

Revised Proposal for Encoding the Shaaldaa Script in the UCS

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To: UTC

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Title: Proposal for encoding the Shaaldaa script in the UCS

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General Overview:

This is a revised proposal to encode the Shaaldaa script into the Unicode Standard. It supersedes the following document:

- [L2/24-109](#): “Proposal for Encoding the Sheek Bakrii Saphaloo Script in the UCS”

This version differs from the most recent version, L2/24-109, due to the following reasons and updates:

- Script name change from “Sheek Bakrii Saphaloo” to “Shaaldaa” as per community feedback.
- A review of letter and numeral glyphs variants has been added to Section III.
- Fixed character property typo of script-specific numerals from “No” to “Nd”
- Additional figures from other modern-day script in Section IX (Figures 60-61).
- Additional figures from the son of Sheikh Bakri in Section IX (Figures 62-65).
- Additional figures from Sheikh Bakrii in Section IX (Figures 66.1-66.18).
- Additional figures of handwritten samples of the comprehensive script (Figures 69.1-69.8)
- A diagram depicting the glyph variation of numerals, via educators, is added as Figure 70.
- Numeric values for digits added to field 6 of the properties data.

I Background

Sheikh Bakri Sapalo (November 1895 - 5 April 1980), born Abubakar Garad Usman (Oromo: Abubakar Garad Usmaan), known by many Oromo people regardless of their religious background, was a revered Oromo scholar, poet, linguist and religious teacher from Ethiopia. The Oromo language (ISO 639-3: orm; endonym: Afaan Oromoo) is an official language of Ethiopia, a recognized minority language in Kenya, and is spoken by ~37 million people in total. Sheikh Bakri created an abugida for Oromo in 1940-1948 (Ethiopian Calendar)/1948-1956 (Gregorian Calendar) in Ligibo, Goro Gutu district, East Hararghe Zone.

Sheikh Bakri taught the script to his pupils and those that were curious, which ushered in a period where people would write personal correspondences to each other in the script. Sheikh Bakri also wrote his famous poems, manuscripts, and other works in the script. He was then placed under a decade-long ‘honorable confinement’ in Dire Dawa (and later allowed to travel to and from Allede) in 1965 by Amhara officials who disapproved of the script’s use. It was during this period that his most prominent work “Shalda” was written. Hayward and Hassen (1981) describe the work as *“a caustically worded indictment of Amhara colonial oppression and an account of the suffering of the Oromo under this regime”* and that *“Shalda is of interest in that it is really both the first and the last major writing in Shaykh Bakri Sapalō’s alphabet.”*

The script has been reported to still be in use in East (and possibly West) Hararghe Zone (Oromo: Harargee Bahaa; Amharic: የዢትራዊ ሆረጋዊ ክንንጂ) in eastern Oromia (Oromo Region, Ethiopia), which is not to be confused with the Harari Region of Ethiopia (Harari: ሆረጋዊ ክናንጂ; Amharic: ክናንጂ ክልል; Oromo: Naannoo Hararii), among Oromo people, Muslim scholars, and others for secret communications among themselves and with their students. There is evidence that Sheikh Bakri's script at one point spread to the Bale region (Oromo: Aana Baalee; Amharic: አኅል ክንንጂ) during times of Oromo and Somali armed resistance. Emperor Haile Selassie I's soldiers captured usage of the script on the battlefields in Bale in 1964/1965. Prominent Oromo scholar Dr. Mohammed Hassen Ali noted this continued use of Sheikh Bakri's script in 2019 when he visited a number of cities and towns in eastern Oromia. He and other Oromo scholars again made subsequent confirmations that the script created by Sheikh Bakri Sapalo is still being used for communication in eastern Oromia. The script is also currently being taught in Dire Dawa, Ethiopia. One teacher of the script personally reports that 100 people just in his social circle alone have learned the script, and has been independently verified by the authors of this proposal.

There is overwhelming endorsement for the script to be encoded into Unicode from both users and scholars of Oromo linguistics, history, culture, heritage, etc. The value of encoding the script is to both serve the people that have been using the script for the past ~70 years, students currently learning the script, and for the digital preservation of historical documents and culture.

II Script Name

III Structure

The Shaaldaa script is an abugida written left to right in horizontal lines, from the top to the bottom of a page. The script has 33 base glyphs used in education to familiarize the students with the structure of the script. Each base glyph has 10 counterparts that each have a distinct vocalic component of the grapheme (e.g., 'ba', 'bu', 'bi', etc.), and 1 pure consonant counterpart without any vocalic component (e.g., 'b'). The base glyph by itself has no phonemic value and is not used by itself in written language, but is used in education. It does not serve the same purpose of representing standalone 'consonants' (C) like the 6th form of the Ethiopic script can (e.g., ብ, ቷ, ድ). Unlike some languages that use the Ethiopic script, the Shaaldaa script does distinguish between non-gemination and gemination. There are 33 more base glyphs with the same 11 counterparts (vocalic, pure consonant) used for consonantal gemination. In summary, there are 33 base glyphs, 10 vocalized graphemes, and 1 pure consonant grapheme. Then, there are 33 more base glyphs (with 10 vocalic and 1 pure consonant counterparts) for gemination. This totals 792 unique graphemes that will be categorically reviewed here. Figures 69.1-69.8 present contemporary handwritten samples of the full inventory.

Current Oromo Orthography	IPA	Base Glyph	<a> /a/	<u> /u/	<i> /i/	<e> /ɛ/	<o> /ɔ/	<aa> /a:/	<uu> /u:/	<ii> /i:/	<ee> /e:/	<oo> /o:/	/C/
vowel / '	∅/?	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
vowel / '	∅:/?:	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
b	b	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
bb	b:	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
j	dʒ	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
jj	dʒ:	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
d	d	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
dd	d:	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
h	h	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
hh	h:	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
w	w	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
ww	w:	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
z	z	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
zz	z:	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
h*	h	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
hh*	h:	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
x	t'	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
xx	t':	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
y	j	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
yy	j:	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
k	k	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
kk	k:	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
l	l	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
ll	l:	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
m	m	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
mm	m:	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
n	n	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
nn	n:	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
s	s	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
ss	s:	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
f	f	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
ff	f:	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩

s*	s	፩	፪	፫	፬	፭	፮	፯	፩	፪	፫	፬	፭	፮	፯
ss*	s:	፩	፪	፫	፬	፭	፮	፯	፩	፪	፫	፬	፭	፮	፯
q	k'	፩	፪	፫	፬	፭	፮	፯	፩	፪	፫	፬	፭	፮	፯
qq	k':	፩	፪	፫	፬	፭	፮	፯	፩	፪	፫	፬	፭	፮	፯
r	r	፩	፪	፫	፬	፭	፮	፯	፩	፪	፫	፬	፭	፮	፯
rr	r:	፩	፪	፫	፬	፭	፮	፯	፩	፪	፫	፬	፭	፮	፯
sh	ʃ	፩	፪	፫	፬	፭	፮	፯	፩	፪	፫	፬	፭	፮	፯
shsh	ʃ:	፩	፪	፫	፬	፭	፮	፯	፩	፪	፫	፬	፭	፮	፯
t	t	፩	፪	፫	፬	፭	፮	፯	፩	፪	፫	፬	፭	፮	፯
tt	t:	፩	፪	፫	፬	፭	፮	፯	፩	፪	፫	፬	፭	፮	፯
kh**	x	፩	፪	፫	፬	፭	፮	፯	፩	፪	፫	፬	፭	፮	፯
khkh**	x:	፩	፪	፫	፬	፭	፮	፯	፩	፪	፫	፬	፭	፮	፯
dh	፩	፩	፪	፫	፬	፭	፮	፯	፩	፪	፫	፬	፭	፮	፯
dhdh	፩:	፩	፪	፫	፬	፭	፮	፯	፩	፪	፫	፬	፭	፮	፯
g	g	፩	፪	፫	፬	፭	፮	፯	፩	፪	፫	፬	፭	፮	፯
gg	g:	፩	፪	፫	፬	፭	፮	፯	፩	፪	፫	፬	፭	፮	፯
c	tʃ'	፩	፪	፫	፬	፭	፮	፯	፩	፪	፫	፬	፭	፮	፯
cc	tʃ':	፩	፪	፫	፬	፭	፮	፯	፩	፪	፫	፬	፭	፮	፯
ny	ን	፩	፪	፫	፬	፭	፮	፯	፩	፪	፫	፬	፭	፮	፯
nny	ን:	፩	፪	፫	፬	፭	፮	፯	፩	፪	፫	፬	፭	፮	፯
ch	tʃ	፩	፪	፫	፬	፭	፮	፯	፩	፪	፫	፬	፭	፮	፯
chch	tʃ:	፩	፪	፫	፬	፭	፮	፯	፩	፪	፫	፬	፭	፮	፯
ph	p'	፩	፪	፫	፬	፭	፮	፯	፩	፪	፫	፬	፭	፮	፯
phph	p':	፩	፪	፫	፬	፭	፮	፯	፩	፪	፫	፬	፭	፮	፯
a	፩	፩	፪	፫	፬	፭	፮	፯	፩	፪	፫	፬	፭	፮	፯
aa	፩:	፩	፪	፫	፬	፭	፮	፯	፩	፪	፫	፬	፭	፮	፯
p	p	፩	፪	፫	፬	፭	፮	፯	፩	፪	፫	፬	፭	፮	፯
pp	p:	፩	፪	፫	፬	፭	፮	፯	፩	፪	፫	፬	፭	፮	፯
v	v/β	፩	፪	፫	፬	፭	፮	፯	፩	፪	፫	፬	፭	፮	፯
vv	v:/β:	፩	፪	፫	፬	፭	፮	፯	፩	፪	፫	፬	፭	፮	፯
zy	፩	፩	፪	፫	፬	፭	፮	፯	፩	፪	፫	፬	፭	፮	፯
zyzy	፩:	፩	፪	፫	፬	፭	፮	፯	፩	፪	፫	፬	፭	፮	፯
ts	ts'	፩	፪	፫	፬	፭	፮	፯	፩	፪	፫	፬	፭	፮	፯
tsts	ts':	፩	፪	፫	፬	፭	፮	፯	፩	፪	፫	፬	፭	፮	፯

Table 1. Inventory of the Shaaldaa script. *See "Additional Character Information" in Section IV.

First forms (labeled as "Base Glyphs") are not used in actual writing (Hayward & Hassen, 1981. Page 560), but are essential in learning the script. Empty cells under "Current Oromo Orthography" mean these phonemes do not have a concrete spelling in Qubee (the Latin-based Oromo orthography).

The last 5 graphemes (፩, ፪, ፫, ፬, and ፭, and all of their vocalized, pure consonant and geminated counterparts) are used for loanwords.

Punctuation and Numerals/Digits:

There are specific characters for both punctuation and numerals (0-9) in the Shaaldaa script. Shaaldaa punctuation is fairly straight forward with only two marks having been introduced, namely a wordspace and full stop.

* '፩' used for words in '፩' and '፪', '፭' for words in '፯'.

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** '፩' used for words in '፩' and '፪', '፪' for words in '፩' and '፪'

A wordspace/word-separator is represented by 2 vertically stacked dots – visually similar to a Latin colon (U+003A :). While it also appears to be visually similar to an Ethiopic word separator (U+1361 :), the Shaaldaa word-separator is always 2 *circular* dots, and never 2 square-like dots as is the case in some Ethiopic fonts. In practice, a whitespace (U+0020 SPACE) is often used, whereas historical documents more often use the script specific punctuation.

A full-stop is represented by two horizontally parallel strokes, and is visually similar to an equal sign (U+003D =). In practice, a period (U+002E FULL STOP .) is often used, and use of the Ethiopic full-stop (U+1362 ::) has been observed (see Figure 19, Section IX). See Plate I.1 in Section IX which highlights both punctuation marks.

Punctuation: : wordspace/word-separator, = full stop

It is noteworthy that the modern practice borrows western punctuation liberally, such as parenthesis, quotation marks, comma, question mark, and apostrophe, among others.

The Shaaldaa script includes a digital numeral system. Unlike the punctuation marks, the Shaaldaa numeral glyphs have evolved and proliferated over the years and warrant a more thorough explanation. Accordingly, the next section covers glyph variation in numerals. Table 2 presents the Shaaldaa numeral glyphs found in widest use as identified by the user community and originating from Sheikh Mahommadsiraac Sheikh Bakrii (a son of Sheikh Bakrii).

0	1	2	3	4	5	6	7	8	9
፦	፪	፲	፳	፴	፵	፶	፷	፸	፹

Table 2. Shaaldaa digits and their values.

Glyph Variations:

As a historically handwritten writing system, variation in the shapes of both letters and numbers is naturally encountered. Variation may also be a consequence of the clandestine use of the script in its earliest days leading to parties developing divergent habits in isolation. Notable variations that are an oft source of confusion are reviewed here.

Shaaldaa numerals show the most variation with no fewer than *four* sets of glyphs that have been found in varying degrees of use by different camps within the user community. The most popularized set of numeral glyphs is found on a monument to Sheikh Bakri Sapalo, one of two, erected in his home town (see Figures 42-44). The monument in turn was created by Sheikh Mahommadsiraac Sheik Bakrii (SMSB), the son of the script's creator as well as student. Sheikh Mahommadsiraac uses these glyphs in regular writing and has taught them to generations of his students. For convenience, the name of the scribe is employed to refer to the different glyph sets. Digits 0-9:

The Sheikh Mahommadsiraac Sheik Bakrii Set (SMSB): ፦ ፪ ፲ ፳ ፴ ፵ ፶ ፷ ፸ ፹

The set of numeral glyphs by Sheikh Muhammad Rashad are likely the best-known shapes *outside* of Ethiopia by virtue of Sheikh Muhammad serving as the primary informant for University of London researchers R.J. Hayward and Mohammed Hassan who in turn published our Reference 1, the seminal work on the script found in the west. We have not yet found these glyph choices in use by modern users.

The Sheikh Muhammad Rashad Set (SMR): ፦ ፫ ፲ ፳ ፴ ፵ ፶ ፷ ፸ ፹

A third set of glyphs was found to be in use by Ibsa Sheikh Mahommadsiraac (ISM), a son of Sheikh Mahommadsiraac. The ISM glyph set would appear to show more Latin script influences as reflected in the “F”-like shapes for the digits F (5) and ؽ (7), the “Z”-like shapes of digits ؽ (6) and Z (9), and the simple vertical stroke for the digit “I” (1). These shapes may also point to a modernization direction for the glyphs. The ISM glyphs are presented in Figure 67 and in the following:

The Ibsa Sheikh Mahommadsiraac Set (ISM): ۰ ۱ ۵ ۴ ۷ ۹ ۶ ۲ ۸ ۰

The fourth set of numeral glyphs found in use comes from another student of Sheikh Bakri’s, Sheikh Nuradin Ahmad (SNA), who has been a decades-long, well respected, educator of the script. The Sheikh Nuradin Ahmad (SNA) numeral glyphs are presented in Figure 68 and in the following:

The Sheikh Nuradin Ahmad Set (SNA): ۰ ۱ ۴ ۵ ۷ ۶ ۹ ۳ ۸ ۰

As the various numeral shapes represent differing handwritten styles, the shapes are not found together in the same document. Accordingly, the authors recommend that these handwritten styles be treated as separate typefaces. Vendors wishing to support the styles within a single computer font, could however do so with OpenType stylistic sets or character variants. The approaches that have been applied for distinguishing the Arabic, Persian, Sindi, and Urdu numeral shapes may likewise be applied here.

	۰	۱	۲	۳	۴	۵	۶	۷	۸	۹
Sheikh Mahommadsiraac Sheikh Bakrii (SMSB)	۰	۱	۴	۳	۰	۵	۷	۹	۸	۶
Sheikh Muhammad Rashad (SMR)	۰	۵	۴	۳	۶	۵	۲	۰	۳	۷
Ibsa Sheikh Mahommadsiraac (ISM)	۰	۱	۵	۴	۷	۹	۲	۸	۰	۶
Sheikh Nuradin Ahmad (SNA)	۰	۱	۴	۵	۷	۶	۹	۳	۸	۰

Table 3. A Comparative view of the Shaaldaa Numeral Glyph Sets

To a lesser degree, glyph variation is also found in Shaaldaa letters. The handwriting of Sheikh Bakrii Saphaloo is treated as canonical and can be observed in Figures 66.1-66.18. It is worth pointing out then the differences in Sheikh Muhammad Rashad’s handwriting as observed in Reference 1.

	Sheikh Bakrii Saphaloo	Sheikh Muhammad Rashad
R/RR	ڦ/ڦ	ڦ/ڦ
G/GG	ڦ/ڦ	ڦ/ڦ
C/CC	ڦ/ڦ	ڦ/ڦ
N/NN	ڦ/ڦ	ڦ/ڦ
NY/NYNY	ڦ/ڦ	ڦ/ڦ

Table 4. Variation found in five Shaaldaa series.

Should vendors wish to support the glyph differences, they may do so in the same manner as they would support the difference in the numeral glyphs.

Diacritics:

Diacritical marks are not used in the Shaaldaa script.

IV Character Repertoire

General Category and other properties

Table 2 presents the 824 syllabic graphemes, punctuation, and digital numerals in total for the Shaaldaa orthography. The table provides the shapes, names, and relative ordering. A consistent naming pattern is used throughout where the consonant component of a syllable name will be identical to the corresponding syllable name from the sibling script, Ethiopic (U+1200 – U+137F). However, the Ethiopic syllable naming follows the conventions for Semitic languages, while Afaan Oromo is a Cushitic language which follows a different system of phonology. This phonological awareness is the basis of the Qabee writing practice whose rules of gemination and vowel length are applied to the final part of a letter name.

The Shaaldaa script features both glottal and pharyngeal vowels in both short and long stresses along with a stop. The Shaaldaa syllabary is kept contiguous by also populating the syllabary positions for the geminated syllables (i.e. CCV, CCVV table cells) for the vowel families. The naming of these vowel glyphs follows a positional logic, in keeping with the CV syllables, and applies the modifier “GEMINATE” to distinguish them.

An Ethiopic encoding model is required for the script due to 1) a significant percentage of graphical irregularity when attempting to interpret the script’s vocalized graphemes through consistent application of “diacritics” (see Table 4 at the end of Section IX), 2) Hayward and Hassen’s assessment of how the structure of the script came about in relation to the Ethiopic script (see Reference 1, Section VII; see Figures 2, 3, 4, 6, 7, and 19, Section IX), 3) the way the user community conceptualizes the script as distinct letters, 4) the user community also being active users of the Ethiopic script in parallel. Diacritics are largely a foreign creation that do not exist in the local practices of written language and should not be imposed upon indigenous systems.

To the proposal authors, the only benefit of pursuing an Indic encoding model instead of an Ethiopic model would be to save encoding space. However, for the reasons cited, the model is simply not compatible with user requirements.

The Shaaldaa glyph inventory, with their respective addresses and letter names are presented in Table 2:

ڦ	U+1C800 SHAALDAA SYLLABLE VOWEL BASE
ڦ	U+1C801 SHAALDAA SYLLABLE A
ڦ	U+1C802 SHAALDAA SYLLABLE U
ڦ	U+1C803 SHAALDAA SYLLABLE I
ڦ	U+1C804 SHAALDAA SYLLABLE E
ڦ	U+1C805 SHAALDAA SYLLABLE O
ڦ	U+1C806 SHAALDAA SYLLABLE AA
ڦ	U+1C807 SHAALDAA SYLLABLE UU
ڦ	U+1C808 SHAALDAA SYLLABLE II
ڦ	U+1C809 SHAALDAA SYLLABLE EE
ڦ	U+1C80A SHAALDAA SYLLABLE OO
ڦ	U+1C80B SHAALDAA SYLLABLE GLOTTAL STOP

ଶ	U+1C80C SHAALDAA SYLLABLE SECONDARY VOWEL BASE
ଶ୍ର	U+1C80D SHAALDAA SYLLABLE SECONDARY A
ଶ୍ରୁ	U+1C80E SHAALDAA SYLLABLE SECONDARY U
ଶ୍ରୀ	U+1C80F SHAALDAA SYLLABLE SECONDARY I
ଶ୍ରୀୟ	U+1C810 SHAALDAA SYLLABLE SECONDARY E
ଶ୍ରୋ	U+1C811 SHAALDAA SYLLABLE SECONDARY O
ଶ୍ରୀଏ	U+1C812 SHAALDAA SYLLABLE SECONDARY AA
ଶ୍ରୁୟ	U+1C813 SHAALDAA SYLLABLE SECONDARY UU
ଶ୍ରୀୟୀ	U+1C814 SHAALDAA SYLLABLE SECONDARY II
ଶ୍ରୀୟୀୟ	U+1C815 SHAALDAA SYLLABLE SECONDARY EE
ଶ୍ରୋୟୀ	U+1C816 SHAALDAA SYLLABLE SECONDARY OO
ଶ୍ରୀୟୋ	U+1C817 SHAALDAA SYLLABLE SECONDARY GLOTTAL STOP
ଶ୍ରୀବ	U+1C818 SHAALDAA SYLLABLE B BASE
ଶ୍ରୀବା	U+1C819 SHAALDAA SYLLABLE BA
ଶ୍ରୀବୁ	U+1C81A SHAALDAA SYLLABLE BU
ଶ୍ରୀବି	U+1C81B SHAALDAA SYLLABLE BI
ଶ୍ରୀବେ	U+1C81C SHAALDAA SYLLABLE BE
ଶ୍ରୀବୋ	U+1C81D SHAALDAA SYLLABLE BO
ଶ୍ରୀବାଏ	U+1C81E SHAALDAA SYLLABLE BAA
ଶ୍ରୀବୁୟ	U+1C81F SHAALDAA SYLLABLE BUU
ଶ୍ରୀବିୟ	U+1C820 SHAALDAA SYLLABLE BII
ଶ୍ରୀବେୟ	U+1C821 SHAALDAA SYLLABLE BEE
ଶ୍ରୀବୋୟ	U+1C822 SHAALDAA SYLLABLE BOO
ଶ୍ରୀବ	U+1C823 SHAALDAA SYLLABLE B
ଶ୍ରୀବବ	U+1C824 SHAALDAA SYLLABLE BB BASE
ଶ୍ରୀବବା	U+1C825 SHAALDAA SYLLABLE BBA
ଶ୍ରୀବବୁ	U+1C826 SHAALDAA SYLLABLE BBU
ଶ୍ରୀବବି	U+1C827 SHAALDAA SYLLABLE BBI
ଶ୍ରୀବବେ	U+1C828 SHAALDAA SYLLABLE BBE
ଶ୍ରୀବବୋ	U+1C829 SHAALDAA SYLLABLE BBO
ଶ୍ରୀବବାଏ	U+1C82A SHAALDAA SYLLABLE BBAA
ଶ୍ରୀବବୁୟ	U+1C82B SHAALDAA SYLLABLE BBUU
ଶ୍ରୀବବିୟ	U+1C82C SHAALDAA SYLLABLE BBII
ଶ୍ରୀବବେୟ	U+1C82D SHAALDAA SYLLABLE BBEE
ଶ୍ରୀବବୋୟ	U+1C82E SHAALDAA SYLLABLE BBOO
ଶ୍ରୀବବ	U+1C82F SHAALDAA SYLLABLE BB
ଶ୍ରୀଜ	U+1C830 SHAALDAA SYLLABLE J BASE
ଶ୍ରୀଜା	U+1C831 SHAALDAA SYLLABLE JA
ଶ୍ରୀଜୁ	U+1C832 SHAALDAA SYLLABLE JU

ଢ	U+1C833 SHAALDAA SYLLABLE JI
ଢେ	U+1C834 SHAALDAA SYLLABLE JE
ଢୀ	U+1C835 SHAALDAA SYLLABLE JO
ଢା	U+1C836 SHAALDAA SYLLABLE JAA
ଢୁ	U+1C837 SHAALDAA SYLLABLE JUU
ଢି	U+1C838 SHAALDAA SYLLABLE JII
ଢେ	U+1C839 SHAALDAA SYLLABLE JEE
ଢୁ	U+1C83A SHAALDAA SYLLABLE JOO
ଢି	U+1C83B SHAALDAA SYLLABLE J
ଢି	U+1C83C SHAALDAA SYLLABLE JJ BASE
ଢି	U+1C83D SHAALDAA SYLLABLE JJA
ଢୁ	U+1C83E SHAALDAA SYLLABLE JJJU
ଢି	U+1C83F SHAALDAA SYLLABLE JJI
ଢେ	U+1C840 SHAALDAA SYLLABLE JJE
ଢୀ	U+1C841 SHAALDAA SYLLABLE JJO
ଢି	U+1C842 SHAALDAA SYLLABLE JJAA
ଢୁ	U+1C843 SHAALDAA SYLLABLE JJUU
ଢି	U+1C844 SHAALDAA SYLLABLE JJII
ଢେ	U+1C845 SHAALDAA SYLLABLE JJEE
ଢୁ	U+1C846 SHAALDAA SYLLABLE JJOO
ଢି	U+1C847 SHAALDAA SYLLABLE JJ
ଫ	U+1C848 SHAALDAA SYLLABLE D BASE
ଫେ	U+1C849 SHAALDAA SYLLABLE DA
ଫୁ	U+1C84A SHAALDAA SYLLABLE DU
ଫୀ	U+1C84B SHAALDAA SYLLABLE DI
ଫୁ	U+1C84C SHAALDAA SYLLABLE DE
ଫୁ	U+1C84D SHAALDAA SYLLABLE DO
ଫୁ	U+1C84E SHAALDAA SYLLABLE DAA
ଫୁ	U+1C84F SHAALDAA SYLLABLE DUU
ଫୁ	U+1C850 SHAALDAA SYLLABLE DII
ଫୁ	U+1C851 SHAALDAA SYLLABLE DEE
ଫୁ	U+1C852 SHAALDAA SYLLABLE DOO
ଫୁ	U+1C853 SHAALDAA SYLLABLE D
ଫୁ	U+1C854 SHAALDAA SYLLABLE DD BASE
ଫୁ	U+1C855 SHAALDAA SYLLABLE DDA
ଫୁ	U+1C856 SHAALDAA SYLLABLE DDU
ଫୁ	U+1C857 SHAALDAA SYLLABLE DDI
ଫୁ	U+1C858 SHAALDAA SYLLABLE DDE
ଫୁ	U+1C859 SHAALDAA SYLLABLE DDO

ଡା	U+1C85A SHAALDAA SYLLABLE DDAA
ଡୁ	U+1C85B SHAALDAA SYLLABLE DDUU
ଡି	U+1C85C SHAALDAA SYLLABLE DDII
ଡେ	U+1C85D SHAALDAA SYLLABLE DDEE
ଡୋ	U+1C85E SHAALDAA SYLLABLE DDOO
ଡ଼	U+1C85F SHAALDAA SYLLABLE DD
ହ	U+1C860 SHAALDAA SYLLABLE H BASE
ହା	U+1C861 SHAALDAA SYLLABLE HA
ହୁ	U+1C862 SHAALDAA SYLLABLE HU
ହି	U+1C863 SHAALDAA SYLLABLE HI
ହେ	U+1C864 SHAALDAA SYLLABLE HE
ହୋ	U+1C865 SHAALDAA SYLLABLE HO
ହାା	U+1C866 SHAALDAA SYLLABLE HAA
ହୁା	U+1C867 SHAALDAA SYLLABLE HUU
ହିା	U+1C868 SHAALDAA SYLLABLE HII
ହୋ	U+1C869 SHAALDAA SYLLABLE HEE
ହୋା	U+1C86A SHAALDAA SYLLABLE HOO
ହାବ	U+1C86B SHAALDAA SYLLABLE H
ହୁବ	U+1C86C SHAALDAA SYLLABLE HH BASE
ହାହ	U+1C86D SHAALDAA SYLLABLE HHA
ହୁହ	U+1C86E SHAALDAA SYLLABLE HHU
ହିହ	U+1C86F SHAALDAA SYLLABLE HHI
ହେହ	U+1C870 SHAALDAA SYLLABLE HHE
ହୋହ	U+1C871 SHAALDAA SYLLABLE HHO
ହାହା	U+1C872 SHAALDAA SYLLABLE HHAA
ହୁହା	U+1C873 SHAALDAA SYLLABLE HHUU
ହିହା	U+1C874 SHAALDAA SYLLABLE HHII
ହେହୀ	U+1C875 SHAALDAA SYLLABLE HHEE
ହୋହୋ	U+1C876 SHAALDAA SYLLABLE HHOO
ହାହି	U+1C877 SHAALDAA SYLLABLE HH
ଵ	U+1C878 SHAALDAA SYLLABLE W BASE
ଵା	U+1C879 SHAALDAA SYLLABLE WA
ଵୁ	U+1C87A SHAALDAA SYLLABLE WU
ଵି	U+1C87B SHAALDAA SYLLABLE WI
ଵେ	U+1C87C SHAALDAA SYLLABLE WE
ଵୋ	U+1C87D SHAALDAA SYLLABLE WO
ଵାା	U+1C87E SHAALDAA SYLLABLE WAA
ଵୁା	U+1C87F SHAALDAA SYLLABLE WUU
ଵିା	U+1C880 SHAALDAA SYLLABLE WII

Ѐ	U+1C881 SHAALDAA SYLLABLE WEE
Ӧ	U+1C882 SHAALDAA SYLLABLE WOO
Ӧ	U+1C883 SHAALDAA SYLLABLE W
Ӧ	U+1C884 SHAALDAA SYLLABLE WW BASE
Ӧ	U+1C885 SHAALDAA SYLLABLE WWA
Ӧ	U+1C886 SHAALDAA SYLLABLE WWU
Ӧ	U+1C887 SHAALDAA SYLLABLE WWI
Ӧ	U+1C888 SHAALDAA SYLLABLE WWE
Ӧ	U+1C889 SHAALDAA SYLLABLE WWO
Ӧ	U+1C88A SHAALDAA SYLLABLE WWAA
Ӧ	U+1C88B SHAALDAA SYLLABLE WWUU
Ӧ	U+1C88C SHAALDAA SYLLABLE WWII
Ӧ	U+1C88D SHAALDAA SYLLABLE WWEE
Ӧ	U+1C88E SHAALDAA SYLLABLE WWO
Ӧ	U+1C88F SHAALDAA SYLLABLE WW
Ӧ	U+1C890 SHAALDAA SYLLABLE Z BASE
Ӧ	U+1C891 SHAALDAA SYLLABLE ZA
Ӧ	U+1C892 SHAALDAA SYLLABLE ZU
Ӧ	U+1C893 SHAALDAA SYLLABLE ZI
Ӧ	U+1C894 SHAALDAA SYLLABLE ZE
Ӧ	U+1C895 SHAALDAA SYLLABLE ZO
Ӧ	U+1C896 SHAALDAA SYLLABLE ZAA
Ӧ	U+1C897 SHAALDAA SYLLABLE ZUU
Ӧ	U+1C898 SHAALDAA SYLLABLE ZII
Ӧ	U+1C899 SHAALDAA SYLLABLE ZEE
Ӧ	U+1C89A SHAALDAA SYLLABLE ZOO
Ӧ	U+1C89B SHAALDAA SYLLABLE Z
Ӧ	U+1C89C SHAALDAA SYLLABLE ZZ BASE
Ӧ	U+1C89D SHAALDAA SYLLABLE ZZA
Ӧ	U+1C89E SHAALDAA SYLLABLE ZZU
Ӧ	U+1C89F SHAALDAA SYLLABLE ZZI
Ӧ	U+1C8A0 SHAALDAA SYLLABLE ZZE
Ӧ	U+1C8A1 SHAALDAA SYLLABLE ZZO
Ӧ	U+1C8A2 SHAALDAA SYLLABLE ZZAA
Ӧ	U+1C8A3 SHAALDAA SYLLABLE ZZUU
Ӧ	U+1C8A4 SHAALDAA SYLLABLE ZZII
Ӧ	U+1C8A5 SHAALDAA SYLLABLE ZZEE
Ӧ	U+1C8A6 SHAALDAA SYLLABLE ZZOO
Ӧ	U+1C8A7 SHAALDAA SYLLABLE ZZ

ঁ	U+1C8A8 SHAALDAA SYLLABLE HX BASE
ং	U+1C8A9 SHAALDAA SYLLABLE HXA
ঃ	U+1C8AA SHAALDAA SYLLABLE HXU
ঁ	U+1C8AB SHAALDAA SYLLABLE HXI
ং	U+1C8AC SHAALDAA SYLLABLE HXE
ঃ	U+1C8AD SHAALDAA SYLLABLE HXO
ঁ	U+1C8AE SHAALDAA SYLLABLE HXAA
ং	U+1C8AF SHAALDAA SYLLABLE HXUU
ঁ	U+1C8B0 SHAALDAA SYLLABLE HXII
ঃ	U+1C8B1 SHAALDAA SYLLABLE HXEE
ঃ	U+1C8B2 SHAALDAA SYLLABLE HXOO
ঁ	U+1C8B3 SHAALDAA SYLLABLE HX
ঁ	U+1C8B4 SHAALDAA SYLLABLE HHX BASE
ং	U+1C8B5 SHAALDAA SYLLABLE HHXA
ঃ	U+1C8B6 SHAALDAA SYLLABLE HHXU
ঁ	U+1C8B7 SHAALDAA SYLLABLE HHXI
ং	U+1C8B8 SHAALDAA SYLLABLE HHXE
ঃ	U+1C8B9 SHAALDAA SYLLABLE HHXO
ঁ	U+1C8BA SHAALDAA SYLLABLE HHXAA
ং	U+1C8BB SHAALDAA SYLLABLE HHXUU
ঁ	U+1C8BC SHAALDAA SYLLABLE HHXII
ঃ	U+1C8BD SHAALDAA SYLLABLE HHXEE
ঃ	U+1C8BE SHAALDAA SYLLABLE HHXOO
ঁ	U+1C8BF SHAALDAA SYLLABLE HHX
ঁ	U+1C8C0 SHAALDAA SYLLABLE X BASE
ং	U+1C8C1 SHAALDAA SYLLABLE XA
ঁ	U+1C8C2 SHAALDAA SYLLABLE XU
ঁ	U+1C8C3 SHAALDAA SYLLABLE XI
ঁ	U+1C8C4 SHAALDAA SYLLABLE XE
ঁ	U+1C8C5 SHAALDAA SYLLABLE XO
ঁ	U+1C8C6 SHAALDAA SYLLABLE XAA
ঁ	U+1C8C7 SHAALDAA SYLLABLE XUU
ঁ	U+1C8C8 SHAALDAA SYLLABLE XII
ঁ	U+1C8C9 SHAALDAA SYLLABLE XEE
ঁ	U+1C8CA SHAALDAA SYLLABLE XOO
ঁ	U+1C8CB SHAALDAA SYLLABLE X
ঁ	U+1C8CC SHAALDAA SYLLABLE XX BASE
ঁ	U+1C8CD SHAALDAA SYLLABLE XXA
ঁ	U+1C8CE SHAALDAA SYLLABLE XXU

𠂇	U+1C8CF SHAALDAA SYLLABLE XXI
𠂈	U+1C8D0 SHAALDAA SYLLABLE XXE
𠂉	U+1C8D1 SHAALDAA SYLLABLE XXO
𠂊	U+1C8D2 SHAALDAA SYLLABLE XXAA
𠂋	U+1C8D3 SHAALDAA SYLLABLE XXUU
𠂌	U+1C8D4 SHAALDAA SYLLABLE XXII
𠂍	U+1C8D5 SHAALDAA SYLLABLE XXEE
𠂎	U+1C8D6 SHAALDAA SYLLABLE XXOO
𠂏	U+1C8D7 SHAALDAA SYLLABLE XX
𠂑	U+1C8D8 SHAALDAA SYLLABLE Y BASE
𠂒	U+1C8D9 SHAALDAA SYLLABLE YA
𠂓	U+1C8DA SHAALDAA SYLLABLE YU
𠂔	U+1C8DB SHAALDAA SYLLABLE YI
𠂕	U+1C8DC SHAALDAA SYLLABLE YE
𠂖	U+1C8DD SHAALDAA SYLLABLE YO
𠂗	U+1C8DE SHAALDAA SYLLABLE YAA
𠂘	U+1C8DF SHAALDAA SYLLABLE YUU
𠂙	U+1C8E0 SHAALDAA SYLLABLE YII
𠂚	U+1C8E1 SHAALDAA SYLLABLE YEE
𠂛	U+1C8E2 SHAALDAA SYLLABLE YOO
𠂜	U+1C8E3 SHAALDAA SYLLABLE Y
𠂝	U+1C8E4 SHAALDAA SYLLABLE YY BASE
𠂞	U+1C8E5 SHAALDAA SYLLABLE YYA
𠂟	U+1C8E6 SHAALDAA SYLLABLE YYU
𠂟	U+1C8E7 SHAALDAA SYLLABLE YYI
𠂢	U+1C8E8 SHAALDAA SYLLABLE YYE
𠂣	U+1C8E9 SHAALDAA SYLLABLE YYO
𠂤	U+1C8EA SHAALDAA SYLLABLE YYAA
𠂥	U+1C8EB SHAALDAA SYLLABLE YYUU
𠂦	U+1C8EC SHAALDAA SYLLABLE YYII
𠂦	U+1C8ED SHAALDAA SYLLABLE YYEE
𠂧	U+1C8EE SHAALDAA SYLLABLE YYOO
𠂨	U+1C8EF SHAALDAA SYLLABLE YY
𠂩	U+1C8F0 SHAALDAA SYLLABLE K BASE
𠂪	U+1C8F1 SHAALDAA SYLLABLE KA
𠂫	U+1C8F2 SHAALDAA SYLLABLE KU
𠂬	U+1C8F3 SHAALDAA SYLLABLE KI
𠂭	U+1C8F4 SHAALDAA SYLLABLE KE
𠂮	U+1C8F5 SHAALDAA SYLLABLE KO

Ѐ	U+1C8F6 SHAALDAA SYLLABLE KAA
Ӧ	U+1C8F7 SHAALDAA SYLLABLE KUU
Ӧ	U+1C8F8 SHAALDAA SYLLABLE KII
Ӧ	U+1C8F9 SHAALDAA SYLLABLE KEE
Ӧ	U+1C8FA SHAALDAA SYLLABLE KOO
Ӧ	U+1C8FB SHAALDAA SYLLABLE K
Ӧ	U+1C8FC SHAALDAA SYLLABLE KK BASE
Ӧ	U+1C8FD SHAALDAA SYLLABLE KKA
Ӧ	U+1C8FE SHAALDAA SYLLABLE KKU
Ӧ	U+1C8FF SHAALDAA SYLLABLE KKI
Ӧ	U+1C900 SHAALDAA SYLLABLE KKE
Ӧ	U+1C901 SHAALDAA SYLLABLE KKO
Ӧ	U+1C902 SHAALDAA SYLLABLE KAA
Ӧ	U+1C903 SHAALDAA SYLLABLE KKUU
Ӧ	U+1C904 SHAALDAA SYLLABLE KKII
Ӧ	U+1C905 SHAALDAA SYLLABLE KKEE
Ӧ	U+1C906 SHAALDAA SYLLABLE KKOO
Ӧ	U+1C907 SHAALDAA SYLLABLE KK
Ӧ	U+1C908 SHAALDAA SYLLABLE L BASE
Ӧ	U+1C909 SHAALDAA SYLLABLE LA
Ӧ	U+1C90A SHAALDAA SYLLABLE LU
Ӧ	U+1C90B SHAALDAA SYLLABLE LI
Ӧ	U+1C90C SHAALDAA SYLLABLE LE
Ӧ	U+1C90D SHAALDAA SYLLABLE LO
Ӧ	U+1C90E SHAALDAA SYLLABLE LAA
Ӧ	U+1C90F SHAALDAA SYLLABLE LUU
Ӧ	U+1C910 SHAALDAA SYLLABLE LII
Ӧ	U+1C911 SHAALDAA SYLLABLE LEE
Ӧ	U+1C912 SHAALDAA SYLLABLE LOO
Ӧ	U+1C913 SHAALDAA SYLLABLE L
Ӧ	U+1C914 SHAALDAA SYLLABLE LL BASE
Ӧ	U+1C915 SHAALDAA SYLLABLE LLA
Ӧ	U+1C916 SHAALDAA SYLLABLE LLU
Ӧ	U+1C917 SHAALDAA SYLLABLE LLI
Ӧ	U+1C918 SHAALDAA SYLLABLE LLE
Ӧ	U+1C919 SHAALDAA SYLLABLE LLO
Ӧ	U+1C91A SHAALDAA SYLLABLE LLAA
Ӧ	U+1C91B SHAALDAA SYLLABLE LLUU
Ӧ	U+1C91C SHAALDAA SYLLABLE LLII

લો	U+1C91D SHAALDAA SYLLABLE LLEE
લુ	U+1C91E SHAALDAA SYLLABLE LLOO
લુ	U+1C91F SHAALDAA SYLLABLE LL
મી	U+1C920 SHAALDAA SYLLABLE M BASE
મી	U+1C921 SHAALDAA SYLLABLE MA
મુ	U+1C922 SHAALDAA SYLLABLE MU
મી	U+1C923 SHAALDAA SYLLABLE MI
મી	U+1C924 SHAALDAA SYLLABLE ME
મો	U+1C925 SHAALDAA SYLLABLE MO
મી	U+1C926 SHAALDAA SYLLABLE MAA
મુ	U+1C927 SHAALDAA SYLLABLE MUU
મી	U+1C928 SHAALDAA SYLLABLE MII
મી	U+1C929 SHAALDAA SYLLABLE MEE
મો	U+1C92A SHAALDAA SYLLABLE MOO
મી	U+1C92B SHAALDAA SYLLABLE M
મી	U+1C92C SHAALDAA SYLLABLE MM BASE
મી	U+1C92D SHAALDAA SYLLABLE MMA
મી	U+1C92E SHAALDAA SYLLABLE MMU
મી	U+1C92F SHAALDAA SYLLABLE MMI
મી	U+1C930 SHAALDAA SYLLABLE MME
મી	U+1C931 SHAALDAA SYLLABLE MMO
મી	U+1C932 SHAALDAA SYLLABLE MMAA
મી	U+1C933 SHAALDAA SYLLABLE MMUU
મી	U+1C934 SHAALDAA SYLLABLE MMII
મી	U+1C935 SHAALDAA SYLLABLE MMEE
મી	U+1C936 SHAALDAA SYLLABLE MMOO
મી	U+1C937 SHAALDAA SYLLABLE MM
નો	U+1C938 SHAALDAA SYLLABLE N BASE
નો	U+1C939 SHAALDAA SYLLABLE NA
નો	U+1C93A SHAALDAA SYLLABLE NU
નો	U+1C93B SHAALDAA SYLLABLE NI
નો	U+1C93C SHAALDAA SYLLABLE NE
નો	U+1C93D SHAALDAA SYLLABLE NO
નો	U+1C93E SHAALDAA SYLLABLE NAA
નો	U+1C93F SHAALDAA SYLLABLE NUU
નો	U+1C940 SHAALDAA SYLLABLE NII
નો	U+1C941 SHAALDAA SYLLABLE NEE
નો	U+1C942 SHAALDAA SYLLABLE NOO
નો	U+1C943 SHAALDAA SYLLABLE N

ଶ	U+1C944 SHAALDAA SYLLABLE NN BASE
ଶା	U+1C945 SHAALDAA SYLLABLE NNA
ଶାନ	U+1C946 SHAALDAA SYLLABLE NNU
ଶାନୀ	U+1C947 SHAALDAA SYLLABLE NNI
ଶାନୀୟ	U+1C948 SHAALDAA SYLLABLE NNE
ଶାନୋ	U+1C949 SHAALDAA SYLLABLE NNO
ଶାନ୍ତ	U+1C94A SHAALDAA SYLLABLE NNAA
ଶାନ୍ତୁ	U+1C94B SHAALDAA SYLLABLE NNUU
ଶାନ୍ତି	U+1C94C SHAALDAA SYLLABLE NNII
ଶାନ୍ତୀ	U+1C94D SHAALDAA SYLLABLE NNEE
ଶାନ୍ତ୍ୟ	U+1C94E SHAALDAA SYLLABLE NNOO
ଶାନ୍ତନ	U+1C94F SHAALDAA SYLLABLE NN
ଶାନ୍ତ୍ସ	U+1C950 SHAALDAA SYLLABLE S BASE
ଶାନ୍ତ୍ସା	U+1C951 SHAALDAA SYLLABLE SA
ଶାନ୍ତ୍ସୁ	U+1C952 SHAALDAA SYLLABLE SU
ଶାନ୍ତ୍ସି	U+1C953 SHAALDAA SYLLABLE SI
ଶାନ୍ତ୍ସେ	U+1C954 SHAALDAA SYLLABLE SE
ଶାନ୍ତ୍ସୋ	U+1C955 SHAALDAA SYLLABLE SO
ଶାନ୍ତ୍ସାା	U+1C956 SHAALDAA SYLLABLE SAA
ଶାନ୍ତ୍ସୁୟ	U+1C957 SHAALDAA SYLLABLE SUU
ଶାନ୍ତ୍ସିୟ	U+1C958 SHAALDAA SYLLABLE SII
ଶାନ୍ତ୍ସୀୟ	U+1C959 SHAALDAA SYLLABLE SEE
ଶାନ୍ତ୍ସୋୟ	U+1C95A SHAALDAA SYLLABLE SOO
ଶାନ୍ତ୍ସିୟୁ	U+1C95B SHAALDAA SYLLABLE S
ଶାନ୍ତ୍ସେୟ	U+1C95C SHAALDAA SYLLABLE SS BASE
ଶାନ୍ତ୍ସୋୟୁ	U+1C95D SHAALDAA SYLLABLE SSA
ଶାନ୍ତ୍ସୁୟୁ	U+1C95E SHAALDAA SYLLABLE SSU
ଶାନ୍ତ୍ସୀୟୁ	U+1C95F SHAALDAA SYLLABLE SSI
ଶାନ୍ତ୍ସେୟୁ	U+1C960 SHAALDAA SYLLABLE SSE
ଶାନ୍ତ୍ସୋୟୁୟ	U+1C961 SHAALDAA SYLLABLE SSO
ଶାନ୍ତ୍ସୁୟୋ	U+1C962 SHAALDAA SYLLABLE SSAA
ଶାନ୍ତ୍ସୁୟୋୟ	U+1C963 SHAALDAA SYLLABLE SSUU
ଶାନ୍ତ୍ସୀୟୋୟ	U+1C964 SHAALDAA SYLLABLE SSII
ଶାନ୍ତ୍ସେୟୋୟ	U+1C965 SHAALDAA SYLLABLE SSEE
ଶାନ୍ତ୍ସୋୟୋୟ	U+1C966 SHAALDAA SYLLABLE SSOO
ଶାନ୍ତ୍ସୁୟୋୟୁ	U+1C967 SHAALDAA SYLLABLE SS
ଶାନ୍ତ୍ସୁୟୋୟୁୟ	U+1C968 SHAALDAA SYLLABLE F BASE
ଶାନ୍ତ୍ସୁୟୋୟୁୟୁ	U+1C969 SHAALDAA SYLLABLE FA
ଶାନ୍ତ୍ସୁୟୋୟୁୟୁୟ	U+1C96A SHAALDAA SYLLABLE FU

ଫି	U+1C96B SHAALDAA SYLLABLE FI
ଫେ	U+1C96C SHAALDAA SYLLABLE FE
ଫୋ	U+1C96D SHAALDAA SYLLABLE FO
ଫା	U+1C96E SHAALDAA SYLLABLE FAA
ଫୁ	U+1C96F SHAALDAA SYLLABLE FUU
ଫିଇ	U+1C970 SHAALDAA SYLLABLE FII
ଫେଇ	U+1C971 SHAALDAA SYLLABLE FEE
ଫୋଇ	U+1C972 SHAALDAA SYLLABLE FOO
ଫାଇ	U+1C973 SHAALDAA SYLLABLE F
ଫାଇୟ	U+1C974 SHAALDAA SYLLABLE FF BASE
ଫାଇଇ	U+1C975 SHAALDAA SYLLABLE FFA
ଫାଇୟୁ	U+1C976 SHAALDAA SYLLABLE FFU
ଫାଇୟି	U+1C977 SHAALDAA SYLLABLE FFI
ଫାଇୟେ	U+1C978 SHAALDAA SYLLABLE FFE
ଫାଇୟୋ	U+1C979 SHAALDAA SYLLABLE FFO
ଫାଇୟା	U+1C97A SHAALDAA SYLLABLE FFAA
ଫାଇୟୁ	U+1C97B SHAALDAA SYLLABLE FFUU
ଫାଇୟିଇ	U+1C97C SHAALDAA SYLLABLE FFII
ଫାଇୟେୟ	U+1C97D SHAALDAA SYLLABLE FFEE
ଫାଇୟୋୟ	U+1C97E SHAALDAA SYLLABLE FFOO
ଫାଇୟେୟୁ	U+1C97F SHAALDAA SYLLABLE FF
ସି	U+1C980 SHAALDAA SYLLABLE ALTERNATE S BASE
ସା	U+1C981 SHAALDAA SYLLABLE ALTERNATE SA
ସୁ	U+1C982 SHAALDAA SYLLABLE ALTERNATE SU
ସି	U+1C983 SHAALDAA SYLLABLE ALTERNATE SI
ସେ	U+1C984 SHAALDAA SYLLABLE ALTERNATE SE
ସୋ	U+1C985 SHAALDAA SYLLABLE ALTERNATE SO
ସାା	U+1C986 SHAALDAA SYLLABLE ALTERNATE SAA
ସୁା	U+1C987 SHAALDAA SYLLABLE ALTERNATE SUU
ସିା	U+1C988 SHAALDAA SYLLABLE ALTERNATE SII
ସୋ	U+1C989 SHAALDAA SYLLABLE ALTERNATE SEE
ସୋା	U+1C98A SHAALDAA SYLLABLE ALTERNATE SOO
ସିଇ	U+1C98B SHAALDAA SYLLABLE ALTERNATE S
ସେଇ	U+1C98C SHAALDAA SYLLABLE ALTERNATE SS BASE
ସାଏ	U+1C98D SHAALDAA SYLLABLE ALTERNATE SSA
ସୁଏ	U+1C98E SHAALDAA SYLLABLE ALTERNATE SSU
ସିଏ	U+1C98F SHAALDAA SYLLABLE ALTERNATE SSI
ସେଏ	U+1C990 SHAALDAA SYLLABLE ALTERNATE SSE
ସାଏୟ	U+1C991 SHAALDAA SYLLABLE ALTERNATE SSO

ଶ	U+1C992 SHAALDAA SYLLABLE ALTERNATE SSAA
ଶୁ	U+1C993 SHAALDAA SYLLABLE ALTERNATE SSUU
ଶୀ	U+1C994 SHAALDAA SYLLABLE ALTERNATE SSII
ଶୀୟ	U+1C995 SHAALDAA SYLLABLE ALTERNATE SSEE
ଶୌ	U+1C996 SHAALDAA SYLLABLE ALTERNATE SSOO
ଶୁୟ	U+1C997 SHAALDAA SYLLABLE ALTERNATE SS
ଶୀୟା	U+1C998 SHAALDAA SYLLABLE Q BASE
ଶୀୟା	U+1C999 SHAALDAA SYLLABLE QA
ଶୀୟା	U+1C99A SHAALDAA SYLLABLE QU
ଶୀୟି	U+1C99B SHAALDAA SYLLABLE QI
ଶୀୟେ	U+1C99C SHAALDAA SYLLABLE QE
ଶୀୟୋ	U+1C99D SHAALDAA SYLLABLE QO
ଶୀୟାା	U+1C99E SHAALDAA SYLLABLE QAA
ଶୀୟାା	U+1C99F SHAALDAA SYLLABLE QUU
ଶୀୟିା	U+1C9A0 SHAALDAA SYLLABLE QII
ଶୀୟୋ	U+1C9A1 SHAALDAA SYLLABLE QEE
ଶୀୟୋା	U+1C9A2 SHAALDAA SYLLABLE QOO
ଶୀୟା	U+1C9A3 SHAALDAA SYLLABLE Q
ଶୀୟା	U+1C9A4 SHAALDAA SYLLABLE QQ BASE
ଶୀୟା	U+1C9A5 SHAALDAA SYLLABLE QQA
ଶୀୟା	U+1C9A6 SHAALDAA SYLLABLE QQU
ଶୀୟି	U+1C9A7 SHAALDAA SYLLABLE QKI
ଶୀୟି	U+1C9A8 SHAALDAA SYLLABLE QQE
ଶୀୟି	U+1C9A9 SHAALDAA SYLLABLE QOO
ଶୀୟାା	U+1C9AA SHAALDAA SYLLABLE QQAA
ଶୀୟାା	U+1C9AB SHAALDAA SYLLABLE QQUU
ଶୀୟିା	U+1C9AC SHAALDAA SYLLABLE QQII
ଶୀୟୋ	U+1C9AD SHAALDAA SYLLABLE QQEE
ଶୀୟୋା	U+1C9AE SHAALDAA SYLLABLE QQOO
ଶୀୟା	U+1C9AF SHAALDAA SYLLABLE QQ
ର	U+1C9B0 SHAALDAA SYLLABLE R BASE
ରା	U+1C9B1 SHAALDAA SYLLABLE RA
ରୁ	U+1C9B2 SHAALDAA SYLLABLE RU
ରି	U+1C9B3 SHAALDAA SYLLABLE RI
ରେ	U+1C9B4 SHAALDAA SYLLABLE RE
ରୋ	U+1C9B5 SHAALDAA SYLLABLE RO
ରାା	U+1C9B6 SHAALDAA SYLLABLE RAA
ରୁୟ	U+1C9B7 SHAALDAA SYLLABLE RUU
ରିୟ	U+1C9B8 SHAALDAA SYLLABLE RII

