2/WG 2
PROPOSAL SUMMARY FORM TO ACCOMPANY SUBMISSIONS
FOR ADDITIONS TO THE REPERTOIRE OF ISO/IEC 10646¹**

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

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

Please ensure you are using the latest Form from <http://www.dkuug.dk/JTC1/SC2/WG2/docs/summaryform.html>.

See also <http://www.dkuug.dk/JTC1/SC2/WG2/docs/roadmaps.html> for latest Roadmaps.

A. Administrative

1. Title:	Proposal to Encode the Gondri Script in ISO/IEC 10646		
2. Requester's name:	<i>Script Encoding Initiative (SEI) / Anshuman Pandey (anshuman.pandey@berkeley.edu)</i>		
3. Requester type (Member body/Liaison/Individual contribution):	<i>Liaison contribution</i>		
4. Submission date:	<i>2015-01-27</i>		
5. Requester's reference (if applicable):			
6. Choose one of the following:			
This is a complete proposal:			<i>Yes</i>
(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 characters):			<i>Yes</i>
Proposed name of script:	<i>Gondri</i>		
b. The proposal is for addition of character(s) to an existing block:			
Name of the existing block:			
2. Number of characters in proposal:			<i>71</i>
3. Proposed category (select one from below - see section 2.2 of P&P document):			
A-Contemporary <input checked="" type="checkbox"/>	B.1-Specialized (small collection)	B.2-Specialized (large collection)	
C-Major extinct <input type="checkbox"/>	D-Attested extinct	E-Minor extinct	
F-Archaic Hieroglyphic or Ideographic <input type="checkbox"/>	G-Obscure or questionable usage symbols		
4. Is a repertoire including character names provided?			<i>Yes</i>
a. If YES, are the names in accordance with the "character naming guidelines" in Annex L of P&P document?			<i>Yes</i>
b. Are the character shapes attached in a legible form suitable for review?			<i>Yes</i>
5. Fonts related:			
a. Who will provide the appropriate computerized font to the Project Editor of 10646 for publishing the standard?	<i>Anshuman Pandey</i>		
b. Identify the party granting a license for use of the font by the editors (include address, e-mail, ftp-site, etc.):	<i>Anshuman Pandey (pandey@umich.edu)</i>		
6. References:			
a. Are references (to other character sets, dictionaries, descriptive texts etc.) provided?			<i>Yes</i>
b. Are published examples of use (such as samples from newspapers, magazines, or other sources) of proposed characters attached?			<i>Yes</i>
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)?			<i>Yes</i>

8. 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 <http://www.unicode.org> for such information on other scripts. Also see Unicode Character Database (<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.

¹ Form number: N4102-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)

C. Technical - Justification

1. Has this proposal for addition of character(s) been submitted before? If YES explain	No
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.)? If YES, with whom? If YES, available relevant documents:	Yes Mukund Gokhale (Script Research Institute, Pune)
3. Information on the user community for the proposed characters (for example: size, demographics, information technology use, or publishing use) is included? Reference:	Yes
4. The context of use for the proposed characters (type of use; common or rare) Reference:	Common Used for writing the Gondi language in India
5. Are the proposed characters in current use by the user community? If YES, where? Reference:	Yes
6. After giving due considerations to the principles in the P&P document must the proposed characters be entirely in the BMP? If YES, is a rationale provided? If YES, reference:	N/A
7. Should the proposed characters be kept together in a contiguous range (rather than being scattered)?	Yes
8. Can any of the proposed characters be considered a presentation form of an existing character or character sequence? If YES, is a rationale for its inclusion provided? If YES, reference:	No
9. Can any of the proposed characters be encoded using a composed character sequence of either existing characters or other proposed characters? If YES, is a rationale for its inclusion provided? If YES, reference:	No
10. Can any of the proposed character(s) be considered to be similar (in appearance or function) to, or could be confused with, an existing character? If YES, is a rationale for its inclusion provided? If YES, reference:	No
11. Does the proposal include use of combining characters and/or use of composite sequences? If YES, is a rationale for such use provided? If YES, reference: Is a list of composite sequences and their corresponding glyph images (graphic symbols) provided? If YES, reference:	Yes Yes Combining signs
12. Does the proposal contain characters with any special properties such as control function or similar semantics? If YES, describe in detail (include attachment if necessary)	Yes Virama; see text of the proposal
13. Does the proposal contain any Ideographic compatibility characters? If YES, are the equivalent corresponding unified ideographic characters identified? If YES, reference:	No

Addendum to Acknowledgments

This project was made possible in part through a Google Research Award, granted to Deborah Anderson for the Script Encoding Initiative, and a grant from the United States National Endowment for the Humanities (PR-50205-15), which funds the Universal Scripts Project (part of the Script Encoding Initiative at the University of California, Berkeley). Any views, findings, conclusions or recommendations expressed in this publication do not necessarily reflect those of Google or the National Endowment for the Humanities.