Ѐ	U+1C9B9 SHAALDAA SYLLABLE REE
Ӧ	U+1C9BA SHAALDAA SYLLABLE ROO
Ӧ	U+1C9BB SHAALDAA SYLLABLE R
Ӧ	U+1C9BC SHAALDAA SYLLABLE RR BASE
Ӧ	U+1C9BD SHAALDAA SYLLABLE RRA
Ӧ	U+1C9BE SHAALDAA SYLLABLE RRU
Ӧ	U+1C9BF SHAALDAA SYLLABLE RRI
Ӧ	U+1C9C0 SHAALDAA SYLLABLE RRE
Ӧ	U+1C9C1 SHAALDAA SYLLABLE RRO
Ӧ	U+1C9C2 SHAALDAA SYLLABLE RRAA
Ӧ	U+1C9C3 SHAALDAA SYLLABLE RRUU
Ӧ	U+1C9C4 SHAALDAA SYLLABLE RRII
Ӧ	U+1C9C5 SHAALDAA SYLLABLE RREE
Ӧ	U+1C9C6 SHAALDAA SYLLABLE RROO
Ӧ	U+1C9C7 SHAALDAA SYLLABLE RR
Ӧ	U+1C9C8 SHAALDAA SYLLABLE SH BASE
Ӧ	U+1C9C9 SHAALDAA SYLLABLE SHA
Ӧ	U+1C9CA SHAALDAA SYLLABLE SHU
Ӧ	U+1C9CB SHAALDAA SYLLABLE SHI
Ӧ	U+1C9CC SHAALDAA SYLLABLE SHE
Ӧ	U+1C9CD SHAALDAA SYLLABLE SHO
Ӧ	U+1C9CE SHAALDAA SYLLABLE SHAA
Ӧ	U+1C9CF SHAALDAA SYLLABLE SHUU
Ӧ	U+1C9D0 SHAALDAA SYLLABLE SHII
Ӧ	U+1C9D1 SHAALDAA SYLLABLE SHEE
Ӧ	U+1C9D2 SHAALDAA SYLLABLE SHOO
Ӧ	U+1C9D3 SHAALDAA SYLLABLE SH
Ӧ	U+1C9D4 SHAALDAA SYLLABLE SSH BASE
Ӧ	U+1C9D5 SHAALDAA SYLLABLE SSHA
Ӧ	U+1C9D6 SHAALDAA SYLLABLE SSHU
Ӧ	U+1C9D7 SHAALDAA SYLLABLE SSHI
Ӧ	U+1C9D8 SHAALDAA SYLLABLE SSHE
Ӧ	U+1C9D9 SHAALDAA SYLLABLE SSHO
Ӧ	U+1C9DA SHAALDAA SYLLABLE SSHAA
Ӧ	U+1C9DB SHAALDAA SYLLABLE SSHUU
Ӧ	U+1C9DC SHAALDAA SYLLABLE SSHII
Ӧ	U+1C9DD SHAALDAA SYLLABLE SSHEE
Ӧ	U+1C9DE SHAALDAA SYLLABLE SSHOO
Ӧ	U+1C9DF SHAALDAA SYLLABLE SSH

ㄱ	U+1C9E0 SHAALDAA SYLLABLE T BASE
ㅏ	U+1C9E1 SHAALDAA SYLLABLE TA
ㅑ	U+1C9E2 SHAALDAA SYLLABLE TU
ㅓ	U+1C9E3 SHAALDAA SYLLABLE TI
ㅕ	U+1C9E4 SHAALDAA SYLLABLE TE
ㅘ	U+1C9E5 SHAALDAA SYLLABLE TO
ㅕ	U+1C9E6 SHAALDAA SYLLABLE TAA
ㅕ	U+1C9E7 SHAALDAA SYLLABLE TUU
ㅕ	U+1C9E8 SHAALDAA SYLLABLE TII
ㅕ	U+1C9E9 SHAALDAA SYLLABLE TEE
ㅕ	U+1C9EA SHAALDAA SYLLABLE TOO
ㅕ	U+1C9EB SHAALDAA SYLLABLE T
ㅕ	U+1C9EC SHAALDAA SYLLABLE TT BASE
ㅕ	U+1C9ED SHAALDAA SYLLABLE TTA
ㅕ	U+1C9EE SHAALDAA SYLLABLE TTU
ㅕ	U+1C9EF SHAALDAA SYLLABLE TTI
ㅕ	U+1C9F0 SHAALDAA SYLLABLE TTE
ㅕ	U+1C9F1 SHAALDAA SYLLABLE TTO
ㅕ	U+1C9F2 SHAALDAA SYLLABLE TTAA
ㅕ	U+1C9F3 SHAALDAA SYLLABLE TTUU
ㅕ	U+1C9F4 SHAALDAA SYLLABLE TTII
ㅕ	U+1C9F5 SHAALDAA SYLLABLE TTEE
ㅕ	U+1C9F6 SHAALDAA SYLLABLE TTOO
ㅕ	U+1C9F7 SHAALDAA SYLLABLE TT
ㅋ	U+1C9F8 SHAALDAA SYLLABLE KH BASE
ㅋ	U+1C9F9 SHAALDAA SYLLABLE KHA
ㅋ	U+1C9FA SHAALDAA SYLLABLE KHU
ㅋ	U+1C9FB SHAALDAA SYLLABLE KHI
ㅋ	U+1C9FC SHAALDAA SYLLABLE KHE
ㅋ	U+1C9FD SHAALDAA SYLLABLE KHO
ㅋ	U+1C9FE SHAALDAA SYLLABLE KHA
ㅋ	U+1C9FF SHAALDAA SYLLABLE KHUU
ㅋ	U+1CA00 SHAALDAA SYLLABLE KHII
ㅋ	U+1CA01 SHAALDAA SYLLABLE KHEE
ㅋ	U+1CA02 SHAALDAA SYLLABLE KHOO
ㅋ	U+1CA03 SHAALDAA SYLLABLE KH
ㅋ	U+1CA04 SHAALDAA SYLLABLE KKH BASE
ㅋ	U+1CA05 SHAALDAA SYLLABLE KKHA
ㅋ	U+1CA06 SHAALDAA SYLLABLE KKHU

ଙ	U+1CA07 SHAALDAA SYLLABLE KKHI
ଙୁ	U+1CA08 SHAALDAA SYLLABLE KKHE
ଙୁଁ	U+1CA09 SHAALDAA SYLLABLE KKHO
ଙୁା	U+1CA0A SHAALDAA SYLLABLE KKHA
ଙୁଁ	U+1CA0B SHAALDAA SYLLABLE KKHU
ଙୁଁ	U+1CA0C SHAALDAA SYLLABLE KKHI
ଙୁଁ	U+1CA0D SHAALDAA SYLLABLE KKXEE
ଙୁଁ	U+1CA0E SHAALDAA SYLLABLE KKHO
ଙୁଁ	U+1CA0F SHAALDAA SYLLABLE KKH
ଙୁ	U+1CA10 SHAALDAA SYLLABLE DH BASE
ଙୁ	U+1CA11 SHAALDAA SYLLABLE DHA
ଙୁ	U+1CA12 SHAALDAA SYLLABLE DHU
ଙୁ	U+1CA13 SHAALDAA SYLLABLE DHI
ଙୁ	U+1CA14 SHAALDAA SYLLABLE DHE
ଙୁ	U+1CA15 SHAALDAA SYLLABLE DHO
ଙୁ	U+1CA16 SHAALDAA SYLLABLE DHAA
ଙୁଁ	U+1CA17 SHAALDAA SYLLABLE DHUU
ଙୁଁ	U+1CA18 SHAALDAA SYLLABLE DHII
ଙୁଁ	U+1CA19 SHAALDAA SYLLABLE DHEE
ଙୁଁ	U+1CA1A SHAALDAA SYLLABLE DHOO
ଙୁଁ	U+1CA1B SHAALDAA SYLLABLE DH
ଙୁ	U+1CA1C SHAALDAA SYLLABLE DDH BASE
ଙୁ	U+1CA1D SHAALDAA SYLLABLE DDHA
ଙୁ	U+1CA1E SHAALDAA SYLLABLE DDHU
ଙୁ	U+1CA1F SHAALDAA SYLLABLE DDHI
ଙୁ	U+1CA20 SHAALDAA SYLLABLE DDHE
ଙୁ	U+1CA21 SHAALDAA SYLLABLE DDHO
ଙୁ	U+1CA22 SHAALDAA SYLLABLE DDHAA
ଙୁଁ	U+1CA23 SHAALDAA SYLLABLE DDHUU
ଙୁଁ	U+1CA24 SHAALDAA SYLLABLE DDHII
ଙୁଁ	U+1CA25 SHAALDAA SYLLABLE DDHEE
ଙୁଁ	U+1CA26 SHAALDAA SYLLABLE DDHOO
ଙୁଁ	U+1CA27 SHAALDAA SYLLABLE DDH
ଙୁ	U+1CA28 SHAALDAA SYLLABLE G BASE
ଙୁ	U+1CA29 SHAALDAA SYLLABLE GA
ଙୁ	U+1CA2A SHAALDAA SYLLABLE GU
ଙୁ	U+1CA2B SHAALDAA SYLLABLE GI
ଙୁ	U+1CA2C SHAALDAA SYLLABLE GE
ଙୁ	U+1CA2D SHAALDAA SYLLABLE GO

ଓ	U+1CA2E SHAALDAA SYLLABLE GAA
ଓ	U+1CA2F SHAALDAA SYLLABLE GUU
ଓ	U+1CA30 SHAALDAA SYLLABLE GII
ଓ	U+1CA31 SHAALDAA SYLLABLE GEE
ଓ	U+1CA32 SHAALDAA SYLLABLE GOO
ଓ	U+1CA33 SHAALDAA SYLLABLE G
ଓ	U+1CA34 SHAALDAA SYLLABLE GG BASE
ଓ	U+1CA35 SHAALDAA SYLLABLE GGA
ଓ	U+1CA36 SHAALDAA SYLLABLE GGU
ଓ	U+1CA37 SHAALDAA SYLLABLE GGI
ଓ	U+1CA38 SHAALDAA SYLLABLE GGE
ଓ	U+1CA39 SHAALDAA SYLLABLE GGO
ଓ	U+1CA3A SHAALDAA SYLLABLE GGAA
ଓ	U+1CA3B SHAALDAA SYLLABLE GGUU
ଓ	U+1CA3C SHAALDAA SYLLABLE GGII
ଓ	U+1CA3D SHAALDAA SYLLABLE GGEE
ଓ	U+1CA3E SHAALDAA SYLLABLE GGOO
ଓ	U+1CA3F SHAALDAA SYLLABLE GG
ଓ	U+1CA40 SHAALDAA SYLLABLE C BASE
ଓ	U+1CA41 SHAALDAA SYLLABLE CA
ଓ	U+1CA42 SHAALDAA SYLLABLE CU
ଓ	U+1CA43 SHAALDAA SYLLABLE CI
ଓ	U+1CA44 SHAALDAA SYLLABLE CE
ଓ	U+1CA45 SHAALDAA SYLLABLE CO
ଓ	U+1CA46 SHAALDAA SYLLABLE CAA
ଓ	U+1CA47 SHAALDAA SYLLABLE CUU
ଓ	U+1CA48 SHAALDAA SYLLABLE CII
ଓ	U+1CA49 SHAALDAA SYLLABLE CEE
ଓ	U+1CA4A SHAALDAA SYLLABLE COO
ଓ	U+1CA4B SHAALDAA SYLLABLE C
ଓ	U+1CA4C SHAALDAA SYLLABLE CC BASE
ଓ	U+1CA4D SHAALDAA SYLLABLE CCA
ଓ	U+1CA4E SHAALDAA SYLLABLE CCU
ଓ	U+1CA4F SHAALDAA SYLLABLE CCI
ଓ	U+1CA50 SHAALDAA SYLLABLE CCE
ଓ	U+1CA51 SHAALDAA SYLLABLE CCO
ଓ	U+1CA52 SHAALDAA SYLLABLE CCAA
ଓ	U+1CA53 SHAALDAA SYLLABLE CCUU
ଓ	U+1CA54 SHAALDAA SYLLABLE CCII

ଶ୍ରୀ	U+1CA55 SHAALDAA SYLLABLE CCEE
ଶ୍ରୀ	U+1CA56 SHAALDAA SYLLABLE CCOO
ଶ୍ରୀ	U+1CA57 SHAALDAA SYLLABLE CC
ଶ୍ରୀ	U+1CA58 SHAALDAA SYLLABLE NY BASE
ଶ୍ରୀ	U+1CA59 SHAALDAA SYLLABLE NYA
ଶ୍ରୀ	U+1CA5A SHAALDAA SYLLABLE NYU
ଶ୍ରୀ	U+1CA5B SHAALDAA SYLLABLE NYI
ଶ୍ରୀ	U+1CA5C SHAALDAA SYLLABLE NYE
ଶ୍ରୀ	U+1CA5D SHAALDAA SYLLABLE NYO
ଶ୍ରୀ	U+1CA5E SHAALDAA SYLLABLE NYAA
ଶ୍ରୀ	U+1CA5F SHAALDAA SYLLABLE NYUU
ଶ୍ରୀ	U+1CA60 SHAALDAA SYLLABLE NYII
ଶ୍ରୀ	U+1CA61 SHAALDAA SYLLABLE NYEE
ଶ୍ରୀ	U+1CA62 SHAALDAA SYLLABLE NYOO
ଶ୍ରୀ	U+1CA63 SHAALDAA SYLLABLE NY
ଶ୍ରୀ	U+1CA64 SHAALDAA SYLLABLE NNY BASE
ଶ୍ରୀ	U+1CA65 SHAALDAA SYLLABLE NNYA
ଶ୍ରୀ	U+1CA66 SHAALDAA SYLLABLE NNYU
ଶ୍ରୀ	U+1CA67 SHAALDAA SYLLABLE NNYI
ଶ୍ରୀ	U+1CA68 SHAALDAA SYLLABLE NNYE
ଶ୍ରୀ	U+1CA69 SHAALDAA SYLLABLE NNYO
ଶ୍ରୀ	U+1CA6A SHAALDAA SYLLABLE NNYAA
ଶ୍ରୀ	U+1CA6B SHAALDAA SYLLABLE NNYUU
ଶ୍ରୀ	U+1CA6C SHAALDAA SYLLABLE NNYII
ଶ୍ରୀ	U+1CA6D SHAALDAA SYLLABLE NNYEE
ଶ୍ରୀ	U+1CA6E SHAALDAA SYLLABLE NNYOO
ଶ୍ରୀ	U+1CA6F SHAALDAA SYLLABLE NNY
ଚ	U+1CA70 SHAALDAA SYLLABLE CH BASE
ଚ	U+1CA71 SHAALDAA SYLLABLE CHA
ଚ	U+1CA72 SHAALDAA SYLLABLE CHU
ଚ	U+1CA73 SHAALDAA SYLLABLE CHI
ଚ	U+1CA74 SHAALDAA SYLLABLE CHE
ଚ	U+1CA75 SHAALDAA SYLLABLE CHO
ଚ	U+1CA76 SHAALDAA SYLLABLE CHAA
ଚ	U+1CA77 SHAALDAA SYLLABLE CHUU
ଚ	U+1CA78 SHAALDAA SYLLABLE CHII
ଚ	U+1CA79 SHAALDAA SYLLABLE CHEE
ଚ	U+1CA7A SHAALDAA SYLLABLE CHOO
ଚ	U+1CA7B SHAALDAA SYLLABLE CH

ଙ	U+1CA7C SHAALDAA SYLLABLE CCH BASE
ଙ୍କ	U+1CA7D SHAALDAA SYLLABLE CCHA
ଙୁ	U+1CA7E SHAALDAA SYLLABLE CCHU
ଙୀ	U+1CA7F SHAALDAA SYLLABLE CCHI
ଙେ	U+1CA80 SHAALDAA SYLLABLE CCHE
ଙୋ	U+1CA81 SHAALDAA SYLLABLE CCHO
ଙ୍କ	U+1CA82 SHAALDAA SYLLABLE CCHAA
ଙୁୁ	U+1CA83 SHAALDAA SYLLABLE CCHUU
ଙୀୟ	U+1CA84 SHAALDAA SYLLABLE CCHII
ଙ୍କ୍ଷ	U+1CA85 SHAALDAA SYLLABLE CCHEE
ଙୁୢ	U+1CA86 SHAALDAA SYLLABLE CCHO
ଙ୍କ୍ଷ୍ମ	U+1CA87 SHAALDAA SYLLABLE CCH
ଙ୍କ୍ଷ୍ମୀ	U+1CA88 SHAALDAA SYLLABLE PH BASE
ଙ୍କ୍ଷ୍ମୀ	U+1CA89 SHAALDAA SYLLABLE PHA
ଙ୍କ୍ଷ୍ମୁ	U+1CA8A SHAALDAA SYLLABLE PHU
ଙ୍କ୍ଷ୍ମୀ	U+1CA8B SHAALDAA SYLLABLE PHI
ଙ୍କ୍ଷ୍ମେ	U+1CA8C SHAALDAA SYLLABLE PHE
ଙ୍କ୍ଷ୍ମୋ	U+1CA8D SHAALDAA SYLLABLE PHO
ଙ୍କ୍ଷ୍ମୋ	U+1CA8E SHAALDAA SYLLABLE PHAA
ଙ୍କ୍ଷ୍ମୁ୦	U+1CA8F SHAALDAA SYLLABLE PHUU
ଙ୍କ୍ଷ୍ମୀୟ	U+1CA90 SHAALDAA SYLLABLE PHII
ଙ୍କ୍ଷ୍ମେୟ	U+1CA91 SHAALDAA SYLLABLE PHEE
ଙ୍କ୍ଷ୍ମୋୟ	U+1CA92 SHAALDAA SYLLABLE PHOO
ଙ୍କ୍ଷ୍ମୁୢ	U+1CA93 SHAALDAA SYLLABLE PH
ଙ୍କ୍ଷ୍ମୀୢ	U+1CA94 SHAALDAA SYLLABLE PPH BASE
ଙ୍କ୍ଷ୍ମୀୢ	U+1CA95 SHAALDAA SYLLABLE PPHA
ଙ୍କ୍ଷ୍ମୁୢ୦	U+1CA96 SHAALDAA SYLLABLE PPHU
ଙ୍କ୍ଷ୍ମୀୢୀ	U+1CA97 SHAALDAA SYLLABLE PPHI
ଙ୍କ୍ଷ୍ମୁୢୁ	U+1CA98 SHAALDAA SYLLABLE PPHE
ଙ୍କ୍ଷ୍ମୀୢୁ	U+1CA99 SHAALDAA SYLLABLE PPHO
ଙ୍କ୍ଷ୍ମୀୢୋ	U+1CA9A SHAALDAA SYLLABLE PPAA
ଙ୍କ୍ଷ୍ମୁୢୋ୦	U+1CA9B SHAALDAA SYLLABLE PPHUU
ଙ୍କ୍ଷ୍ମୀୢୋୟ	U+1CA9C SHAALDAA SYLLABLE PPHII
ଙ୍କ୍ଷ୍ମୀୢେୟ	U+1CA9D SHAALDAA SYLLABLE PPHEE
ଙ୍କ୍ଷ୍ମୀୢୋୟୋ	U+1CA9E SHAALDAA SYLLABLE PPHOO
ଙ୍କ୍ଷ୍ମୁୢେୟ	U+1CA9F SHAALDAA SYLLABLE PPH
ଙ୍କ୍ଷ୍ମୁୢେୟୀ	U+1CAA0 SHAALDAA SYLLABLE PHARYNGEAL BASE
ଙ୍କ୍ଷ୍ମୁୢେୟୀୟ	U+1CAA1 SHAALDAA SYLLABLE PHARYNGEAL A
ଙ୍କ୍ଷ୍ମୁୢେୟୀୟୁ	U+1CAA2 SHAALDAA SYLLABLE PHARYNGEAL U

ଓ	U+1CAA3 SHAALDAA SYLLABLE PHARYNGEAL I
ঔ	U+1CAA4 SHAALDAA SYLLABLE PHARYNGEAL E
ঔ	U+1CAA5 SHAALDAA SYLLABLE PHARYNGEAL O
ঔ	U+1CAA6 SHAALDAA SYLLABLE PHARYNGEAL AA
ঔ	U+1CAA7 SHAALDAA SYLLABLE PHARYNGEAL UU
ঔ	U+1CAA8 SHAALDAA SYLLABLE PHARYNGEAL II
ঔ	U+1CAA9 SHAALDAA SYLLABLE PHARYNGEAL EE
ঔ	U+1CAAA SHAALDAA SYLLABLE PHARYNGEAL OO
ঔ	U+1CAAB SHAALDAA SYLLABLE PHARYNGEAL
ঔ	U+1CAAC SHAALDAA SYLLABLE GEMINATE PHARYNGEAL BASE
ঔ	U+1CAAD SHAALDAA SYLLABLE GEMINATE PHARYNGEAL A
ঔ	U+1CAAE SHAALDAA SYLLABLE GEMINATE PHARYNGEAL U
ঔ	U+1CAAF SHAALDAA SYLLABLE GEMINATE PHARYNGEAL I
ঔ	U+1CAB0 SHAALDAA SYLLABLE GEMINATE PHARYNGEAL E
ঔ	U+1CAB1 SHAALDAA SYLLABLE GEMINATE PHARYNGEAL O
ঔ	U+1CAB2 SHAALDAA SYLLABLE GEMINATE PHARYNGEAL AA
ঔ	U+1CAB3 SHAALDAA SYLLABLE GEMINATE PHARYNGEAL UU
ঔ	U+1CAB4 SHAALDAA SYLLABLE GEMINATE PHARYNGEAL II
ঔ	U+1CAB5 SHAALDAA SYLLABLE GEMINATE PHARYNGEAL EE
ঔ	U+1CAB6 SHAALDAA SYLLABLE GEMINATE PHARYNGEAL OO
ঔ	U+1CAB7 SHAALDAA SYLLABLE GEMINATE PHARYNGEAL
ঔ	U+1CAB8 SHAALDAA SYLLABLE P BASE
ঔ	U+1CAB9 SHAALDAA SYLLABLE PA
ঔ	U+1CABA SHAALDAA SYLLABLE PU
ঔ	U+1CABB SHAALDAA SYLLABLE PI
ঔ	U+1CABC SHAALDAA SYLLABLE PE
ঔ	U+1CABD SHAALDAA SYLLABLE PO
ঔ	U+1CABE SHAALDAA SYLLABLE PAA
ঔ	U+1CABF SHAALDAA SYLLABLE PUU
ঔ	U+1CAC0 SHAALDAA SYLLABLE PII
ঔ	U+1CAC1 SHAALDAA SYLLABLE PEE
ঔ	U+1CAC2 SHAALDAA SYLLABLE POO
ঔ	U+1CAC3 SHAALDAA SYLLABLE P
ঔ	U+1CAC4 SHAALDAA SYLLABLE PP BASE
ঔ	U+1CAC5 SHAALDAA SYLLABLE PPA
ঔ	U+1CAC6 SHAALDAA SYLLABLE PPU
ঔ	U+1CAC7 SHAALDAA SYLLABLE PPI
ঔ	U+1CAC8 SHAALDAA SYLLABLE PPE
ঔ	U+1CAC9 SHAALDAA SYLLABLE PPO

ଶା	U+1CACA SHAALDAA SYLLABLE PPAA
ଶାବ	U+1CACB SHAALDAA SYLLABLE PPUU
ଶାର୍ତ୍ତ	U+1CACC SHAALDAA SYLLABLE PPII
ଶାର୍ତ୍ତ୍ତ	U+1CACD SHAALDAA SYLLABLE PPEE
ଶାର୍ତ୍ତ୍ତ୍ତ	U+1CACE SHAALDAA SYLLABLE PPOO
ଶାର୍ତ୍ତ୍ତ୍ତ୍	U+1CACF SHAALDAA SYLLABLE PP
ଶାବୁ	U+1CAD0 SHAALDAA SYLLABLE V BASE
ଶାବୁ	U+1CAD1 SHAALDAA SYLLABLE VA
ଶାବୁ	U+1CAD2 SHAALDAA SYLLABLE VU
ଶାବୁ	U+1CAD3 SHAALDAA SYLLABLE VI
ଶାବୁ	U+1CAD4 SHAALDAA SYLLABLE VE
ଶାବୁ	U+1CAD5 SHAALDAA SYLLABLE VO
ଶାବୁ	U+1CAD6 SHAALDAA SYLLABLE VAA
ଶାବୁ	U+1CAD7 SHAALDAA SYLLABLE VUU
ଶାବୁ	U+1CAD8 SHAALDAA SYLLABLE VII
ଶାବୁ	U+1CAD9 SHAALDAA SYLLABLE VEE
ଶାବୁ	U+1CADA SHAALDAA SYLLABLE VOO
ଶାବୁ	U+1CADB SHAALDAA SYLLABLE V
ଶାବୁ	U+1CADC SHAALDAA SYLLABLE VV BASE
ଶାବୁ	U+1CADD SHAALDAA SYLLABLE VVA
ଶାବୁ	U+1CADE SHAALDAA SYLLABLE VVU
ଶାବୁ	U+1CADF SHAALDAA SYLLABLE VVI
ଶାବୁ	U+1CAE0 SHAALDAA SYLLABLE VVE
ଶାବୁ	U+1CAE1 SHAALDAA SYLLABLE VVO
ଶାବୁ	U+1CAE2 SHAALDAA SYLLABLE VVAA
ଶାବୁ	U+1CAE3 SHAALDAA SYLLABLE VVUU
ଶାବୁ	U+1CAE4 SHAALDAA SYLLABLE VVII
ଶାବୁ	U+1CAE5 SHAALDAA SYLLABLE VVEE
ଶାବୁ	U+1CAE6 SHAALDAA SYLLABLE VVOO
ଶାବୁ	U+1CAE7 SHAALDAA SYLLABLE VV
ଶାବୁ	U+1CAE8 SHAALDAA SYLLABLE ZH BASE
ଶାବୁ	U+1CAE9 SHAALDAA SYLLABLE ZHA
ଶାବୁ	U+1CAEA SHAALDAA SYLLABLE ZHU
ଶାବୁ	U+1CAEB SHAALDAA SYLLABLE ZHI
ଶାବୁ	U+1CAEC SHAALDAA SYLLABLE ZHE
ଶାବୁ	U+1CAED SHAALDAA SYLLABLE ZHO
ଶାବୁ	U+1CAEE SHAALDAA SYLLABLE ZHAA
ଶାବୁ	U+1CAEF SHAALDAA SYLLABLE ZHUU
ଶାବୁ	U+1CAFO SHAALDAA SYLLABLE ZHII

Ѐ	U+1CAF1 SHAALDAA SYLLABLE ZHEE
Ӧ	U+1CAF2 SHAALDAA SYLLABLE ZHOO
Ӧ	U+1CAF3 SHAALDAA SYLLABLE ZH
Ӧ	U+1CAF4 SHAALDAA SYLLABLE ZZH BASE
Ӧ	U+1CAF5 SHAALDAA SYLLABLE ZZHA
Ӧ	U+1CAF6 SHAALDAA SYLLABLE ZZHU
Ӧ	U+1CAF7 SHAALDAA SYLLABLE ZZHI
Ӧ	U+1CAF8 SHAALDAA SYLLABLE ZZHE
Ӧ	U+1CAF9 SHAALDAA SYLLABLE ZZHO
Ӧ	U+1CAFA SHAALDAA SYLLABLE ZZHAA
Ӧ	U+1CAF8 SHAALDAA SYLLABLE ZZHUU
Ӧ	U+1CAF9 SHAALDAA SYLLABLE ZZHII
Ӧ	U+1CAF0 SHAALDAA SYLLABLE ZZHEE
Ӧ	U+1CAFE SHAALDAA SYLLABLE ZZHOO
Ӧ	U+1CAFF SHAALDAA SYLLABLE ZZH
Ӧ	U+1CB00 SHAALDAA SYLLABLE TS BASE
Ӧ	U+1CB01 SHAALDAA SYLLABLE TSA
Ӧ	U+1CB02 SHAALDAA SYLLABLE TSU
Ӧ	U+1CB03 SHAALDAA SYLLABLE TSI
Ӧ	U+1CB04 SHAALDAA SYLLABLE TSE
Ӧ	U+1CB05 SHAALDAA SYLLABLE TSO
Ӧ	U+1CB06 SHAALDAA SYLLABLE TSAA
Ӧ	U+1CB07 SHAALDAA SYLLABLE TSUU
Ӧ	U+1CB08 SHAALDAA SYLLABLE TSII
Ӧ	U+1CB09 SHAALDAA SYLLABLE TSEE
Ӧ	U+1CB0A SHAALDAA SYLLABLE TSOO
Ӧ	U+1CB0B SHAALDAA SYLLABLE TS
Ӧ	U+1CB0C SHAALDAA SYLLABLE TTS BASE
Ӧ	U+1CB0D SHAALDAA SYLLABLE TTSA
Ӧ	U+1CB0E SHAALDAA SYLLABLE TTSU
Ӧ	U+1CB0F SHAALDAA SYLLABLE TTSI
Ӧ	U+1CB10 SHAALDAA SYLLABLE TTSE
Ӧ	U+1CB11 SHAALDAA SYLLABLE TTSO
Ӧ	U+1CB12 SHAALDAA SYLLABLE TTSAA
Ӧ	U+1CB13 SHAALDAA SYLLABLE TTSUU
Ӧ	U+1CB14 SHAALDAA SYLLABLE TTSII
Ӧ	U+1CB15 SHAALDAA SYLLABLE TTSEE
Ӧ	U+1CB16 SHAALDAA SYLLABLE TTSOO
Ӧ	U+1CB17 SHAALDAA SYLLABLE TTS

፦	U+1CB20 SHAALDAA SMR ZERO
፪	U+1CB21 SHAALDAA DIGIT ONE
፫	U+1CB22 SHAALDAA DIGIT TWO
፬	U+1CB23 SHAALDAA DIGIT THREE
፭	U+1CB24 SHAALDAA DIGIT FOUR
፮	U+1CB25 SHAALDAA DIGIT FIVE
፯	U+1CB26 SHAALDAA DIGIT SIX
፱	U+1CB27 SHAALDAA DIGIT SEVEN
፲	U+1CB28 SHAALDAA DIGIT EIGHT
፳	U+1CB29 SHAALDAA DIGIT NINE
፡	U+1CB2A SHAALDAA WORDSPACE
፻	U+1CB2B SHAALDAA FULL STOP

Table 2. The Shaaldaa Orthography

Additional information on characters

Phonetic value

The authors have already provided IPA values in Table 1 in Section III above. Therefore, here the authors will provide additional clarifying information for the phonemes associated with certain graphemes.

፩ (/h/) (and its vocalized, pure consonant, and geminated counterparts) is reserved for words of Arabic origin, representing the Arabic letter <ح>.

፪ (/s/) and ፲ (/s/), and their counterparts, are perceived the same in Oromo. Hayward and Hassen (1981; pages 561-562 of Reference 1, Section VII) state:

“Another matter that appears to challenge the phonemic ideal is the fact that there are two symbols each for h and s, though all competent linguistic descriptions are fairly unanimous in according the language only on h (laryngeal fricative) phoneme and one s (alveolar sibilant) phoneme. The matrices of Figs. 2–4, as well as the accompanying illustrative sentences, are unhelpful in this case, for h¹ and h² are used in what appears to be a quite unprincipled way. When, however, we examine Shaykh Bakri’s own use of h¹ and h² (at least in the MS of the letter shown in plate I) we discover that h¹ is employed consistently to represent the laryngeal fricative, while h² is used only to represent a voiceless pharyngeal fricative. The latter occurs, of course, only in words borrowed from Arabic, as, for example, in the proper names Hāmid, Ahmad and Fārah, all of which appear in line 3 of the letter. It seems then that it was Shaykh Bakri’s intention to maintain the Arabic distinction in written Oromo, though it seems odd that h² appears in the main matrix of symbols, rather than with the separate list of symbols provided for the representation of other non-Oromo sounds (see below [Table 4 in this proposal]). Why there are two symbols for s, however, is not at all clear. In Matrix 2 (shown in Fig. 2) the Ethiopic equivalents of s¹ and s² are given as እ and ወ respectively. From a strictly linguistic viewpoint there is even less need for two s’s in Oromo than there is in Modern Amharic, for the latter does at least have etymological justification for this graphic redundancy. Within the limited corpus at our disposal s² appears only twice, and both of these occurrences are in abbreviations which appear in line 1 of Shaykh Bakri’s letter. Unfortunately, these shed little light on the significance of s², since we are at present quite unable to say what these abbreviations stand for. The only thing that does seem clear is that s², like its Amharic counterpart ወ, is, in some sense, a ‘special’ letter.”

፲ (and all its counterparts) is phonetically /x/, which is an allophone of /k/. Hayward and Hassen (1981; page 561 of Reference 1, Section VII) state:

“It is clear from a study of Eastern Oromo that /k/ and /x/ are really realizations of the same phoneme. In long intervocalic occurrences or when following a liquid or nasal we find only /k/, while in short intervocalic occurrences we usually find /x/. Word-initially, however, the two sounds are in variation. This variation is witnessed rather nicely in the example sentences and phrases which illustrate the use of the orthography; see Fig. 5. In the second line we find the question [ወ.ግኝ.ቁ፡.ዚ.ቁ] **Maqānkē ēññū** ‘What is your name?’. It is written both in Shaykh Bakri’s orthography and in Ethiopic [ሙ.ቁ.ኩ.ከ፡.ሁ.ቁ]. Later on in the thirteenth line, we find the phrase [ዶ.ቃ.ኩ.ቁ.ወ] **obolēyan kē** ‘your brother’. In the first case the possessive [ቁ] **kē** is treated as an enclitic and since it then follows the nasal is spelled with [ቁ] **kX**, while in the second case it is not treated as an enclitic and is spelled with [ወ] **xX**. On the eighth line the first symbol of [ቁ.ቃ.ቁ] **katabān** ‘writing’ is [ቁ] **xII**, while the final word of the last line [ጀ.ቃ.ቁ] **Kabirā**, [a] ‘proper name’ has [ጀ] **kII** initially. A further indication that the /k/ : /x/ distinction is a subphonemic one appears in the spelling of [ወ.ወ] **bēke** ‘I know’ on line 4. In the Shaykh’s orthography the sound (/x/) is spelled with **xV**, but in Ethiopic with **h**. The fact that an attempt was made in this case to distinguish what are clearly only allophones may very well be explained as a hypersensitivity to phonetic distinctions brought about by Shaykh Bakri’s awareness of the phonemic contrast of **ك** : **څ** in Arabic.”

- Sheikh Bakri's use of Ethiopic ክ for /x/ parallels Harari, Tigrinya, Tigre, and the Gurage languages.

Joining information

There is no joining for any aspect of the script

Punctuation

Words are separated either with the script-specific word-separator, **։**. Sentences are ended with the script-specific full-stop, **߿**.

Numbers

Numbers 0-9 are represented with:

0 1 4 7 0 6 2 4 1 3

V Properties

All letters in this proposal are simple syllables with common property values (Letter Other, Left-to-Right, non-combining, and non-mirrored):

1C800;SHAALDAA VOWEL BASE;**Lo;0;L;;;;;N;;;;;**
1C801;SHAALDAA A;**Lo;0;L;;;;;N;;;;;**
1C802;SHAALDAA U;**Lo;0;L;;;;;N;;;;;**
1C803;SHAALDAA I;**Lo;0;L;;;;;N;;;;;**
1C804;SHAALDAA VOWEL E;**Lo;0;L;;;;;N;;;;;**
1C805;SHAALDAA O;**Lo;0;L;;;;;N;;;;;**
1C806;SHAALDAA AA;**Lo;0;L;;;;;N;;;;;**
1C807;SHAALDAA UU;**Lo;0;L;;;;;N;;;;;**
1C808;SHAALDAA II;**Lo;0;L;;;;;N;;;;;**
1C809;SHAALDAA EE;**Lo;0;L;;;;;N;;;;;**
1C80A;SHAALDAA OO;**Lo;0;L;;;;;N;;;;;**
1C80B;SHAALDAA GLOTTAL STOP;**Lo;0;L;;;;;N;;;;;**
1C80C;SHAALDAA SECONDARY BASE;**Lo;0;L;;;;;N;;;;;**
1C80D;SHAALDAA SFCONDARY A;**Lo;0;L;;;;;N;;;;;**

1C80E;SHAALDAA	SECONDARY	U;Lo;0;L;;;;;N;;;;;
1C80F;SHAALDAA	SECONDARY	I;Lo;0;L;;;;;N;;;;;
1C810;SHAALDAA	SECONDARY	E;Lo;0;L;;;;;N;;;;;
1C811;SHAALDAA	SECONDARY	O;Lo;0;L;;;;;N;;;;;
1C812;SHAALDAA	SECONDARY	AA;Lo;0;L;;;;;N;;;;;
1C813;SHAALDAA	SECONDARY	UU;Lo;0;L;;;;;N;;;;;
1C814;SHAALDAA	SECONDARY	II;Lo;0;L;;;;;N;;;;;
1C815;SHAALDAA	SECONDARY	EE;Lo;0;L;;;;;N;;;;;
1C816;SHAALDAA	SECONDARY	OO;Lo;0;L;;;;;N;;;;;
1C817;SHAALDAA	SECONDARY	GLOTTAL STOP;Lo;0;L;;;;;N;;;;;
1C818;SHAALDAA	SYLLABLE	B BASE;Lo;0;L;;;;;N;;;;;
1C819;SHAALDAA	SYLLABLE	BA;Lo;0;L;;;;;N;;;;;
1C81A;SHAALDAA	SYLLABLE	BU;Lo;0;L;;;;;N;;;;;
1C81B;SHAALDAA	SYLLABLE	BI;Lo;0;L;;;;;N;;;;;
1C81C;SHAALDAA	SYLLABLE	BE;Lo;0;L;;;;;N;;;;;
1C81D;SHAALDAA	SYLLABLE	BO;Lo;0;L;;;;;N;;;;;
1C81E;SHAALDAA	SYLLABLE	BAA;Lo;0;L;;;;;N;;;;;
1C81F;SHAALDAA	SYLLABLE	BUU;Lo;0;L;;;;;N;;;;;
1C820;SHAALDAA	SYLLABLE	BII;Lo;0;L;;;;;N;;;;;
1C821;SHAALDAA	SYLLABLE	BEE;Lo;0;L;;;;;N;;;;;
1C822;SHAALDAA	SYLLABLE	BOO;Lo;0;L;;;;;N;;;;;
1C823;SHAALDAA	SYLLABLE	B;Lo;0;L;;;;;N;;;;;
1C824;SHAALDAA	SYLLABLE	BB BASE;Lo;0;L;;;;;N;;;;;
1C825;SHAALDAA	SYLLABLE	BBA;Lo;0;L;;;;;N;;;;;
1C826;SHAALDAA	SYLLABLE	BBU;Lo;0;L;;;;;N;;;;;
1C827;SHAALDAA	SYLLABLE	BBI;Lo;0;L;;;;;N;;;;;
1C828;SHAALDAA	SYLLABLE	BBE;Lo;0;L;;;;;N;;;;;
1C829;SHAALDAA	SYLLABLE	BBO;Lo;0;L;;;;;N;;;;;
1C82A;SHAALDAA	SYLLABLE	BBAA;Lo;0;L;;;;;N;;;;;
1C82B;SHAALDAA	SYLLABLE	BBUU;Lo;0;L;;;;;N;;;;;
1C82C;SHAALDAA	SYLLABLE	BBII;Lo;0;L;;;;;N;;;;;
1C82D;SHAALDAA	SYLLABLE	BBEE;Lo;0;L;;;;;N;;;;;
1C82E;SHAALDAA	SYLLABLE	BBOO;Lo;0;L;;;;;N;;;;;
1C82F;SHAALDAA	SYLLABLE	BB;Lo;0;L;;;;;N;;;;;
1C830;SHAALDAA	SYLLABLE	J BASE;Lo;0;L;;;;;N;;;;;
1C831;SHAALDAA	SYLLABLE	JA;Lo;0;L;;;;;N;;;;;
1C832;SHAALDAA	SYLLABLE	JU;Lo;0;L;;;;;N;;;;;
1C833;SHAALDAA	SYLLABLE	JI;Lo;0;L;;;;;N;;;;;
1C834;SHAALDAA	SYLLABLE	JE;Lo;0;L;;;;;N;;;;;
1C835;SHAALDAA	SYLLABLE	JO;Lo;0;L;;;;;N;;;;;
1C836;SHAALDAA	SYLLABLE	JAA;Lo;0;L;;;;;N;;;;;
1C837;SHAALDAA	SYLLABLE	JUU;Lo;0;L;;;;;N;;;;;
1C838;SHAALDAA	SYLLABLE	JII;Lo;0;L;;;;;N;;;;;
1C839;SHAALDAA	SYLLABLE	JEE;Lo;0;L;;;;;N;;;;;
1C83A;SHAALDAA	SYLLABLE	JOO;Lo;0;L;;;;;N;;;;;
1C83B;SHAALDAA	SYLLABLE	J;Lo;0;L;;;;;N;;;;;
1C83C;SHAALDAA	SYLLABLE	JJ BASE;Lo;0;L;;;;;N;;;;;
1C83D;SHAALDAA	SYLLABLE	JJA;Lo;0;L;;;;;N;;;;;
1C83E;SHAALDAA	SYLLABLE	JJU;Lo;0;L;;;;;N;;;;;
1C83F;SHAALDAA	SYLLABLE	JJI;Lo;0;L;;;;;N;;;;;
1C840;SHAALDAA	SYLLABLE	JJE;Lo;0;L;;;;;N;;;;;
1C841;SHAALDAA	SYLLABLE	JJO;Lo;0;L;;;;;N;;;;;

1C842;SHAALDAA SYLLABLE JJAA;Lo;0;L;;;;;N;;;;;
1C843;SHAALDAA SYLLABLE JJUU;Lo;0;L;;;;;N;;;;;
1C844;SHAALDAA SYLLABLE JJII;Lo;0;L;;;;;N;;;;;
1C845;SHAALDAA SYLLABLE JJEE;Lo;0;L;;;;;N;;;;;
1C846;SHAALDAA SYLLABLE JJOO;Lo;0;L;;;;;N;;;;;
1C847;SHAALDAA SYLLABLE JJ;Lo;0;L;;;;;N;;;;;
1C848;SHAALDAA SYLLABLE D BASE;Lo;0;L;;;;;N;;;;;
1C849;SHAALDAA SYLLABLE DA;Lo;0;L;;;;;N;;;;;
1C84A;SHAALDAA SYLLABLE DU;Lo;0;L;;;;;N;;;;;
1C84B;SHAALDAA SYLLABLE DI;Lo;0;L;;;;;N;;;;;
1C84C;SHAALDAA SYLLABLE DE;Lo;0;L;;;;;N;;;;;
1C84D;SHAALDAA SYLLABLE DO;Lo;0;L;;;;;N;;;;;
1C84E;SHAALDAA SYLLABLE DAA;Lo;0;L;;;;;N;;;;;
1C84F;SHAALDAA SYLLABLE DUU;Lo;0;L;;;;;N;;;;;
1C850;SHAALDAA SYLLABLE DII;Lo;0;L;;;;;N;;;;;
1C851;SHAALDAA SYLLABLE DEE;Lo;0;L;;;;;N;;;;;
1C852;SHAALDAA SYLLABLE DOO;Lo;0;L;;;;;N;;;;;
1C853;SHAALDAA SYLLABLE D;Lo;0;L;;;;;N;;;;;
1C854;SHAALDAA SYLLABLE DD BASE;Lo;0;L;;;;;N;;;;;
1C855;SHAALDAA SYLLABLE DDA;Lo;0;L;;;;;N;;;;;
1C856;SHAALDAA SYLLABLE DDU;Lo;0;L;;;;;N;;;;;
1C857;SHAALDAA SYLLABLE DDI;Lo;0;L;;;;;N;;;;;
1C858;SHAALDAA SYLLABLE DDE;Lo;0;L;;;;;N;;;;;
1C859;SHAALDAA SYLLABLE DDO;Lo;0;L;;;;;N;;;;;
1C85A;SHAALDAA SYLLABLE DDAA;Lo;0;L;;;;;N;;;;;
1C85B;SHAALDAA SYLLABLE DDUU;Lo;0;L;;;;;N;;;;;
1C85C;SHAALDAA SYLLABLE DDII;Lo;0;L;;;;;N;;;;;
1C85D;SHAALDAA SYLLABLE DDEE;Lo;0;L;;;;;N;;;;;
1C85E;SHAALDAA SYLLABLE DDOO;Lo;0;L;;;;;N;;;;;
1C85F;SHAALDAA SYLLABLE DD;Lo;0;L;;;;;N;;;;;
1C860;SHAALDAA SYLLABLE H BASE;Lo;0;L;;;;;N;;;;;
1C861;SHAALDAA SYLLABLE HA;Lo;0;L;;;;;N;;;;;
1C862;SHAALDAA SYLLABLE HU;Lo;0;L;;;;;N;;;;;
1C863;SHAALDAA SYLLABLE HI;Lo;0;L;;;;;N;;;;;
1C864;SHAALDAA SYLLABLE HE;Lo;0;L;;;;;N;;;;;
1C865;SHAALDAA SYLLABLE HO;Lo;0;L;;;;;N;;;;;
1C866;SHAALDAA SYLLABLE HAA;Lo;0;L;;;;;N;;;;;
1C867;SHAALDAA SYLLABLE HUU;Lo;0;L;;;;;N;;;;;
1C868;SHAALDAA SYLLABLE HII;Lo;0;L;;;;;N;;;;;
1C869;SHAALDAA SYLLABLE HEE;Lo;0;L;;;;;N;;;;;
1C86A;SHAALDAA SYLLABLE HOO;Lo;0;L;;;;;N;;;;;
1C86B;SHAALDAA SYLLABLE H;Lo;0;L;;;;;N;;;;;
1C86C;SHAALDAA SYLLABLE HH BASE;Lo;0;L;;;;;N;;;;;
1C86D;SHAALDAA SYLLABLE HHA;Lo;0;L;;;;;N;;;;;
1C86E;SHAALDAA SYLLABLE HHU;Lo;0;L;;;;;N;;;;;
1C86F;SHAALDAA SYLLABLE HHI;Lo;0;L;;;;;N;;;;;
1C870;SHAALDAA SYLLABLE HHE;Lo;0;L;;;;;N;;;;;
1C871;SHAALDAA SYLLABLE HHO;Lo;0;L;;;;;N;;;;;
1C872;SHAALDAA SYLLABLE HHAA;Lo;0;L;;;;;N;;;;;
1C873;SHAALDAA SYLLABLE HHUU;Lo;0;L;;;;;N;;;;;
1C874;SHAALDAA SYLLABLE HHII;Lo;0;L;;;;;N;;;;;
1C875;SHAALDAA SYLLABLE HHEE;Lo;0;L;;;;;N;;;;;

1C876;SHAALDAA SYLLABLE HHOO;Lo;0;L;;;;;N;;;;;
1C877;SHAALDAA SYLLABLE HH;Lo;0;L;;;;;N;;;;;
1C878;SHAALDAA SYLLABLE W BASE;Lo;0;L;;;;;N;;;;;
1C879;SHAALDAA SYLLABLE WA;Lo;0;L;;;;;N;;;;;
1C87A;SHAALDAA SYLLABLE WU;Lo;0;L;;;;;N;;;;;
1C87B;SHAALDAA SYLLABLE WI;Lo;0;L;;;;;N;;;;;
1C87C;SHAALDAA SYLLABLE WE;Lo;0;L;;;;;N;;;;;
1C87D;SHAALDAA SYLLABLE WO;Lo;0;L;;;;;N;;;;;
1C87E;SHAALDAA SYLLABLE WAA;Lo;0;L;;;;;N;;;;;
1C87F;SHAALDAA SYLLABLE WUU;Lo;0;L;;;;;N;;;;;
1C880;SHAALDAA SYLLABLE WII;Lo;0;L;;;;;N;;;;;
1C881;SHAALDAA SYLLABLE WEE;Lo;0;L;;;;;N;;;;;
1C882;SHAALDAA SYLLABLE WOO;Lo;0;L;;;;;N;;;;;
1C883;SHAALDAA SYLLABLE W;Lo;0;L;;;;;N;;;;;
1C884;SHAALDAA SYLLABLE WW BASE;Lo;0;L;;;;;N;;;;;
1C885;SHAALDAA SYLLABLE WWA;Lo;0;L;;;;;N;;;;;
1C886;SHAALDAA SYLLABLE WWU;Lo;0;L;;;;;N;;;;;
1C887;SHAALDAA SYLLABLE WWI;Lo;0;L;;;;;N;;;;;
1C888;SHAALDAA SYLLABLE WWE;Lo;0;L;;;;;N;;;;;
1C889;SHAALDAA SYLLABLE WWO;Lo;0;L;;;;;N;;;;;
1C88A;SHAALDAA SYLLABLE WWAA;Lo;0;L;;;;;N;;;;;
1C88B;SHAALDAA SYLLABLE WWUU;Lo;0;L;;;;;N;;;;;
1C88C;SHAALDAA SYLLABLE WWII;Lo;0;L;;;;;N;;;;;
1C88D;SHAALDAA SYLLABLE WWEE;Lo;0;L;;;;;N;;;;;
1C88E;SHAALDAA SYLLABLE WWO;Lo;0;L;;;;;N;;;;;
1C88F;SHAALDAA SYLLABLE WW;Lo;0;L;;;;;N;;;;;
1C890;SHAALDAA SYLLABLE Z BASE;Lo;0;L;;;;;N;;;;;
1C891;SHAALDAA SYLLABLE ZA;Lo;0;L;;;;;N;;;;;
1C892;SHAALDAA SYLLABLE ZU;Lo;0;L;;;;;N;;;;;
1C893;SHAALDAA SYLLABLE ZI;Lo;0;L;;;;;N;;;;;
1C894;SHAALDAA SYLLABLE ZE;Lo;0;L;;;;;N;;;;;
1C895;SHAALDAA SYLLABLE ZO;Lo;0;L;;;;;N;;;;;
1C896;SHAALDAA SYLLABLE ZAA;Lo;0;L;;;;;N;;;;;
1C897;SHAALDAA SYLLABLE ZUU;Lo;0;L;;;;;N;;;;;
1C898;SHAALDAA SYLLABLE ZII;Lo;0;L;;;;;N;;;;;
1C899;SHAALDAA SYLLABLE ZEE;Lo;0;L;;;;;N;;;;;
1C89A;SHAALDAA SYLLABLE ZOO;Lo;0;L;;;;;N;;;;;
1C89B;SHAALDAA SYLLABLE Z;Lo;0;L;;;;;N;;;;;
1C89C;SHAALDAA SYLLABLE ZZ BASE;Lo;0;L;;;;;N;;;;;
1C89D;SHAALDAA SYLLABLE ZZA;Lo;0;L;;;;;N;;;;;
1C89E;SHAALDAA SYLLABLE ZZU;Lo;0;L;;;;;N;;;;;
1C89F;SHAALDAA SYLLABLE ZZI;Lo;0;L;;;;;N;;;;;
1C8A0;SHAALDAA SYLLABLE ZZE;Lo;0;L;;;;;N;;;;;
1C8A1;SHAALDAA SYLLABLE ZZO;Lo;0;L;;;;;N;;;;;
1C8A2;SHAALDAA SYLLABLE ZZAA;Lo;0;L;;;;;N;;;;;
1C8A3;SHAALDAA SYLLABLE ZZUU;Lo;0;L;;;;;N;;;;;
1C8A4;SHAALDAA SYLLABLE ZZII;Lo;0;L;;;;;N;;;;;
1C8A5;SHAALDAA SYLLABLE ZZEE;Lo;0;L;;;;;N;;;;;
1C8A6;SHAALDAA SYLLABLE ZZOO;Lo;0;L;;;;;N;;;;;
1C8A7;SHAALDAA SYLLABLE ZZ;Lo;0;L;;;;;N;;;;;
1C8A8;SHAALDAA SYLLABLE HX BASE;Lo;0;L;;;;;N;;;;;
1C8A9;SHAALDAA SYLLABLE HXA;Lo;0;L;;;;;N;;;;;

1C8AA;SHAALDAA SYLLABLE	HXU;Lo;0;L;;;;;N;;;;;
1C8AB;SHAALDAA SYLLABLE	HXI;Lo;0;L;;;;;N;;;;;
1C8AC;SHAALDAA SYLLABLE	HXE;Lo;0;L;;;;;N;;;;;
1C8AD;SHAALDAA SYLLABLE	HXO;Lo;0;L;;;;;N;;;;;
1C8AE;SHAALDAA SYLLABLE	HXAA;Lo;0;L;;;;;N;;;;;
1C8AF;SHAALDAA SYLLABLE	HXUU;Lo;0;L;;;;;N;;;;;
1C8B0;SHAALDAA SYLLABLE	HXII;Lo;0;L;;;;;N;;;;;
1C8B1;SHAALDAA SYLLABLE	HXEE;Lo;0;L;;;;;N;;;;;
1C8B2;SHAALDAA SYLLABLE	HXOO;Lo;0;L;;;;;N;;;;;
1C8B3;SHAALDAA SYLLABLE	HX;Lo;0;L;;;;;N;;;;;
1C8B4;SHAALDAA SYLLABLE	HHX BASE;Lo;0;L;;;;;N;;;;;
1C8B5;SHAALDAA SYLLABLE	HHXA;Lo;0;L;;;;;N;;;;;
1C8B6;SHAALDAA SYLLABLE	HHXU;Lo;0;L;;;;;N;;;;;
1C8B7;SHAALDAA SYLLABLE	HHXI;Lo;0;L;;;;;N;;;;;
1C8B8;SHAALDAA SYLLABLE	HHXE;Lo;0;L;;;;;N;;;;;
1C8B9;SHAALDAA SYLLABLE	HHXO;Lo;0;L;;;;;N;;;;;
1C8BA;SHAALDAA SYLLABLE	HHXAA;Lo;0;L;;;;;N;;;;;
1C8BB;SHAALDAA SYLLABLE	HHXUU;Lo;0;L;;;;;N;;;;;
1C8BC;SHAALDAA SYLLABLE	HHXII;Lo;0;L;;;;;N;;;;;
1C8BD;SHAALDAA SYLLABLE	HHXEE;Lo;0;L;;;;;N;;;;;
1C8BE;SHAALDAA SYLLABLE	HHXOO;Lo;0;L;;;;;N;;;;;
1C8BF;SHAALDAA SYLLABLE	HHX;Lo;0;L;;;;;N;;;;;
1C8C0;SHAALDAA SYLLABLE	X BASE;Lo;0;L;;;;;N;;;;;
1C8C1;SHAALDAA SYLLABLE	XA;Lo;0;L;;;;;N;;;;;
1C8C2;SHAALDAA SYLLABLE	XU;Lo;0;L;;;;;N;;;;;
1C8C3;SHAALDAA SYLLABLE	XI;Lo;0;L;;;;;N;;;;;
1C8C4;SHAALDAA SYLLABLE	XE;Lo;0;L;;;;;N;;;;;
1C8C5;SHAALDAA SYLLABLE	XO;Lo;0;L;;;;;N;;;;;
1C8C6;SHAALDAA SYLLABLE	XAA;Lo;0;L;;;;;N;;;;;
1C8C7;SHAALDAA SYLLABLE	XUU;Lo;0;L;;;;;N;;;;;
1C8C8;SHAALDAA SYLLABLE	XII;Lo;0;L;;;;;N;;;;;
1C8C9;SHAALDAA SYLLABLE	XEE;Lo;0;L;;;;;N;;;;;
1C8CA;SHAALDAA SYLLABLE	XOO;Lo;0;L;;;;;N;;;;;
1C8CB;SHAALDAA SYLLABLE	X;Lo;0;L;;;;;N;;;;;
1C8CC;SHAALDAA SYLLABLE	XX BASE;Lo;0;L;;;;;N;;;;;
1C8CD;SHAALDAA SYLLABLE	XXA;Lo;0;L;;;;;N;;;;;
1C8CE;SHAALDAA SYLLABLE	XXU;Lo;0;L;;;;;N;;;;;
1C8CF;SHAALDAA SYLLABLE	XXI;Lo;0;L;;;;;N;;;;;
1C8D0;SHAALDAA SYLLABLE	XXE;Lo;0;L;;;;;N;;;;;
1C8D1;SHAALDAA SYLLABLE	XXO;Lo;0;L;;;;;N;;;;;
1C8D2;SHAALDAA SYLLABLE	XXAA;Lo;0;L;;;;;N;;;;;
1C8D3;SHAALDAA SYLLABLE	XXUU;Lo;0;L;;;;;N;;;;;
1C8D4;SHAALDAA SYLLABLE	XXII;Lo;0;L;;;;;N;;;;;
1C8D5;SHAALDAA SYLLABLE	XXEE;Lo;0;L;;;;;N;;;;;
1C8D6;SHAALDAA SYLLABLE	XXOO;Lo;0;L;;;;;N;;;;;
1C8D7;SHAALDAA SYLLABLE	XX;Lo;0;L;;;;;N;;;;;
1C8D8;SHAALDAA SYLLABLE	Y BASE;Lo;0;L;;;;;N;;;;;
1C8D9;SHAALDAA SYLLABLE	YA;Lo;0;L;;;;;N;;;;;
1C8DA;SHAALDAA SYLLABLE	YU;Lo;0;L;;;;;N;;;;;
1C8DB;SHAALDAA SYLLABLE	YI;Lo;0;L;;;;;N;;;;;
1C8DC;SHAALDAA SYLLABLE	YE;Lo;0;L;;;;;N;;;;;
1C8DD;SHAALDAA SYLLABLE	YO;Lo;0;L;;;;;N;;;;;

1C8DE;SHAALDAA SYLLABLE YAA;Lo;0;L;;;;;N;;;;;
1C8DF;SHAALDAA SYLLABLE YUU;Lo;0;L;;;;;N;;;;;
1C8E0;SHAALDAA SYLLABLE YII;Lo;0;L;;;;;N;;;;;
1C8E1;SHAALDAA SYLLABLE YEE;Lo;0;L;;;;;N;;;;;
1C8E2;SHAALDAA SYLLABLE YOO;Lo;0;L;;;;;N;;;;;
1C8E3;SHAALDAA SYLLABLE Y;Lo;0;L;;;;;N;;;;;
1C8E4;SHAALDAA SYLLABLE YY BASE;Lo;0;L;;;;;N;;;;;
1C8E5;SHAALDAA SYLLABLE YYA;Lo;0;L;;;;;N;;;;;
1C8E6;SHAALDAA SYLLABLE YYU;Lo;0;L;;;;;N;;;;;
1C8E7;SHAALDAA SYLLABLE YYI;Lo;0;L;;;;;N;;;;;
1C8E8;SHAALDAA SYLLABLE YYE;Lo;0;L;;;;;N;;;;;
1C8E9;SHAALDAA SYLLABLE YYO;Lo;0;L;;;;;N;;;;;
1C8EA;SHAALDAA SYLLABLE YYAA;Lo;0;L;;;;;N;;;;;
1C8EB;SHAALDAA SYLLABLE YYUU;Lo;0;L;;;;;N;;;;;
1C8EC;SHAALDAA SYLLABLE YYII;Lo;0;L;;;;;N;;;;;
1C8ED;SHAALDAA SYLLABLE YYEE;Lo;0;L;;;;;N;;;;;
1C8EE;SHAALDAA SYLLABLE YYOO;Lo;0;L;;;;;N;;;;;
1C8EF;SHAALDAA SYLLABLE YY;Lo;0;L;;;;;N;;;;;
1C8F0;SHAALDAA SYLLABLE K BASE;Lo;0;L;;;;;N;;;;;
1C8F1;SHAALDAA SYLLABLE KA;Lo;0;L;;;;;N;;;;;
1C8F2;SHAALDAA SYLLABLE KU;Lo;0;L;;;;;N;;;;;
1C8F3;SHAALDAA SYLLABLE KI;Lo;0;L;;;;;N;;;;;
1C8F4;SHAALDAA SYLLABLE KE;Lo;0;L;;;;;N;;;;;
1C8F5;SHAALDAA SYLLABLE KO;Lo;0;L;;;;;N;;;;;
1C8F6;SHAALDAA SYLLABLE KAA;Lo;0;L;;;;;N;;;;;
1C8F7;SHAALDAA SYLLABLE KUU;Lo;0;L;;;;;N;;;;;
1C8F8;SHAALDAA SYLLABLE KII;Lo;0;L;;;;;N;;;;;
1C8F9;SHAALDAA SYLLABLE KEE;Lo;0;L;;;;;N;;;;;
1C8FA;SHAALDAA SYLLABLE KOO;Lo;0;L;;;;;N;;;;;
1C8FB;SHAALDAA SYLLABLE K;Lo;0;L;;;;;N;;;;;
1C8FC;SHAALDAA SYLLABLE KK BASE;Lo;0;L;;;;;N;;;;;
1C8FD;SHAALDAA SYLLABLE KKA;Lo;0;L;;;;;N;;;;;
1C8FE;SHAALDAA SYLLABLE KKU;Lo;0;L;;;;;N;;;;;
1C8FF;SHAALDAA SYLLABLE KKI;Lo;0;L;;;;;N;;;;;
1C900;SHAALDAA SYLLABLE KKE;Lo;0;L;;;;;N;;;;;
1C901;SHAALDAA SYLLABLE KKO;Lo;0;L;;;;;N;;;;;
1C902;SHAALDAA SYLLABLE KKAA;Lo;0;L;;;;;N;;;;;
1C903;SHAALDAA SYLLABLE KKUU;Lo;0;L;;;;;N;;;;;
1C904;SHAALDAA SYLLABLE KKII;Lo;0;L;;;;;N;;;;;
1C905;SHAALDAA SYLLABLE KKEE;Lo;0;L;;;;;N;;;;;
1C906;SHAALDAA SYLLABLE KKOO;Lo;0;L;;;;;N;;;;;
1C907;SHAALDAA SYLLABLE KK;Lo;0;L;;;;;N;;;;;
1C908;SHAALDAA SYLLABLE L BASE;Lo;0;L;;;;;N;;;;;
1C909;SHAALDAA SYLLABLE LA;Lo;0;L;;;;;N;;;;;
1C90A;SHAALDAA SYLLABLE LU;Lo;0;L;;;;;N;;;;;
1C90B;SHAALDAA SYLLABLE LI;Lo;0;L;;;;;N;;;;;
1C90C;SHAALDAA SYLLABLE LE;Lo;0;L;;;;;N;;;;;
1C90D;SHAALDAA SYLLABLE LO;Lo;0;L;;;;;N;;;;;
1C90E;SHAALDAA SYLLABLE LAA;Lo;0;L;;;;;N;;;;;
1C90F;SHAALDAA SYLLABLE LUU;Lo;0;L;;;;;N;;;;;
1C910;SHAALDAA SYLLABLE LII;Lo;0;L;;;;;N;;;;;
1C911;SHAALDAA SYLLABLE LEE;Lo;0;L;;;;;N;;;;;

1C912;SHAALDAA SYLLABLE	LOO;Lo;0;L;;;;;N;;;;;
1C913;SHAALDAA SYLLABLE	L;Lo;0;L;;;;;N;;;;;
1C914;SHAALDAA SYLLABLE	LL BASE;Lo;0;L;;;;;N;;;;;
1C915;SHAALDAA SYLLABLE	LLA;Lo;0;L;;;;;N;;;;;
1C916;SHAALDAA SYLLABLE	LLU;Lo;0;L;;;;;N;;;;;
1C917;SHAALDAA SYLLABLE	LLI;Lo;0;L;;;;;N;;;;;
1C918;SHAALDAA SYLLABLE	LLE;Lo;0;L;;;;;N;;;;;
1C919;SHAALDAA SYLLABLE	LLO;Lo;0;L;;;;;N;;;;;
1C91A;SHAALDAA SYLLABLE	LLAA;Lo;0;L;;;;;N;;;;;
1C91B;SHAALDAA SYLLABLE	LLUU;Lo;0;L;;;;;N;;;;;
1C91C;SHAALDAA SYLLABLE	LLII;Lo;0;L;;;;;N;;;;;
1C91D;SHAALDAA SYLLABLE	LLEE;Lo;0;L;;;;;N;;;;;
1C91E;SHAALDAA SYLLABLE	LLOO;Lo;0;L;;;;;N;;;;;
1C91F;SHAALDAA SYLLABLE	LL;Lo;0;L;;;;;N;;;;;
1C920;SHAALDAA SYLLABLE	M BASE;Lo;0;L;;;;;N;;;;;
1C921;SHAALDAA SYLLABLE	MA;Lo;0;L;;;;;N;;;;;
1C922;SHAALDAA SYLLABLE	MU;Lo;0;L;;;;;N;;;;;
1C923;SHAALDAA SYLLABLE	MI;Lo;0;L;;;;;N;;;;;
1C924;SHAALDAA SYLLABLE	ME;Lo;0;L;;;;;N;;;;;
1C925;SHAALDAA SYLLABLE	MO;Lo;0;L;;;;;N;;;;;
1C926;SHAALDAA SYLLABLE	MAA;Lo;0;L;;;;;N;;;;;
1C927;SHAALDAA SYLLABLE	MUU;Lo;0;L;;;;;N;;;;;
1C928;SHAALDAA SYLLABLE	MII;Lo;0;L;;;;;N;;;;;
1C929;SHAALDAA SYLLABLE	MEE;Lo;0;L;;;;;N;;;;;
1C92A;SHAALDAA SYLLABLE	MOO;Lo;0;L;;;;;N;;;;;
1C92B;SHAALDAA SYLLABLE	M;Lo;0;L;;;;;N;;;;;
1C92C;SHAALDAA SYLLABLE	MM BASE;Lo;0;L;;;;;N;;;;;
1C92D;SHAALDAA SYLLABLE	MMA;Lo;0;L;;;;;N;;;;;
1C92E;SHAALDAA SYLLABLE	MMU;Lo;0;L;;;;;N;;;;;
1C92F;SHAALDAA SYLLABLE	MMI;Lo;0;L;;;;;N;;;;;
1C930;SHAALDAA SYLLABLE	MME;Lo;0;L;;;;;N;;;;;
1C931;SHAALDAA SYLLABLE	MMO;Lo;0;L;;;;;N;;;;;
1C932;SHAALDAA SYLLABLE	MMAA;Lo;0;L;;;;;N;;;;;
1C933;SHAALDAA SYLLABLE	MMUU;Lo;0;L;;;;;N;;;;;
1C934;SHAALDAA SYLLABLE	MMII;Lo;0;L;;;;;N;;;;;
1C935;SHAALDAA SYLLABLE	MMEE;Lo;0;L;;;;;N;;;;;
1C936;SHAALDAA SYLLABLE	MMOO;Lo;0;L;;;;;N;;;;;
1C937;SHAALDAA SYLLABLE	MM;Lo;0;L;;;;;N;;;;;
1C938;SHAALDAA SYLLABLE	N BASE;Lo;0;L;;;;;N;;;;;
1C939;SHAALDAA SYLLABLE	NA;Lo;0;L;;;;;N;;;;;
1C93A;SHAALDAA SYLLABLE	NU;Lo;0;L;;;;;N;;;;;
1C93B;SHAALDAA SYLLABLE	NI;Lo;0;L;;;;;N;;;;;
1C93C;SHAALDAA SYLLABLE	NE;Lo;0;L;;;;;N;;;;;
1C93D;SHAALDAA SYLLABLE	NO;Lo;0;L;;;;;N;;;;;
1C93E;SHAALDAA SYLLABLE	NAA;Lo;0;L;;;;;N;;;;;
1C93F;SHAALDAA SYLLABLE	NUU;Lo;0;L;;;;;N;;;;;
1C940;SHAALDAA SYLLABLE	NII;Lo;0;L;;;;;N;;;;;
1C941;SHAALDAA SYLLABLE	NEE;Lo;0;L;;;;;N;;;;;
1C942;SHAALDAA SYLLABLE	NOO;Lo;0;L;;;;;N;;;;;
1C943;SHAALDAA SYLLABLE	N;Lo;0;L;;;;;N;;;;;
1C944;SHAALDAA SYLLABLE	NN BASE;Lo;0;L;;;;;N;;;;;
1C945;SHAALDAA SYLLABLE	NNA;Lo;0;L;;;;;N;;;;;

1C946;SHAALDAA SYLLABLE NNU;Lo;0;L;;;;;N;;;;;
1C947;SHAALDAA SYLLABLE NNI;Lo;0;L;;;;;N;;;;;
1C948;SHAALDAA SYLLABLE NNE;Lo;0;L;;;;;N;;;;;
1C949;SHAALDAA SYLLABLE NNO;Lo;0;L;;;;;N;;;;;
1C94A;SHAALDAA SYLLABLE NNAA;Lo;0;L;;;;;N;;;;;
1C94B;SHAALDAA SYLLABLE NNUU;Lo;0;L;;;;;N;;;;;
1C94C;SHAALDAA SYLLABLE NNII;Lo;0;L;;;;;N;;;;;
1C94D;SHAALDAA SYLLABLE NNEE;Lo;0;L;;;;;N;;;;;
1C94E;SHAALDAA SYLLABLE NNOO;Lo;0;L;;;;;N;;;;;
1C94F;SHAALDAA SYLLABLE NN;Lo;0;L;;;;;N;;;;;
1C950;SHAALDAA SYLLABLE S BASE;Lo;0;L;;;;;N;;;;;
1C951;SHAALDAA SYLLABLE SA;Lo;0;L;;;;;N;;;;;
1C952;SHAALDAA SYLLABLE SU;Lo;0;L;;;;;N;;;;;
1C953;SHAALDAA SYLLABLE SI;Lo;0;L;;;;;N;;;;;
1C954;SHAALDAA SYLLABLE SE;Lo;0;L;;;;;N;;;;;
1C955;SHAALDAA SYLLABLE SO;Lo;0;L;;;;;N;;;;;
1C956;SHAALDAA SYLLABLE SAA;Lo;0;L;;;;;N;;;;;
1C957;SHAALDAA SYLLABLE SUU;Lo;0;L;;;;;N;;;;;
1C958;SHAALDAA SYLLABLE SII;Lo;0;L;;;;;N;;;;;
1C959;SHAALDAA SYLLABLE SEE;Lo;0;L;;;;;N;;;;;
1C95A;SHAALDAA SYLLABLE SOO;Lo;0;L;;;;;N;;;;;
1C95B;SHAALDAA SYLLABLE S;Lo;0;L;;;;;N;;;;;
1C95C;SHAALDAA SYLLABLE SS BASE;Lo;0;L;;;;;N;;;;;
1C95D;SHAALDAA SYLLABLE SSA;Lo;0;L;;;;;N;;;;;
1C95E;SHAALDAA SYLLABLE SSU;Lo;0;L;;;;;N;;;;;
1C95F;SHAALDAA SYLLABLE SSI;Lo;0;L;;;;;N;;;;;
1C960;SHAALDAA SYLLABLE SSE;Lo;0;L;;;;;N;;;;;
1C961;SHAALDAA SYLLABLE SSO;Lo;0;L;;;;;N;;;;;
1C962;SHAALDAA SYLLABLE SSAA;Lo;0;L;;;;;N;;;;;
1C963;SHAALDAA SYLLABLE SSUU;Lo;0;L;;;;;N;;;;;
1C964;SHAALDAA SYLLABLE SSII;Lo;0;L;;;;;N;;;;;
1C965;SHAALDAA SYLLABLE SSEE;Lo;0;L;;;;;N;;;;;
1C966;SHAALDAA SYLLABLE SSOO;Lo;0;L;;;;;N;;;;;
1C967;SHAALDAA SYLLABLE SS;Lo;0;L;;;;;N;;;;;
1C968;SHAALDAA SYLLABLE F BASE;Lo;0;L;;;;;N;;;;;
1C969;SHAALDAA SYLLABLE FA;Lo;0;L;;;;;N;;;;;
1C96A;SHAALDAA SYLLABLE FU;Lo;0;L;;;;;N;;;;;
1C96B;SHAALDAA SYLLABLE FI;Lo;0;L;;;;;N;;;;;
1C96C;SHAALDAA SYLLABLE FE;Lo;0;L;;;;;N;;;;;
1C96D;SHAALDAA SYLLABLE FO;Lo;0;L;;;;;N;;;;;
1C96E;SHAALDAA SYLLABLE FAA;Lo;0;L;;;;;N;;;;;
1C96F;SHAALDAA SYLLABLE FUU;Lo;0;L;;;;;N;;;;;
1C970;SHAALDAA SYLLABLE FII;Lo;0;L;;;;;N;;;;;
1C971;SHAALDAA SYLLABLE FEE;Lo;0;L;;;;;N;;;;;
1C972;SHAALDAA SYLLABLE FOO;Lo;0;L;;;;;N;;;;;
1C973;SHAALDAA SYLLABLE F;Lo;0;L;;;;;N;;;;;
1C974;SHAALDAA SYLLABLE FF BASE;Lo;0;L;;;;;N;;;;;
1C975;SHAALDAA SYLLABLE FFA;Lo;0;L;;;;;N;;;;;
1C976;SHAALDAA SYLLABLE FFU;Lo;0;L;;;;;N;;;;;
1C977;SHAALDAA SYLLABLE FFI;Lo;0;L;;;;;N;;;;;
1C978;SHAALDAA SYLLABLE FFE;Lo;0;L;;;;;N;;;;;
1C979;SHAALDAA SYLLABLE FFO;Lo;0;L;;;;;N;;;;;

1C97A;SHAALDAA SYLLABLE FFAA;Lo;0;L;;;;;N;;;;;
1C97B;SHAALDAA SYLLABLE FFUU;Lo;0;L;;;;;N;;;;;
1C97C;SHAALDAA SYLLABLE FFII;Lo;0;L;;;;;N;;;;;
1C97D;SHAALDAA SYLLABLE FFEE;Lo;0;L;;;;;N;;;;;
1C97E;SHAALDAA SYLLABLE FFOO;Lo;0;L;;;;;N;;;;;
1C97F;SHAALDAA SYLLABLE FF;Lo;0;L;;;;;N;;;;;
1C980;SHAALDAA SYLLABLE ALTERNATE S BASE;Lo;0;L;;;;;N;;;;;
1C981;SHAALDAA SYLLABLE ALTERNATE SA;Lo;0;L;;;;;N;;;;;
1C982;SHAALDAA SYLLABLE ALTERNATE SU;Lo;0;L;;;;;N;;;;;
1C983;SHAALDAA SYLLABLE ALTERNATE SI;Lo;0;L;;;;;N;;;;;
1C984;SHAALDAA SYLLABLE ALTERNATE SE;Lo;0;L;;;;;N;;;;;
1C985;SHAALDAA SYLLABLE ALTERNATE SO;Lo;0;L;;;;;N;;;;;
1C986;SHAALDAA SYLLABLE ALTERNATE SAA;Lo;0;L;;;;;N;;;;;
1C987;SHAALDAA SYLLABLE ALTERNATE SUU;Lo;0;L;;;;;N;;;;;
1C988;SHAALDAA SYLLABLE ALTERNATE SII;Lo;0;L;;;;;N;;;;;
1C989;SHAALDAA SYLLABLE ALTERNATE SEE;Lo;0;L;;;;;N;;;;;
1C98A;SHAALDAA SYLLABLE ALTERNATE SOO;Lo;0;L;;;;;N;;;;;
1C98B;SHAALDAA SYLLABLE ALTERNATE S;Lo;0;L;;;;;N;;;;;
1C98C;SHAALDAA SYLLABLE ALTERNATE SS BASE;Lo;0;L;;;;;N;;;;;
1C98D;SHAALDAA SYLLABLE ALTERNATE SSA;Lo;0;L;;;;;N;;;;;
1C98E;SHAALDAA SYLLABLE ALTERNATE SSU;Lo;0;L;;;;;N;;;;;
1C98F;SHAALDAA SYLLABLE ALTERNATE SSI;Lo;0;L;;;;;N;;;;;
1C990;SHAALDAA SYLLABLE ALTERNATE SSE;Lo;0;L;;;;;N;;;;;
1C991;SHAALDAA SYLLABLE ALTERNATE SSO;Lo;0;L;;;;;N;;;;;
1C992;SHAALDAA SYLLABLE ALTERNATE SSAA;Lo;0;L;;;;;N;;;;;
1C993;SHAALDAA SYLLABLE ALTERNATE SSUU;Lo;0;L;;;;;N;;;;;
1C994;SHAALDAA SYLLABLE ALTERNATE SSII;Lo;0;L;;;;;N;;;;;
1C995;SHAALDAA SYLLABLE ALTERNATE SSEE;Lo;0;L;;;;;N;;;;;
1C996;SHAALDAA SYLLABLE ALTERNATE SSOO;Lo;0;L;;;;;N;;;;;
1C997;SHAALDAA SYLLABLE ALTERNATE SS;Lo;0;L;;;;;N;;;;;
1C998;SHAALDAA SYLLABLE Q BASE;Lo;0;L;;;;;N;;;;;
1C999;SHAALDAA SYLLABLE QA;Lo;0;L;;;;;N;;;;;
1C99A;SHAALDAA SYLLABLE QU;Lo;0;L;;;;;N;;;;;
1C99B;SHAALDAA SYLLABLE QI;Lo;0;L;;;;;N;;;;;
1C99C;SHAALDAA SYLLABLE QE;Lo;0;L;;;;;N;;;;;
1C99D;SHAALDAA SYLLABLE QO;Lo;0;L;;;;;N;;;;;
1C99E;SHAALDAA SYLLABLE QAA;Lo;0;L;;;;;N;;;;;
1C99F;SHAALDAA SYLLABLE QUU;Lo;0;L;;;;;N;;;;;
1C9A0;SHAALDAA SYLLABLE QII;Lo;0;L;;;;;N;;;;;
1C9A1;SHAALDAA SYLLABLE QEE;Lo;0;L;;;;;N;;;;;
1C9A2;SHAALDAA SYLLABLE QOO;Lo;0;L;;;;;N;;;;;
1C9A3;SHAALDAA SYLLABLE Q;Lo;0;L;;;;;N;;;;;
1C9A4;SHAALDAA SYLLABLE QQ BASE;Lo;0;L;;;;;N;;;;;
1C9A5;SHAALDAA SYLLABLE QQA;Lo;0;L;;;;;N;;;;;
1C9A6;SHAALDAA SYLLABLE QQU;Lo;0;L;;;;;N;;;;;
1C9A7;SHAALDAA SYLLABLE QQI;Lo;0;L;;;;;N;;;;;
1C9A8;SHAALDAA SYLLABLE QQE;Lo;0;L;;;;;N;;;;;
1C9A9;SHAALDAA SYLLABLE QQO;Lo;0;L;;;;;N;;;;;
1C9AA;SHAALDAA SYLLABLE QQAA;Lo;0;L;;;;;N;;;;;
1C9AB;SHAALDAA SYLLABLE QQUU;Lo;0;L;;;;;N;;;;;
1C9AC;SHAALDAA SYLLABLE QQII;Lo;0;L;;;;;N;;;;;
1C9AD;SHAALDAA SYLLABLE QQEE;Lo;0;L;;;;;N;;;;;

1C9AE;SHAALDAA SYLLABLE QQOO;Lo;0;L;;;;;N;;;;;
1C9AF;SHAALDAA SYLLABLE QQ;Lo;0;L;;;;;N;;;;;
1C9B0;SHAALDAA SYLLABLE R BASE;Lo;0;L;;;;;N;;;;;
1C9B1;SHAALDAA SYLLABLE RA;Lo;0;L;;;;;N;;;;;
1C9B2;SHAALDAA SYLLABLE RU;Lo;0;L;;;;;N;;;;;
1C9B3;SHAALDAA SYLLABLE RI;Lo;0;L;;;;;N;;;;;
1C9B4;SHAALDAA SYLLABLE RE;Lo;0;L;;;;;N;;;;;
1C9B5;SHAALDAA SYLLABLE RO;Lo;0;L;;;;;N;;;;;
1C9B6;SHAALDAA SYLLABLE RAA;Lo;0;L;;;;;N;;;;;
1C9B7;SHAALDAA SYLLABLE RUU;Lo;0;L;;;;;N;;;;;
1C9B8;SHAALDAA SYLLABLE RII;Lo;0;L;;;;;N;;;;;
1C9B9;SHAALDAA SYLLABLE REE;Lo;0;L;;;;;N;;;;;
1C9BA;SHAALDAA SYLLABLE ROO;Lo;0;L;;;;;N;;;;;
1C9BB;SHAALDAA SYLLABLE R;Lo;0;L;;;;;N;;;;;
1C9BC;SHAALDAA SYLLABLE RR BASE;Lo;0;L;;;;;N;;;;;
1C9BD;SHAALDAA SYLLABLE RRA;Lo;0;L;;;;;N;;;;;
1C9BE;SHAALDAA SYLLABLE RRU;Lo;0;L;;;;;N;;;;;
1C9BF;SHAALDAA SYLLABLE RRI;Lo;0;L;;;;;N;;;;;
1C9C0;SHAALDAA SYLLABLE RRE;Lo;0;L;;;;;N;;;;;
1C9C1;SHAALDAA SYLLABLE RRO;Lo;0;L;;;;;N;;;;;
1C9C2;SHAALDAA SYLLABLE RRAA;Lo;0;L;;;;;N;;;;;
1C9C3;SHAALDAA SYLLABLE RRUU;Lo;0;L;;;;;N;;;;;
1C9C4;SHAALDAA SYLLABLE RRII;Lo;0;L;;;;;N;;;;;
1C9C5;SHAALDAA SYLLABLE RREE;Lo;0;L;;;;;N;;;;;
1C9C6;SHAALDAA SYLLABLE RROO;Lo;0;L;;;;;N;;;;;
1C9C7;SHAALDAA SYLLABLE RR;Lo;0;L;;;;;N;;;;;
1C9C8;SHAALDAA SYLLABLE SH BASE;Lo;0;L;;;;;N;;;;;
1C9C9;SHAALDAA SYLLABLE SHA;Lo;0;L;;;;;N;;;;;
1C9CA;SHAALDAA SYLLABLE SHU;Lo;0;L;;;;;N;;;;;
1C9CB;SHAALDAA SYLLABLE SHI;Lo;0;L;;;;;N;;;;;
1C9CC;SHAALDAA SYLLABLE SHE;Lo;0;L;;;;;N;;;;;
1C9CD;SHAALDAA SYLLABLE SHO;Lo;0;L;;;;;N;;;;;
1C9CE;SHAALDAA SYLLABLE SHAA;Lo;0;L;;;;;N;;;;;
1C9CF;SHAALDAA SYLLABLE SHUU;Lo;0;L;;;;;N;;;;;
1C9D0;SHAALDAA SYLLABLE SHII;Lo;0;L;;;;;N;;;;;
1C9D1;SHAALDAA SYLLABLE SHEE;Lo;0;L;;;;;N;;;;;
1C9D2;SHAALDAA SYLLABLE SHOO;Lo;0;L;;;;;N;;;;;
1C9D3;SHAALDAA SYLLABLE SH;Lo;0;L;;;;;N;;;;;
1C9D4;SHAALDAA SYLLABLE SSH BASE;Lo;0;L;;;;;N;;;;;
1C9D5;SHAALDAA SYLLABLE SSHA;Lo;0;L;;;;;N;;;;;
1C9D6;SHAALDAA SYLLABLE SSHU;Lo;0;L;;;;;N;;;;;
1C9D7;SHAALDAA SYLLABLE SSHI;Lo;0;L;;;;;N;;;;;
1C9D8;SHAALDAA SYLLABLE SSHE;Lo;0;L;;;;;N;;;;;
1C9D9;SHAALDAA SYLLABLE SSHO;Lo;0;L;;;;;N;;;;;
1C9DA;SHAALDAA SYLLABLE SSHAA;Lo;0;L;;;;;N;;;;;
1C9DB;SHAALDAA SYLLABLE SSHUU;Lo;0;L;;;;;N;;;;;
1C9DC;SHAALDAA SYLLABLE SSHII;Lo;0;L;;;;;N;;;;;
1C9DD;SHAALDAA SYLLABLE SSHEE;Lo;0;L;;;;;N;;;;;
1C9DE;SHAALDAA SYLLABLE SSHOO;Lo;0;L;;;;;N;;;;;
1C9DF;SHAALDAA SYLLABLE SSH;Lo;0;L;;;;;N;;;;;
1C9E0;SHAALDAA SYLLABLE T BASE;Lo;0;L;;;;;N;;;;;
1C9E1;SHAALDAA SYLLABLE TA;Lo;0;L;;;;;N;;;;;

1C9E2;SHAALDAA SYLLABLE TU;Lo;0;L;;;;;N;;;;;
1C9E3;SHAALDAA SYLLABLE TI;Lo;0;L;;;;;N;;;;;
1C9E4;SHAALDAA SYLLABLE TE;Lo;0;L;;;;;N;;;;;
1C9E5;SHAALDAA SYLLABLE TO;Lo;0;L;;;;;N;;;;;
1C9E6;SHAALDAA SYLLABLE TAA;Lo;0;L;;;;;N;;;;;
1C9E7;SHAALDAA SYLLABLE TUU;Lo;0;L;;;;;N;;;;;
1C9E8;SHAALDAA SYLLABLE TII;Lo;0;L;;;;;N;;;;;
1C9E9;SHAALDAA SYLLABLE TEE;Lo;0;L;;;;;N;;;;;
1C9EA;SHAALDAA SYLLABLE TOO;Lo;0;L;;;;;N;;;;;
1C9EB;SHAALDAA SYLLABLE T;Lo;0;L;;;;;N;;;;;
1C9EC;SHAALDAA SYLLABLE TT BASE;Lo;0;L;;;;;N;;;;;
1C9ED;SHAALDAA SYLLABLE TTA;Lo;0;L;;;;;N;;;;;
1C9EE;SHAALDAA SYLLABLE TTU;Lo;0;L;;;;;N;;;;;
1C9EF;SHAALDAA SYLLABLE TTI;Lo;0;L;;;;;N;;;;;
1C9F0;SHAALDAA SYLLABLE TTE;Lo;0;L;;;;;N;;;;;
1C9F1;SHAALDAA SYLLABLE TTO;Lo;0;L;;;;;N;;;;;
1C9F2;SHAALDAA SYLLABLE TTAA;Lo;0;L;;;;;N;;;;;
1C9F3;SHAALDAA SYLLABLE TTUU;Lo;0;L;;;;;N;;;;;
1C9F4;SHAALDAA SYLLABLE TTII;Lo;0;L;;;;;N;;;;;
1C9F5;SHAALDAA SYLLABLE TTEE;Lo;0;L;;;;;N;;;;;
1C9F6;SHAALDAA SYLLABLE TTOO;Lo;0;L;;;;;N;;;;;
1C9F7;SHAALDAA SYLLABLE TT;Lo;0;L;;;;;N;;;;;
1C9F8;SHAALDAA SYLLABLE KH BASE;Lo;0;L;;;;;N;;;;;
1C9F9;SHAALDAA SYLLABLE KHA;Lo;0;L;;;;;N;;;;;
1C9FA;SHAALDAA SYLLABLE KHU;Lo;0;L;;;;;N;;;;;
1C9FB;SHAALDAA SYLLABLE KHI;Lo;0;L;;;;;N;;;;;
1C9FC;SHAALDAA SYLLABLE KHE;Lo;0;L;;;;;N;;;;;
1C9FD;SHAALDAA SYLLABLE KHO;Lo;0;L;;;;;N;;;;;
1C9FE;SHAALDAA SYLLABLE KHAA;Lo;0;L;;;;;N;;;;;
1C9FF;SHAALDAA SYLLABLE KHUU;Lo;0;L;;;;;N;;;;;
1CA00;SHAALDAA SYLLABLE KHII;Lo;0;L;;;;;N;;;;;
1CA01;SHAALDAA SYLLABLE KHEE;Lo;0;L;;;;;N;;;;;
1CA02;SHAALDAA SYLLABLE KHOO;Lo;0;L;;;;;N;;;;;
1CA03;SHAALDAA SYLLABLE KH;Lo;0;L;;;;;N;;;;;
1CA04;SHAALDAA SYLLABLE KKH BASE;Lo;0;L;;;;;N;;;;;
1CA05;SHAALDAA SYLLABLE KKHA;Lo;0;L;;;;;N;;;;;
1CA06;SHAALDAA SYLLABLE KKHU;Lo;0;L;;;;;N;;;;;
1CA07;SHAALDAA SYLLABLE KKHI;Lo;0;L;;;;;N;;;;;
1CA08;SHAALDAA SYLLABLE KKHE;Lo;0;L;;;;;N;;;;;
1CA09;SHAALDAA SYLLABLE KKHO;Lo;0;L;;;;;N;;;;;
1CA0A;SHAALDAA SYLLABLE KKHA;Lo;0;L;;;;;N;;;;;
1CA0B;SHAALDAA SYLLABLE KKHU;Lo;0;L;;;;;N;;;;;
1CA0C;SHAALDAA SYLLABLE KKHI;Lo;0;L;;;;;N;;;;;
1CA0D;SHAALDAA SYLLABLE KKHEE;Lo;0;L;;;;;N;;;;;
1CA0E;SHAALDAA SYLLABLE KKHO;Lo;0;L;;;;;N;;;;;
1CA0F;SHAALDAA SYLLABLE KKH;Lo;0;L;;;;;N;;;;;
1CA10;SHAALDAA SYLLABLE DH BASE;Lo;0;L;;;;;N;;;;;
1CA11;SHAALDAA SYLLABLE DHA;Lo;0;L;;;;;N;;;;;
1CA12;SHAALDAA SYLLABLE DHU;Lo;0;L;;;;;N;;;;;
1CA13;SHAALDAA SYLLABLE DHI;Lo;0;L;;;;;N;;;;;
1CA14;SHAALDAA SYLLABLE DHE;Lo;0;L;;;;;N;;;;;
1CA15;SHAALDAA SYLLABLE DHO;Lo;0;L;;;;;N;;;;;

1CA16;SHAALDAA SYLLABLE DHAA;Lo;0;L;;;;;N;;;;;
1CA17;SHAALDAA SYLLABLE DHUU;Lo;0;L;;;;;N;;;;;
1CA18;SHAALDAA SYLLABLE DHII;Lo;0;L;;;;;N;;;;;
1CA19;SHAALDAA SYLLABLE DHEE;Lo;0;L;;;;;N;;;;;
1CA1A;SHAALDAA SYLLABLE DHOO;Lo;0;L;;;;;N;;;;;
1CA1B;SHAALDAA SYLLABLE DH;Lo;0;L;;;;;N;;;;;
1CA1C;SHAALDAA SYLLABLE DDH BASE;Lo;0;L;;;;;N;;;;;
1CA1D;SHAALDAA SYLLABLE DDHA;Lo;0;L;;;;;N;;;;;
1CA1E;SHAALDAA SYLLABLE DDHU;Lo;0;L;;;;;N;;;;;
1CA1F;SHAALDAA SYLLABLE DDHI;Lo;0;L;;;;;N;;;;;
1CA20;SHAALDAA SYLLABLE DDHE;Lo;0;L;;;;;N;;;;;
1CA21;SHAALDAA SYLLABLE DDHO;Lo;0;L;;;;;N;;;;;
1CA22;SHAALDAA SYLLABLE DDHAA;Lo;0;L;;;;;N;;;;;
1CA23;SHAALDAA SYLLABLE DDHUU;Lo;0;L;;;;;N;;;;;
1CA24;SHAALDAA SYLLABLE DDHII;Lo;0;L;;;;;N;;;;;
1CA25;SHAALDAA SYLLABLE DDHEE;Lo;0;L;;;;;N;;;;;
1CA26;SHAALDAA SYLLABLE DDHOO;Lo;0;L;;;;;N;;;;;
1CA27;SHAALDAA SYLLABLE DDH;Lo;0;L;;;;;N;;;;;
1CA28;SHAALDAA SYLLABLE G BASE;Lo;0;L;;;;;N;;;;;
1CA29;SHAALDAA SYLLABLE GA;Lo;0;L;;;;;N;;;;;
1CA2A;SHAALDAA SYLLABLE GU;Lo;0;L;;;;;N;;;;;
1CA2B;SHAALDAA SYLLABLE GI;Lo;0;L;;;;;N;;;;;
1CA2C;SHAALDAA SYLLABLE GE;Lo;0;L;;;;;N;;;;;
1CA2D;SHAALDAA SYLLABLE GO;Lo;0;L;;;;;N;;;;;
1CA2E;SHAALDAA SYLLABLE GAA;Lo;0;L;;;;;N;;;;;
1CA2F;SHAALDAA SYLLABLE GUU;Lo;0;L;;;;;N;;;;;
1CA30;SHAALDAA SYLLABLE GII;Lo;0;L;;;;;N;;;;;
1CA31;SHAALDAA SYLLABLE GEE;Lo;0;L;;;;;N;;;;;
1CA32;SHAALDAA SYLLABLE GOO;Lo;0;L;;;;;N;;;;;
1CA33;SHAALDAA SYLLABLE G;Lo;0;L;;;;;N;;;;;
1CA34;SHAALDAA SYLLABLE GG BASE;Lo;0;L;;;;;N;;;;;
1CA35;SHAALDAA SYLLABLE GGA;Lo;0;L;;;;;N;;;;;
1CA36;SHAALDAA SYLLABLE GGU;Lo;0;L;;;;;N;;;;;
1CA37;SHAALDAA SYLLABLE GGI;Lo;0;L;;;;;N;;;;;
1CA38;SHAALDAA SYLLABLE GGE;Lo;0;L;;;;;N;;;;;
1CA39;SHAALDAA SYLLABLE GGO;Lo;0;L;;;;;N;;;;;
1CA3A;SHAALDAA SYLLABLE GGAA;Lo;0;L;;;;;N;;;;;
1CA3B;SHAALDAA SYLLABLE GGUU;Lo;0;L;;;;;N;;;;;
1CA3C;SHAALDAA SYLLABLE GGII;Lo;0;L;;;;;N;;;;;
1CA3D;SHAALDAA SYLLABLE GGEE;Lo;0;L;;;;;N;;;;;
1CA3E;SHAALDAA SYLLABLE GGOO;Lo;0;L;;;;;N;;;;;
1CA3F;SHAALDAA SYLLABLE GG;Lo;0;L;;;;;N;;;;;
1CA40;SHAALDAA SYLLABLE C BASE;Lo;0;L;;;;;N;;;;;
1CA41;SHAALDAA SYLLABLE CA;Lo;0;L;;;;;N;;;;;
1CA42;SHAALDAA SYLLABLE CU;Lo;0;L;;;;;N;;;;;
1CA43;SHAALDAA SYLLABLE CI;Lo;0;L;;;;;N;;;;;
1CA44;SHAALDAA SYLLABLE CE;Lo;0;L;;;;;N;;;;;
1CA45;SHAALDAA SYLLABLE CO;Lo;0;L;;;;;N;;;;;
1CA46;SHAALDAA SYLLABLE CAA;Lo;0;L;;;;;N;;;;;
1CA47;SHAALDAA SYLLABLE CUU;Lo;0;L;;;;;N;;;;;
1CA48;SHAALDAA SYLLABLE CII;Lo;0;L;;;;;N;;;;;
1CA49;SHAALDAA SYLLABLE CEE;Lo;0;L;;;;;N;;;;;

1CA4A;SHAALDAA SYLLABLE COO;Lo;0;L;;;;;N;;;;;
1CA4B;SHAALDAA SYLLABLE C;Lo;0;L;;;;;N;;;;;
1CA4C;SHAALDAA SYLLABLE CC BASE;Lo;0;L;;;;;N;;;;;
1CA4D;SHAALDAA SYLLABLE CCA;Lo;0;L;;;;;N;;;;;
1CA4E;SHAALDAA SYLLABLE CCU;Lo;0;L;;;;;N;;;;;
1CA4F;SHAALDAA SYLLABLE CCI;Lo;0;L;;;;;N;;;;;
1CA50;SHAALDAA SYLLABLE CCE;Lo;0;L;;;;;N;;;;;
1CA51;SHAALDAA SYLLABLE CCO;Lo;0;L;;;;;N;;;;;
1CA52;SHAALDAA SYLLABLE CCAA;Lo;0;L;;;;;N;;;;;
1CA53;SHAALDAA SYLLABLE CCUU;Lo;0;L;;;;;N;;;;;
1CA54;SHAALDAA SYLLABLE CCII;Lo;0;L;;;;;N;;;;;
1CA55;SHAALDAA SYLLABLE CCEE;Lo;0;L;;;;;N;;;;;
1CA56;SHAALDAA SYLLABLE CCOO;Lo;0;L;;;;;N;;;;;
1CA57;SHAALDAA SYLLABLE CC;Lo;0;L;;;;;N;;;;;
1CA58;SHAALDAA SYLLABLE NY BASE;Lo;0;L;;;;;N;;;;;
1CA59;SHAALDAA SYLLABLE NYA;Lo;0;L;;;;;N;;;;;
1CA5A;SHAALDAA SYLLABLE NYU;Lo;0;L;;;;;N;;;;;
1CA5B;SHAALDAA SYLLABLE NYI;Lo;0;L;;;;;N;;;;;
1CA5C;SHAALDAA SYLLABLE NYE;Lo;0;L;;;;;N;;;;;
1CA5D;SHAALDAA SYLLABLE NYO;Lo;0;L;;;;;N;;;;;
1CA5E;SHAALDAA SYLLABLE NYAA;Lo;0;L;;;;;N;;;;;
1CA5F;SHAALDAA SYLLABLE NYUU;Lo;0;L;;;;;N;;;;;
1CA60;SHAALDAA SYLLABLE NYII;Lo;0;L;;;;;N;;;;;
1CA61;SHAALDAA SYLLABLE NYEE;Lo;0;L;;;;;N;;;;;
1CA62;SHAALDAA SYLLABLE NYOO;Lo;0;L;;;;;N;;;;;
1CA63;SHAALDAA SYLLABLE NY;Lo;0;L;;;;;N;;;;;
1CA64;SHAALDAA SYLLABLE NNY BASE;Lo;0;L;;;;;N;;;;;
1CA65;SHAALDAA SYLLABLE NNYA;Lo;0;L;;;;;N;;;;;
1CA66;SHAALDAA SYLLABLE NNYU;Lo;0;L;;;;;N;;;;;
1CA67;SHAALDAA SYLLABLE NNYI;Lo;0;L;;;;;N;;;;;
1CA68;SHAALDAA SYLLABLE NNYE;Lo;0;L;;;;;N;;;;;
1CA69;SHAALDAA SYLLABLE NNYO;Lo;0;L;;;;;N;;;;;
1CA6A;SHAALDAA SYLLABLE NNYAA;Lo;0;L;;;;;N;;;;;
1CA6B;SHAALDAA SYLLABLE NNYUU;Lo;0;L;;;;;N;;;;;
1CA6C;SHAALDAA SYLLABLE NNYII;Lo;0;L;;;;;N;;;;;
1CA6D;SHAALDAA SYLLABLE NNYEE;Lo;0;L;;;;;N;;;;;
1CA6E;SHAALDAA SYLLABLE NNYOO;Lo;0;L;;;;;N;;;;;
1CA6F;SHAALDAA SYLLABLE NNY;Lo;0;L;;;;;N;;;;;
1CA70;SHAALDAA SYLLABLE CH BASE;Lo;0;L;;;;;N;;;;;
1CA71;SHAALDAA SYLLABLE CHA;Lo;0;L;;;;;N;;;;;
1CA72;SHAALDAA SYLLABLE CHU;Lo;0;L;;;;;N;;;;;
1CA73;SHAALDAA SYLLABLE CHI;Lo;0;L;;;;;N;;;;;
1CA74;SHAALDAA SYLLABLE CHE;Lo;0;L;;;;;N;;;;;
1CA75;SHAALDAA SYLLABLE CHO;Lo;0;L;;;;;N;;;;;
1CA76;SHAALDAA SYLLABLE CHAA;Lo;0;L;;;;;N;;;;;
1CA77;SHAALDAA SYLLABLE CHUU;Lo;0;L;;;;;N;;;;;
1CA78;SHAALDAA SYLLABLE CHII;Lo;0;L;;;;;N;;;;;
1CA79;SHAALDAA SYLLABLE CHEE;Lo;0;L;;;;;N;;;;;
1CA7A;SHAALDAA SYLLABLE CHOO;Lo;0;L;;;;;N;;;;;
1CA7B;SHAALDAA SYLLABLE CH;Lo;0;L;;;;;N;;;;;
1CA7C;SHAALDAA SYLLABLE CCH BASE;Lo;0;L;;;;;N;;;;;
1CA7D;SHAALDAA SYLLABLE CCHA;Lo;0;L;;;;;N;;;;;

1CA7E;SHAALDAA SYLLABLE CCHU;Lo;0;L;;;;;N;;;;;
1CA7F;SHAALDAA SYLLABLE CCHI;Lo;0;L;;;;;N;;;;;
1CA80;SHAALDAA SYLLABLE CCHE;Lo;0;L;;;;;N;;;;;
1CA81;SHAALDAA SYLLABLE CCHO;Lo;0;L;;;;;N;;;;;
1CA82;SHAALDAA SYLLABLE CCHAA;Lo;0;L;;;;;N;;;;;
1CA83;SHAALDAA SYLLABLE CCHUU;Lo;0;L;;;;;N;;;;;
1CA84;SHAALDAA SYLLABLE CCHII;Lo;0;L;;;;;N;;;;;
1CA85;SHAALDAA SYLLABLE CCHEE;Lo;0;L;;;;;N;;;;;
1CA86;SHAALDAA SYLLABLE CCHOO;Lo;0;L;;;;;N;;;;;
1CA87;SHAALDAA SYLLABLE CCH;Lo;0;L;;;;;N;;;;;
1CA88;SHAALDAA SYLLABLE PH BASE;Lo;0;L;;;;;N;;;;;
1CA89;SHAALDAA SYLLABLE PHA;Lo;0;L;;;;;N;;;;;
1CA8A;SHAALDAA SYLLABLE PHU;Lo;0;L;;;;;N;;;;;
1CA8B;SHAALDAA SYLLABLE PHI;Lo;0;L;;;;;N;;;;;
1CA8C;SHAALDAA SYLLABLE PHE;Lo;0;L;;;;;N;;;;;
1CA8D;SHAALDAA SYLLABLE PHO;Lo;0;L;;;;;N;;;;;
1CA8E;SHAALDAA SYLLABLE PHAA;Lo;0;L;;;;;N;;;;;
1CA8F;SHAALDAA SYLLABLE PHUU;Lo;0;L;;;;;N;;;;;
1CA90;SHAALDAA SYLLABLE PHII;Lo;0;L;;;;;N;;;;;
1CA91;SHAALDAA SYLLABLE PHEE;Lo;0;L;;;;;N;;;;;
1CA92;SHAALDAA SYLLABLE PHOO;Lo;0;L;;;;;N;;;;;
1CA93;SHAALDAA SYLLABLE PH;Lo;0;L;;;;;N;;;;;
1CA94;SHAALDAA SYLLABLE PPH BASE;Lo;0;L;;;;;N;;;;;
1CA95;SHAALDAA SYLLABLE PPHA;Lo;0;L;;;;;N;;;;;
1CA96;SHAALDAA SYLLABLE PPHU;Lo;0;L;;;;;N;;;;;
1CA97;SHAALDAA SYLLABLE PPFI;Lo;0;L;;;;;N;;;;;
1CA98;SHAALDAA SYLLABLE PPHE;Lo;0;L;;;;;N;;;;;
1CA99;SHAALDAA SYLLABLE PPFO;Lo;0;L;;;;;N;;;;;
1CA9A;SHAALDAA SYLLABLE PPHAA;Lo;0;L;;;;;N;;;;;
1CA9B;SHAALDAA SYLLABLE PPHUU;Lo;0;L;;;;;N;;;;;
1CA9C;SHAALDAA SYLLABLE PPFI;Lo;0;L;;;;;N;;;;;
1CA9D;SHAALDAA SYLLABLE PPHEE;Lo;0;L;;;;;N;;;;;
1CA9E;SHAALDAA SYLLABLE PPFOO;Lo;0;L;;;;;N;;;;;
1CA9F;SHAALDAA SYLLABLE PPH;Lo;0;L;;;;;N;;;;;
1CAA0;SHAALDAA PHARYNGEAL BASE;Lo;0;L;;;;;N;;;;;
1CAA1;SHAALDAA PHARYNGEAL A;Lo;0;L;;;;;N;;;;;
1CAA2;SHAALDAA PHARYNGEAL U;Lo;0;L;;;;;N;;;;;
1CAA3;SHAALDAA PHARYNGEAL I;Lo;0;L;;;;;N;;;;;
1CAA4;SHAALDAA PHARYNGEAL E;Lo;0;L;;;;;N;;;;;
1CAA5;SHAALDAA PHARYNGEAL O;Lo;0;L;;;;;N;;;;;
1CAA6;SHAALDAA PHARYNGEAL AA;Lo;0;L;;;;;N;;;;;
1CAA7;SHAALDAA PHARYNGEAL UU;Lo;0;L;;;;;N;;;;;
1CAA8;SHAALDAA PHARYNGEAL II;Lo;0;L;;;;;N;;;;;
1CAA9;SHAALDAA PHARYNGEAL EE;Lo;0;L;;;;;N;;;;;
1CAAA;SHAALDAA PHARYNGEAL OO;Lo;0;L;;;;;N;;;;;
1CAAB;SHAALDAA PHARYNGEAL;Lo;0;L;;;;;N;;;;;
1CAAC;SHAALDAA GEMINATED PHARYNGEAL BASE;Lo;0;L;;;;;N;;;;;
1CAAD;SHAALDAA GEMINATED PHARYNGEAL AA;Lo;0;L;;;;;N;;;;;
1CAAE;SHAALDAA GEMINATED PHARYNGEAL UU;Lo;0;L;;;;;N;;;;;
1CAAF;SHAALDAA GEMINATED PHARYNGEAL II;Lo;0;L;;;;;N;;;;;
1CAB0;SHAALDAA GEMINATED PHARYNGEAL EE;Lo;0;L;;;;;N;;;;;
1CAB1;SHAALDAA GEMINATED PHARYNGEAL OO;Lo;0;L;;;;;N;;;;;

1CAB2;SHAALDAA	GEMINATED PHARYNGEAL AA;	<i>Lo;0;L;;;;</i>	N;;;;
1CAB3;SHAALDAA	GEMINATED PHARYNGEAL UU;	<i>Lo;0;L;;;;</i>	N;;;;
1CAB4;SHAALDAA	GEMINATED PHARYNGEAL II;	<i>Lo;0;L;;;;</i>	N;;;;
1CAB5;SHAALDAA	GEMINATED PHARYNGEAL EE;	<i>Lo;0;L;;;;</i>	N;;;;
1CAB6;SHAALDAA	GEMINATED PHARYNGEAL OO;	<i>Lo;0;L;;;;</i>	N;;;;
1CAB7;SHAALDAA	GEMINATED PHARYNGEAL;	<i>Lo;0;L;;;;</i>	N;;;;
1CAB8;SHAALDAA	SYLLABLE P BASE;	<i>Lo;0;L;;;;</i>	N;;;;
1CAB9;SHAALDAA	SYLLABLE PA;	<i>Lo;0;L;;;;</i>	N;;;;
1CABA;SHAALDAA	SYLLABLE PU;	<i>Lo;0;L;;;;</i>	N;;;;
1CABB;SHAALDAA	SYLLABLE PI;	<i>Lo;0;L;;;;</i>	N;;;;
1CABC;SHAALDAA	SYLLABLE PE;	<i>Lo;0;L;;;;</i>	N;;;;
1CABD;SHAALDAA	SYLLABLE PO;	<i>Lo;0;L;;;;</i>	N;;;;
1CABE;SHAALDAA	SYLLABLE PAA;	<i>Lo;0;L;;;;</i>	N;;;;
1CABF;SHAALDAA	SYLLABLE PUU;	<i>Lo;0;L;;;;</i>	N;;;;
1CAC0;SHAALDAA	SYLLABLE PII;	<i>Lo;0;L;;;;</i>	N;;;;
1CAC1;SHAALDAA	SYLLABLE PEE;	<i>Lo;0;L;;;;</i>	N;;;;
1CAC2;SHAALDAA	SYLLABLE POO;	<i>Lo;0;L;;;;</i>	N;;;;
1CAC3;SHAALDAA	SYLLABLE P;	<i>Lo;0;L;;;;</i>	N;;;;
1CAC4;SHAALDAA	SYLLABLE PP BASE;	<i>Lo;0;L;;;;</i>	N;;;;
1CAC5;SHAALDAA	SYLLABLE PPA;	<i>Lo;0;L;;;;</i>	N;;;;
1CAC6;SHAALDAA	SYLLABLE PPU;	<i>Lo;0;L;;;;</i>	N;;;;
1CAC7;SHAALDAA	SYLLABLE PPI;	<i>Lo;0;L;;;;</i>	N;;;;
1CAC8;SHAALDAA	SYLLABLE PPE;	<i>Lo;0;L;;;;</i>	N;;;;
1CAC9;SHAALDAA	SYLLABLE PPO;	<i>Lo;0;L;;;;</i>	N;;;;
1CACA;SHAALDAA	SYLLABLE PPAA;	<i>Lo;0;L;;;;</i>	N;;;;
1CACB;SHAALDAA	SYLLABLE PPUU;	<i>Lo;0;L;;;;</i>	N;;;;
1CACC;SHAALDAA	SYLLABLE PPII;	<i>Lo;0;L;;;;</i>	N;;;;
1CACD;SHAALDAA	SYLLABLE PPEE;	<i>Lo;0;L;;;;</i>	N;;;;
1CACE;SHAALDAA	SYLLABLE PP00;	<i>Lo;0;L;;;;</i>	N;;;;
1CACF;SHAALDAA	SYLLABLE PP;	<i>Lo;0;L;;;;</i>	N;;;;
1CAD0;SHAALDAA	SYLLABLE V BASE;	<i>Lo;0;L;;;;</i>	N;;;;
1CAD1;SHAALDAA	SYLLABLE VA;	<i>Lo;0;L;;;;</i>	N;;;;
1CAD2;SHAALDAA	SYLLABLE VU;	<i>Lo;0;L;;;;</i>	N;;;;
1CAD3;SHAALDAA	SYLLABLE VI;	<i>Lo;0;L;;;;</i>	N;;;;
1CAD4;SHAALDAA	SYLLABLE VE;	<i>Lo;0;L;;;;</i>	N;;;;
1CAD5;SHAALDAA	SYLLABLE VO;	<i>Lo;0;L;;;;</i>	N;;;;
1CAD6;SHAALDAA	SYLLABLE VAA;	<i>Lo;0;L;;;;</i>	N;;;;
1CAD7;SHAALDAA	SYLLABLE VUU;	<i>Lo;0;L;;;;</i>	N;;;;
1CAD8;SHAALDAA	SYLLABLE VII;	<i>Lo;0;L;;;;</i>	N;;;;
1CAD9;SHAALDAA	SYLLABLE VEE;	<i>Lo;0;L;;;;</i>	N;;;;
1CADA;SHAALDAA	SYLLABLE VOO;	<i>Lo;0;L;;;;</i>	N;;;;
1CADB;SHAALDAA	SYLLABLE V;	<i>Lo;0;L;;;;</i>	N;;;;
1CADC;SHAALDAA	SYLLABLE VV BASE;	<i>Lo;0;L;;;;</i>	N;;;;
1CADD;SHAALDAA	SYLLABLE VVA;	<i>Lo;0;L;;;;</i>	N;;;;
1CADE;SHAALDAA	SYLLABLE VVU;	<i>Lo;0;L;;;;</i>	N;;;;
1CAF0;SHAALDAA	SYLLABLE VVI;	<i>Lo;0;L;;;;</i>	N;;;;
1CAE0;SHAALDAA	SYLLABLE VVE;	<i>Lo;0;L;;;;</i>	N;;;;
1CAE1;SHAALDAA	SYLLABLE VVO;	<i>Lo;0;L;;;;</i>	N;;;;
1CAE2;SHAALDAA	SYLLABLE VVAA;	<i>Lo;0;L;;;;</i>	N;;;;
1CAE3;SHAALDAA	SYLLABLE VVUU;	<i>Lo;0;L;;;;</i>	N;;;;
1CAE4;SHAALDAA	SYLLABLE VII;	<i>Lo;0;L;;;;</i>	N;;;;
1CAE5;SHAALDAA	SYLLABLE VVEE;	<i>Lo;0;L;;;;</i>	N;;;;

1CAE6;SHAALDAA SYLLABLE VVOO; <i>Lo</i> ;0;L;;;;; <i>N</i> ;;;;;
1CAE7;SHAALDAA SYLLABLE VV; <i>Lo</i> ;0;L;;;;; <i>N</i> ;;;;;
1CAE8;SHAALDAA SYLLABLE ZH BASE; <i>Lo</i> ;0;L;;;;; <i>N</i> ;;;;;
1CAE9;SHAALDAA SYLLABLE ZHA; <i>Lo</i> ;0;L;;;;; <i>N</i> ;;;;;
1CAEA;SHAALDAA SYLLABLE ZHU; <i>Lo</i> ;0;L;;;;; <i>N</i> ;;;;;
1CAEB;SHAALDAA SYLLABLE ZHI; <i>Lo</i> ;0;L;;;;; <i>N</i> ;;;;;
1CAEC;SHAALDAA SYLLABLE ZHE; <i>Lo</i> ;0;L;;;;; <i>N</i> ;;;;;
1CAED;SHAALDAA SYLLABLE ZHO; <i>Lo</i> ;0;L;;;;; <i>N</i> ;;;;;
1CAEE;SHAALDAA SYLLABLE ZHAA; <i>Lo</i> ;0;L;;;;; <i>N</i> ;;;;;
1CAEF;SHAALDAA SYLLABLE ZHUU; <i>Lo</i> ;0;L;;;;; <i>N</i> ;;;;;
1CAF0;SHAALDAA SYLLABLE ZHII; <i>Lo</i> ;0;L;;;;; <i>N</i> ;;;;;
1CAF1;SHAALDAA SYLLABLE ZHEE; <i>Lo</i> ;0;L;;;;; <i>N</i> ;;;;;
1CAF2;SHAALDAA SYLLABLE ZHOO; <i>Lo</i> ;0;L;;;;; <i>N</i> ;;;;;
1CAF3;SHAALDAA SYLLABLE ZH; <i>Lo</i> ;0;L;;;;; <i>N</i> ;;;;;
1CAF4;SHAALDAA SYLLABLE ZZH BASE; <i>Lo</i> ;0;L;;;;; <i>N</i> ;;;;;
1CAF5;SHAALDAA SYLLABLE ZZHA; <i>Lo</i> ;0;L;;;;; <i>N</i> ;;;;;
1CAF6;SHAALDAA SYLLABLE ZZHU; <i>Lo</i> ;0;L;;;;; <i>N</i> ;;;;;
1CAF7;SHAALDAA SYLLABLE ZZHI; <i>Lo</i> ;0;L;;;;; <i>N</i> ;;;;;
1CAF8;SHAALDAA SYLLABLE ZZHE; <i>Lo</i> ;0;L;;;;; <i>N</i> ;;;;;
1CAF9;SHAALDAA SYLLABLE ZZHO; <i>Lo</i> ;0;L;;;;; <i>N</i> ;;;;;
1CAFA;SHAALDAA SYLLABLE ZZHAA; <i>Lo</i> ;0;L;;;;; <i>N</i> ;;;;;
1CAFB;SHAALDAA SYLLABLE ZZHUU; <i>Lo</i> ;0;L;;;;; <i>N</i> ;;;;;
1CAF C;SHAALDAA SYLLABLE ZZHII; <i>Lo</i> ;0;L;;;;; <i>N</i> ;;;;;
1CAF D;SHAALDAA SYLLABLE ZZHEE; <i>Lo</i> ;0;L;;;;; <i>N</i> ;;;;;
1CAF E;SHAALDAA SYLLABLE ZZHOO; <i>Lo</i> ;0;L;;;;; <i>N</i> ;;;;;
1CAFF;SHAALDAA SYLLABLE ZZH; <i>Lo</i> ;0;L;;;;; <i>N</i> ;;;;;
1CB00;SHAALDAA SYLLABLE TS BASE; <i>Lo</i> ;0;L;;;;; <i>N</i> ;;;;;
1CB01;SHAALDAA SYLLABLE TSA; <i>Lo</i> ;0;L;;;;; <i>N</i> ;;;;;
1CB02;SHAALDAA SYLLABLE TSU; <i>Lo</i> ;0;L;;;;; <i>N</i> ;;;;;
1CB03;SHAALDAA SYLLABLE TSI; <i>Lo</i> ;0;L;;;;; <i>N</i> ;;;;;
1CB04;SHAALDAA SYLLABLE TSE; <i>Lo</i> ;0;L;;;;; <i>N</i> ;;;;;
1CB05;SHAALDAA SYLLABLE TSO; <i>Lo</i> ;0;L;;;;; <i>N</i> ;;;;;
1CB06;SHAALDAA SYLLABLE TSAA; <i>Lo</i> ;0;L;;;;; <i>N</i> ;;;;;
1CB07;SHAALDAA SYLLABLE TSUU; <i>Lo</i> ;0;L;;;;; <i>N</i> ;;;;;
1CB08;SHAALDAA SYLLABLE TSII; <i>Lo</i> ;0;L;;;;; <i>N</i> ;;;;;
1CB09;SHAALDAA SYLLABLE TSEE; <i>Lo</i> ;0;L;;;;; <i>N</i> ;;;;;
1CB0A;SHAALDAA SYLLABLE TS00; <i>Lo</i> ;0;L;;;;; <i>N</i> ;;;;;
1CB0B;SHAALDAA SYLLABLE TS; <i>Lo</i> ;0;L;;;;; <i>N</i> ;;;;;
1CB0C;SHAALDAA SYLLABLE TTS BASE; <i>Lo</i> ;0;L;;;;; <i>N</i> ;;;;;
1CB0D;SHAALDAA SYLLABLE TTSA; <i>Lo</i> ;0;L;;;;; <i>N</i> ;;;;;
1CB0E;SHAALDAA SYLLABLE TTSU; <i>Lo</i> ;0;L;;;;; <i>N</i> ;;;;;
1CB0F;SHAALDAA SYLLABLE TTSI; <i>Lo</i> ;0;L;;;;; <i>N</i> ;;;;;
1CB10;SHAALDAA SYLLABLE TTSE; <i>Lo</i> ;0;L;;;;; <i>N</i> ;;;;;
1CB11;SHAALDAA SYLLABLE TTSO; <i>Lo</i> ;0;L;;;;; <i>N</i> ;;;;;
1CB12;SHAALDAA SYLLABLE TTSAA; <i>Lo</i> ;0;L;;;;; <i>N</i> ;;;;;
1CB13;SHAALDAA SYLLABLE TTSUU; <i>Lo</i> ;0;L;;;;; <i>N</i> ;;;;;
1CB14;SHAALDAA SYLLABLE TTSII; <i>Lo</i> ;0;L;;;;; <i>N</i> ;;;;;
1CB15;SHAALDAA SYLLABLE TTSEE; <i>Lo</i> ;0;L;;;;; <i>N</i> ;;;;;
1CB16;SHAALDAA SYLLABLE TTS00; <i>Lo</i> ;0;L;;;;; <i>N</i> ;;;;;
1CB17;SHAALDAA SYLLABLE TTS; <i>Lo</i> ;0;L;;;;; <i>N</i> ;;;;;
1CB20;SHAALDAA DIGIT ZERO;Nd;0;L;;0;0;0; <i>N</i> ;;;;;
1CB21;SHAALDAA DIGIT ONE;Nd;0;L;;1;1;1; <i>N</i> ;;;;;

1CB22;SHAALDAA DIGIT TWO;Nd;0;L;;2;2;2; N ;;;;
1CB23;SHAALDAA DIGIT THREE;Nd;0;L;;3;3;3; N ;;;;
1CB24;SHAALDAA DIGIT FOUR;Nd;0;L;;4;4;4; N ;;;;
1CB25;SHAALDAA DIGIT FIVE;Nd;0;L;;5;5;5; N ;;;;
1CB26;SHAALDAA DIGIT SIX; Nd;0;L;;6;6;6; N ;;;;
1CB27;SHAALDAA DIGIT SEVEN;Nd;0;L;;7;7;7; N ;;;;
1CB28;SHAALDAA DIGIT EIGHT;Nd;0;L;;8;8;8; N ;;;;
1CB29;SHAALDAA DIGIT NINE;Nd;0;L;;9;9;9; N ;;;;
1CB2A;SHAALDAA WORDSPACE;Po;0;L;;;; N ;;;;
1CB2B;SHAALDAA FULL STOP;Po;0;L;;;; N ;;;;

Table 3. Shaaldaa Properties

Line breaking information

Line Breaking rules for the Shaaldaa script are as follows:

- Words are separated with the native script word separator, ;, explained above, or with U+0020 SPACE. The word separator was extensively used in historical documents.
- Line breaks only occur at word boundaries.
- There is not a special mode found that allows lines breaks within words at select positions, such as using a hyphen sign (U+002D HYPHEN-MINUS) that other scripts apply.
- Line breaks cannot occur within numbers. Numbers must always be kept together.
- There are no restrictions explicitly stated on line breaking before or after certain punctuation characters. However, line breaking is observed in practice to occur only after the Shaaldaa punctuation.
- There are no other special considerations for line breaking in this script.

The Shaaldaa script is likely to occur with the Latin, Ethiopic, and possibly the Arabic script:

- Latin due to the current Qubee orthography.
- Ethiopic due to the user community being Ethiopian and using the Ethiopic script in many aspects of life.
- Arabic due to many Oromo people, including students of Sheikh Bakri, being Muslim. Sheikh Bakri was an Islamic scholar who extensively wrote in Arabic and an Arabic script-based Oromo orthography. Digitization of his historical manuscripts will require cohesion between his script and Arabic.

VI Collation

The expected sorting order of the script follows the ordering used in education and is shown in Table 1 and reflected in Table 2. Table 1 is read/ordered from left-to-right and top-to-bottom.

VII References

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3. Rovenchak Andrij and Jason Glavy. *African Writing Systems of the Modern Age: The Sub-Saharan Region*. First English edition revised and expanded from the original Ukrainian edition ed. Athinkra 2011: 66-69
4. "Oromooon qabee jaarraa 16ffaairraa qabdi". YouTube, January 6, 2024. <https://www.youtube.com/watch?v=m5onMVuSz88>
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6. "Ijoo Dubbii wa'ee Qabee fi Kulle irratti deemaa jiruun walqabatee turtii beeytoota waliin gone". YouTube, February 4, 2024. <https://www.youtube.com/watch?v=GydGGD9uVq8>
7. "Jecha Qaalii kana dubbisa bira kutaa Barruu Shaaldaa Keeysaahiin isinii fidee6 February 2024". YouTube, February 6, 2024. <https://www.youtube.com/watch?v=mnHmk18N0hU>
8. Sheikh Nuraddin Ahmed and Aneso Mohammed going through documents in the Shaaldaa script – <https://www.tiktok.com/t/ZT8EdrCge/>
9. Engravings of Shaaldaa script – <https://www.tiktok.com/t/ZT8EdeyBj/>
10. Full Misrak Media (ምስራቅ ማረጋገጫ) interview with Aneso Mohammed on his book about Sheikh Bakri Saphaloo and the latter's script – <https://www.tiktok.com/t/ZT8EdkuwE/>
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12. Mohammed, Aneso, Sirna Barreeffama, Addis Ababa: Arodyon Books, Shaaaldaa, 2025.

Font and Keyboard

The Shaaldaa font used in this proposal, and a keyboard, can be retrieved from the Athinkra GitHub repository: <https://github.com/athinkra/sheek-bakrii-saphaloo>. A keyboard, that includes the aforementioned font, is available from the SIL Keyman website at the location: https://keyman.com/keysheets/qff_sbs.

VIII Acknowledgements

The authors would like to thank the scholars that have provided input, support, and feedback into this proposal and for helping us understand the legacy of Sheikh Bakri Saphalo's script and its modern utilization. In particular, Professor Mohammed Hassen Ali and Aneso Mohammed worked closely with the authors providing both informative and financial support to the investigative effort. Without which, this proposal would not have been possible. Additionally, the following informants provided highly valuable input:

Dr. Asafa Jalata, Dr. Asfaw Beyene, Dr. Tesfaye Tesso, Dr. Feda Negesse, Dr. Fedha Kebede (Oromo Studies Association President), Taha Ali Abdi, Mahdi Hamid Muudee, Mekuria Bulcha, Fandishe Abdurehman, Guluma Gemedo, Apagodu Moa, and Prof. Getahun Benti.

The authors are also very grateful to Dr. Charles Riley, Dr. Andrij Rovenchak, and Jason Glavy of Athinkra, LLC for contributing the "JG Oromo" font for Shaaldaa script and placing it under an Open Source license. The contributed font has been updated and used here under the name "Sheek Bakrii Saphaloo".

This project was made possible in part by a grant from the Mellon Foundation to the Script Encoding Initiative at the University of California, Berkeley.

An endorsement for the Unicode encoding of the Shaaldaa script from several Oromo scholars, represented by Dr. Mohammed Hassen, follows:

"Proposal for computer support to be extended to Shaykh Bakri's Oromo writing system"

The purpose behind this proposal is neither to superimpose Shaykh Bakri's writing system upon ***Qubee***, the widely used Latin alphabet-based Oromo writing system, nor upon ***Ge'ez***, the Ethiopic alphabet (writing system). On the contrary, it is to demonstrate that Shaykh Bakri's invention was an original writing system that was "...purpose built, in which all the major issues of Oromo phonology are properly provided for."¹ This original writing system, which appears to be more popular today than seven decades ago, deserves to be considered for getting support for computer use.

Shaykh Bakri (1895-1980) was scholar who devoted his long life to educating his people in the language they understood. However, before the Ethiopian revolution of 1974, the Oromo language was banned by a succession of imperial regimes, from being used for teaching, preaching, publishing or broadcasting services in Ethiopia. Up the 1970s, only a fraction of the Oromo in the region of Haraghe knew either the Amharic or Arabic languages. It was precisely for this reason that Shaykh Bakri attempted to produce teaching material in the language that his Oromo people understood. For that purpose, he experimented with using both Ethiopic (Ge'ez) and Arabic writing systems. Nevertheless, Shaykh Bakri quickly realized that neither the Ethiopic nor Arabic writing systems were suitable for writing in the Oromo language. In that regard "...Shaykh Bakri was the first Oromo who saw clearly the problems inherent in attempting to write the Oromo language by means of orthographic systems which had been devised primarily for other languages".²

The Ethiopic writing system has three major shortcomings, when used for writing in the Oromo language or any Cushitic language, such as Sidama or Somali. First, the Ethiopic writing system has only seven vowels, as opposed to ten vowels of the Oromo language. What is more, vowels of the Ethiopic writing system, "...do not have sound representation for the Oromo language"³. Second, there is a difference in consonants and glottal stops. Third, in the words of Andraejewski, the Ethiopic alphabet: "does not show the germination of consonants and is ill-fitted to represent the [Oromo] vowel sound."⁴ Additionally, the Ethiopic writing system fails to represent specific widely present Oromo consonants, particularly (dh, g, c, ch, ph, ny)⁵.

The problem with Arabic-written material in the Oromo language was that the Arabic writing system consists solely of consonants only; whereas the Oromo language has ten vowels. It was his realization of the above-mentioned factors, coupled with Shaykh Bakri's commitment that the Oromo language have its own writing system⁶, that most probably launched him on a decade-long journey that culminated in his invention of an alphabet in 1953 at one of his teaching centers known as Ligibo.⁷

Having developed the alphabet, [Shaykh Bakri] taught it to all his students and to others as well. To a limited extent people began to exchange letters in the new alphabet...In addition to letters, Shaykh Bakri himself employed his alphabet for writing his poems and other works.⁸

Seventy-one years after its invention, and forty-four years after the death of its inventor, Shaykh Bakri's script appears to be more popular among educated Oromo in eastern Ethiopia today than during his lifetime (see below).

This conclusion is confirmed by Dr. Nuraddin Aman, a researcher at the Institute of Ethiopian Studies, and educator at the Addis Ababa University in Ethiopia. He attended a major scholarly conference held on the campus of Dire Dawa University in November 2022. Among those who made presentations at that conference was a young graduate from Hadama University Institute of Technology, named Aneso Mohammed, who made his presentation on his new draft book written on Shaykh Bakri's script(see below on publication of that book).

Finally, I believe that supporting Shaykh Bakri's writing system on computers is an idea whose time has come. It was a thoughtfully designed writing system that has been used decades mainly for secret communications. However, it now appears that the writing system is not only viable but used openly to the extent that a young scholar, Aneso Mohammed, published his book in Addis Ababa, the Ethiopian capital in October 2023. The publication of this book received good media coverage. It may open a new chapter in the interest in Shaykh Bakri's script. This development most likely will encourage others to use that script. In short, there is interest in Shaykh Bakri's script, both in Ethiopia and among Diaspora Oromo scholars and others. From this perspective, if Shaykh Bakri's script is further developed, particularly if supported for computer use, it will open a new chapter in the scholarly analysis of that script itself, of the Oromo language and of an important indigenous initiative at overcoming state prohibition of expression by persons determined to keep their ancient language alive and, further, to develop it despite looming obstacles. Making the script available for computer access will encouraging scholarly productivity in the history of all these areas, Oromo writing,

linguistics, support for indigeneity and a more accurate history of the region where the language revival occurred.

Sincerely,



Mohammed Hassen

Endnotes

1. R.J. Hayward and Mohammed Hassen, 1981, "The Oromo Orthography of Shaykh Bakri Sapalo," *Bulletin of the School of Oriental and African Studies, (University of London, Volume XLIV, part 3)*: 553.
2. *Ibid.*
3. Feyisa Densie, "Special Features in Oromiffa and Reasons for Adopting Latin Script for Developing Oromo Orthography," *The Journal of Oromo Studies*, Volume 2, Numbers 1 and 2 (1995): 25.
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5. Mahadi Haamid Mudee, *Oromo Dictionary, Volume 1, English-Oromo* (Atlanta: Sagalee Oromoo Publishing Co., Inc. 1995) : xix.
6. Hayward & Hassen, 553
7. Aliyi Khalifa, 2000, "The Life and Career of Sheik Bakrii Saphalo (1895-1980)" B.A. Thesis, Addis Ababa University: 24.
8. Hayward & Hassen, 553.

IX Additional Figures/Images:

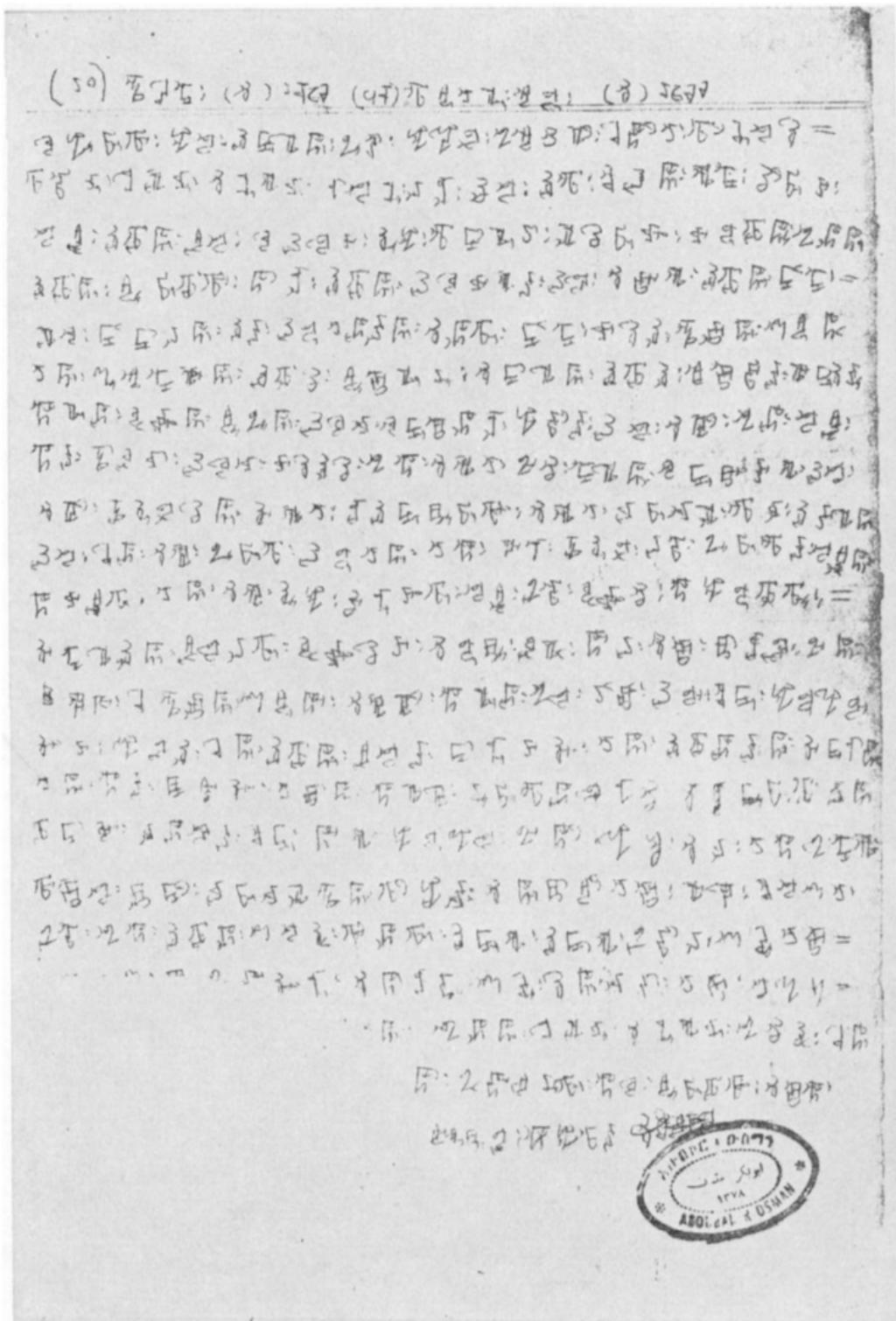


Plate I. A letter by Sheikh Bakri Sapalo, labeled as Plate I from Hayward and Hassen 1981. From ١٣٧٨ Hijri Calendar (1958 or 1959 Gregorian Calendar); dated in the stamp on the bottom-right.

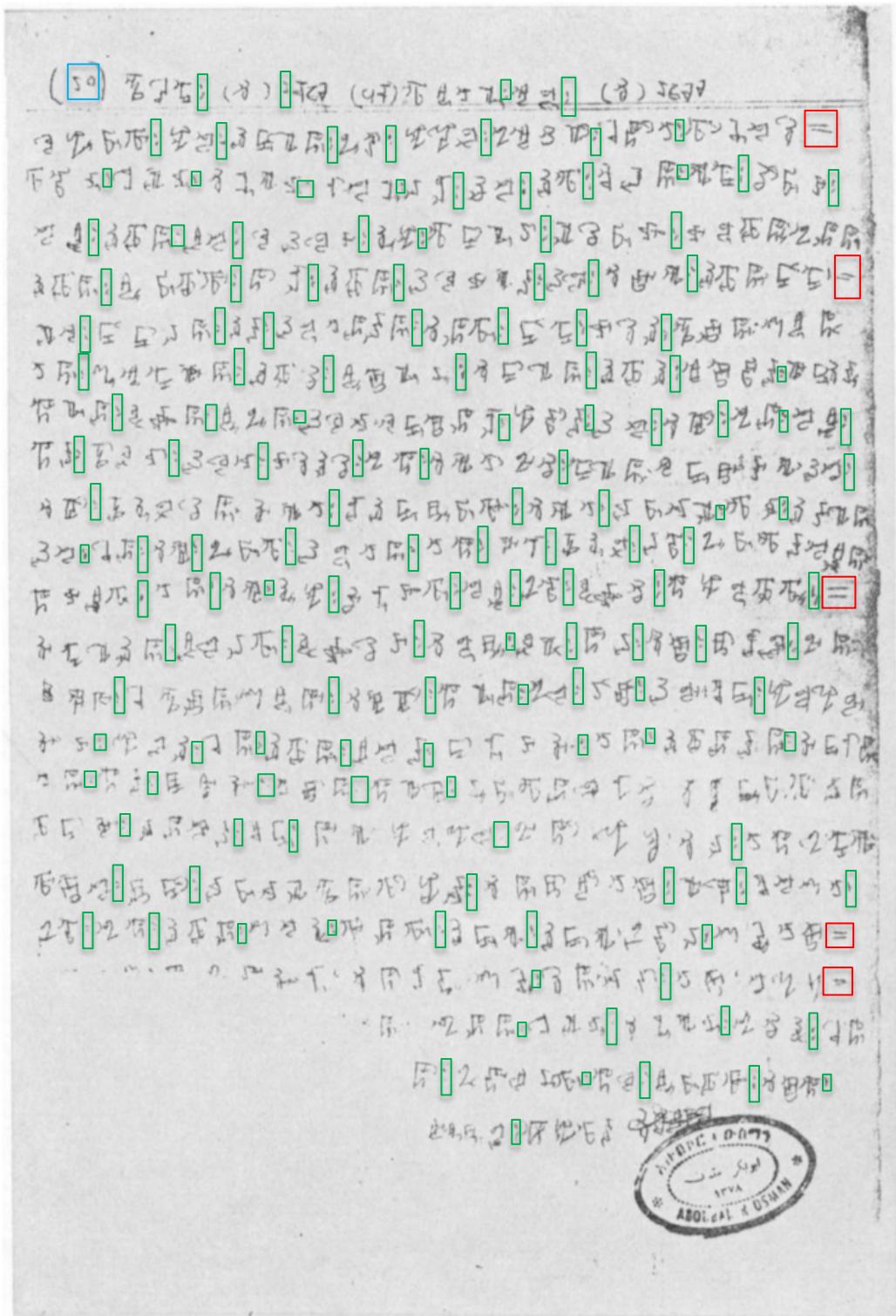


Plate I.1 (edited) Green boxes highlight some of the script-specific word-separator (many more in the Plate). Red boxes highlight some of the script-specific full-stop. The blue box highlights script-specific numerals.

FIG. 1

Figure 1. Table of Shaaldaa script created by Hayward and Hassen 1981. Column I is the 'base glyph'; Column II-VI are consonant+short vowel syllable graphemes; Column VII-XI are consonant+long-vowel syllable graphemes; Column XII represents the 'base glyph' for geminated consonants (which will have 5 short vowel, 5 long vowel, and 1 pure consonant counterpart); Column XIII represents a simple consonant without an inherent vowel.

13-3-67

① զբարք 28 եական = ոճական
աքցութեան ական = բարքական

أصل الحروف

3 2 3 5 3 2 4

g E b E E fl E

π φ γ η ε τ

② 13996: 10290 = 1.407 = 1099871,570000

المحركات
المحركات الاصليه وهي
المحركات القصار

(kh)

FIG. 2

Figure 2. Matrix from Hayward and Hassen 1981.

المعنى حال كونها مكتوبة بالحركات التابعة
وهي الحركات الفعل

3) $109 \times 11 \times 17 = 256 \times 109917 =$
 $69.107 = 874017$

FIG. 3

Figure 3. Matrix from Hayward and Hassen 1981.

<p>(4) الحروف حال کونجا: ۰۱۲۳۴۵۶۷۸۹۰ = ۲۱۶</p> <p>کونجا مثلاً: ۰۱۲۳۴۵۶۷۸۹۰</p> <p>۰ ۱ ۲ ۳ ۴ ۵ ۶ ۷ ۸ ۹</p> <p>۰ ۵ ۴ ۷ ۸ ۶ ۲ ۳ ۰ ۲</p> <p>۰ ۳ ۲ ۷ ۸ ۴ ۵ ۶ ۷ ۹</p>	<p>(5) الحروف حال کونجا: ۰۱۲۳۴۵۶۷۸۹۰ = ۶۸۸</p> <p>کونجا مثلاً: ۰۱۲۳۴۵۶۷۸۹۰</p> <p>۰ ۱ ۲ ۳ ۴ ۵ ۶ ۷ ۸ ۹</p> <p>۰ ۶ ۵ ۴ ۷ ۸ ۳ ۲ ۰ ۶</p> <p>۰ ۴ ۳ ۶ ۷ ۸ ۵ ۲ ۰ ۴</p> <p>۰ ۳ ۲ ۷ ۸ ۴ ۵ ۶ ۷ ۹</p>
---	--

⑦ پرداخت رفته:

۰	۱	۲	۳	۴	۵	۶	۷	۸	۹
۰	۵	۴	۷	۸	۶	۲	۳	۰	۲

FIG. 4

Figure 4. From Hayward and Hassen 1981. Blue box highlights script-specific numerals.

FIG. 5

Figure 5. Oromo-Amharic bilingual text; from Hayward and Hassen 1981.

Ethiop. glyph	Afaan Oromo	Base glyph	a	u	i	e	o	aa	uu	ii	ee	oo	/C/
አ	'	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
እ	'	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
በ	b	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
በ	bb	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
ጀ	j	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
ጀ	jj	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
ጀ	d	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
ጀ	dd	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
ሀ	h	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
ሀ	hh	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
ወ	w	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
ወ	ww	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
ዘ	z	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
ዘ	zz	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
ሀ	h ¹	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
ሀ	hh ¹	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
ወ	x	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
ወ	xx	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
የ	y	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
የ	yy	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
ክ	k	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
ክ	kk	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
ለ	l	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
ለ	ll	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
ሙ	m	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
ሙ	mm	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
ኅ	n	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
ኅ	nn	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
ሸ	s	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
ሸ	ss	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
ሶ	f	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
ሶ	ff	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
ሶ	s	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩

Figure 6. Table 4.2 from page 67 of “African Writing Systems of the Modern Age: The Sub-Saharan Region” by Andrij Rovenchak and Jason Glavy. Showcases vocalized and standalone consonant forms of geminated base glyphs.

Ethiop. glyph	Afaan Oromo	Base glyph	a	u	i	e	o	aa	uu	ii	ee	oo	/C/
ss	ss	ሱ	ሱ	ሱ	ሱ	ሱ	ሱ	ሱ	ሱ	ሱ	ሱ	ሱ	ሱ
q	q	ሣ	ሣ	ሣ	ሣ	ሣ	ሣ	ሣ	ሣ	ሣ	ሣ	ሣ	ሣ
qq	qq	ሣ	ሣ	ሣ	ሣ	ሣ	ሣ	ሣ	ሣ	ሣ	ሣ	ሣ	ሣ
r	r	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ
rr	rr	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ
sh	sh	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ
sh*	sh*	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ
t	t	ጥ	ጥ	ጥ	ጥ	ጥ	ጥ	ጥ	ጥ	ጥ	ጥ	ጥ	ጥ
tt	tt	ጥ	ጥ	ጥ	ጥ	ጥ	ጥ	ጥ	ጥ	ጥ	ጥ	ጥ	ጥ
k ²	k ²	ቁ	ቁ	ቁ	ቁ	ቁ	ቁ	ቁ	ቁ	ቁ	ቁ	ቁ	ቁ
kk ²	kk ²	ቁ	ቁ	ቁ	ቁ	ቁ	ቁ	ቁ	ቁ	ቁ	ቁ	ቁ	ቁ
dh	dh	ቃ	ቃ	ቃ	ቃ	ቃ	ቃ	ቃ	ቃ	ቃ	ቃ	ቃ	ቃ
dh*	dh*	ቃ	ቃ	ቃ	ቃ	ቃ	ቃ	ቃ	ቃ	ቃ	ቃ	ቃ	ቃ
g	g	ጂ	ጂ	ጂ	ጂ	ጂ	ጂ	ጂ	ጂ	ጂ	ጂ	ጂ	ጂ
gg	gg	ጂ	ጂ	ጂ	ጂ	ጂ	ጂ	ጂ	ጂ	ጂ	ጂ	ጂ	ጂ
ch	ch	ጂ	ጂ	ጂ	ጂ	ጂ	ጂ	ጂ	ጂ	ጂ	ጂ	ጂ	ጂ
ch*	ch*	ጂ	ጂ	ጂ	ጂ	ጂ	ጂ	ጂ	ጂ	ጂ	ጂ	ጂ	ጂ
ny	ny	ኝ	ኝ	ኝ	ኝ	ኝ	ኝ	ኝ	ኝ	ኝ	ኝ	ኝ	ኝ
ny*	ny*	ኝ	ኝ	ኝ	ኝ	ኝ	ኝ	ኝ	ኝ	ኝ	ኝ	ኝ	ኝ
c	c	ቂ	ቂ	ቂ	ቂ	ቂ	ቂ	ቂ	ቂ	ቂ	ቂ	ቂ	ቂ
cc	cc	ቂ	ቂ	ቂ	ቂ	ቂ	ቂ	ቂ	ቂ	ቂ	ቂ	ቂ	ቂ
ph	ph	ፃ	ፃ	ፃ	ፃ	ፃ	ፃ	ፃ	ፃ	ፃ	ፃ	ፃ	ፃ
ph*	ph*	ፃ	ፃ	ፃ	ፃ	ፃ	ፃ	ፃ	ፃ	ፃ	ፃ	ፃ	ፃ
o ³	o ³	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ
o ³	o ³	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ
p	p	ጥ	ጥ	ጥ	ጥ	ጥ	ጥ	ጥ	ጥ	ጥ	ጥ	ጥ	ጥ
pp	pp	ጥ	ጥ	ጥ	ጥ	ጥ	ጥ	ጥ	ጥ	ጥ	ጥ	ጥ	ጥ
v	v	ቂ	ቂ	ቂ	ቂ	ቂ	ቂ	ቂ	ቂ	ቂ	ቂ	ቂ	ቂ
vv	vv	ቂ	ቂ	ቂ	ቂ	ቂ	ቂ	ቂ	ቂ	ቂ	ቂ	ቂ	ቂ
zh	zh	ቃ	ቃ	ቃ	ቃ	ቃ	ቃ	ቃ	ቃ	ቃ	ቃ	ቃ	ቃ
zh*	zh*	ቃ	ቃ	ቃ	ቃ	ቃ	ቃ	ቃ	ቃ	ቃ	ቃ	ቃ	ቃ
s ⁴	s ⁴	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ
ss ⁴	ss ⁴	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ	ሮ

Figure 7. Table 4.2 (continued) from page 68 of “African Writing Systems of the Modern Age: The Sub-Saharan Region” by Andrij Rovenchak and Jason Glavy. Showcases vocalized and standalone consonant forms of geminated base glyphs.



Figure 8. A young chemist named Aneso Mohammed teaching the Shaaldaa script to a full classroom of students in Dire Dawa, Ethiopia, 2023. Ethiopian Calendar date is present in the top left of the chalkboard.



Figure 9. Students of Aneso Mohammed learning the Shaaldaa script in Dire Dawa, Ethiopia, 2023.

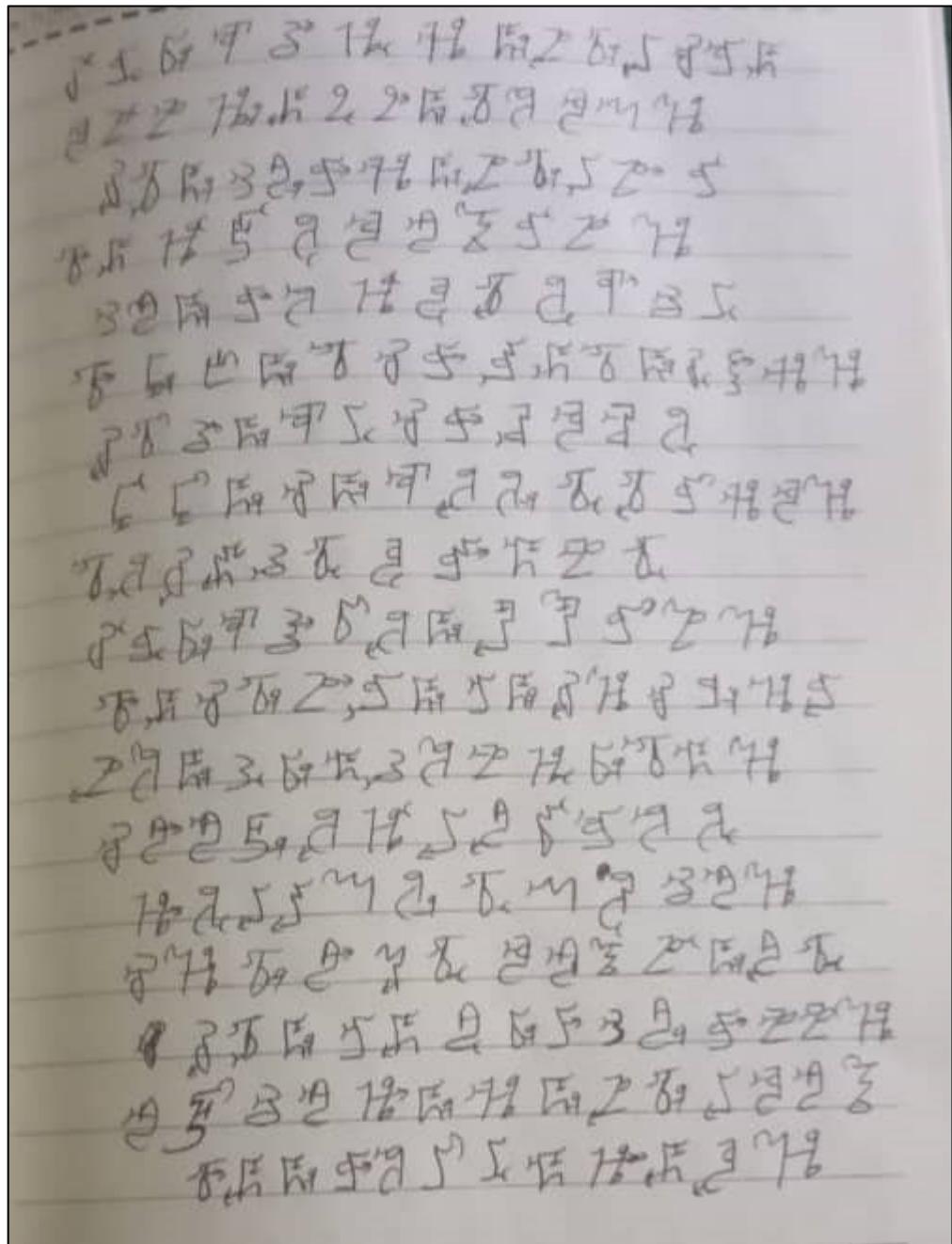


Figure 10. Modern day writing of the Shaaldaa script by one of Sheikh Bakri's students.

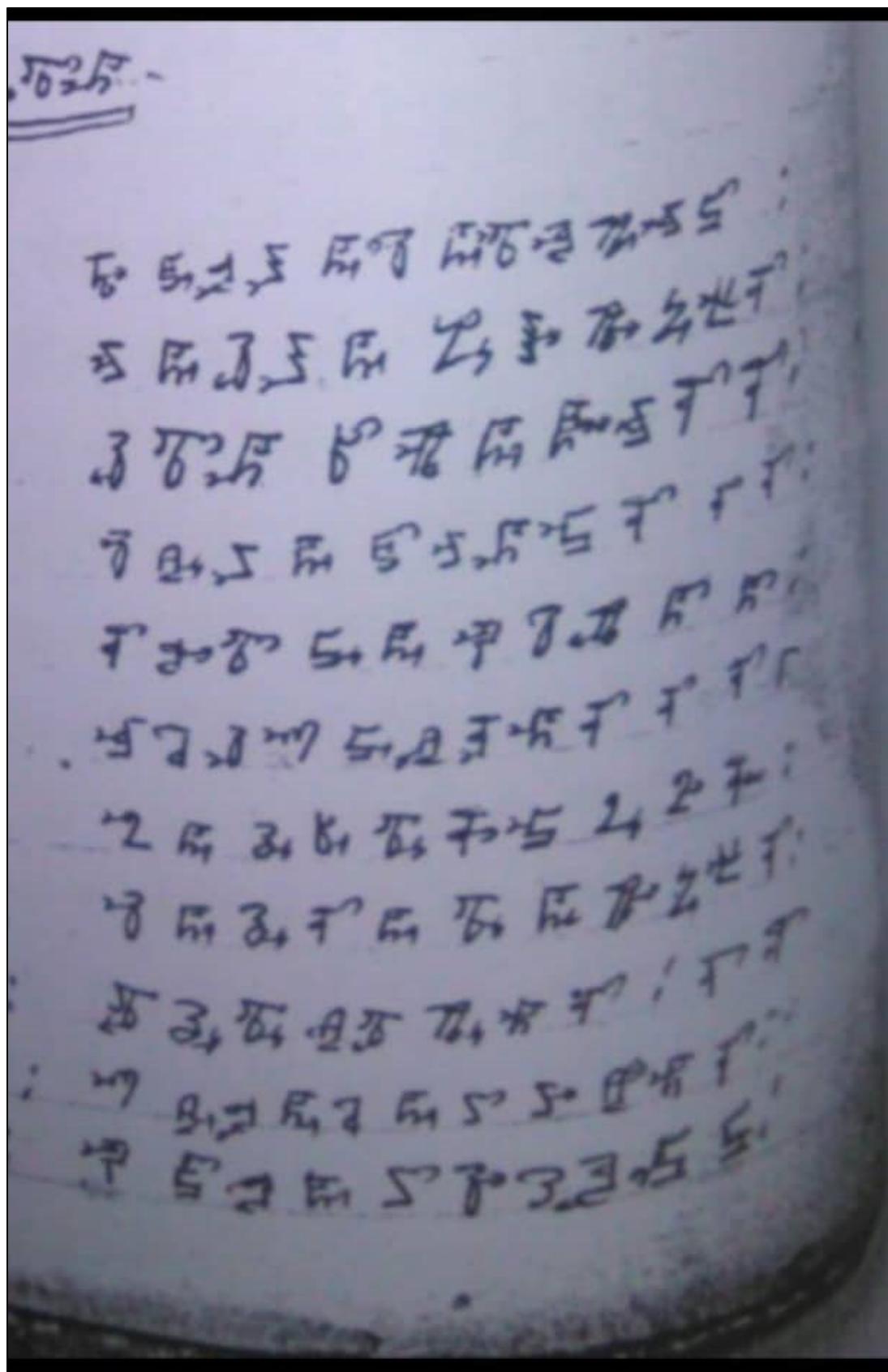


Figure 11. Excerpt of Sheikh Bakri Sapalo's handwriting.

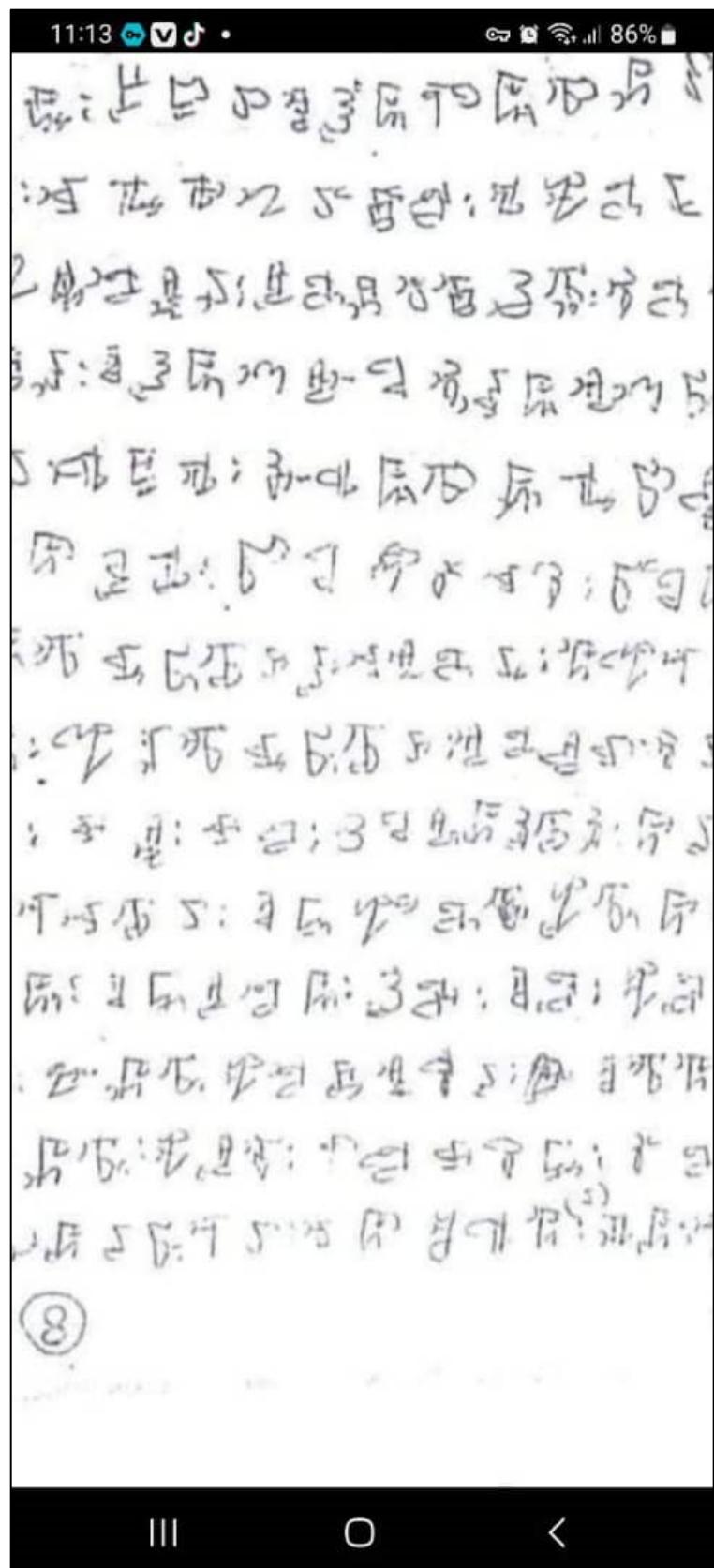


Figure 12. Excerpt of Sheikh Bakri Sapalo's handwriting.

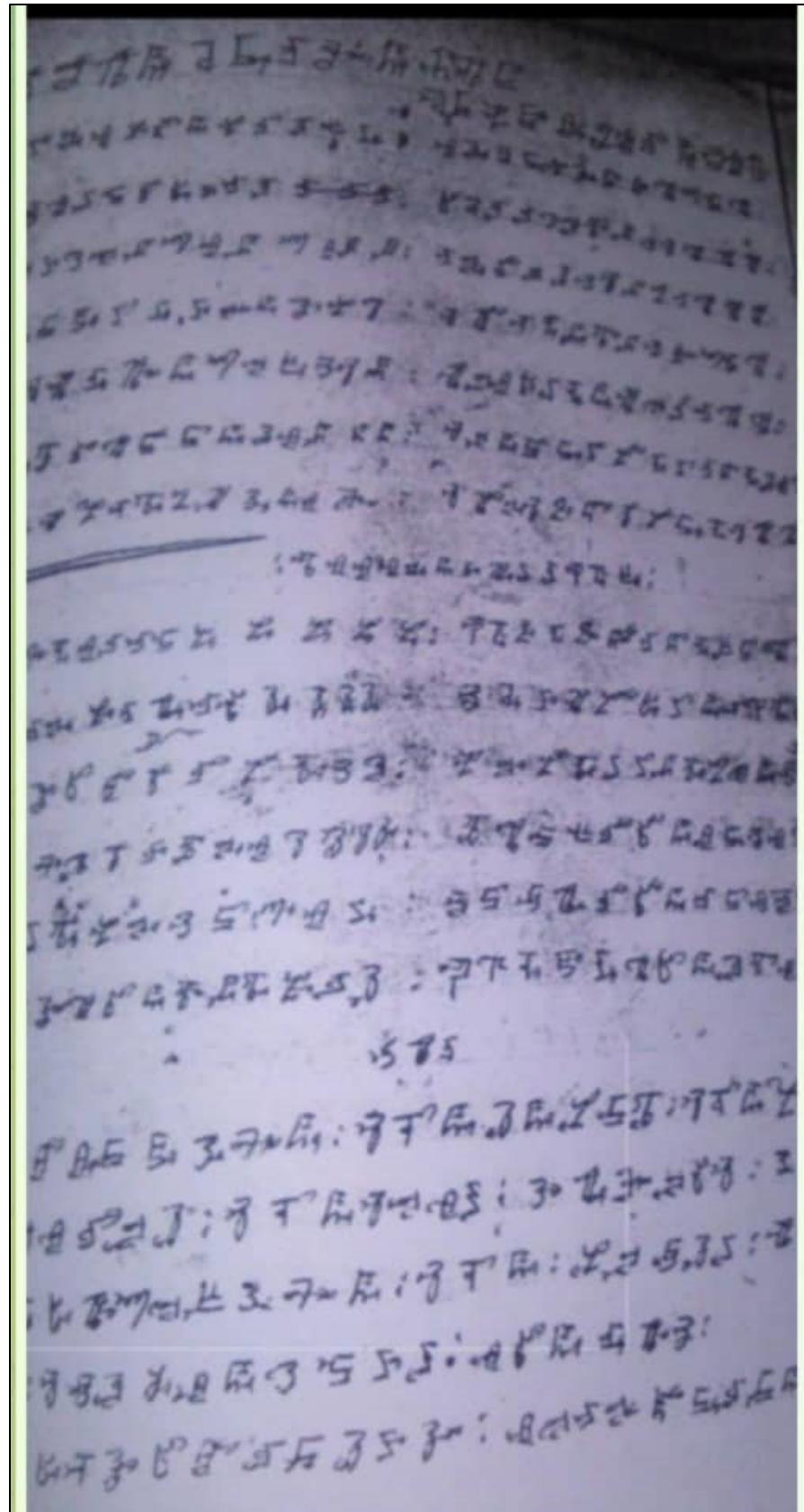


Figure 13. Excerpt of Sheikh Bakri Sapalo's handwriting.



Figure 14. Chemist Aneso Mohammed in front of a Shaaldaa teaching table.



Figure 15. Shaaldaa script teaching table. Letters displayed are the base glyphs as they have been used when teaching the script. The following base glyphs are missing from the above teaching table because they are used for foreign sounds. However, these letters are learned later.

IPA	Shaaldaa script Base Glyph
č	ڇ
p	ڦ
v/β	ڻ
ʒ	ڻ
ts'	ڻ

Table 5. Shaaldaa graphemes used for non-native phonemes.

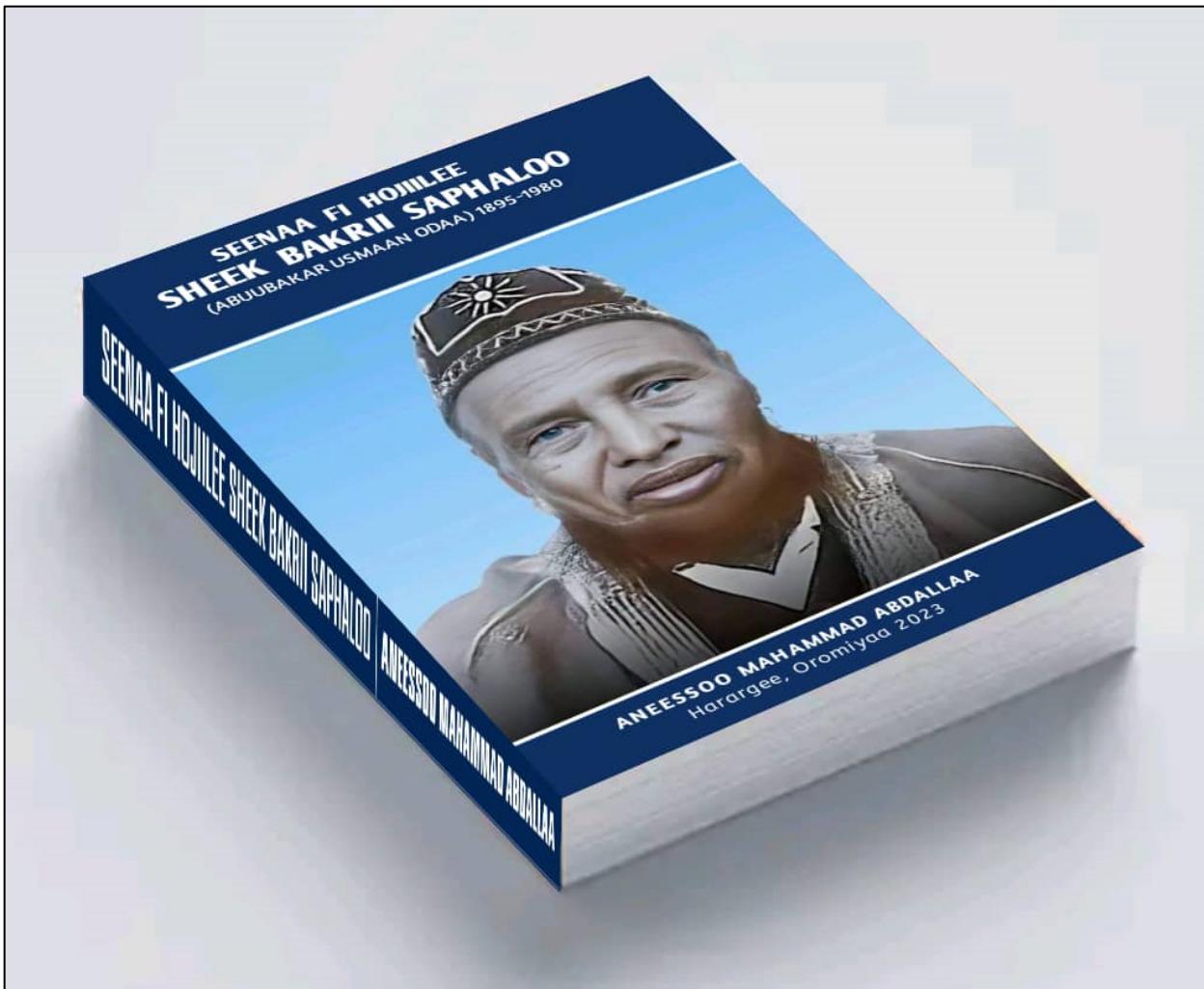


Figure 16. A book by Aneso Mohammed with a translated title of "*History and Works of Sheikh Bakri Sapalo*" published late 2023/early 2024 (Gregorian Calendar). Written in Oromo with the Latin-based Oromo orthography (Qubee).



Figure 17. Debut event of Aneso Mohammed's book on Sheikh Bakri Sapalo and the latter's script – late 2023/early 2024.



Figure 18. Debut event of Aneso Mohammed's book on Sheikh Bakri Sapalo and the latter's script – late 2023/early 2024.

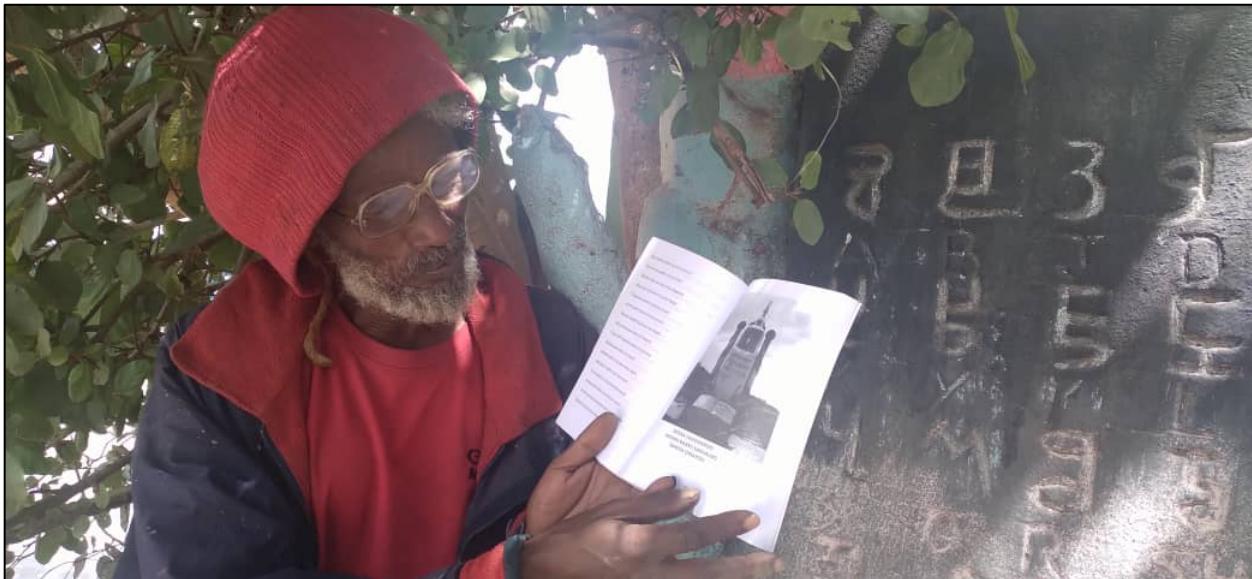


Figure 19. Reader of Aneso Mohammed's book on Sheikh Bakri Sapalo. Engraving of the Shaaldaa script in the background.

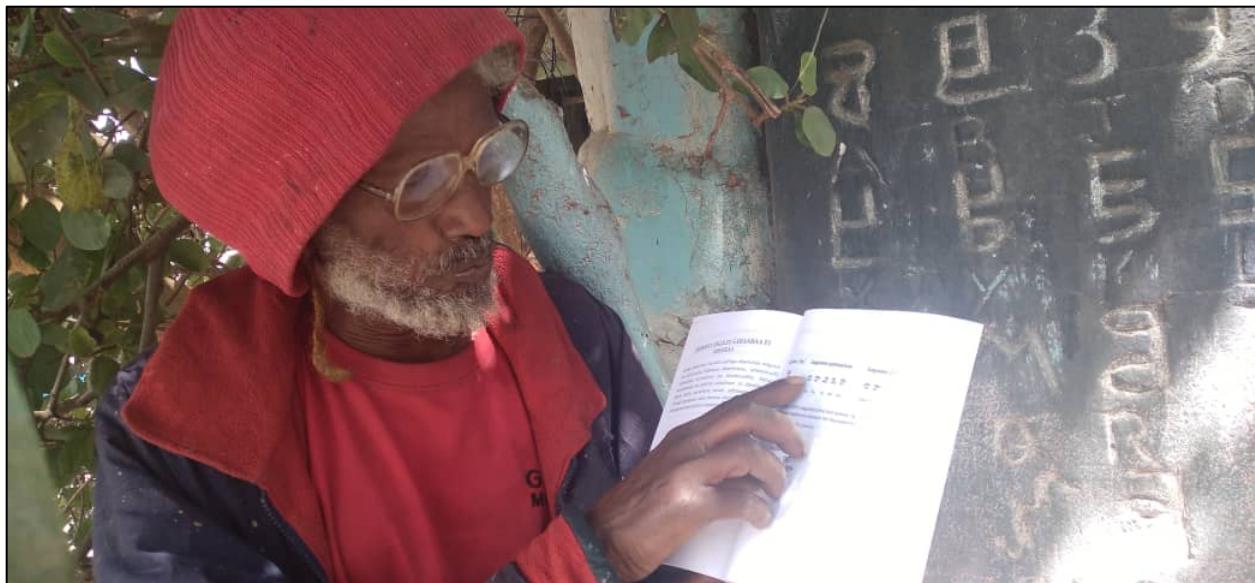


Figure 20. Reader of Aneso Mohammed's book on Sheikh Bakri Sapalo. Engraving of the Shaaldaa script in the background.

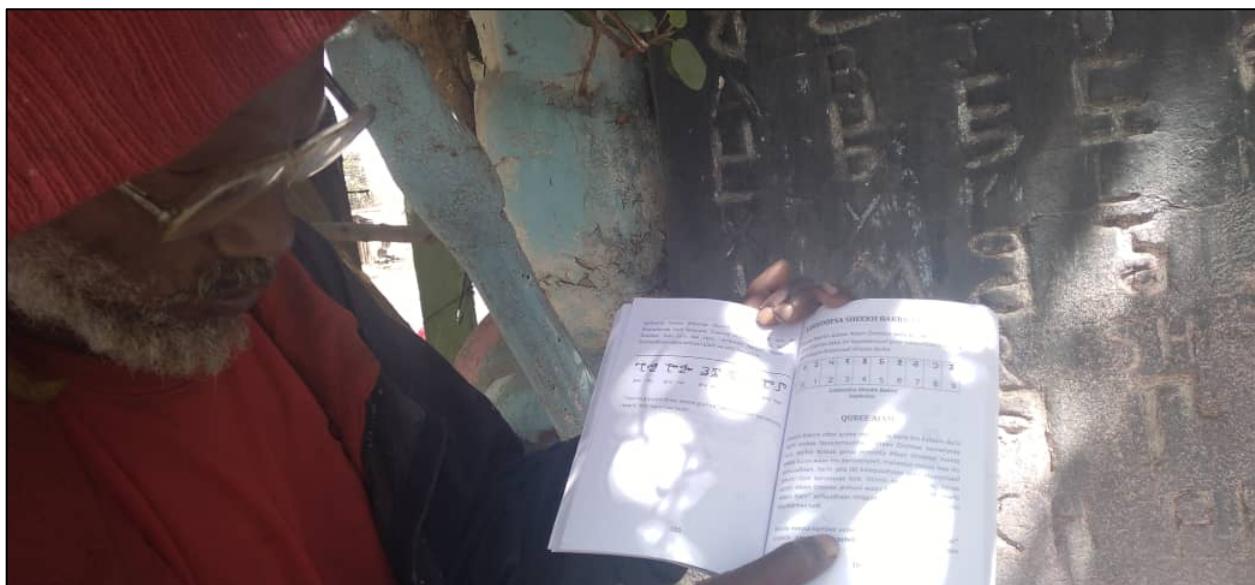


Figure 21. Reader of Aneso Mohammed's book on Sheikh Bakri Sapalo. Engraving of the Shaaldaa script in the background.



Figure 22. Engraving of the Shaaldaa script.

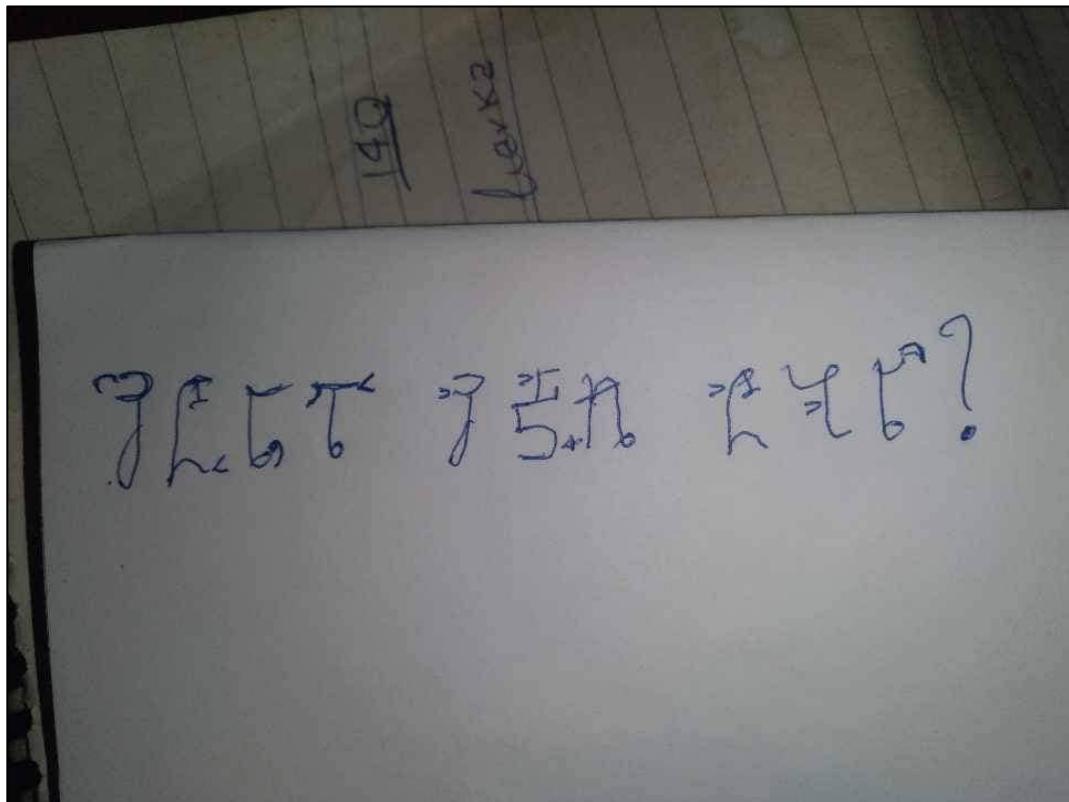


Figure 23. Handwritten note in the Shaaldaa script from Dire Dawa.

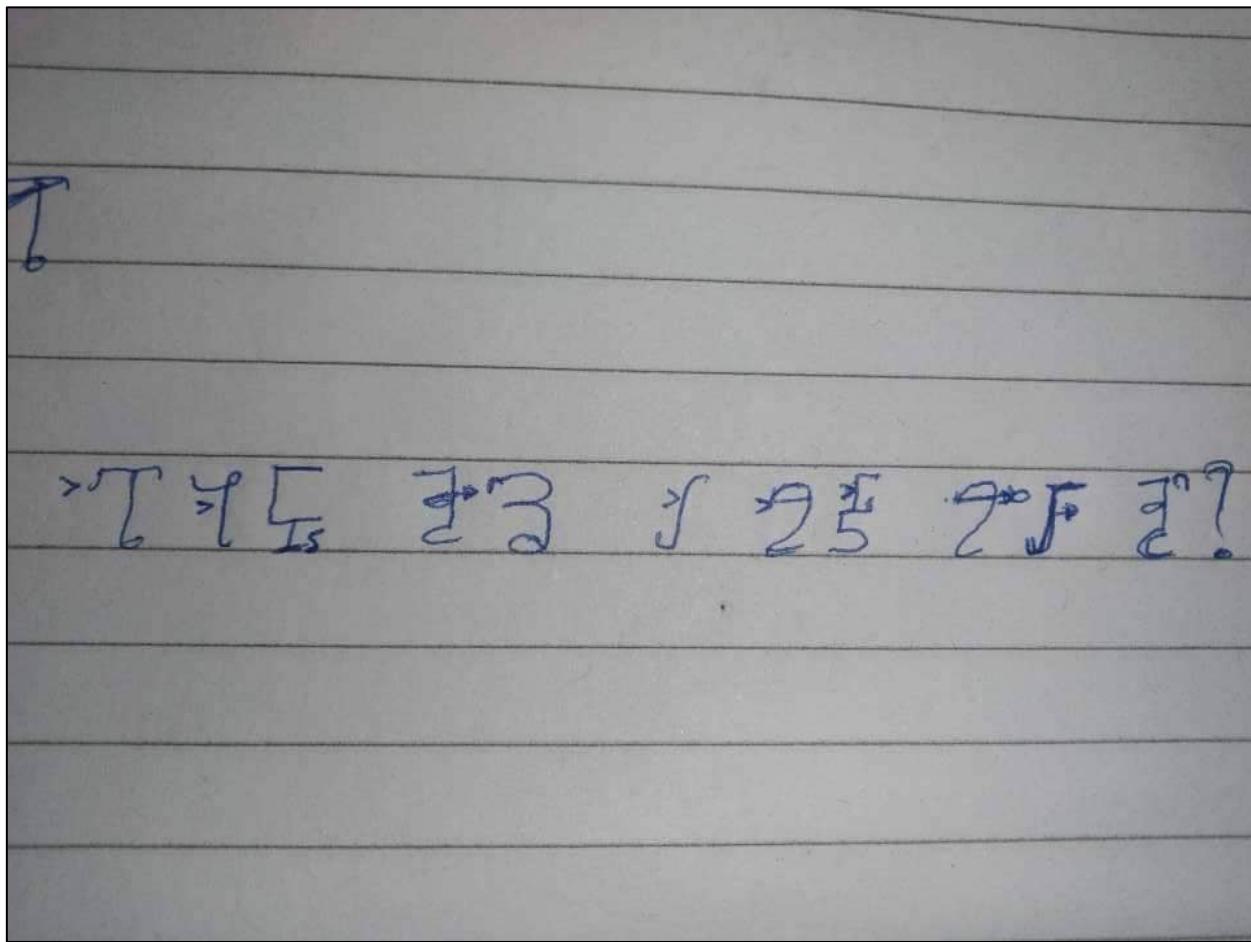


Figure 24. Handwritten note in the Shaaldaa script from Dire Dawa.

ኋይ ነ ችግርና ንዑስት ሚስቴሪያል

(ማንነፍት በኋይና ጥና) 50% – 52%

አንድ ሙሉ ጥናዎች ለባድ ጥናዎችና
ወንበር ልቃ ለኋይ ማሬ ለማንነፍት በኋይና
ጥና (ኋይና ሚስቴሪያል ጥና) እና ገና::
ኋይና ሚስቴሪያ ለተኞችሁ ማሬ ለ
ለንጻ ለኋይ ሚስቴሪያ ተመክና ማጥና
50% ለክፍ ደኩልና ለፋይና ለ
አንድ ጥና በኋይና ጥና የኋይ ማሬ ለ
ጥና ለፋይና ለፋይና ለፋይና ለፋይና::
ኋይና ሚስቴሪያ ላይና ላይና ለፋይና
አንድ ለፋይና ለፋይና ለፋይና ለፋይና
አንድ ለፋይና ለፋይና ለፋይና 50% ለፋይና
አንድ ለፋይና ለፋይና ለፋይና ለፋይና::

Barreessaan: Aneessoo Mahammad(ማኅና ላይና)

Figure 25. Oromo excerpt typed in the Shaaldaa script with a font. The user accidentally used 2 word separators to make a full stop similar the Ethiopic :: (U+1362). This does not mean a second full stop should be encoded into the Shaaldaa block, rather it reflects the user community's exposure to the dominant script in the region. Blue boxes highlight use of the script-specific numerals.

ይኝ ዓይነ አማርኛ
ቻኝኩ ቻኝኩኩ
ሸኝኩኩ ዓይነ
ንግድ ጥኝኩኩ
ኩ

Figure 26. Oromo excerpt typed in the Shaaldaa script with a font.



Figure 27. Another independent group being educated in the Shaaldaa script.

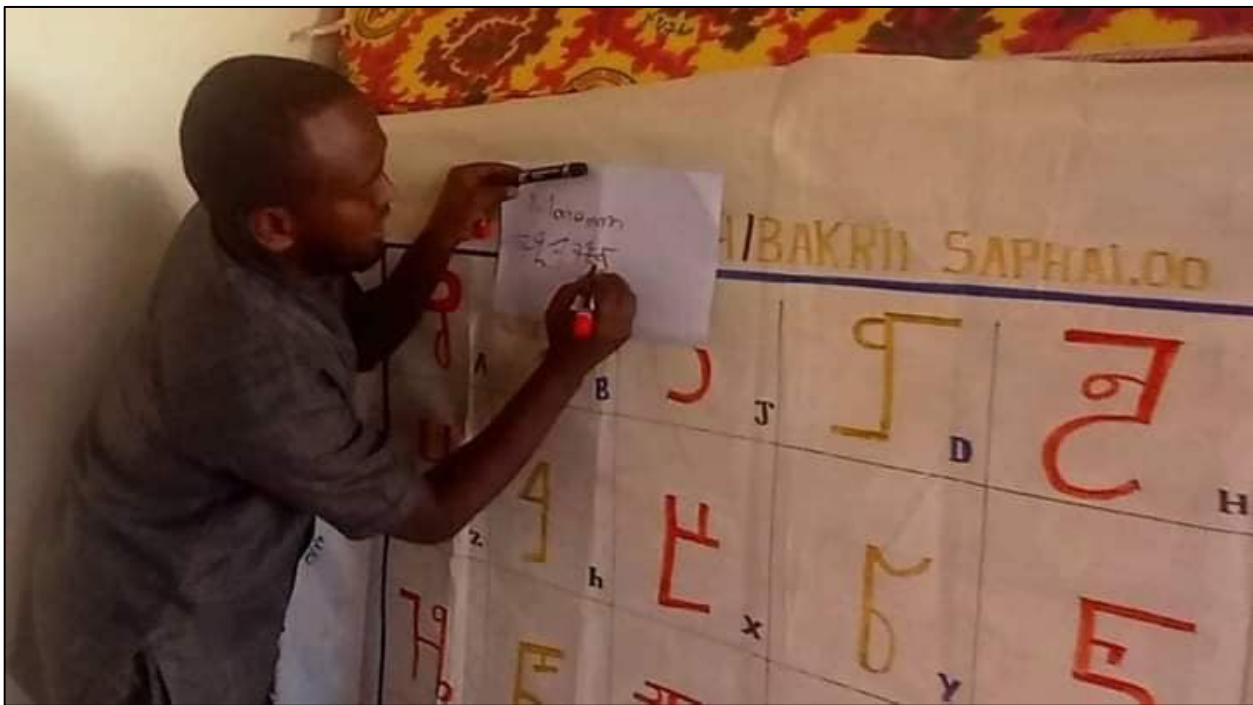


Figure 28. Another independent group being educated in the Shaaldaa script.



Figure 29. The Shaaldaa script being discussed on “*Dire Today*” news. See Reference 4, Section VII.

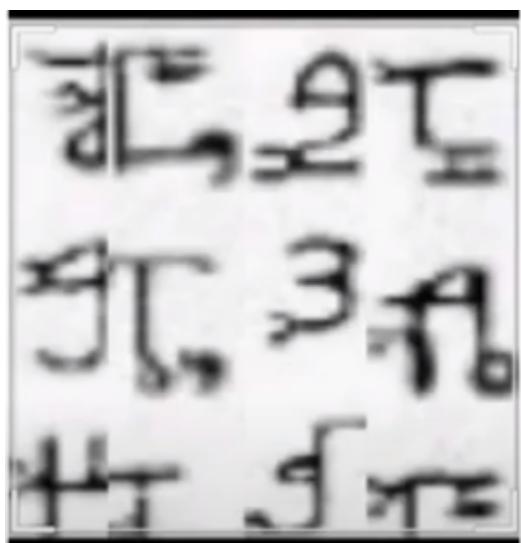


Figure 30. Shaaldaa script shown in a video on “*Dire Today*” about the script. See Reference 5, Section VII.

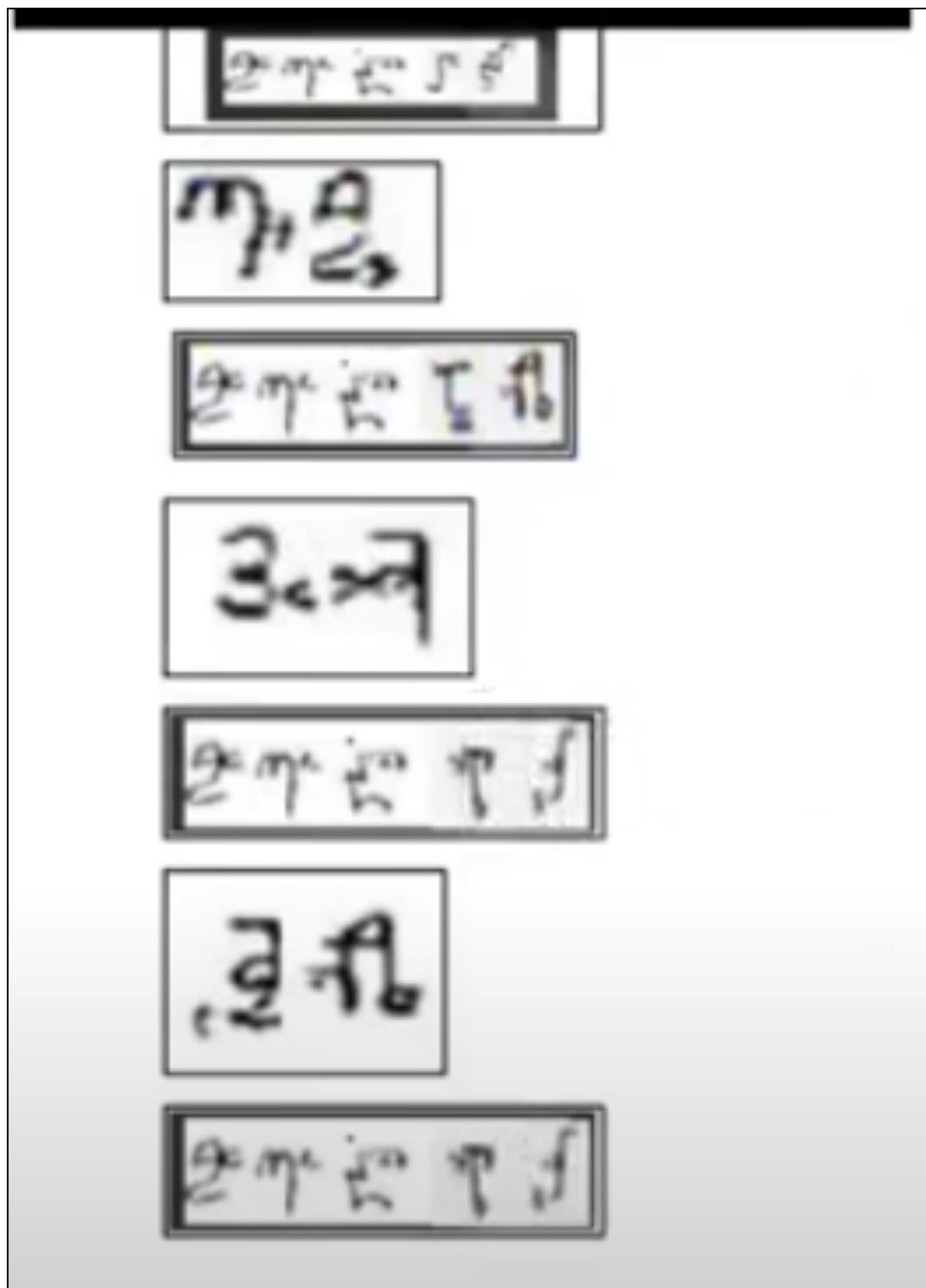


Figure 31. Shaaldaa script shown in a video on “*Dire Today*” about the script. See Reference 5, Section VII.

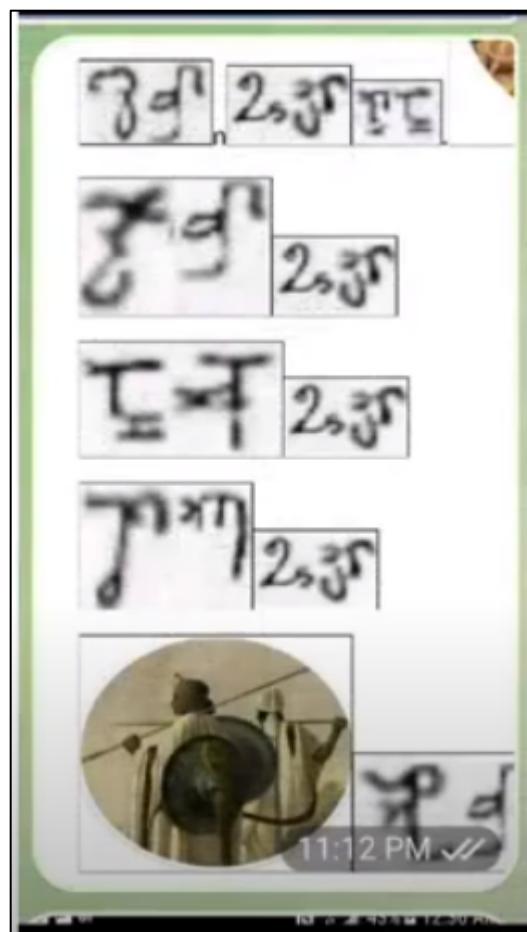


Figure 32. Various Oromo words in the Shaaldaa script shown in a video on “*Dire Today*” about the script. See Reference 5, Section VII.

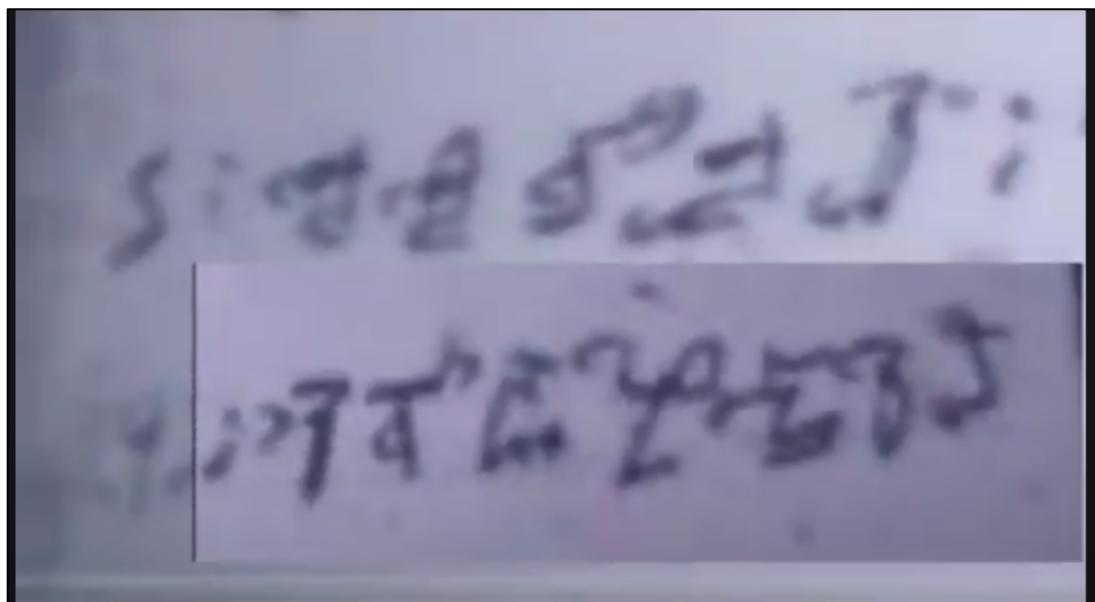


Figure 33. Shaaldaa script shown in a video on “*Dire Today*” about the script. See Reference 5, Section VII. Appears to be from one of Sheikh Bakri’s manuscripts.



Figure 34. The word “**ڳالا**” (Latin transliteration: “gaala”; IPA: /ga:le/; translation: “camel”) in the Shaaldaa script alongside a picture of a camel, shown in a video on “*Dire Today*” about the script. See Reference 5, Section VII. An attempt to create digital educational content in the script.

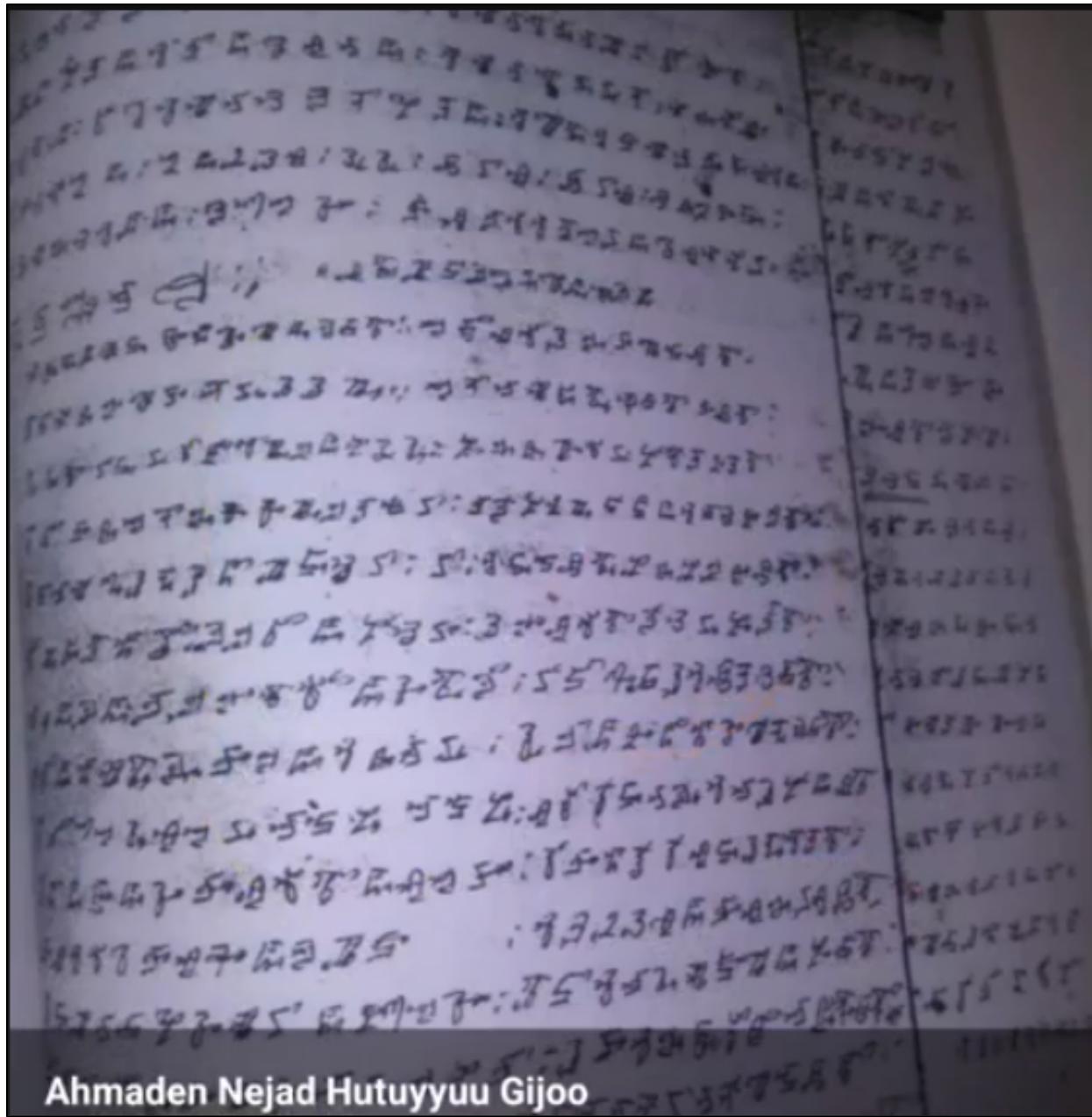


Figure 35. Shaaldaa script shown in a video on “*Dire Today*” about the script. See Reference 5, Section VII. Appears to be from one of Sheikh Bakri’s manuscripts.

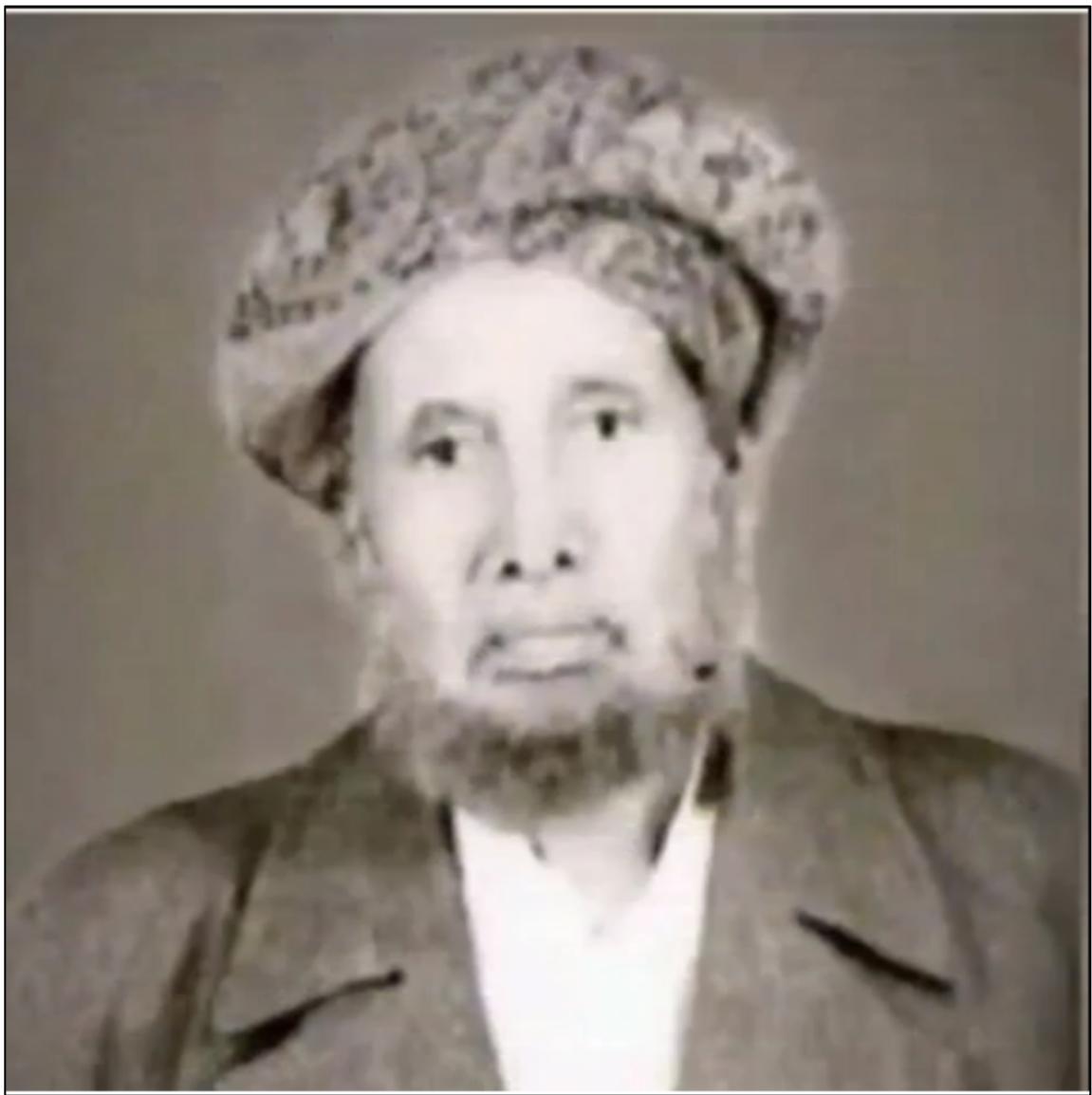


Figure 36. A picture of Sheikh Bakri Sapalo shown in a video on “*Dire Today*” about the script. See Reference 5, Section VII.

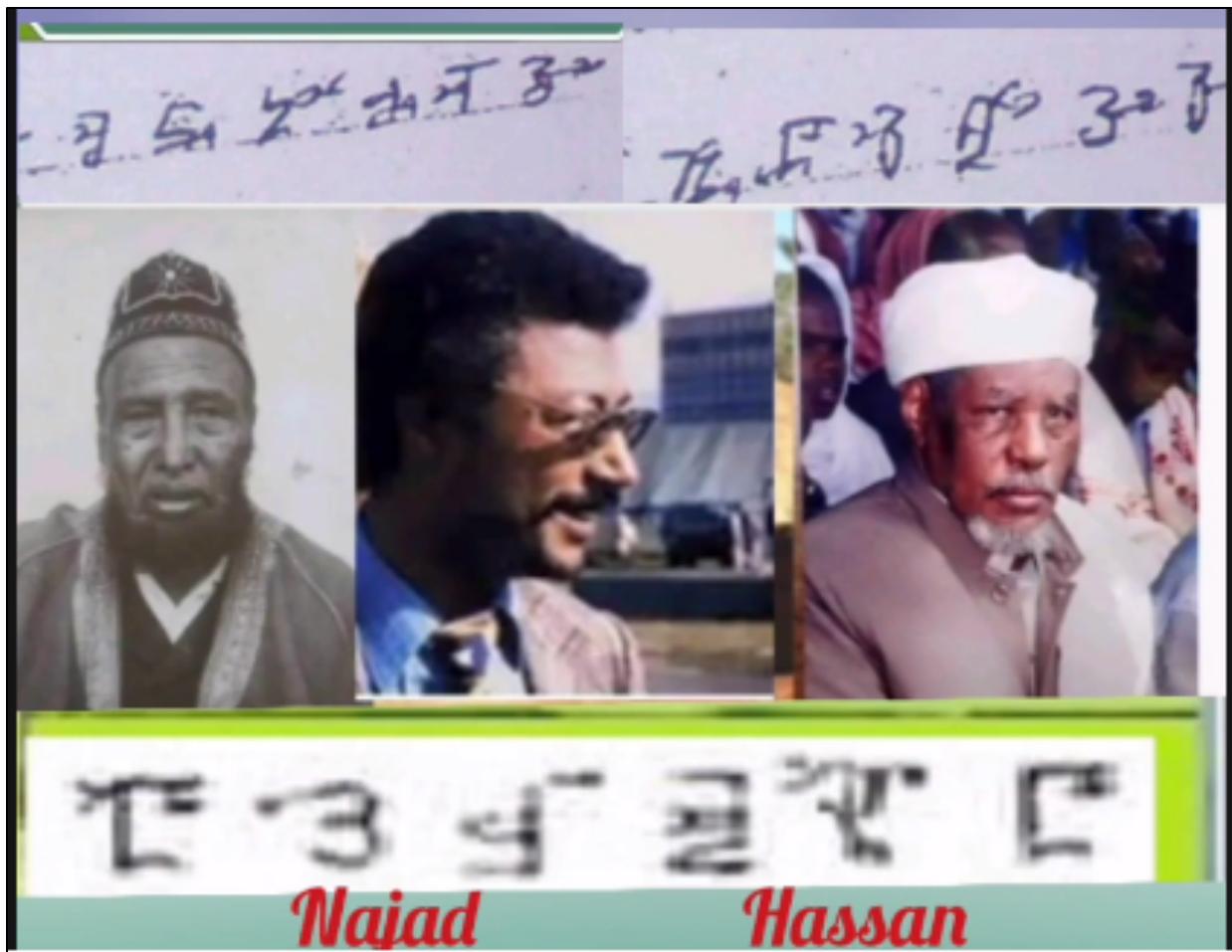


Figure 37. 3 handwritten instances of the script alongside images of Sheikh Bakri Sapalo (left) and 2 others (center and right) shown in a debate video about scripts on “*Dire Today*”. See Reference 6, Section VII.



Figure 38. Street interview about the Shaaaldaa script and it's creator, with another teaching chart to the left, on “*Dire Today*”. See Reference 7, Section VII.

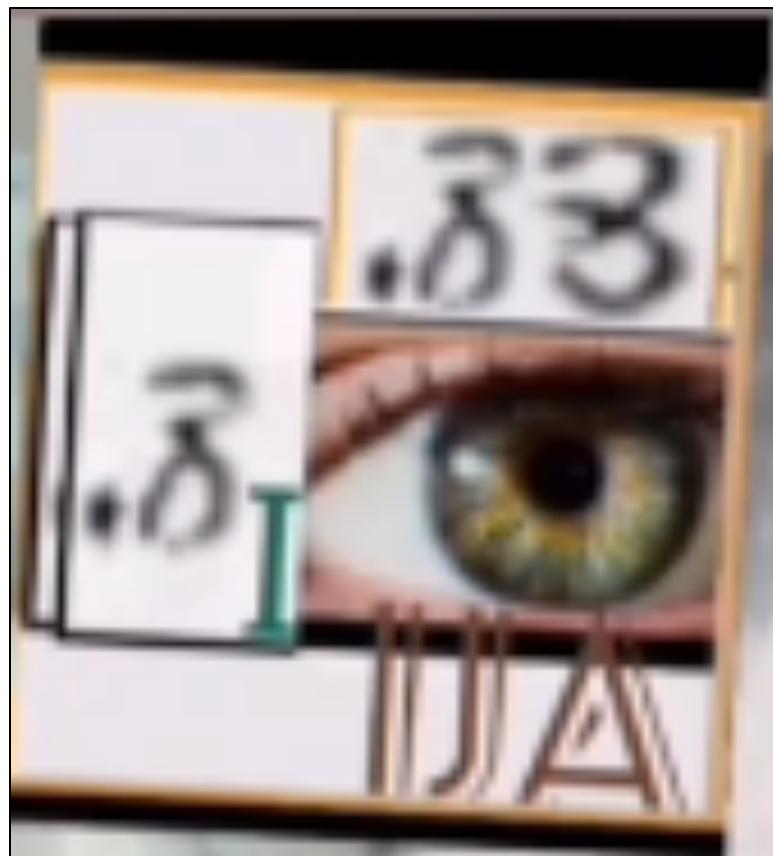


Figure 39. The word “**ija**” (*Latin transliteration: “ija”; IPA: /iʃe/; translation: “eye”*) in the Shaaldaa script alongside a picture of an eye, shown in a video on “*Dire Today*” about the Sheikh Bakri and the script. See Reference 7, Section VII. Another attempt to create digital educational content in the script.



Figure 40. A Shaaldaa script font showcased in a video on “*Dire Today*”.

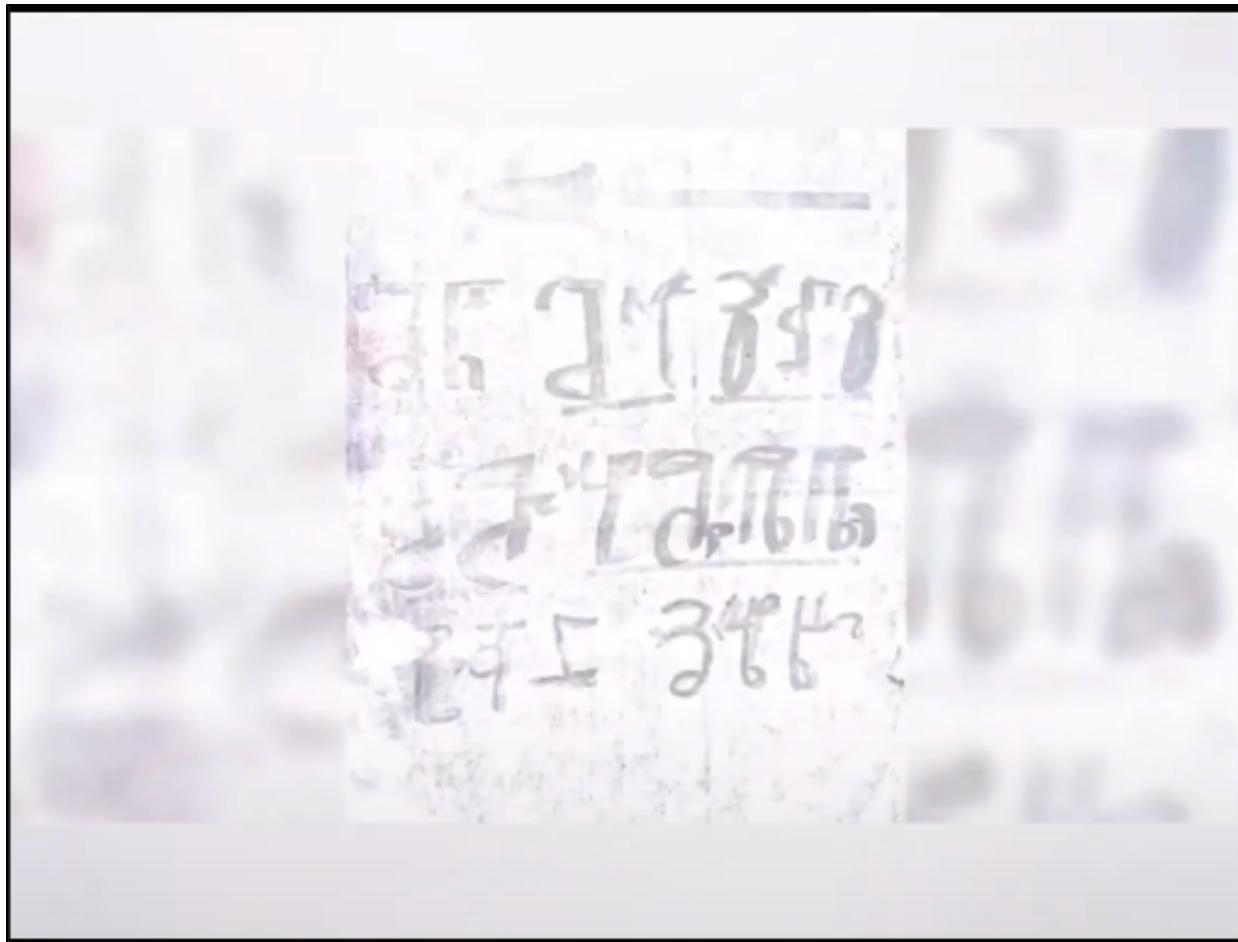


Figure 41. Handwritten material in the Shaaldaa script. See Reference 7, Section VII.



Figure 42. An inscribed monument dedicated to the Shaaldaa script in the village of Saphaloo.



Figure 43. Shaaldaa script numerals inscribed on the script monument in Figure 42. The colon-like inscription (:) with a red arrow pointing to it has been explained to the authors as the result of erosion and does not represent a writing element. Unfortunately, the appearance of “:0” has led some members of the user community to believe that this is prescribed way of writing the value “10”.

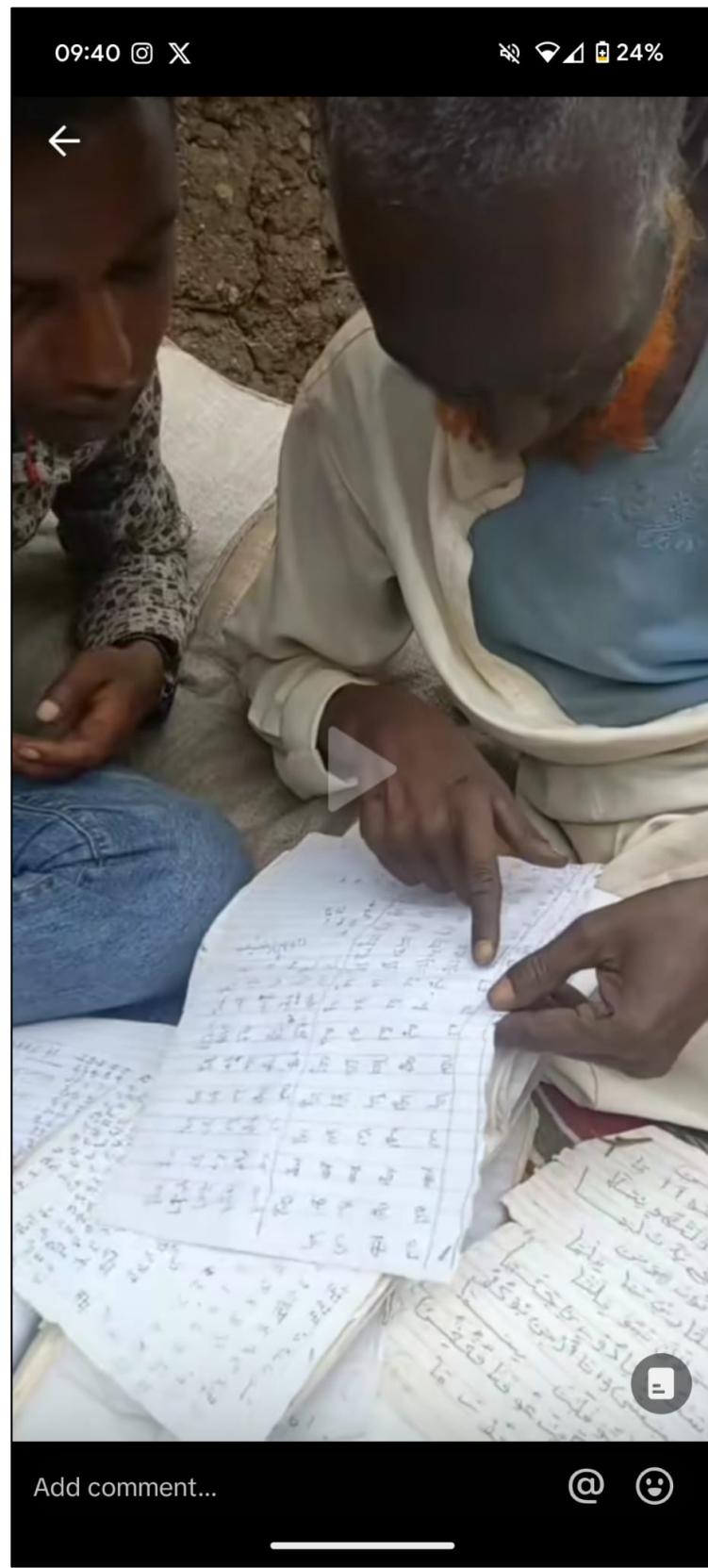


Figure 44. Sheikh Nuraddin Ahmad and Aneso Mohammed with documents in Shaaldaa script. See Reference 8; Section VII.

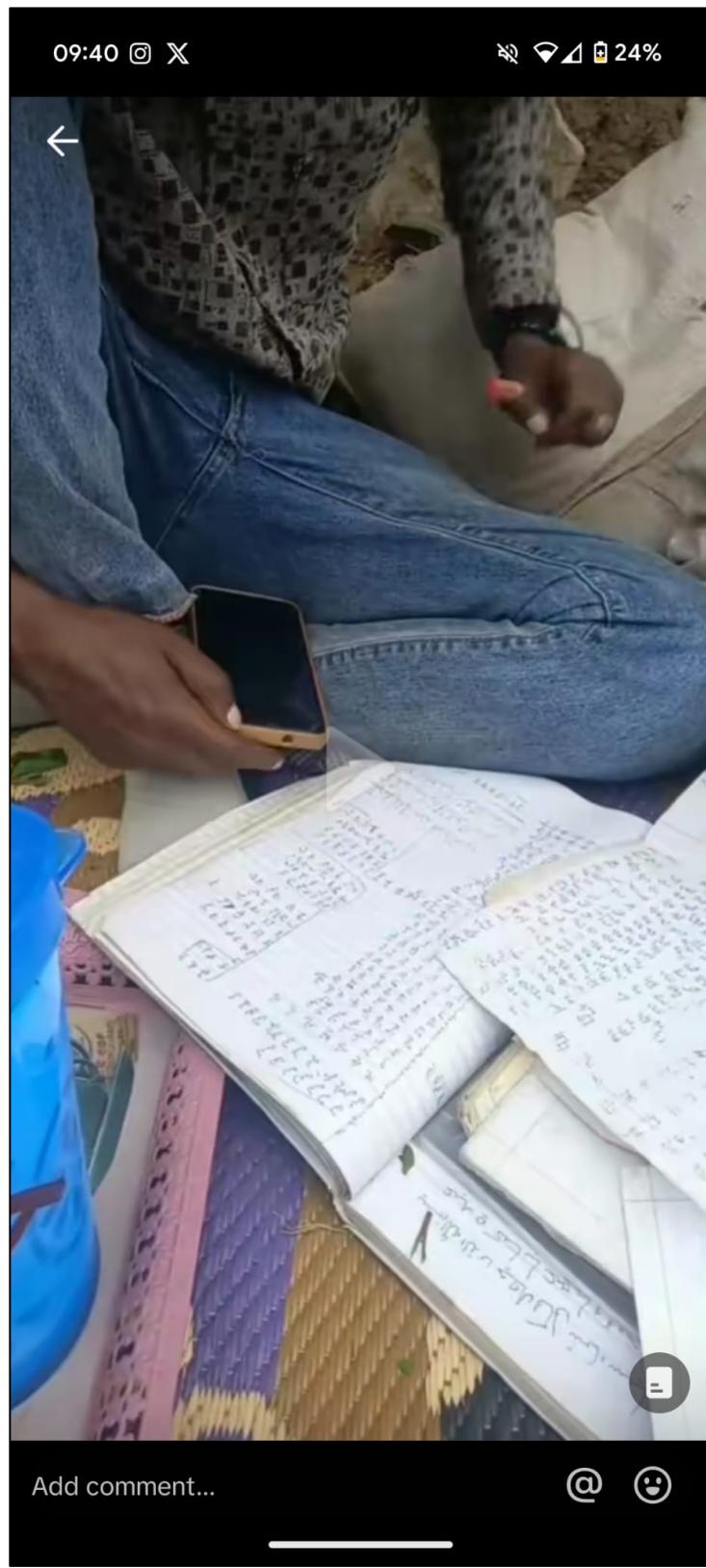


Figure 45. Sheikh Nuraddin Ahmad and Aneso Mohammed with documents in Shaaldaa script. See Reference 8; Section VII.



Figure 46. Shaaldaa script engravings. See Reference 9; Section VII.



Figure 47. Engravings of Oromo sentences written in the Shaaldaa script. There is a parallel engraving in the Latin script in Figure 46. See Reference 9; Section VII.



Figure 48. Engravings of Oromo sentences written in the Latin script, next to the same sentences in the Shaaldaa script seen in Figure 45. See Reference 9; Section VII.

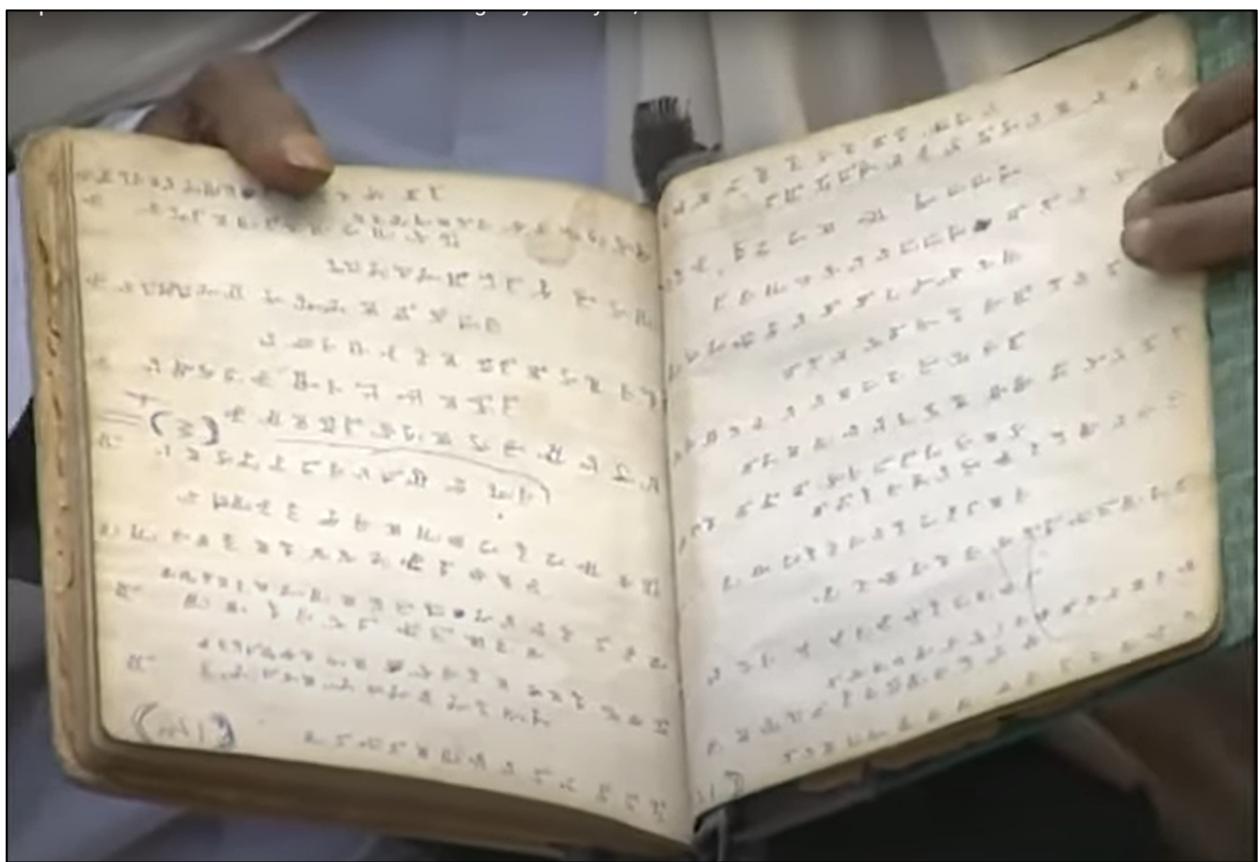
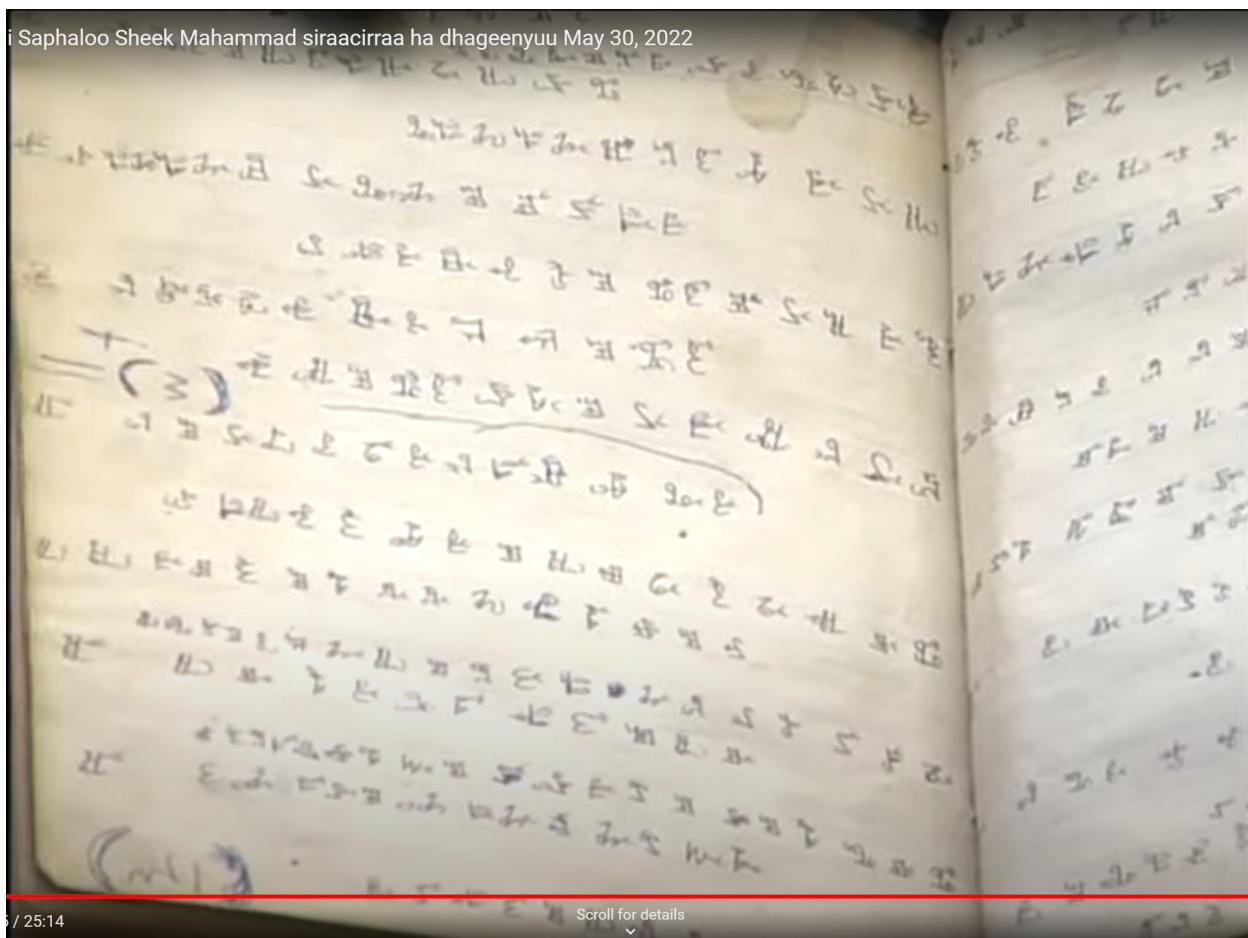


Figure 49. A book written in the Shaaldaa script held by Sheek Muhammad (English spelling: Sheikh Mohammed), a student of Sheikh Bakri Saphalo, who is mentioned as helping Hayward and Hassen in their 1981 paper (Reference 1; Section VII). See Reference 11; Section VII.



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Scroll for details

Figure 50. A book written in the Shaaldaa script held by Sheek Mohammad (English spelling: Sheikh Mohammed), a student of Sheikh Bakri Saphalo, who is mentioned as helping Hayward and Hassen in their 1981 paper (Reference 1; Section VII). See Reference 11; Section VII.

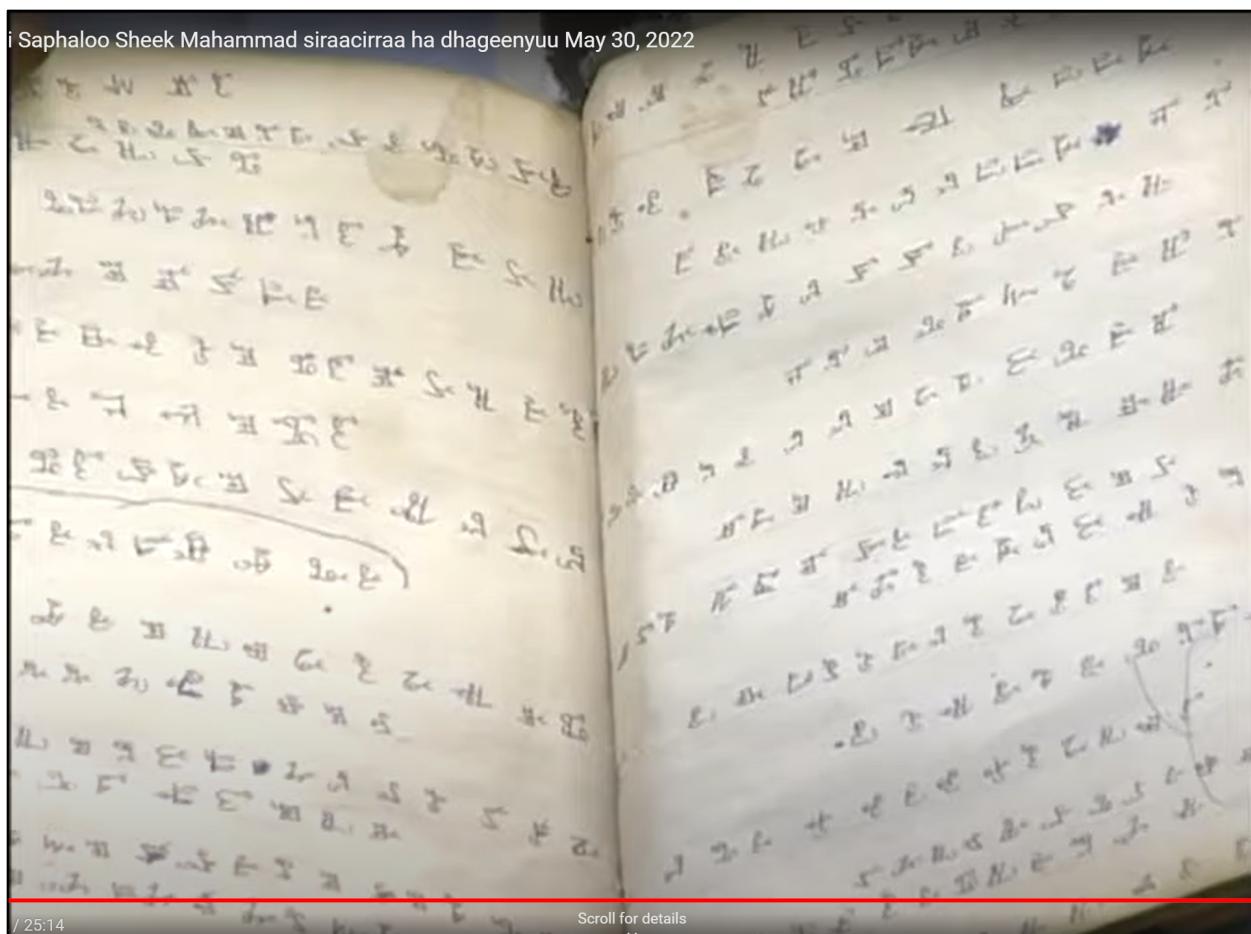


Figure 51. A book written in the Shaaldaa script held by Sheek Mohammad (English spelling: Sheikh Mohammed), a student of Sheikh Bakri Saphalo, who is mentioned as helping Hayward and Hassen in their 1981 paper (Reference 1; Section VII). See Reference 11; Section VII.

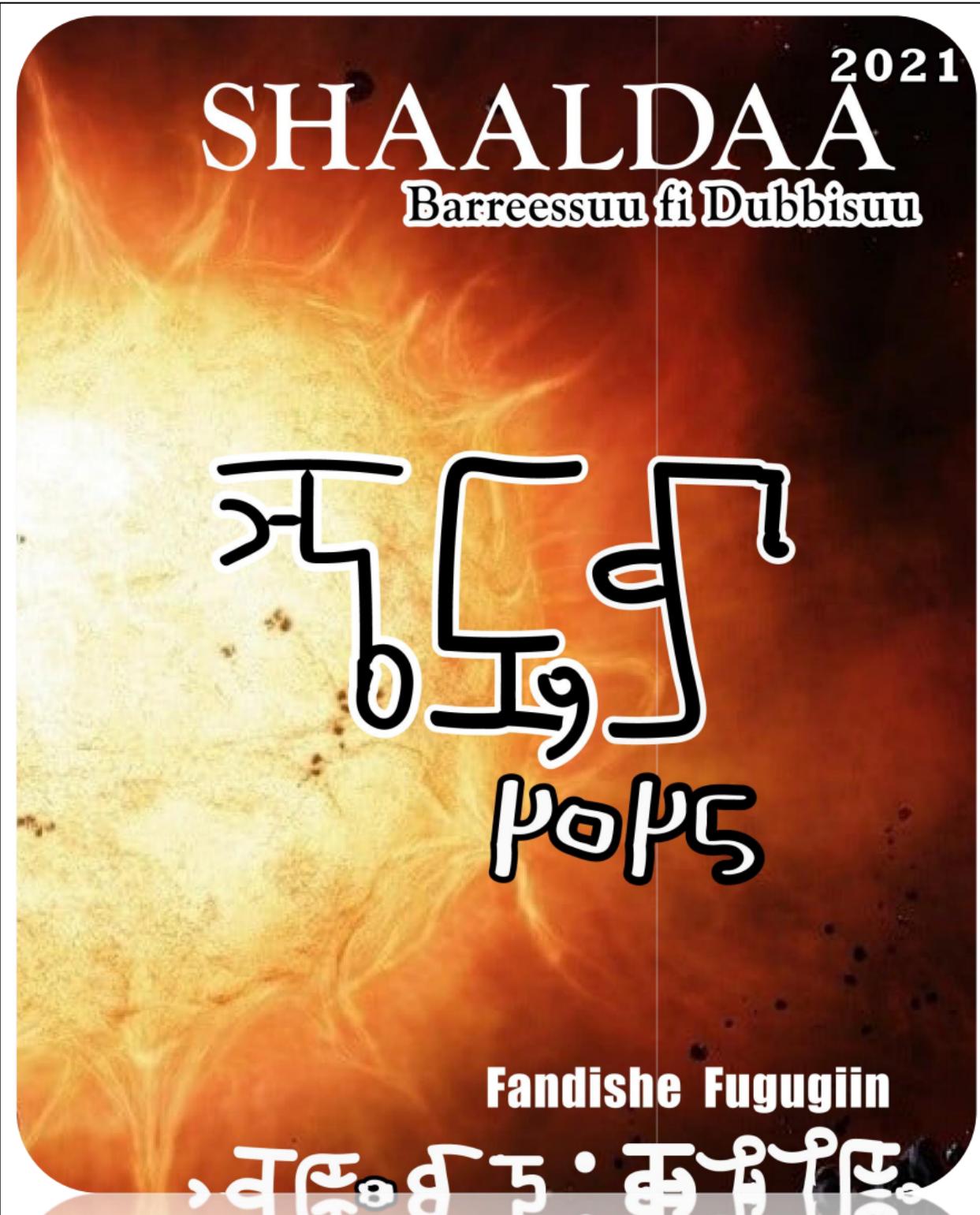


Figure 52. A document about the Shaaldaa script by Fandishe Fugug, Professor of software engineering at Haramaya University.

'KH' qubee qubeewwan lama of keessa qabu yookaan qubee dachaa (digraph phonemes) tahee loqoda oromoo baha(fugug) kana birratti haalaan kan fayyadamaniiidha. Fakkeenyaaf:

፩፲ = **beekhe.** garuu jechi beekhe ja'u kun loqoda oromoo gara biraatin

yoo barreeffamu **፩፪** = **beeke.**

Kan biraa jechoonni akka khabiira,

፩፪፪ = **khabiira.**

Loqoda baha(fugug)

፩፪ (Khana)

፩፪፪ (khitaaba)

Looqoda gara birraa

፩፪ (Kana)

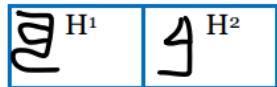
፩፪፪ (kitaaba)

As keessatti 'kh' yeroo hedduu loqoda gara baha(fugug) kana keessatti irra daddeebi'e kan agaruudha.

Figure 53. A noteworthy page from Fandishe Fugug's document that illustrates how **፩** /x/ occurs instead of **፩** /k/ for certain words in the eastern Oromo dialect, "Loqodo baha(fugug)".

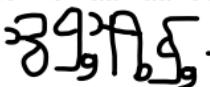
Garaagarummaa **H¹** Fi **H²** fi akkaataa itti fayyadama isaanii

Qabee Afan oromoo Laatiin keessatti dubbifamaa “H”(laryngeal fricative) kan sagalee isaa laagaadhaan uumamu qofatu jira. Gara shaaldaa yeroo dhufnu garuu, qubeewwan “H” lamatu jira kan sagalee hanga tokko wal fakkaatu kan itti fayyadamni isaa garagaraa ta’e.

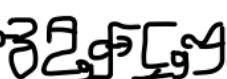


Shaaldaa keessatti H¹ (laryngeal fricative) akkuma “H” qabee laatiin yeroo mara kan jechoota adda addaa keessatti itti fayyadamnu dha.

Akkusama H² (voiceless pharyngeal fricative) shaaldaa keessatti yeroo hedduu kan fayyadamnu yeroo jechoota afaan biraa irra fudhatame barreessinu kan fayyadamnuudha. Akka Fakkeenyaaati jechoota afaan arabaa irra fudhataman tokko tokko haa ilaallu: -

 = ahmad.

 = haamid

 = abdulhaakim

Waluma galatti, **H¹** jechoota afaan oromoo yeroo barreessinu kan fayyadamnu fi **H²** yeroo jechoota afaan alagaa(ormaa) irraa dhufan kan qabee “H” if keessaa qabaniif kan fayyadamnu taha.

Figure 54. A page from Fandishe Fugug’s document that illustrates the difference between **ه** /h/ and **ح** /ħ/, with examples of Arabic-origin names like **أحمد** (‘Ahmad), **حَمِيد** (ħāmid) (‘Abd al-ħakīm), highlighting the retention of the Arabic letter **ح** /ħ/. Note, the latter name does not retain the Arabic **ع** /ħ/ sound in writing in this specific example, but this is common in many examples of language contact and perhaps other users would retain the sound when writing in the Shaaldaa script via **ح** /ħ/.

1.	ቍናሸይና	Vayrasii(virus)
2.	ፖልስዎ	polisii(police)
3.	ጥሬገይ	Tsegaye
4.	ዩኒቨርሲቲ	Yuunivarsiitii(university)

Figure 55. A page from Fandishe Fugug's document that showcases words that use 3 of the 5 Shaaldaa letters intended for foreign phonemes, ቍ /p/, ቊ /v/β/, and ቌ /ts'/.

1.	ሙካaan ስርማ፡ሸሚ፡ሸኔ፡ኅ፡ቋኔ፡	i. mucaan harma hadha saa hodhe .
1.	ቁብር፡ጊብ፡ቋኔ፡	ii. khabiirri gabii hodhdhe .
2.	ቡናን፡ዋና፡ቋኔ፡ቁርና፡ቋኔ፡	iii. Boonaan waan hojjatu cichchaan hojjata.
3.	ሁኔ፡ኩና፡ኩና፡ቋኔ፡ቋኔ፡ቋኔ፡	iv. Horii biyya teenya gadhdhowatti hidhama.

Figure 56. A noteworthy page from Fandishe Fugug's document that exemplifies how the Shaaldaa script can explicitly account for geminated consonants that aren't written in Latin based Qubee alphabet for Oromo. The digraphs 'dh' and 'ch' aren't written twice (i.e., as 'dhdh', 'chch') in Qubee; Fandishe wrote them here to illustrate that point.

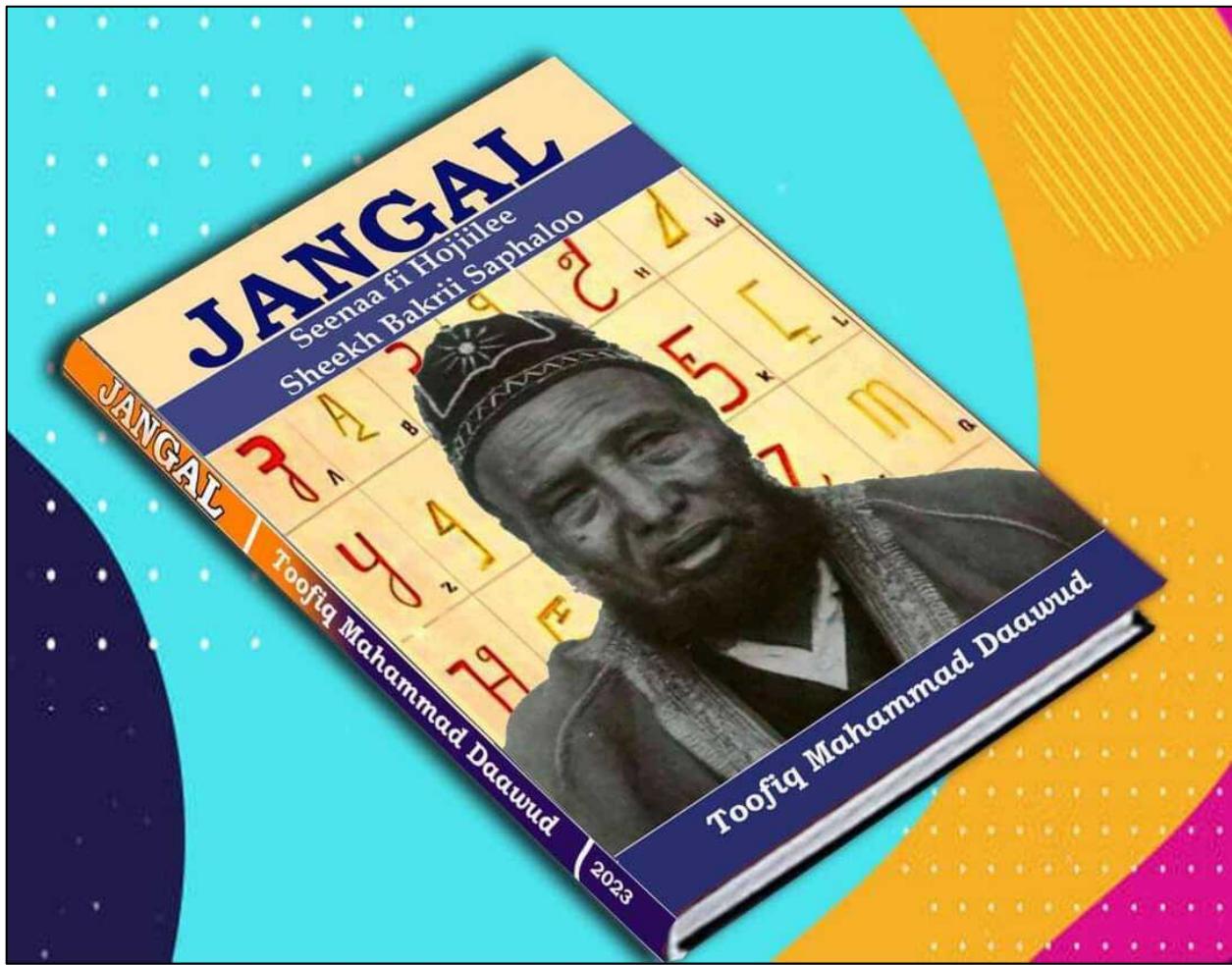


Figure 57. Another book about Sheikh Bakri Saphalo, (translated) entitled "*Jangal – History and Works of Sheikh Bakri Saphalo*"

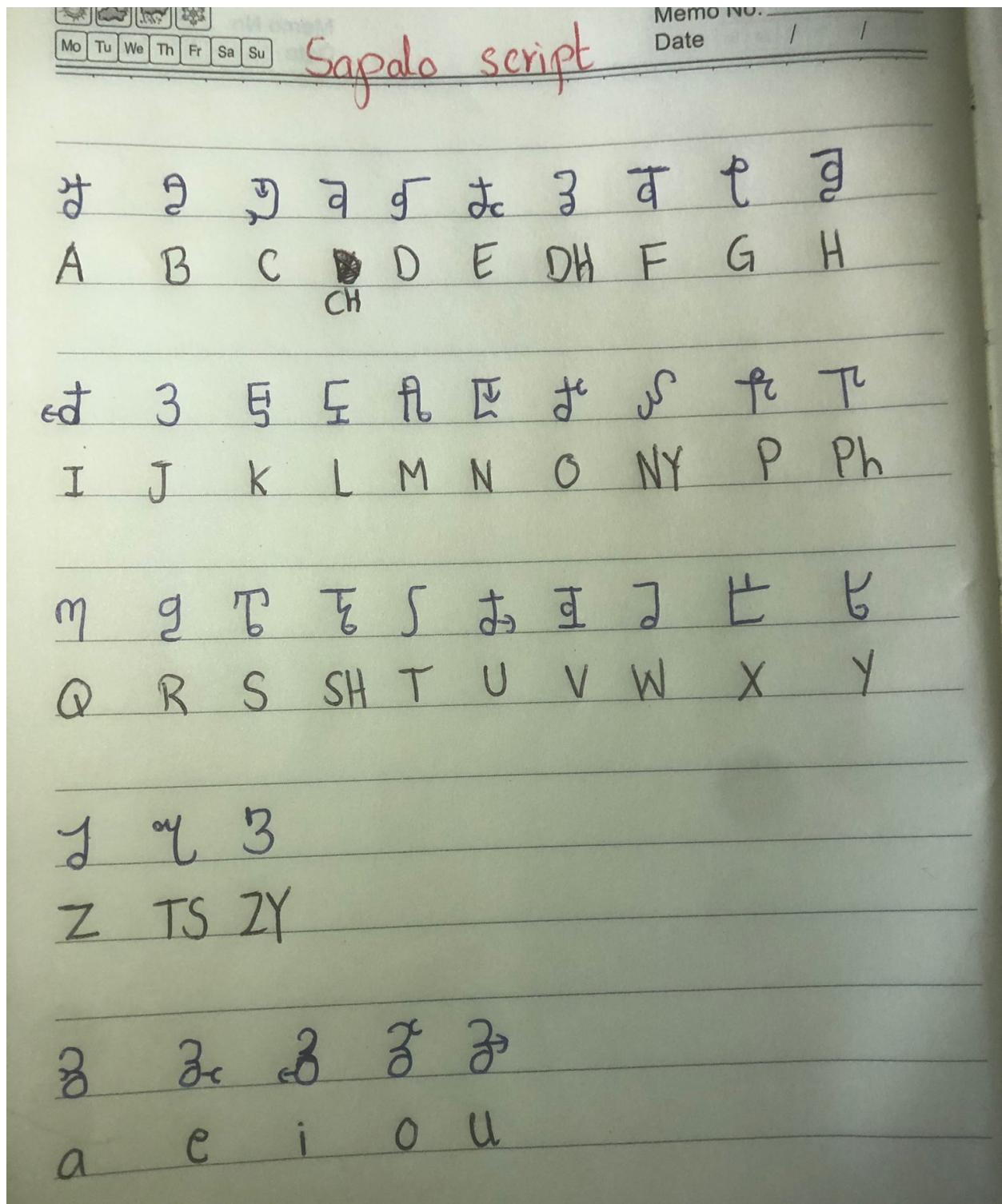


Figure 58. Handwriting of the Shaaldaa script letters by a user. Standalone vowels are written at the bottom, and the Shaaldaa script letters under the Latin A, E, I, O, U are the ॲ letters (ॲ, ॲ, ॲ, ॲ, ॲ).

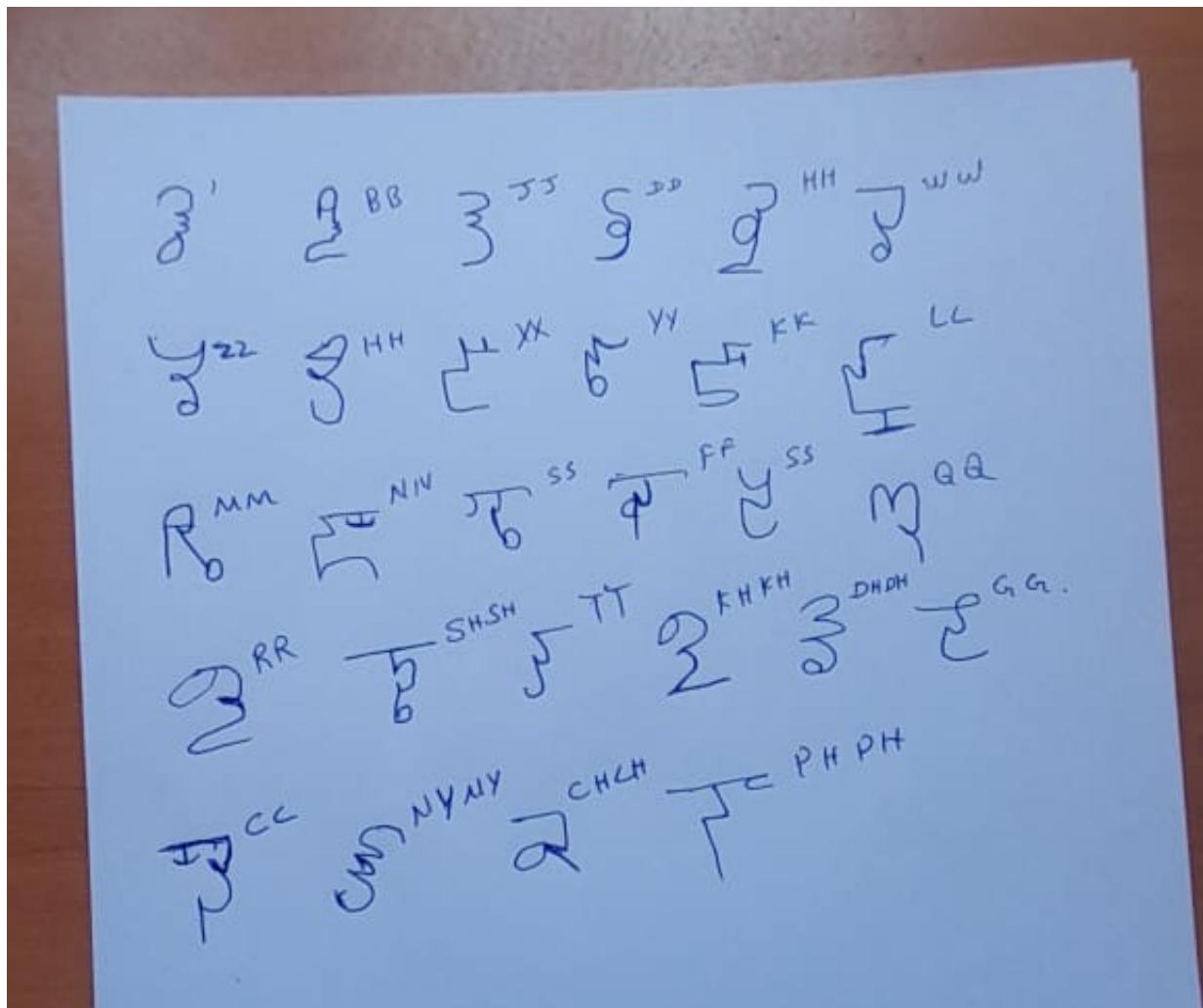


Figure 59. Handwritten geminated base glyphs for native Oromo phonemes.

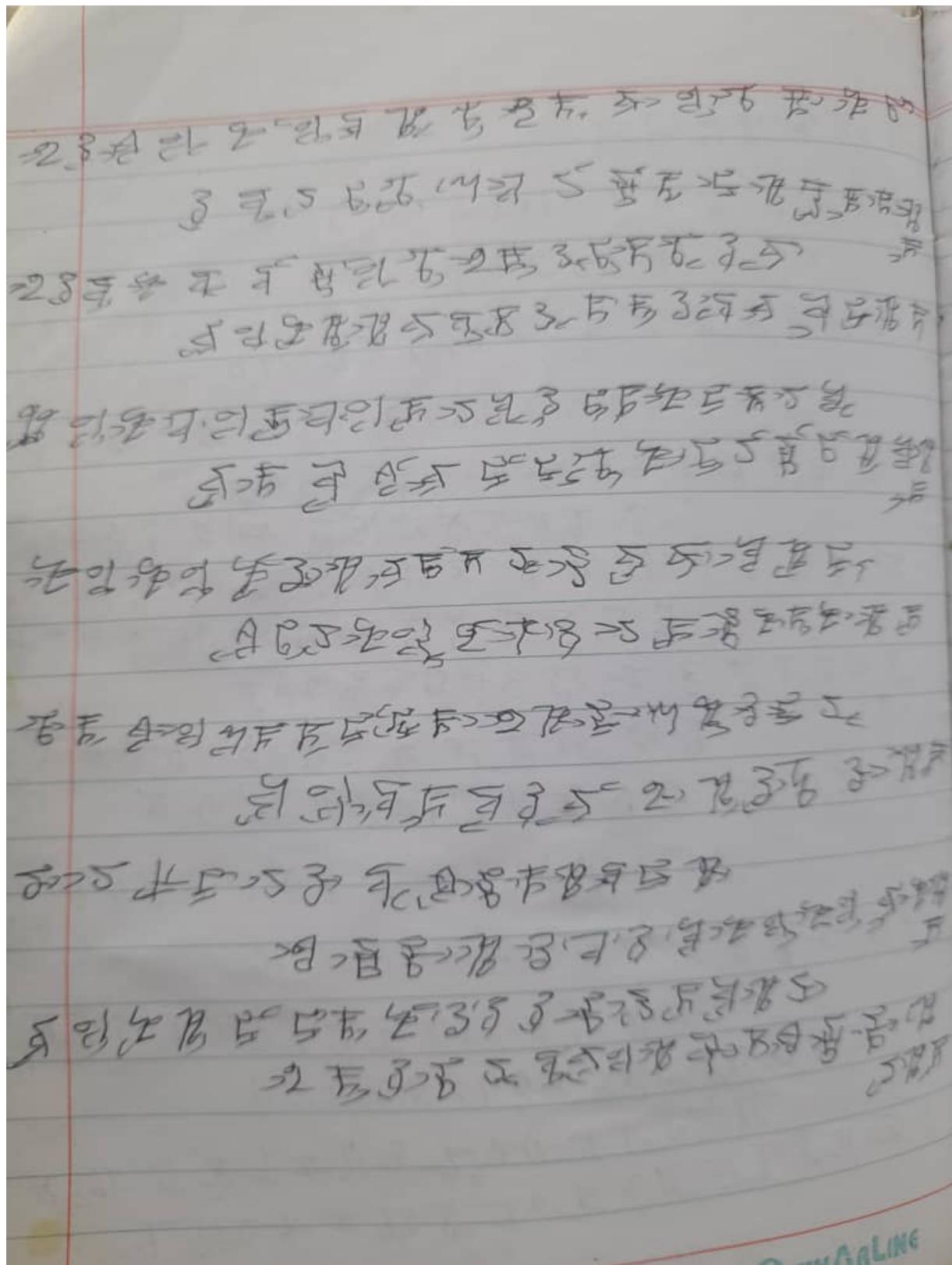


Figure 60. Shaaldaa-script manuscript written by Sheikh Nuradin Ahmad in 1957.

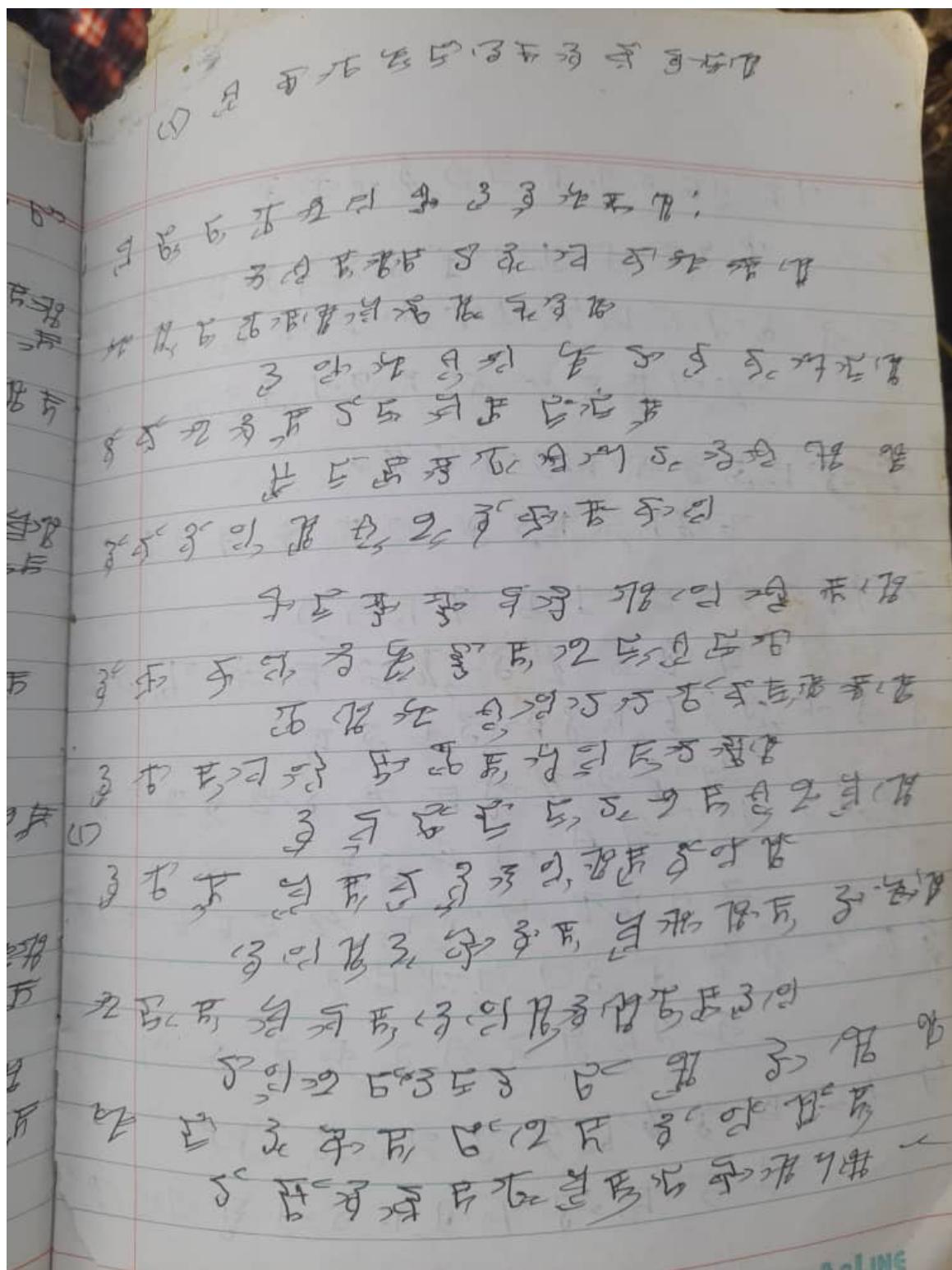


Figure 61. Shaaldaa-script manuscript written by Sheikh Nuradin Ahmad in 1957.

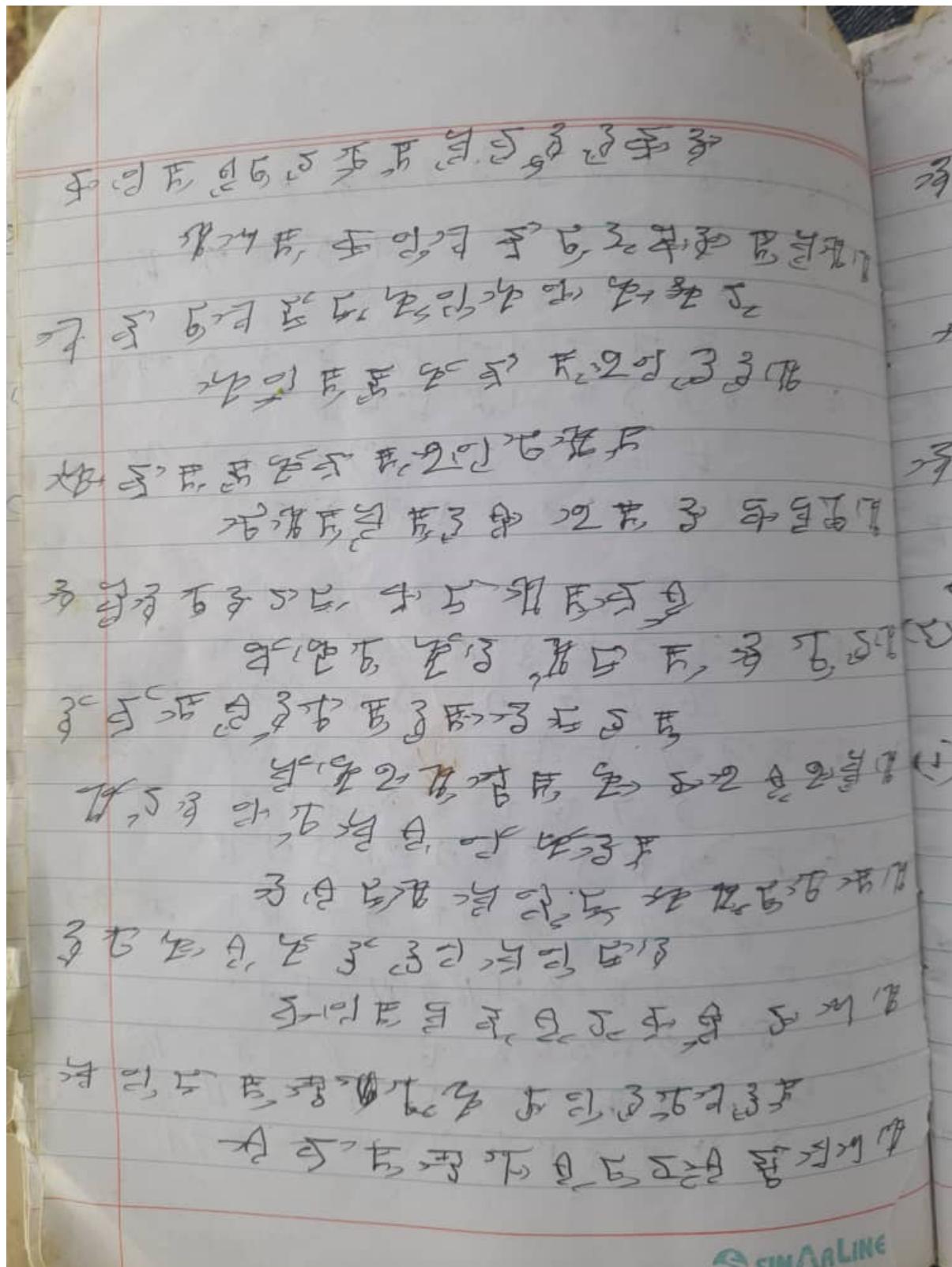


Figure 62. Shaaldaa-script manuscript written by Sheikh Nuradin Ahmad in 1957.

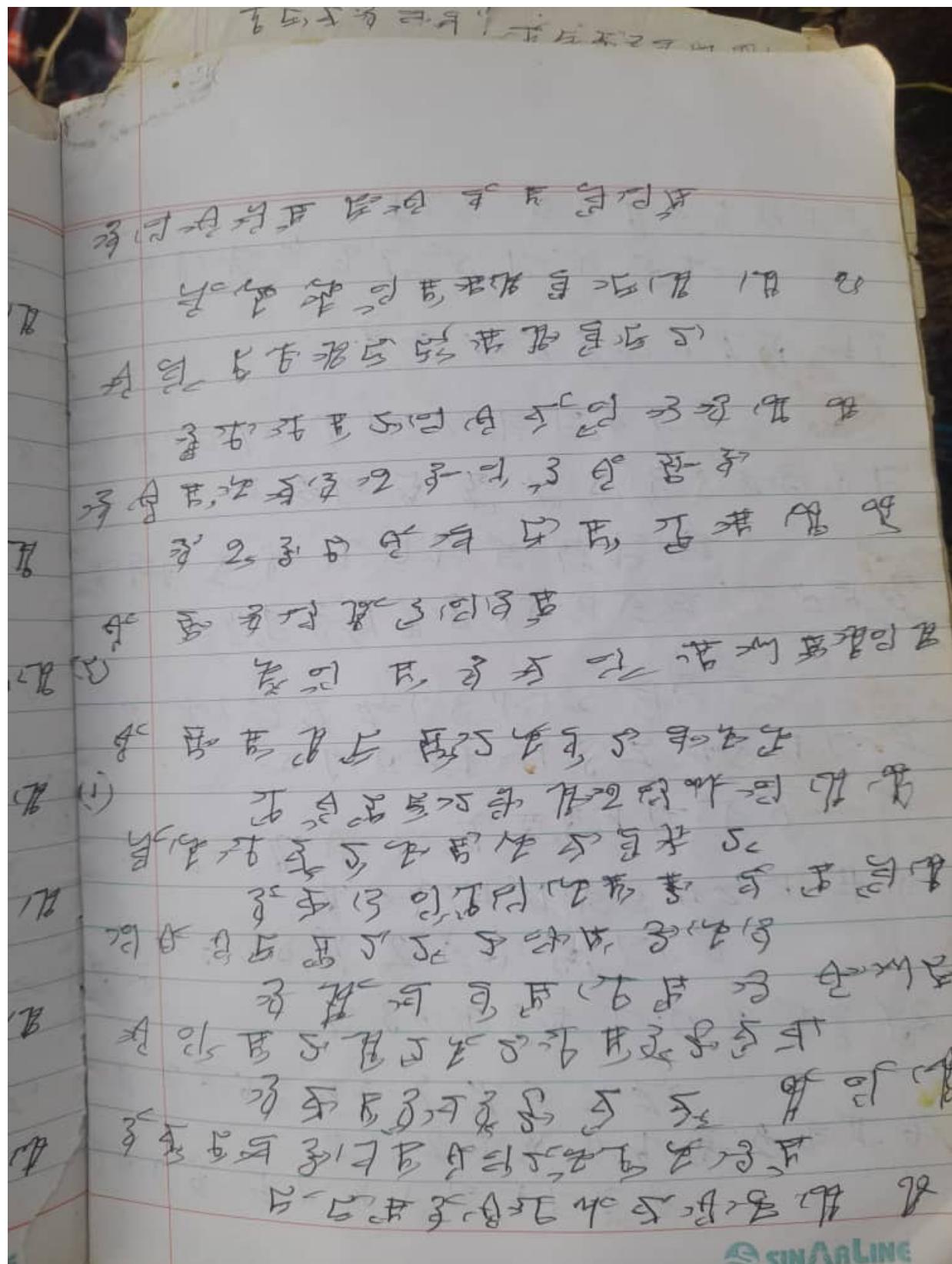


Figure 63. Shaaldaa-script manuscript written by Sheikh Nuradin Ahmad in 1957.



Figure 64. Shaaldaa-script manuscript written by Sheikh Nuradin Ahmad in 1957. Sheikh Muhammadmansur Sheikh Bakri Saphaloo is holding the manuscript.



Figure 65. Sheikh Mahammadmansur Sheikh Bakri Saphaloo (a son of Sheikh Bakri Saphaloo) being interviewed by chemist and Shaaldaa-script teacher Aneso Mohammed.

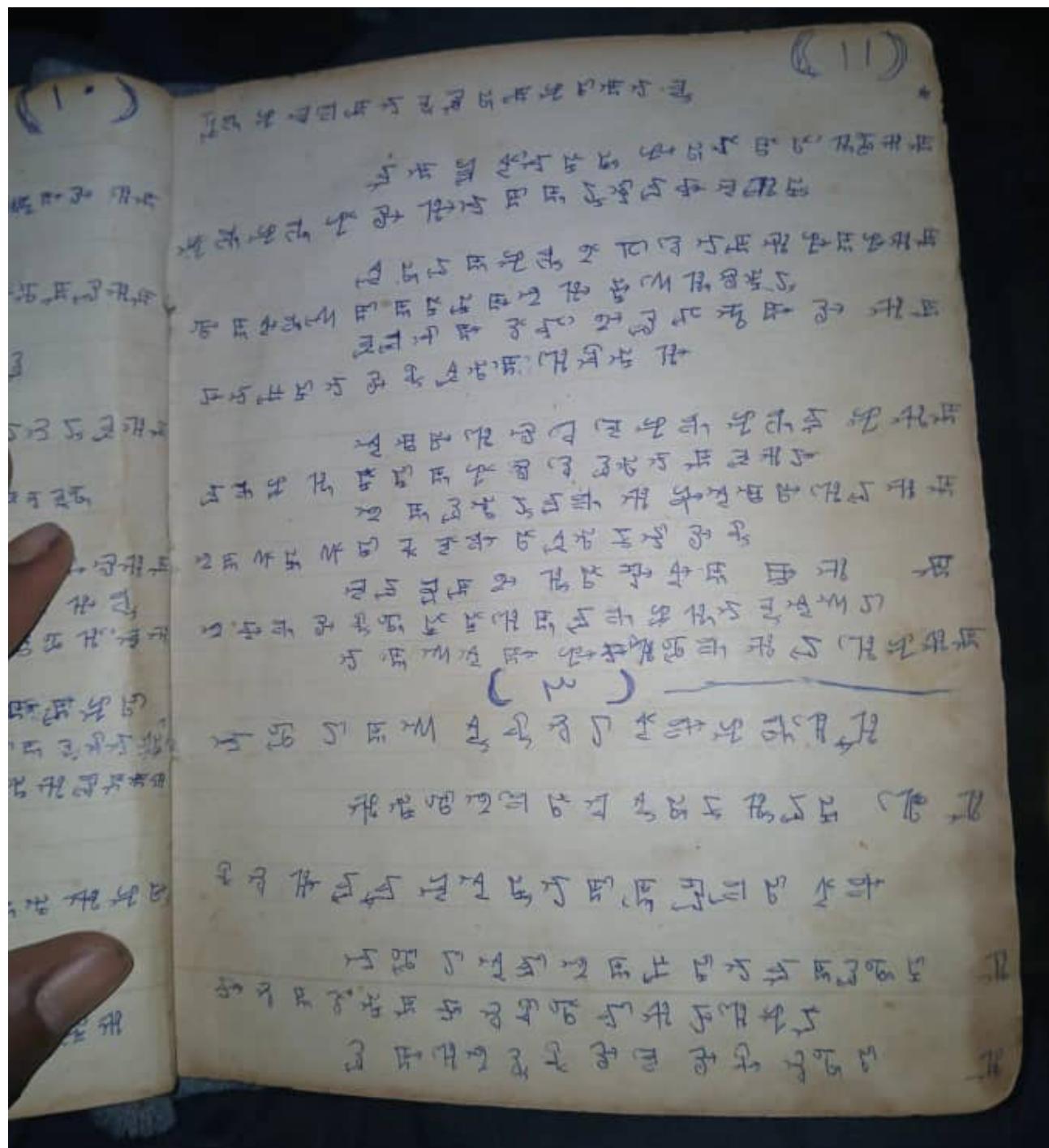


Figure 66.1. Page from Sheikh Bakrii's "Shaaldaa" manuscript written by Sheikh Bakrii circa 1968. Figures 66.2-66.18 are from the same manuscript.

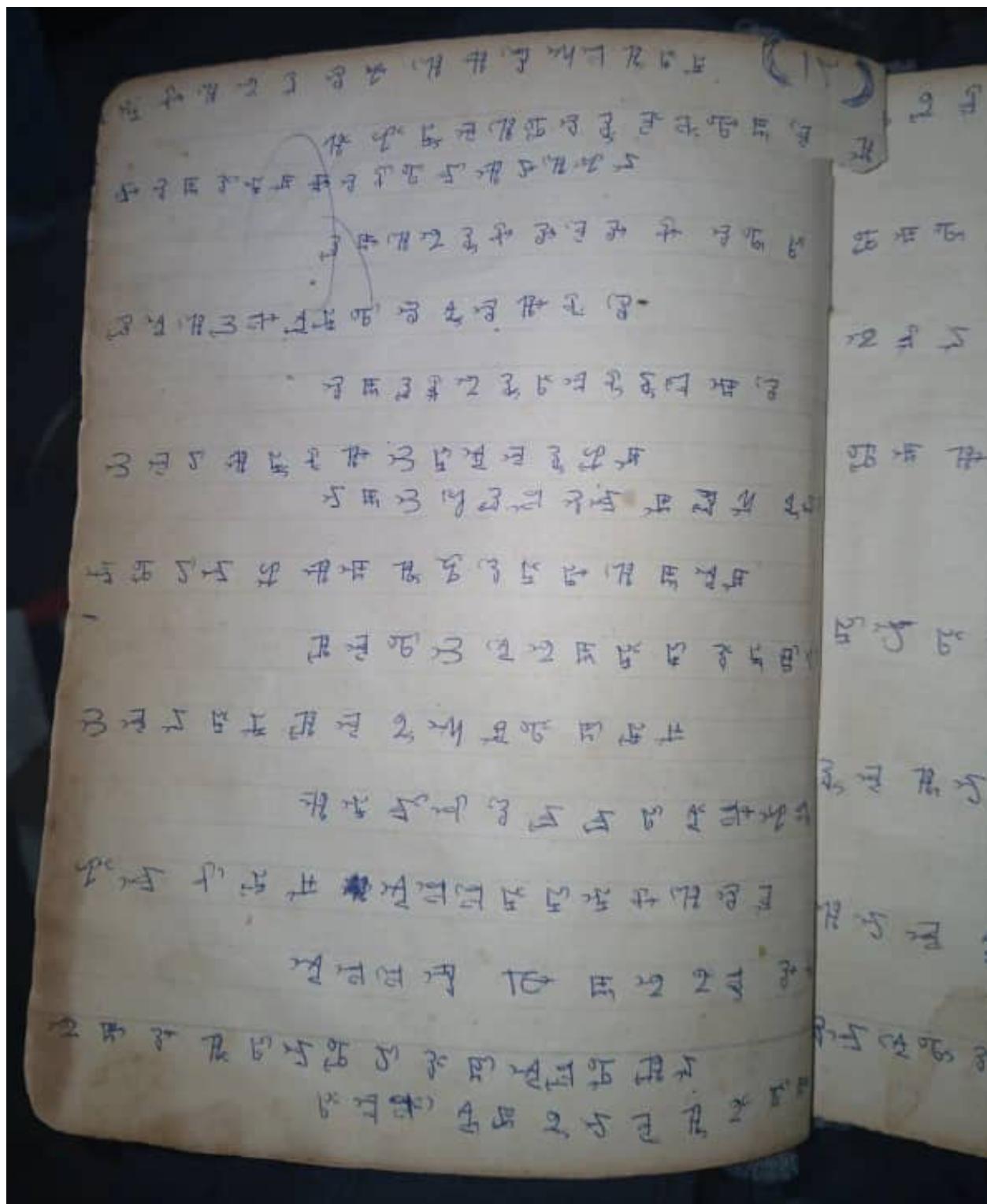


Figure 66.2. The "Shaaldaa" manuscript continued.

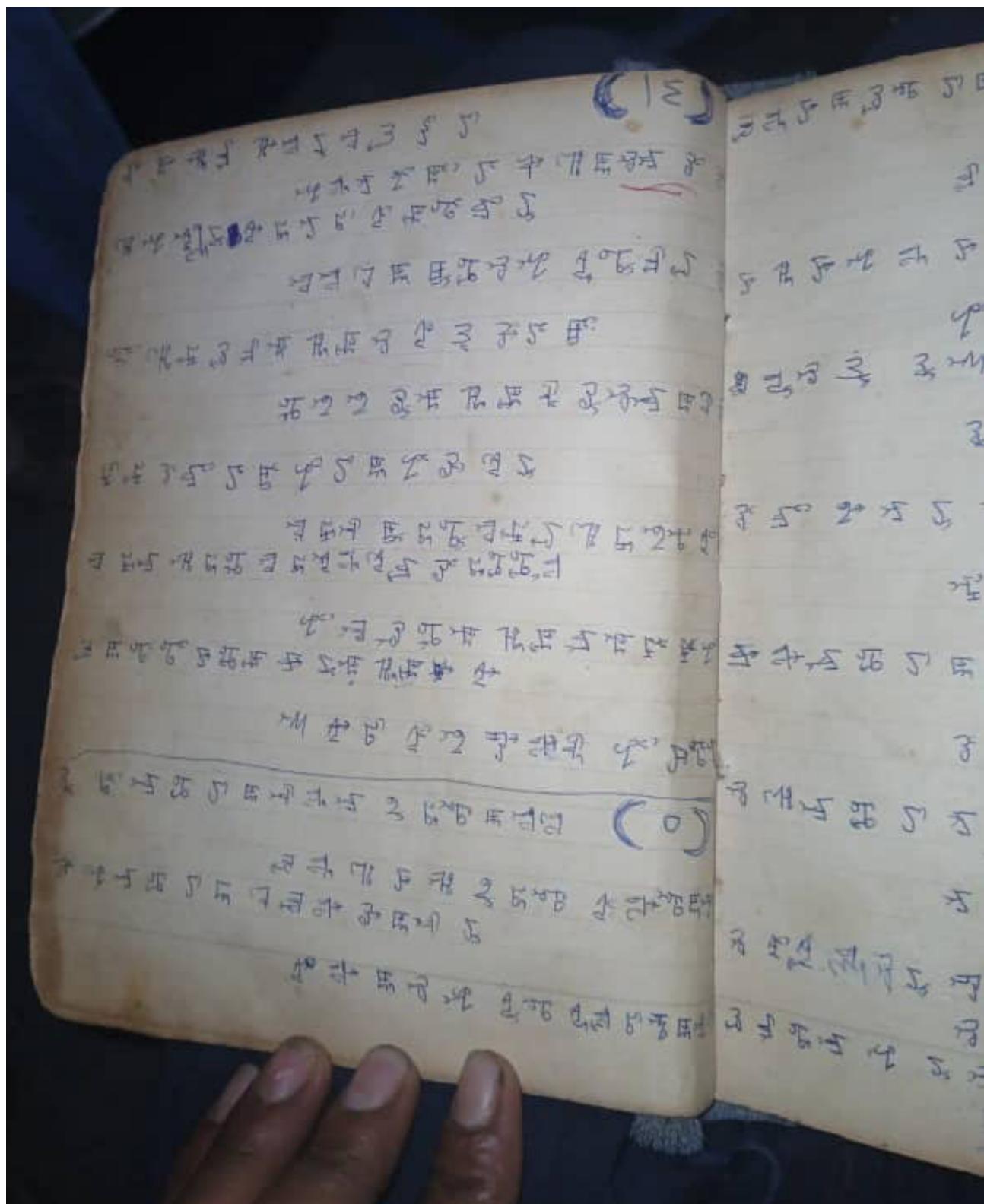


Figure 66.3. The “Shaaldaa” manuscript continued.

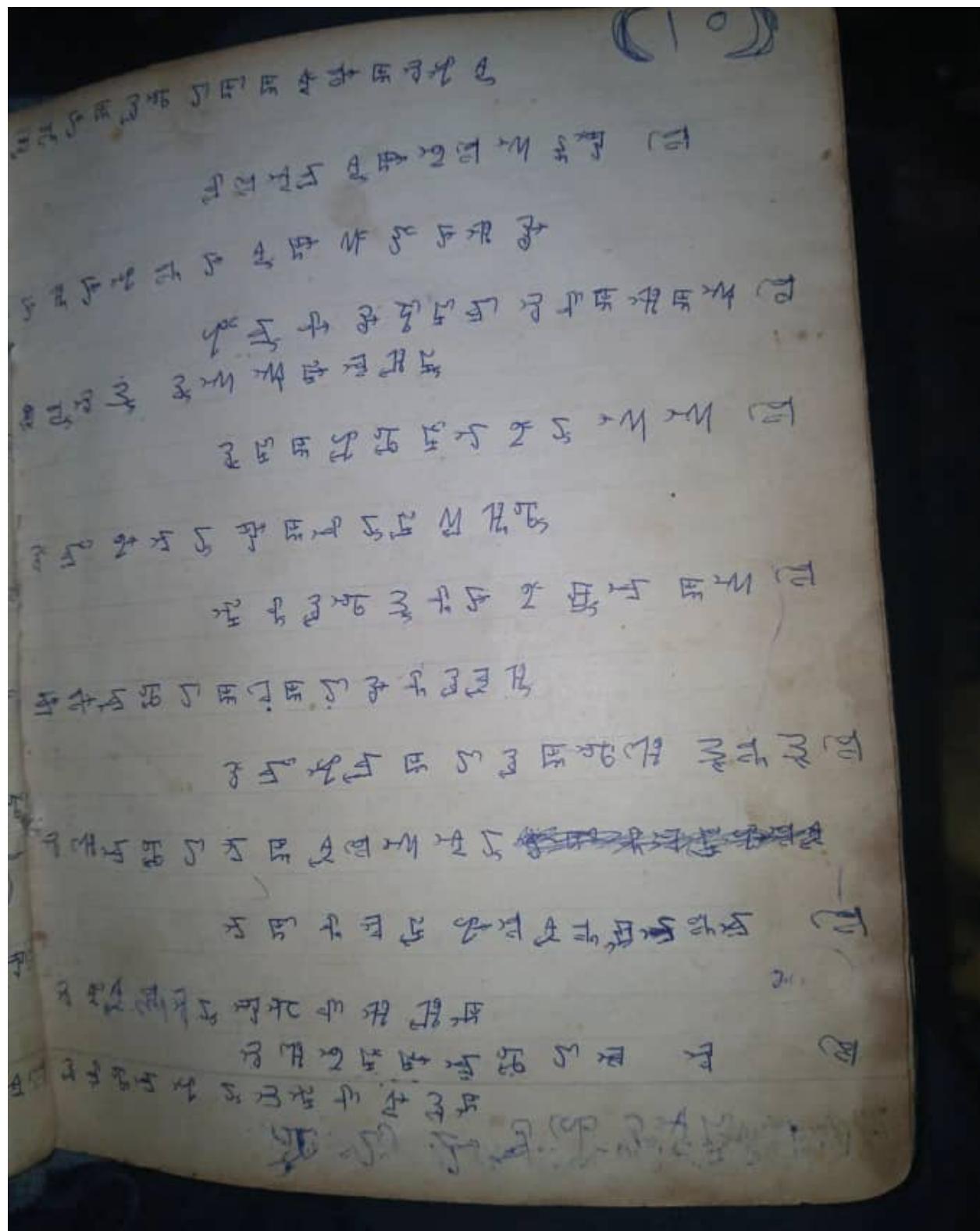


Figure 66.4. The "Shaaldaa" manuscript continued.

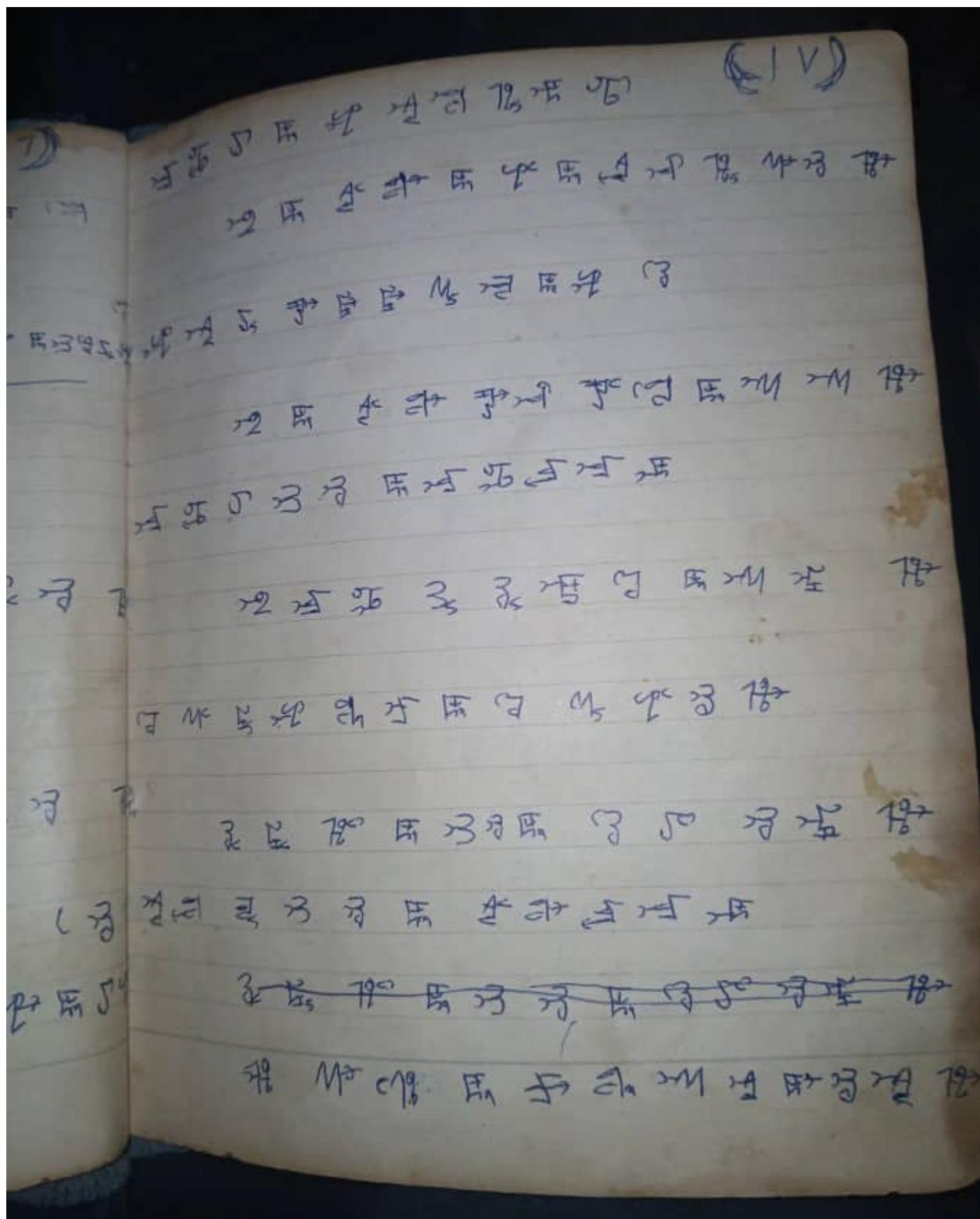


Figure 66.5. The "Shaaldaa" manuscript continued.

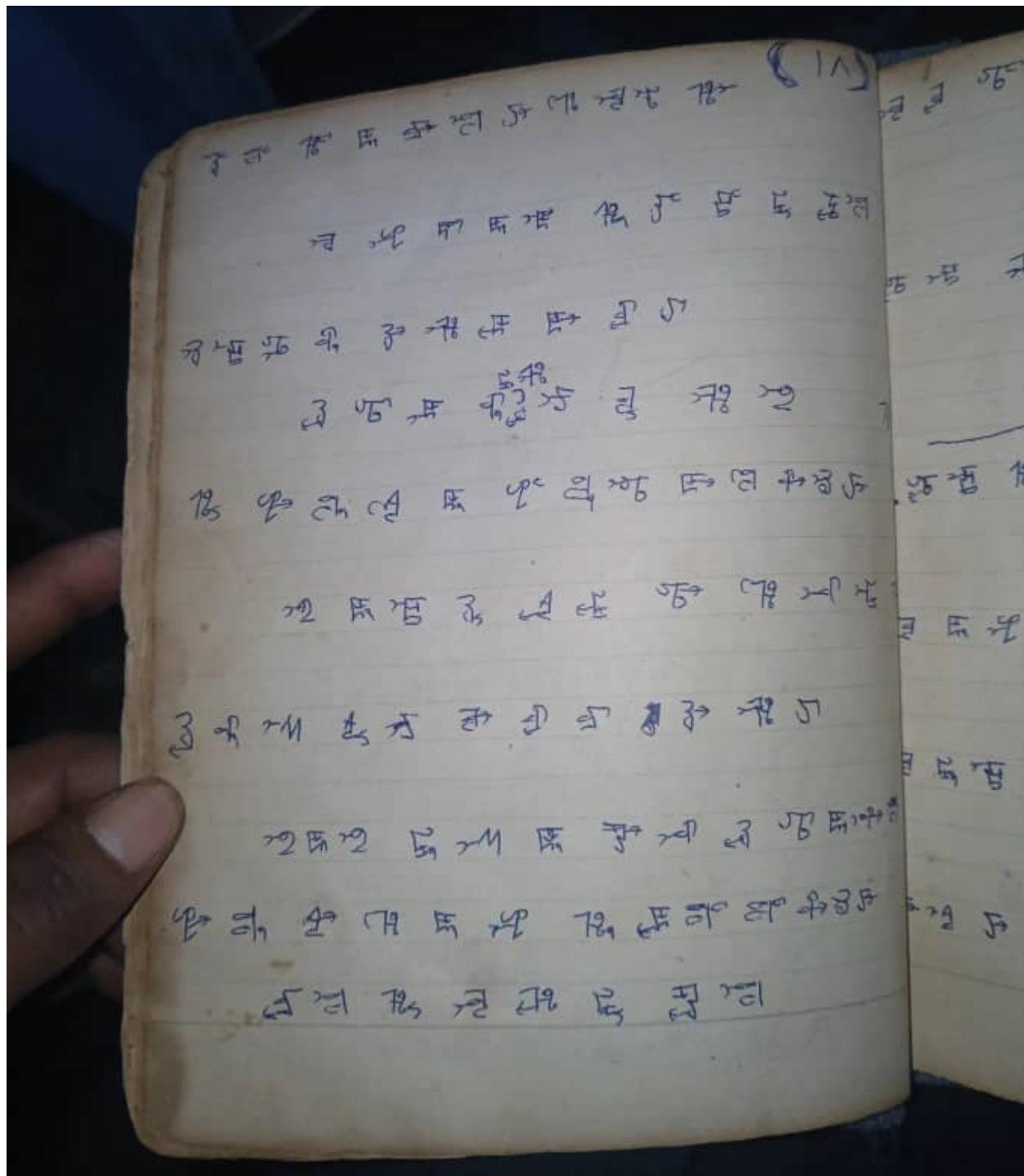


Figure 66.6. The "Shaaldaa" manuscript continued.

७८ शाल्दा छाल्दा छाल्दा छाल्दा छाल्दा (१९)
 शाल्दा छाल्दा छाल्दा छाल्दा छाल्दा छाल्दा
 ७९ शाल्दा छाल्दा छाल्दा छाल्दा छाल्दा
 शाल्दा छाल्दा छाल्दा छाल्दा छाल्दा छाल्दा (२०)
 ८० शाल्दा छाल्दा छाल्दा छाल्दा छाल्दा छाल्दा
 शाल्दा छाल्दा छाल्दा छाल्दा छाल्दा छाल्दा
 ८१ शाल्दा छाल्दा छाल्दा छाल्दा छाल्दा छाल्दा
 शाल्दा छाल्दा छाल्दा छाल्दा छाल्दा छाल्दा

Figure 66.7. The "Shaaldaa" manuscript continued.

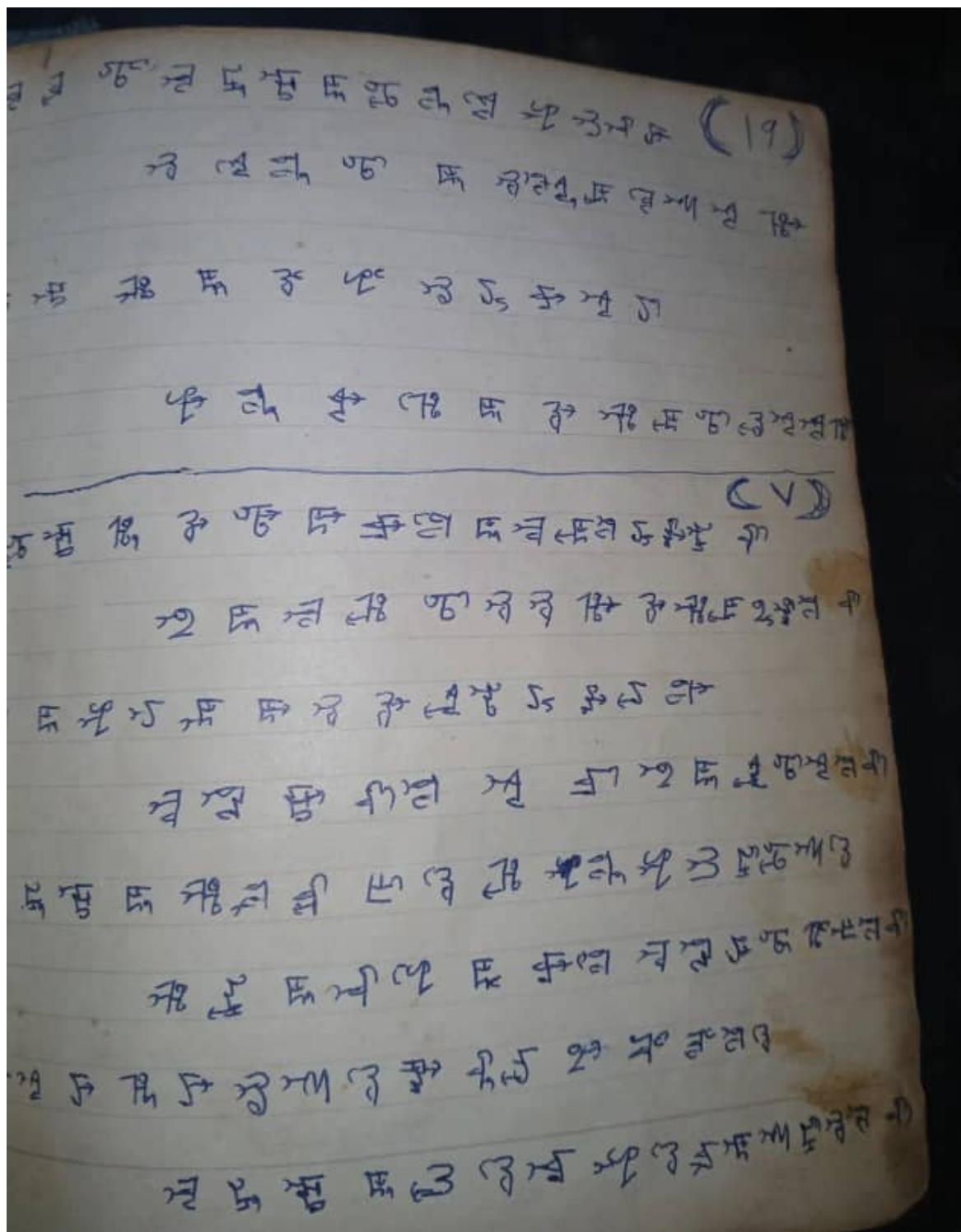


Figure 66.8. The “Shaaldaa” manuscript continued.

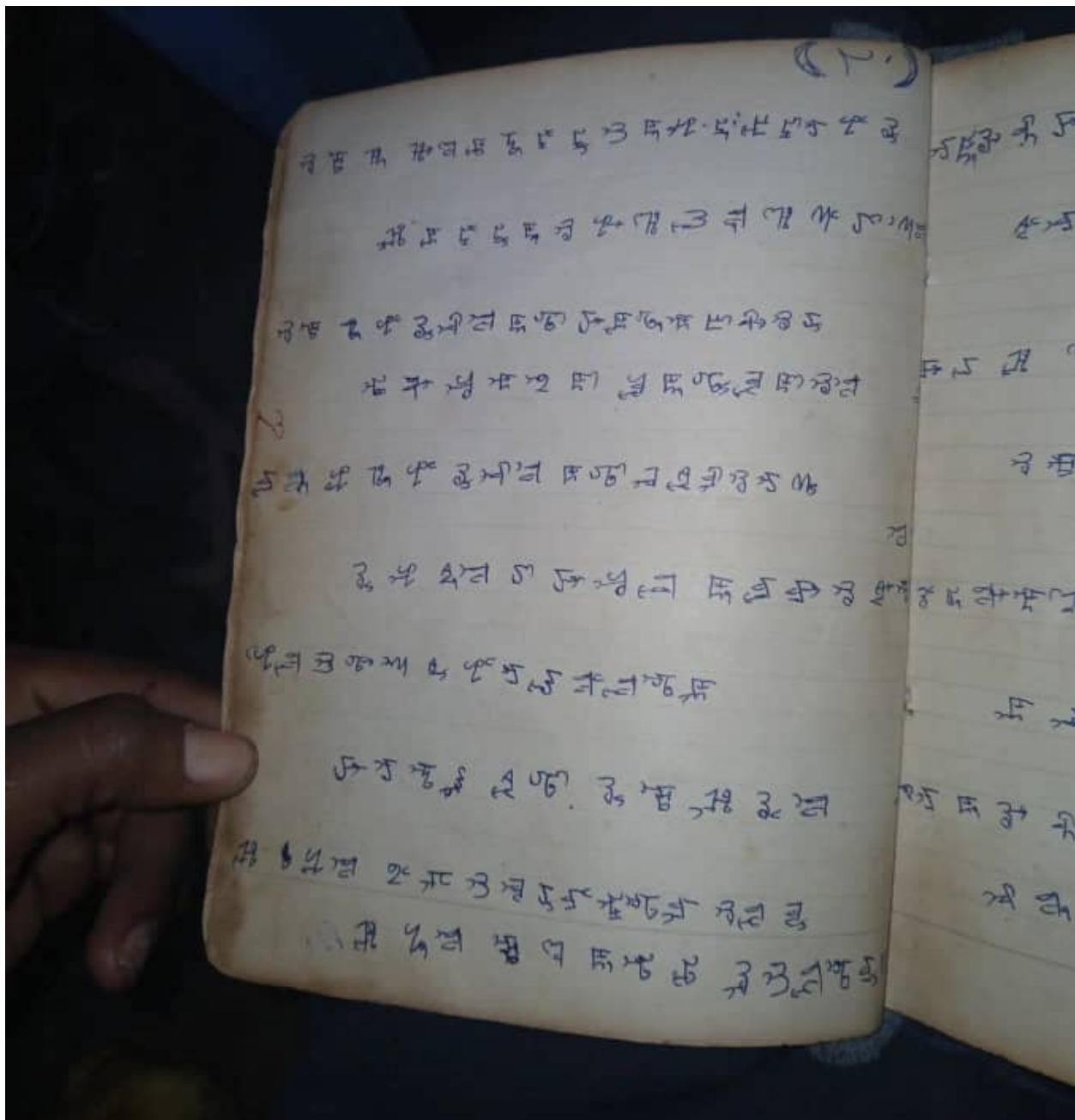


Figure 66.9. The "Shaaldaa" manuscript continued.

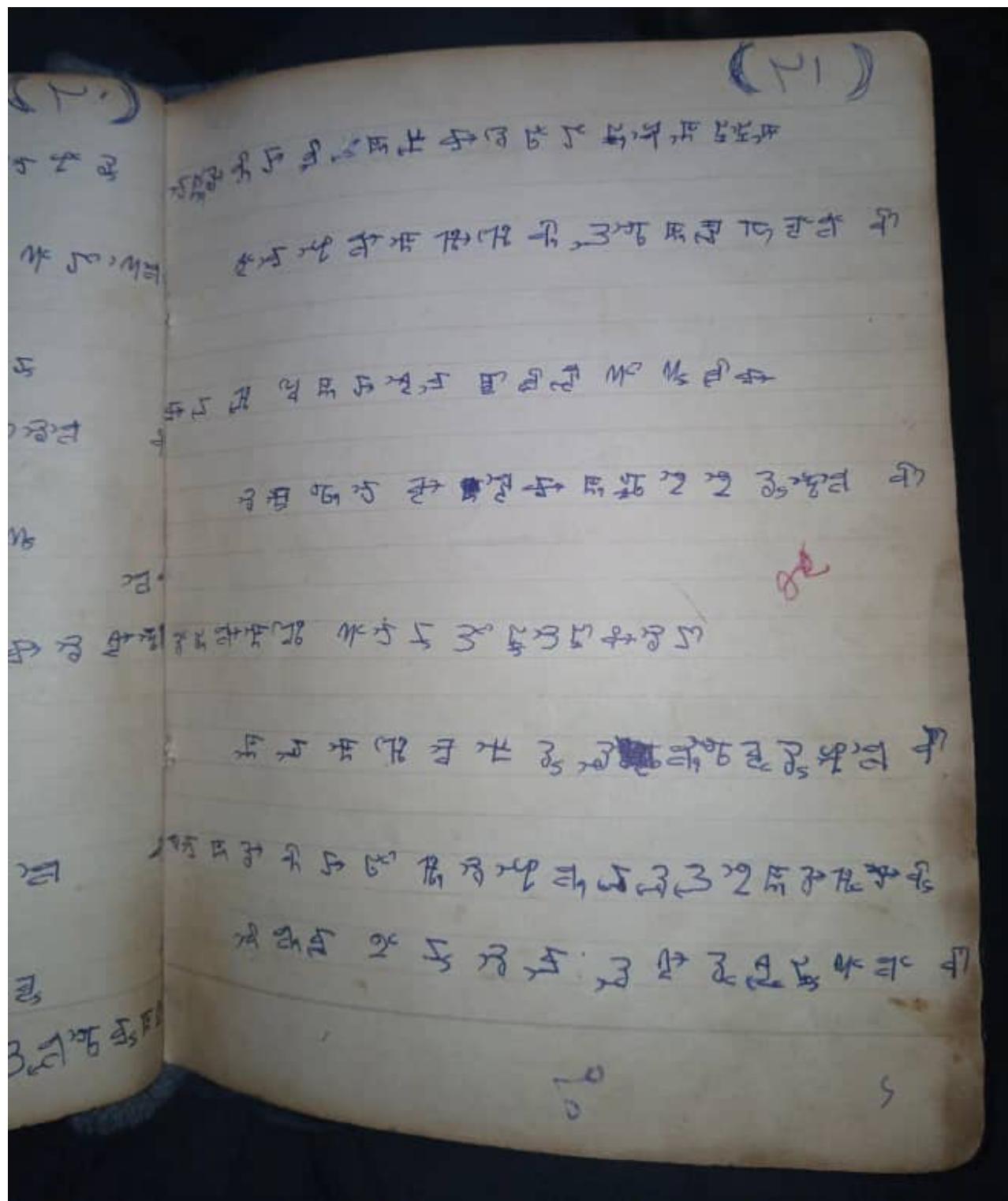


Figure 66.10. The "Shaaldaa" manuscript continued.

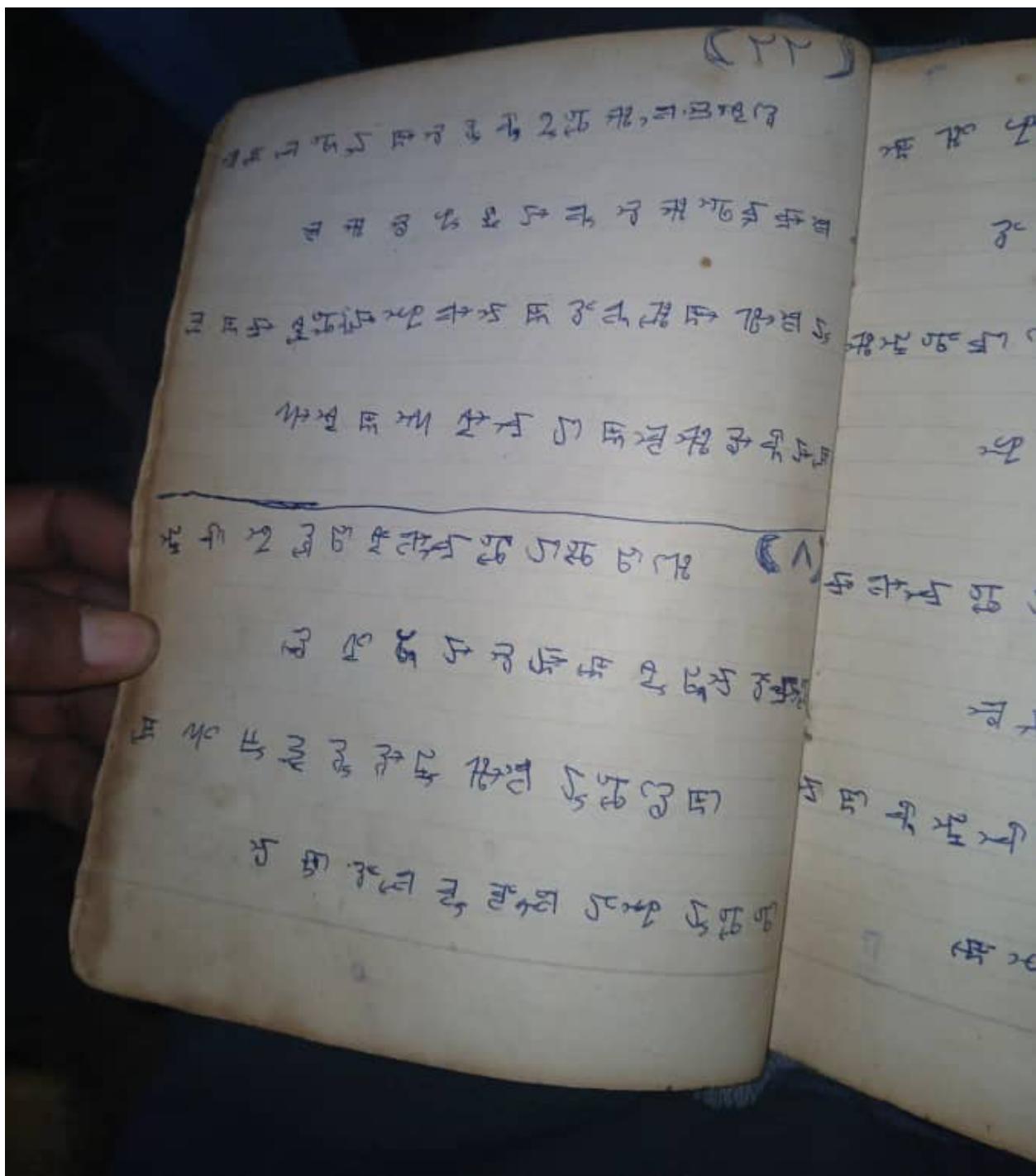


Figure 66.11. The “Shaaldaa” manuscript continued.

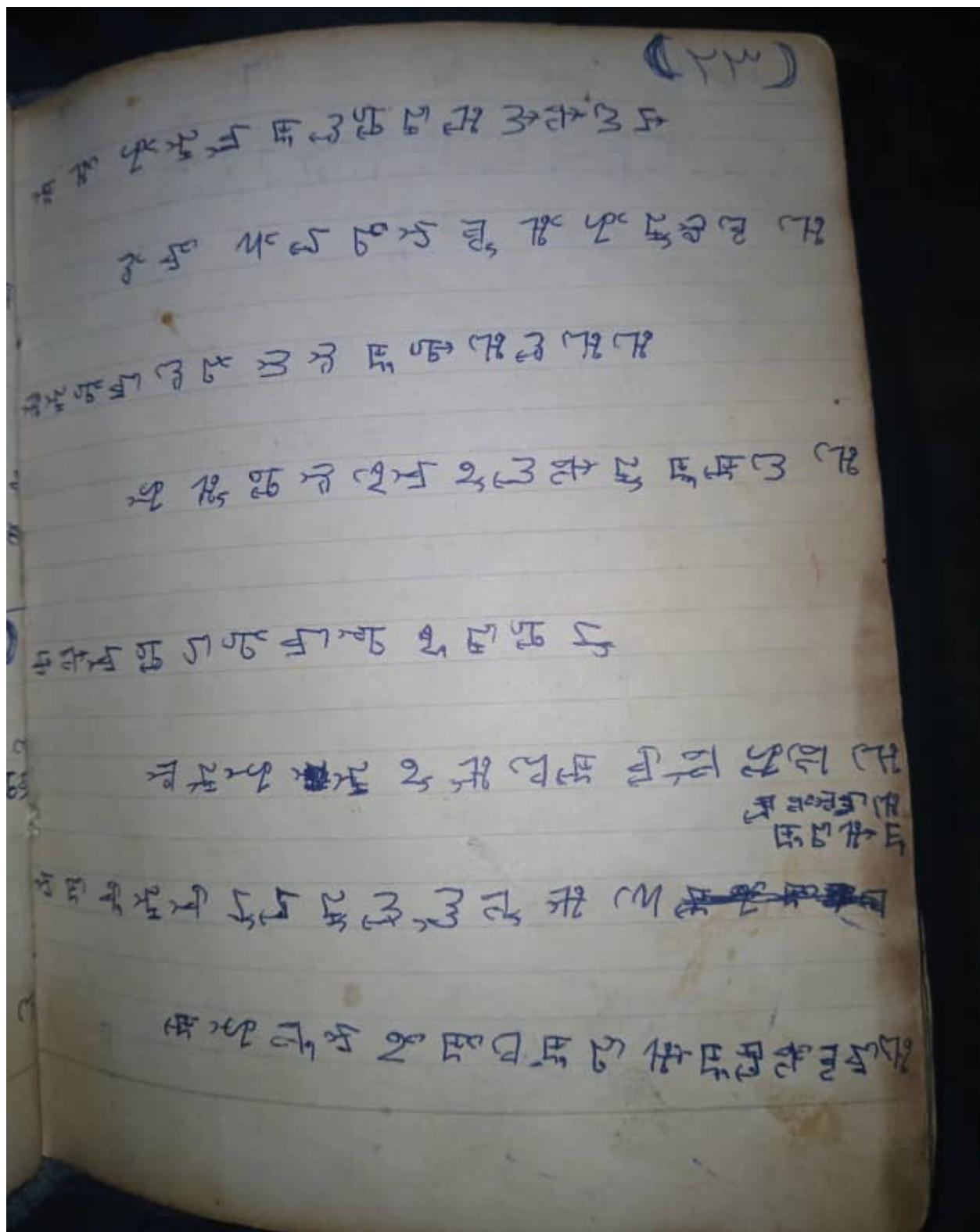


Figure 66.12. The “Shaaldaa” manuscript continued.

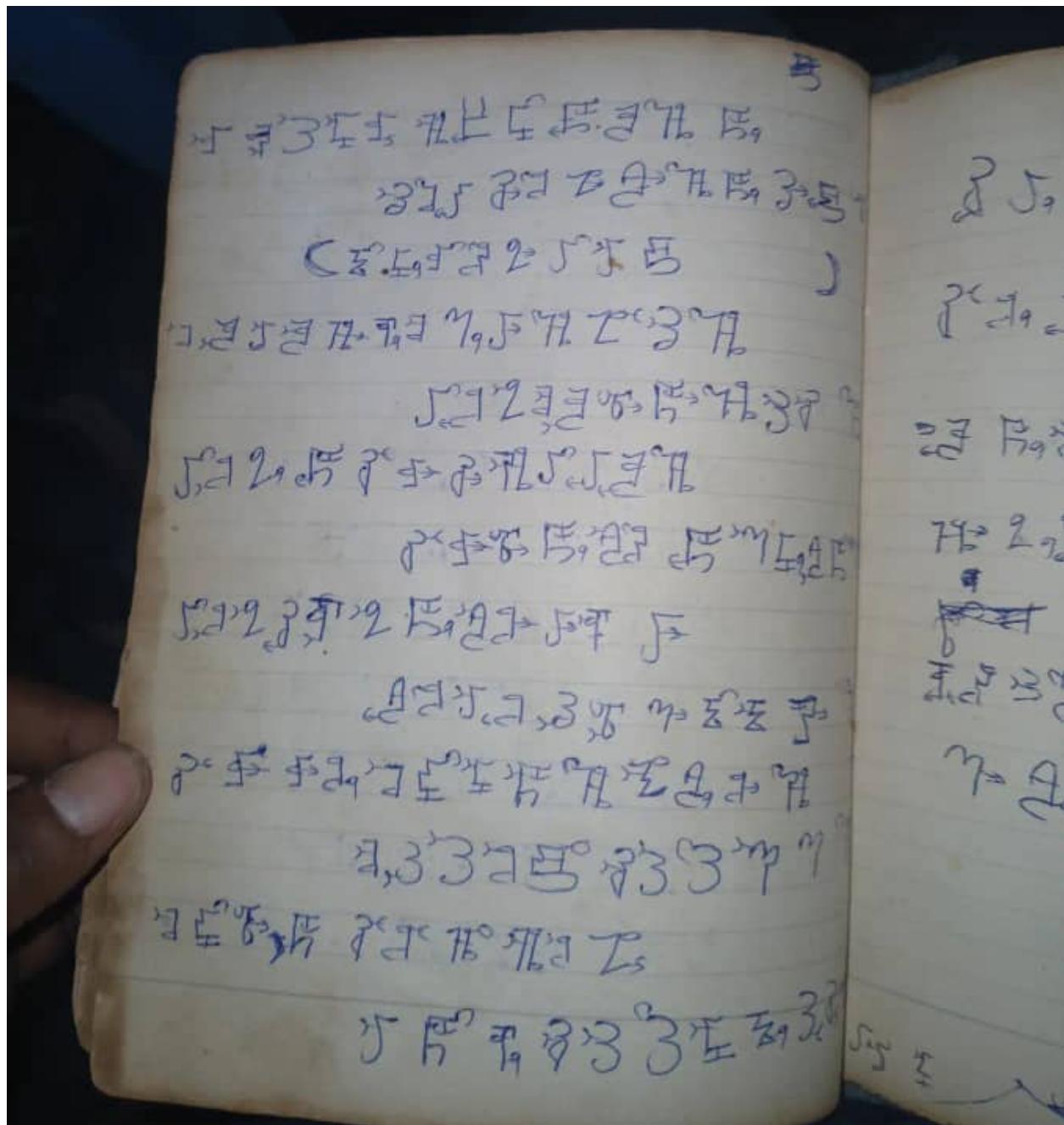


Figure 66.13. The “Shaaldaa” manuscript continued.

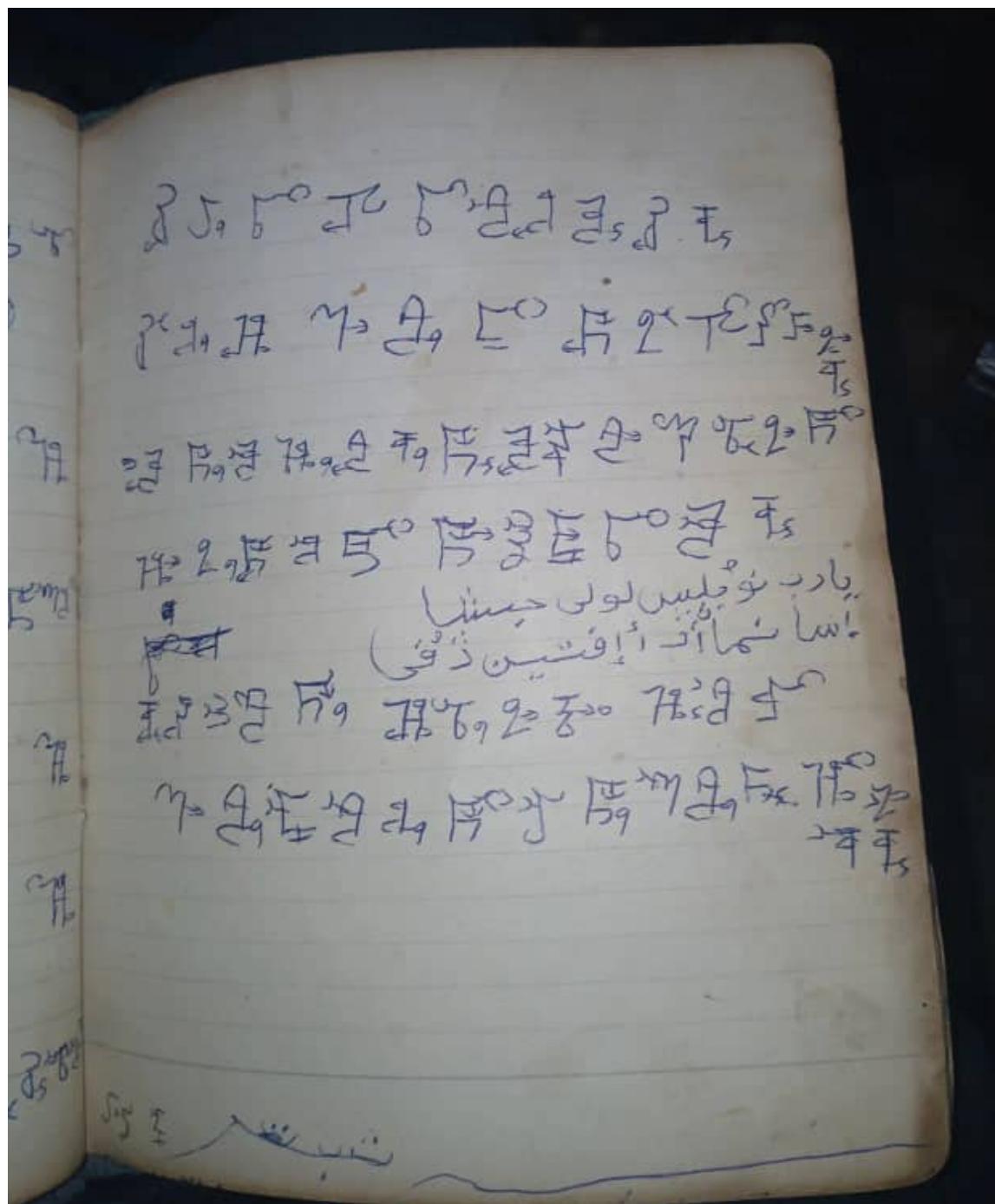


Figure 66.14. The “Shaaldaa” manuscript continued.

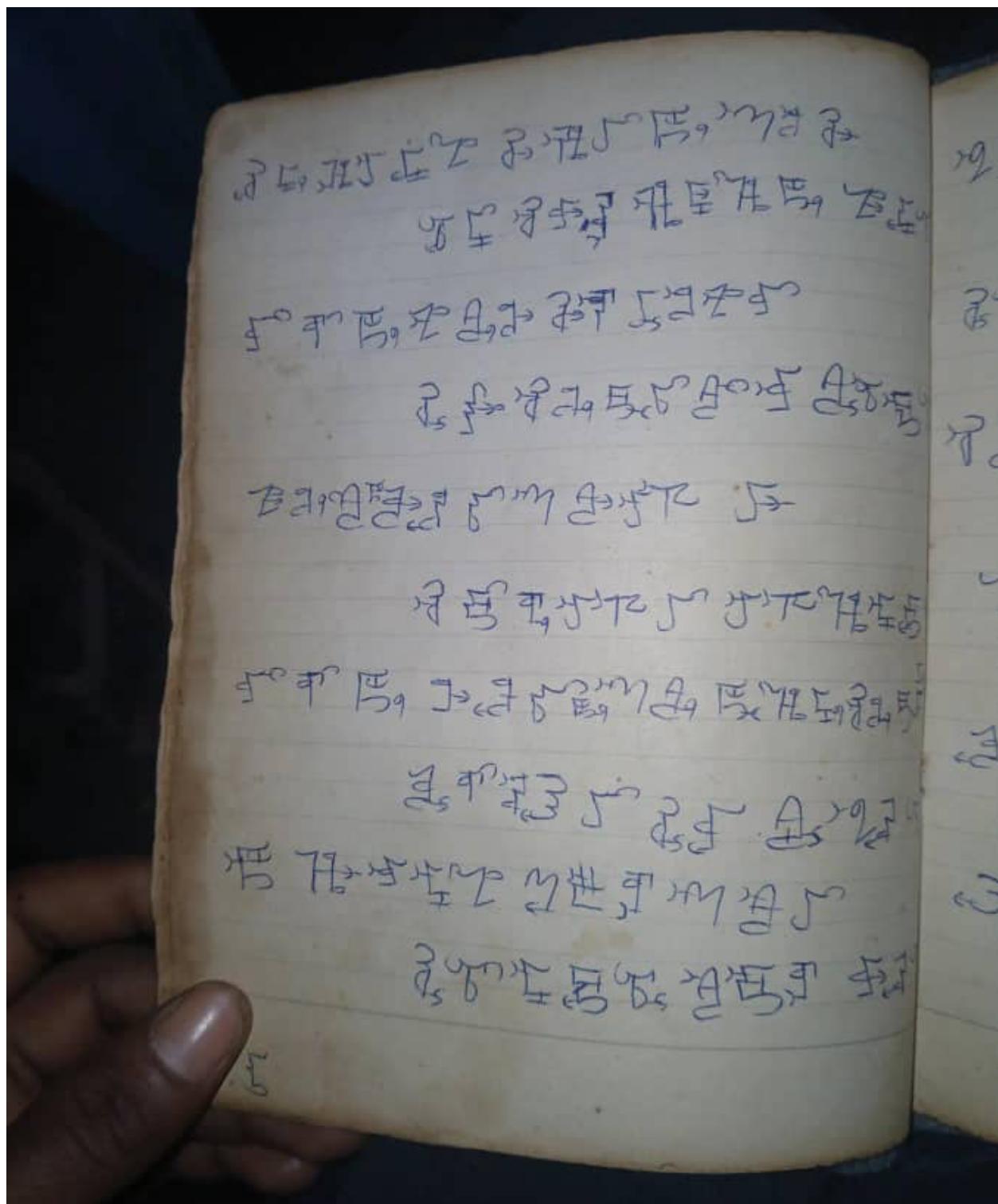


Figure 66.15. The “Shaaldaa” manuscript continued.

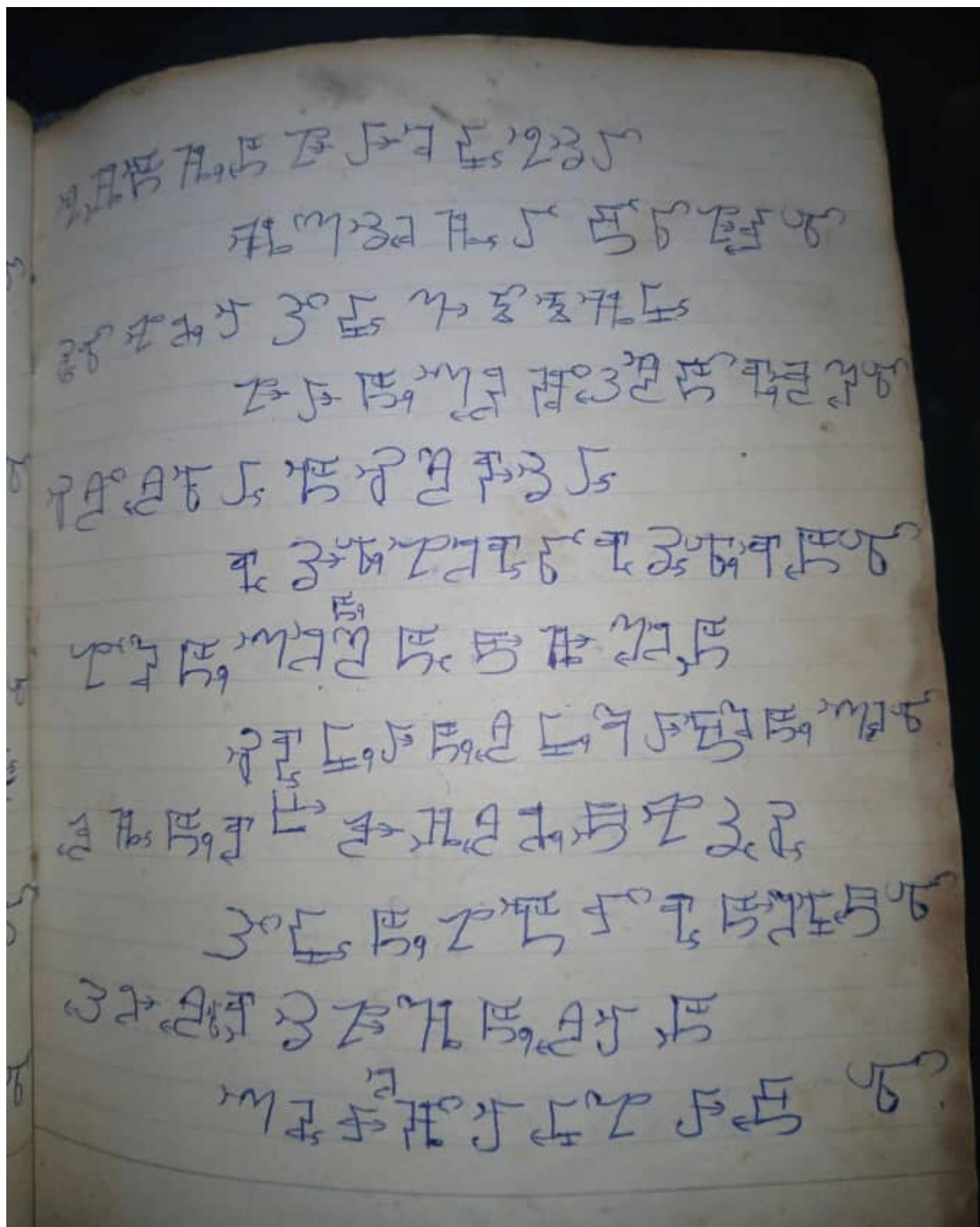


Figure 66.16. The “Shaaldaa” manuscript continued.

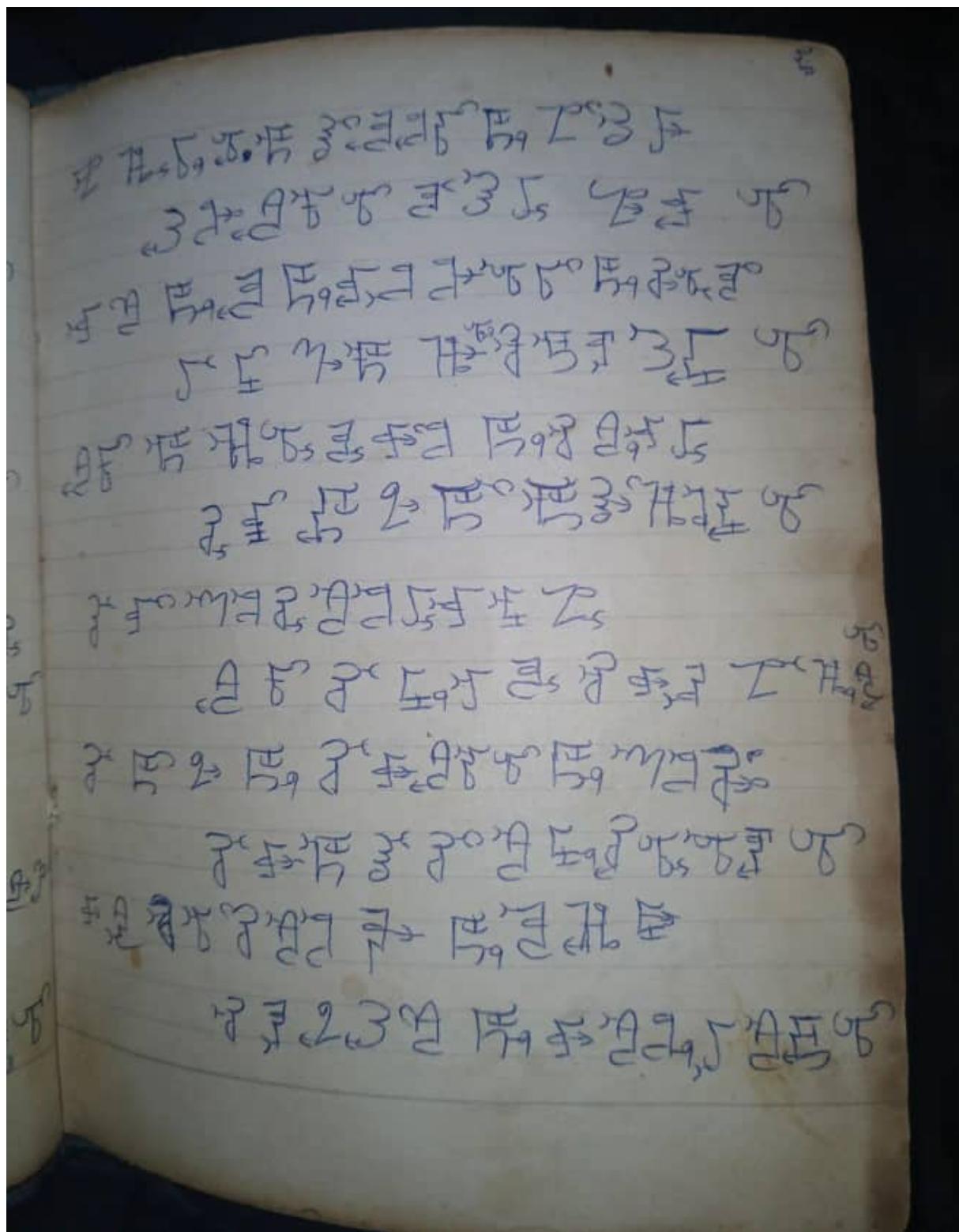


Figure 66.17. The “Shaaldaa” manuscript continued.

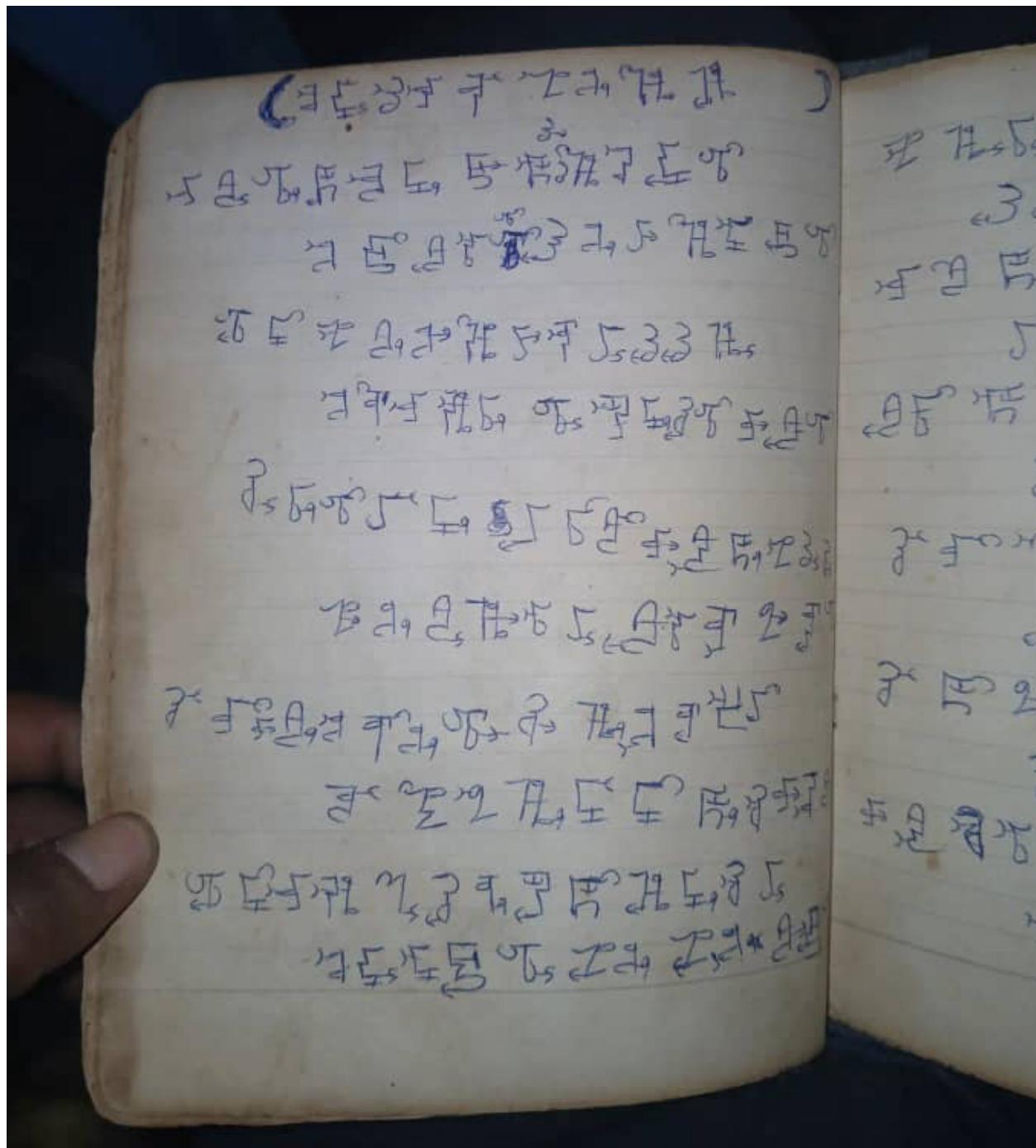


Figure 66.18. The "Shaaldaa" manuscript continued.

19 ፩ F ፻ ፻ > ፻
10 11 19 19 1- 1F 1- 1-
1- 1Zn 90 91 99 99 9-
9F 9Z 93 9> 9Zn 90 91
9Zn 10 1- 1- 1- 1- 1- 1-
1- 1- 1- 1- 1- 1- 1- 1-
F9 F- 1- FF FZ F- F>
FZ 0Z0 0Z1 0Z9 0Z9 0Z1
ZF 0Z0 0Z> 0Z7 0Z6 0Z0
F1 75 79 7- 7F 77 77
7> 7Zn 70 >1 >5 >9 >1
7> 7Zn >0 >1 >5 >9 >1
7F >0 >7 >> >Zn Z0
Z1 Z9 Z9 Zn-1 ZnF Z9
Z7 Zn > Zn Zn 100.

Figure 67. Shaaldaa numbers by Ibsa Sheikh Mahammadsiraac.

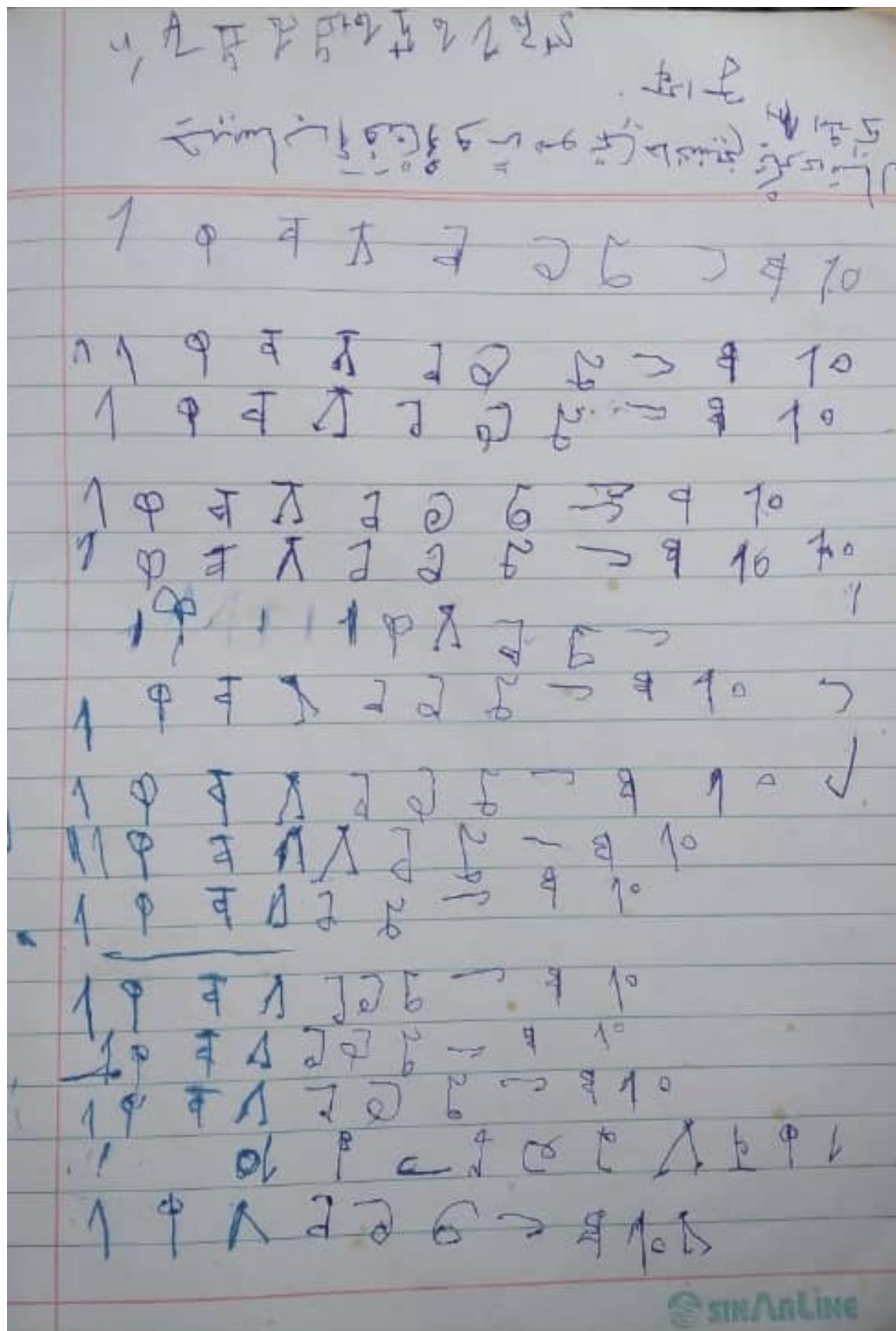


Figure 68. Shaaldaa numbers by Sheikh Nuradin Ahmad.

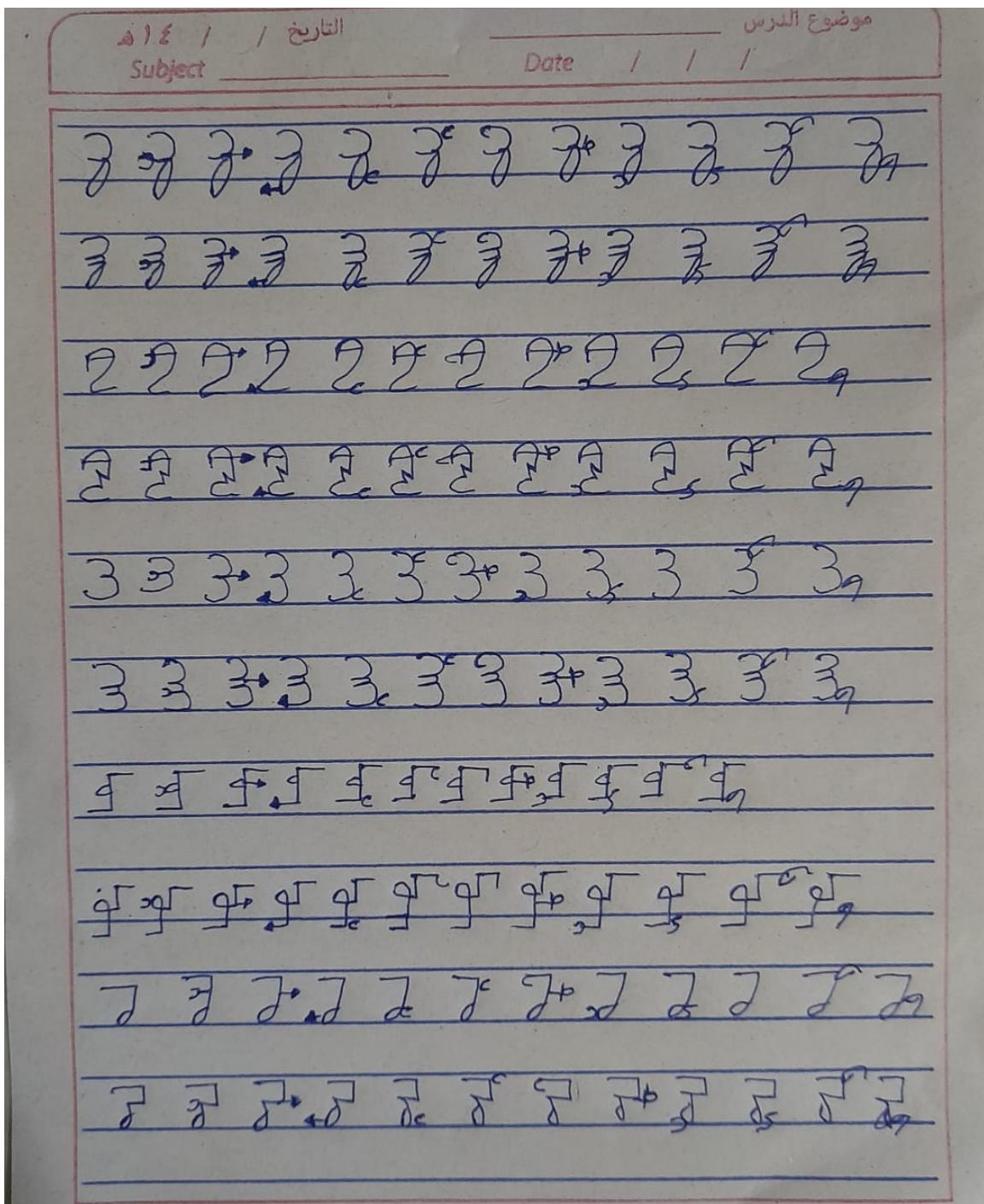


Figure 69.1. The Shaaldaa syllabary as written by Martu Si Malee Gadaa (1 of 8)

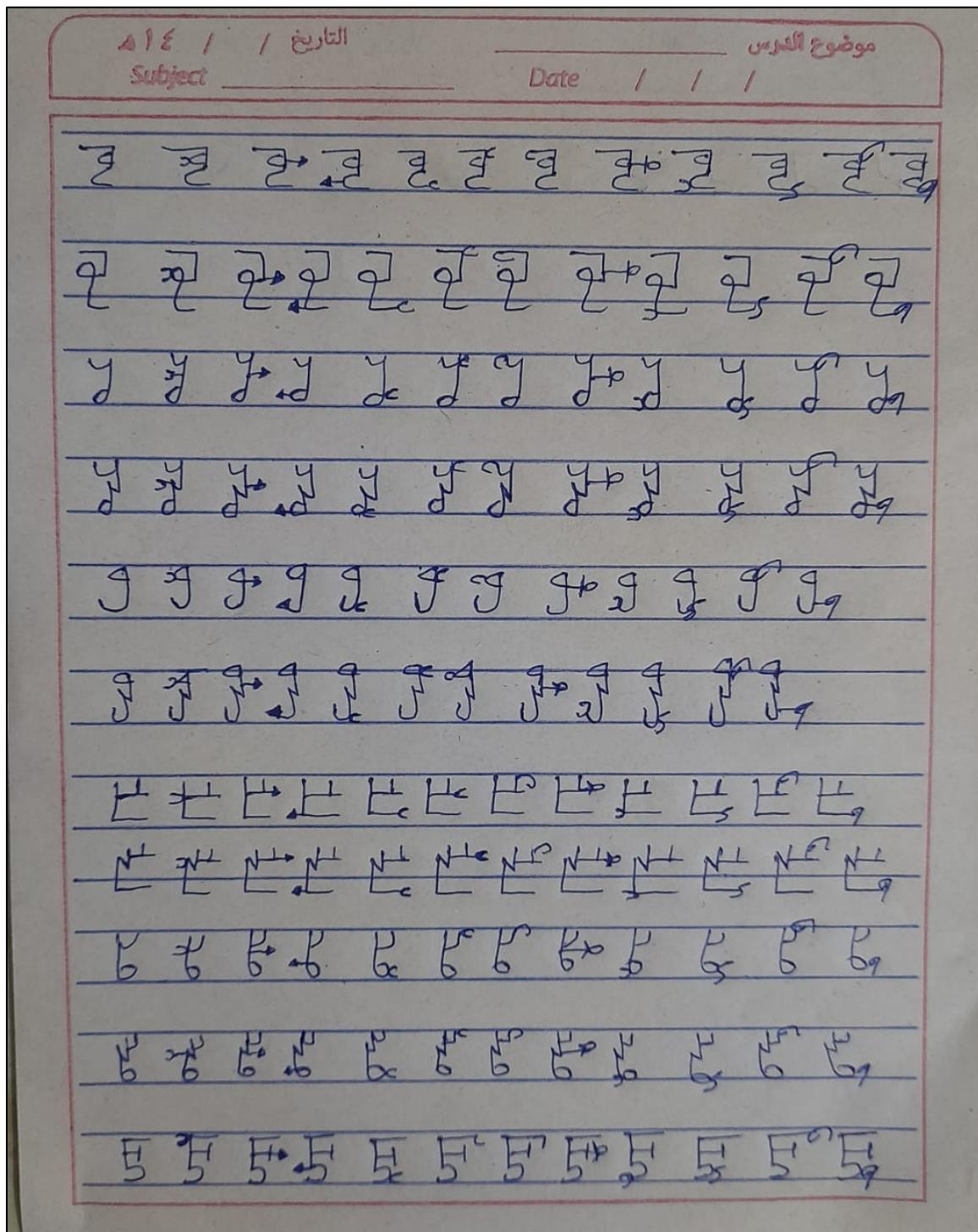


Figure 69.2. The Shaaldaa syllabary as written by Martu Si Malee Gadaa (2 of 8)

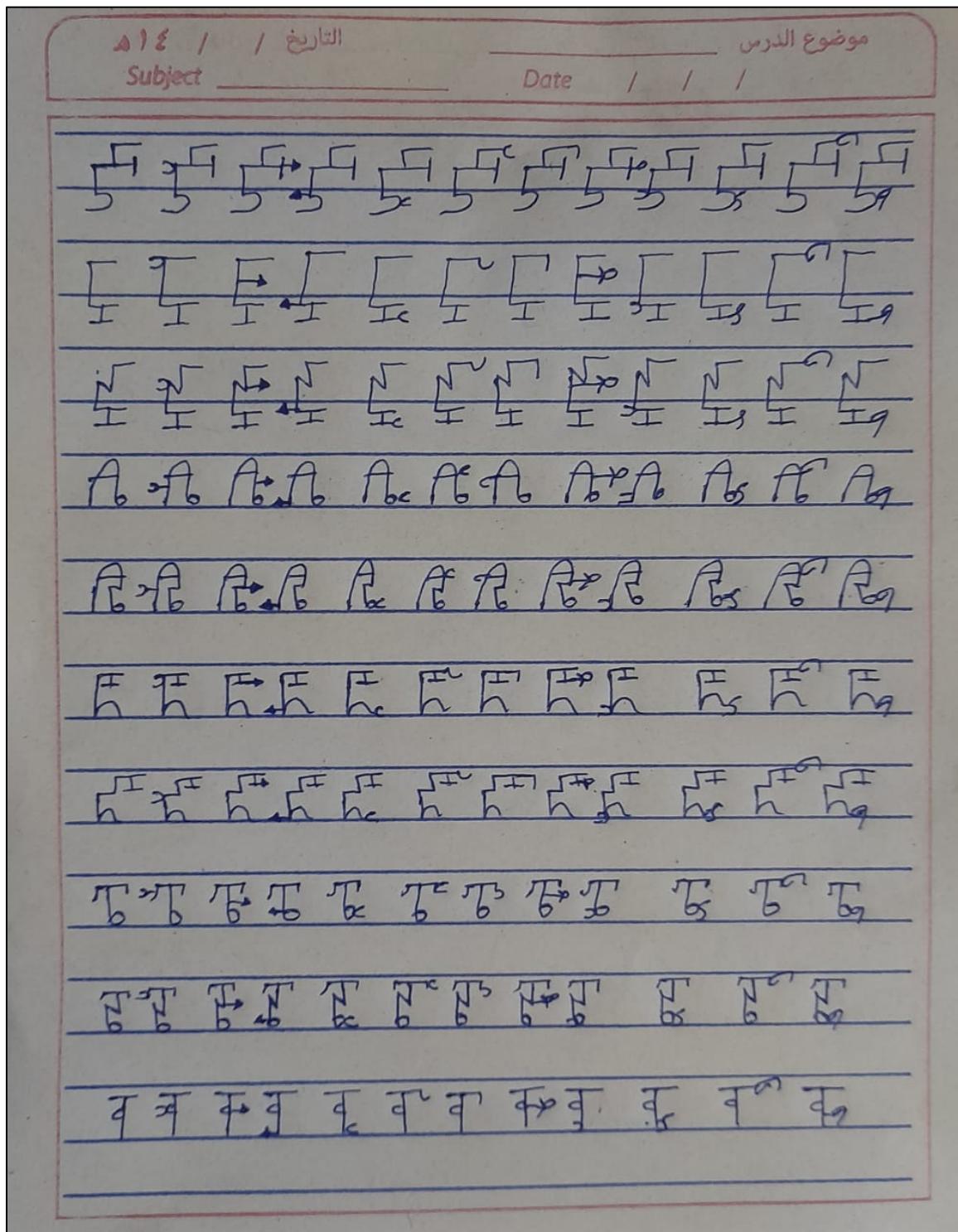


Figure 69.3. The Shaaldaa syllabary as written by Martu Si Malee Gadaa (3 of 8)

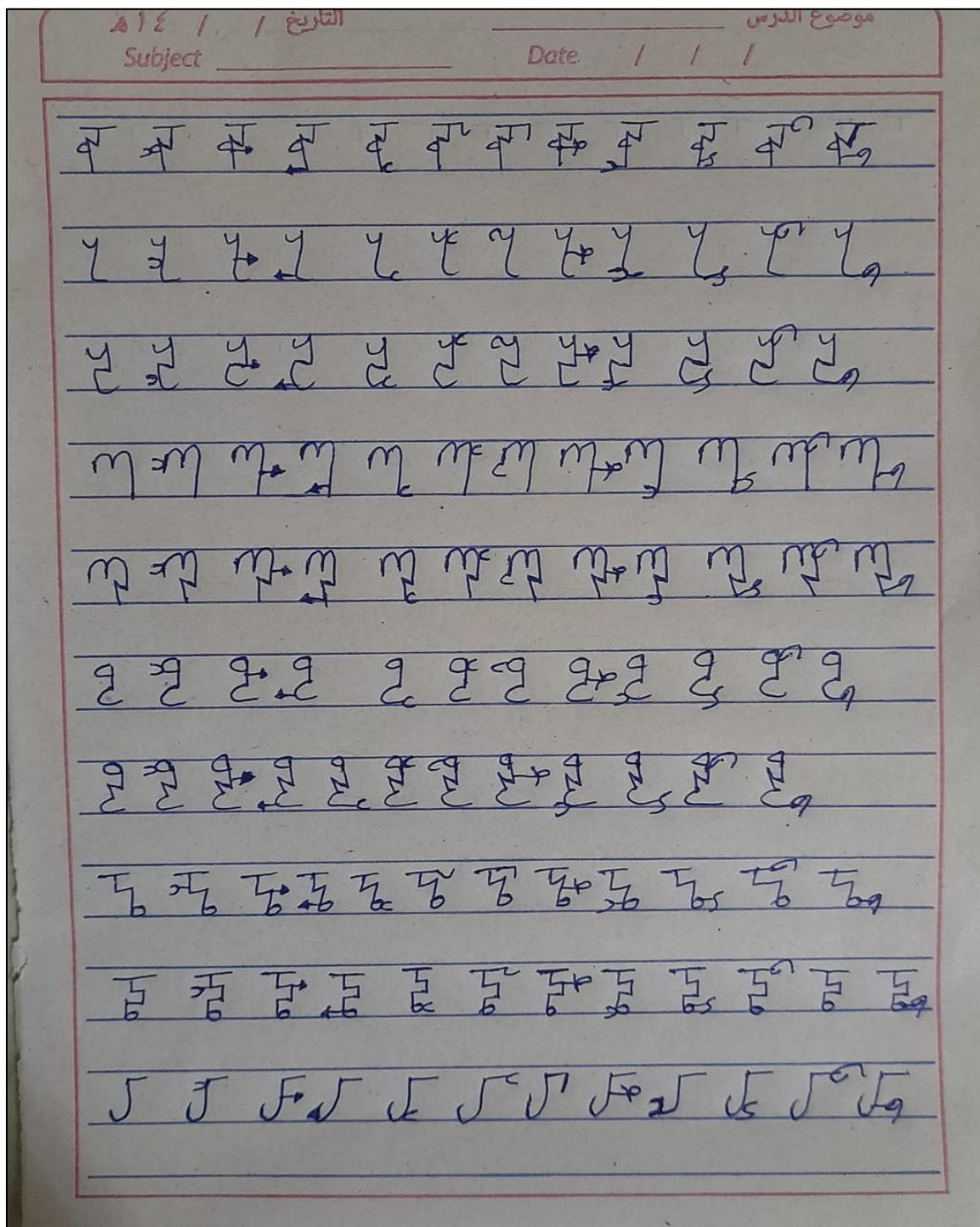


Figure 69.4. The Shaaldaa syllabary as written by Martu Si Malee Gadaa (4 of 8)

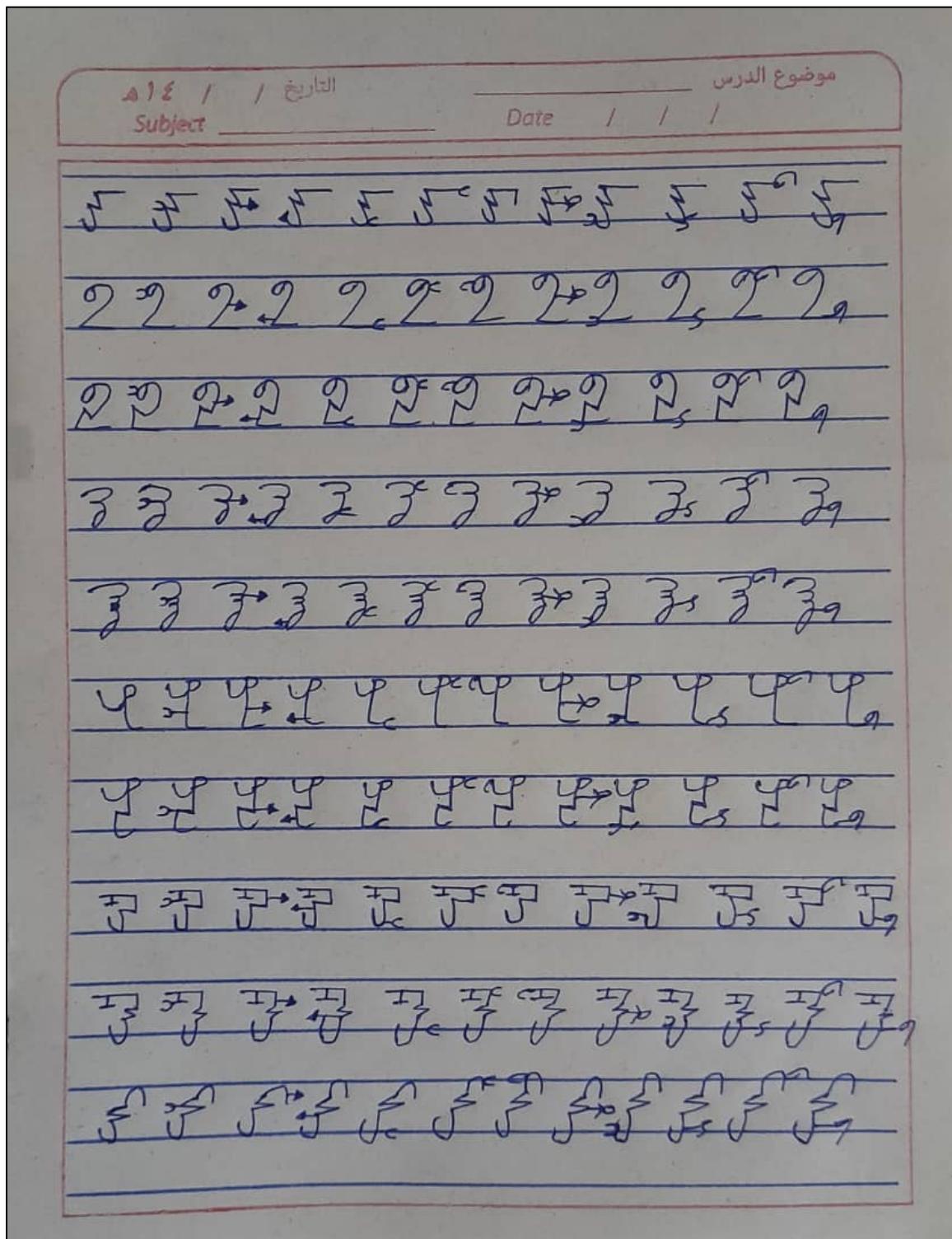


Figure 69.5. The Shaaldaa syllabary as written by Martu Si Malee Gadaa (5 of 8)

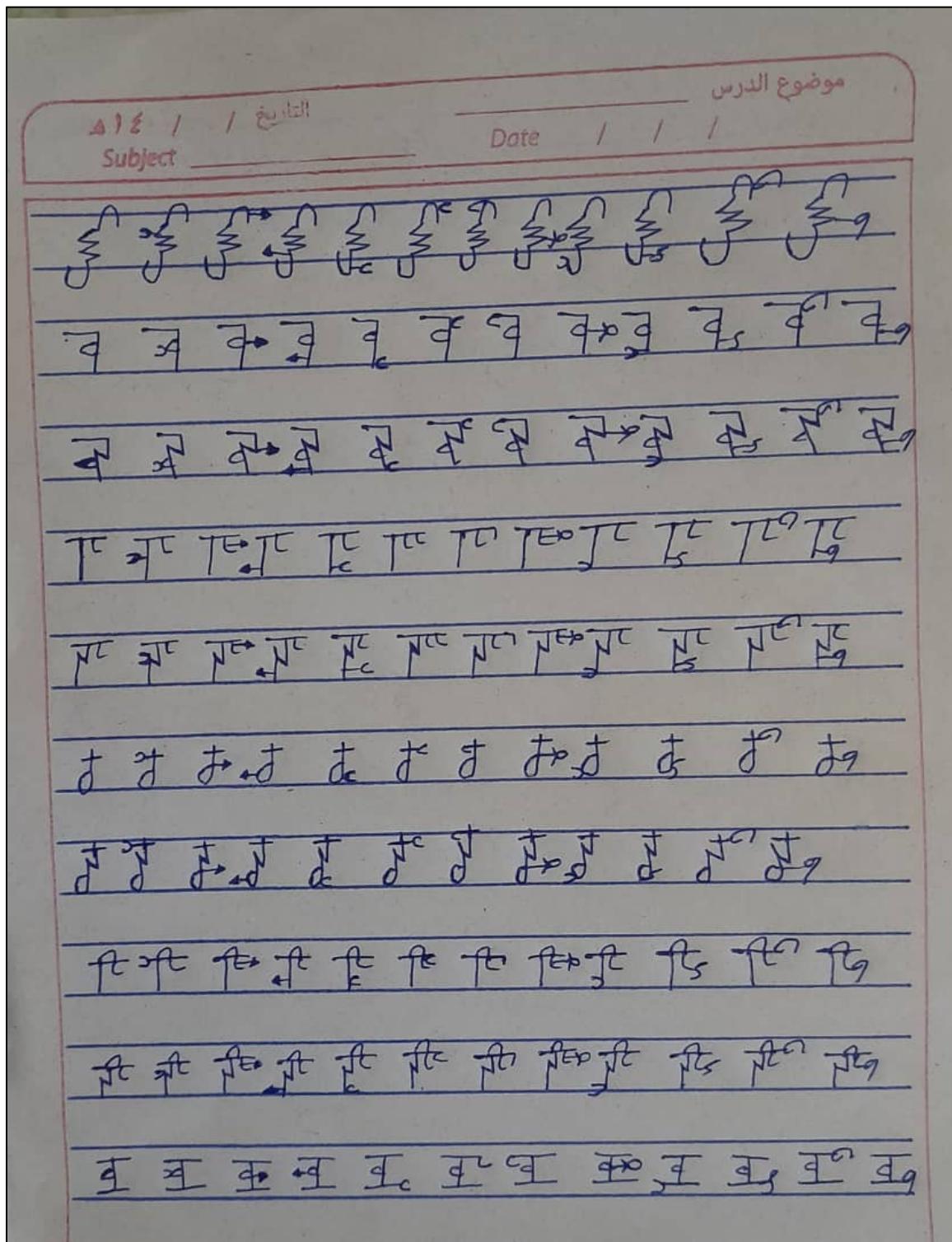


Figure 69.6. The Shaaldaa syllabary as written by Martu Si Malee Gadaa (6 of 8)

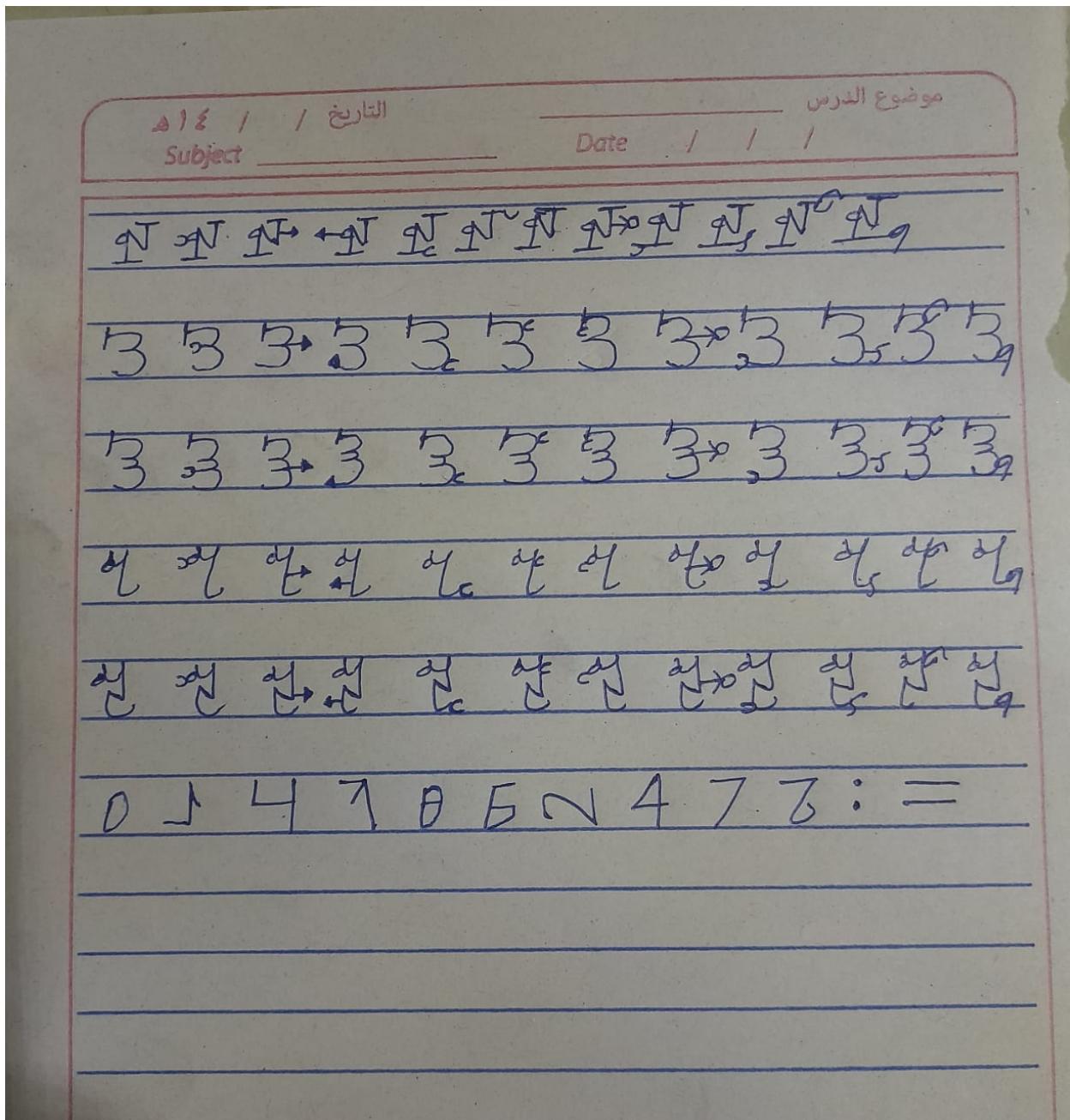


Figure 69.7. The Shaaldaa syllabary as written by Martu Si Malee Gadaa (7 of 8)

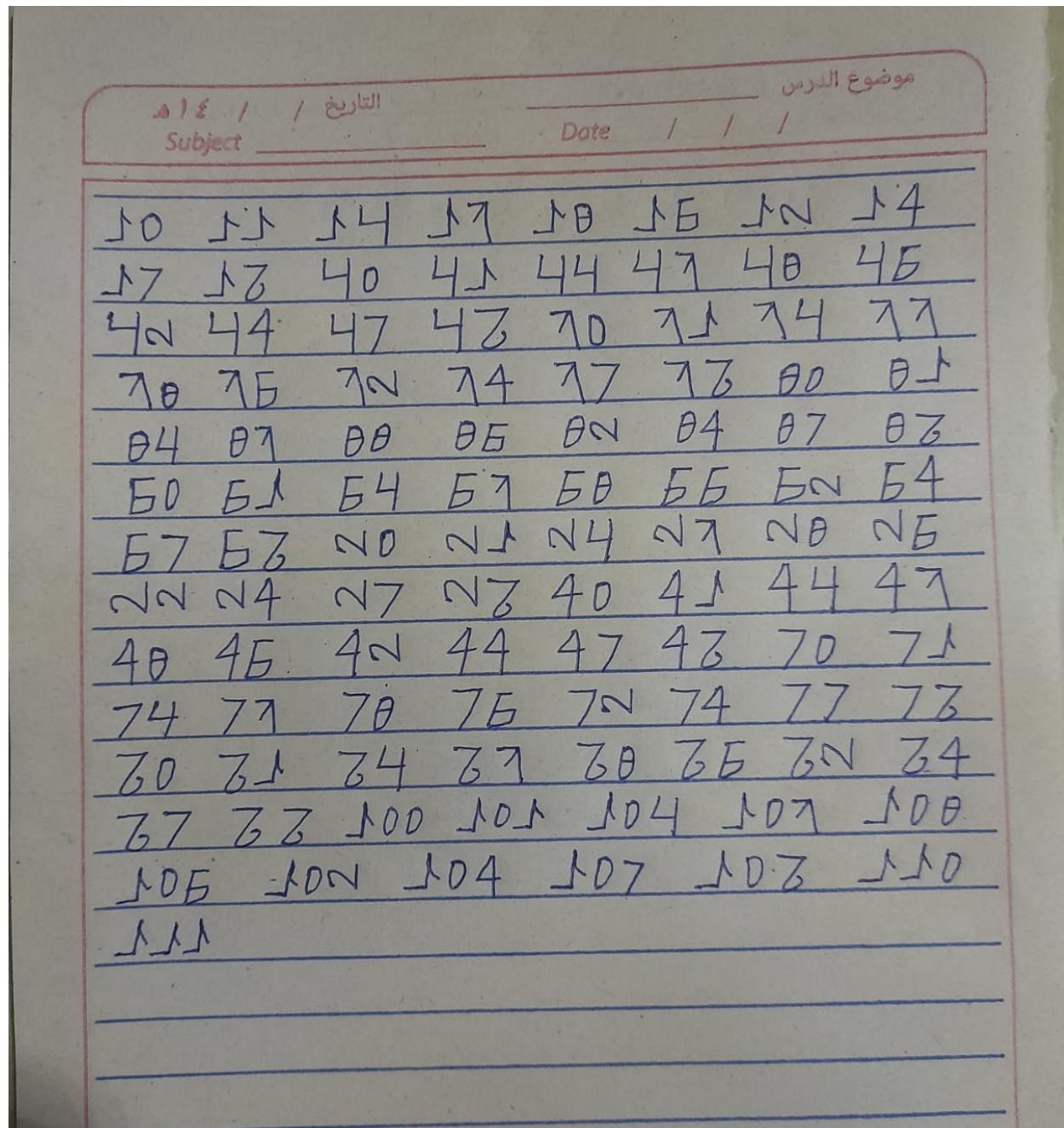


Figure 69.8. The Shaaldaa numeral samples for values “10” and above as written by Martu Si Malee Gadaa (8 of 8)

Graphic Irregularity in the Shaaldaa script

Blue cells indicate the 26 cases where a typical left-side hook used for the majority of the <aa> syllables has <i>not</i> been used, in favor of a right-side downward stroke or hook.	Orange cells indicate the 103 cases where the typical "c", "ɔ", "s"-esque shape component of graphemes has an additional "-" stroke. The bottom stroke of the glyph body may also have bent upward to join the mark.
---	--

Current Oromo Orthography	Base Glyph	<a> /a/	<u> /ʊ/	<i> /ɪ/	<e> /ɛ/	<o> /ɔ/	<aa> /ɑ:/	<uu> /u:/	<ii> /i:/	<ee> /e:/	<oo> /o:/	/C/
vowel / '	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
vowel / '	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
b	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
bb	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
j	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
jj	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
d	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
dd	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
h	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
hh	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
w	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
ww	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
z	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
zz	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
h	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
hh	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
x	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
xx	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
y	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
yy	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
k	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
kk	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
l	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
ll	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
m	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
mm	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
n	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
nn	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩
s	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩	፩

Table 6. Graphic irregularities in the Shaaldaa script.

ss	સ્સ	શ્સ	સ્સ	ફ્સ	સ્સ									
f	વ	શ	ક	ખ	વ્સ	વ	વ	ક	ખ	વ	શ	ક	ખ	વ
ff	દ	શ	ક	ખ	દ્વ	દ	દ	દ્વ	દ્વ	દ	શ	દ્વ	દ	દ્વ
s	એ	શ્ર	દ્વ	ન્ન	એ	એ	એ	એ	એ	એ	શ્ર	ન્ન	એ	એ
ss	એ	શ્ર	સ્સ	સ્સ	એ	એ	એ	એ	એ	એ	શ્ર	સ્સ	એ	એ
q	એ	શ્ર	ન્ન	ન્ન	એ	એ	એ	એ	એ	એ	શ્ર	ન્ન	એ	એ
qq	એ	શ્ર	ન્ન	ન્ન	એ	એ	એ	એ	એ	એ	શ્ર	ન્ન	એ	એ
r	એ	શ્ર	દ્વ	ન્ન	એ	એ	એ	એ	એ	એ	શ્ર	ન્ન	એ	એ
rr	એ	શ્ર	દ્વ	ન્ન	એ	એ	એ	એ	એ	એ	શ્ર	ન્ન	એ	એ
sh	એ	શ્ર	સ્સ	સ્સ	એ	એ	એ	એ	એ	એ	શ્ર	સ્સ	એ	એ
shsh	એ	શ્ર	સ્સ	સ્સ	એ	એ	એ	એ	એ	એ	શ્ર	સ્સ	એ	એ
t	એ	શ્ર	સ્સ	સ્સ	એ	એ	એ	એ	એ	એ	શ્ર	સ્સ	એ	એ
tt	એ	શ્ર	સ્સ	સ્સ	એ	એ	એ	એ	એ	એ	શ્ર	સ્સ	એ	એ
kh	એ	શ્ર	એ	એ	એ	એ	એ	એ	એ	એ	શ્ર	એ	એ	એ
khkh	એ	શ્ર	એ	એ	એ	એ	એ	એ	એ	એ	શ્ર	એ	એ	એ
dh	એ	શ્ર	એ	એ	એ	એ	એ	એ	એ	એ	શ્ર	એ	એ	એ
dhdh	એ	શ્ર	એ	એ	એ	એ	એ	એ	એ	એ	શ્ર	એ	એ	એ
g	એ	શ્ર	એ	એ	એ	એ	એ	એ	એ	એ	શ્ર	એ	એ	એ
gg	એ	શ્ર	એ	એ	એ	એ	એ	એ	એ	એ	શ્ર	એ	એ	એ
c	એ	શ્ર	એ	એ	એ	એ	એ	એ	એ	એ	શ્ર	એ	એ	એ
cc	એ	શ્ર	એ	એ	એ	એ	એ	એ	એ	એ	શ્ર	એ	એ	એ
ny	એ	શ્ર	એ	એ	એ	એ	એ	એ	એ	એ	શ્ર	એ	એ	એ
nyny	એ	શ્ર	એ	એ	એ	એ	એ	એ	એ	એ	શ્ર	એ	એ	એ
ch	એ	શ્ર	એ	એ	એ	એ	એ	એ	એ	એ	શ્ર	એ	એ	એ
chch	એ	શ્ર	એ	એ	એ	એ	એ	એ	એ	એ	શ્ર	એ	એ	એ
ph	એ	શ્ર	એ	એ	એ	એ	એ	એ	એ	એ	શ્ર	એ	એ	એ
phph	એ	શ્ર	એ	એ	એ	એ	એ	એ	એ	એ	શ્ર	એ	એ	એ
a	એ	એ	એ	એ	એ	એ	એ	એ	એ	એ	એ	એ	એ	એ
aa	એ	એ	એ	એ	એ	એ	એ	એ	એ	એ	એ	એ	એ	એ
p	એ	શ્ર	એ	એ	એ	એ	એ	એ	એ	એ	શ્ર	એ	એ	એ
pp	એ	શ્ર	એ	એ	એ	એ	એ	એ	એ	એ	શ્ર	એ	એ	એ
v	એ	શ્ર	એ	એ	એ	એ	એ	એ	એ	એ	શ્ર	એ	એ	એ
vv	એ	શ્ર	એ	એ	એ	એ	એ	એ	એ	એ	શ્ર	એ	એ	એ
zy	એ	શ્ર	એ	એ	એ	એ	એ	એ	એ	એ	શ્ર	એ	એ	એ
zyzy	એ	શ્ર	એ	એ	એ	એ	એ	એ	એ	એ	શ્ર	એ	એ	એ
ts	એ	શ્ર	એ	એ	એ	એ	એ	એ	એ	એ	શ્ર	એ	એ	એ
tsts	એ	શ્ર	એ	એ	એ	એ	એ	એ	એ	એ	શ્ર	એ	એ	એ

Handwriting Dissemination of the Shaaldaa Script

The following diagram depicts the transfer of knowledge of the Shaaldaa script along with the glyph preferences of the educators. Table 3 is reproduced here for convenience and the numeral sets are given labels *N1-N4* which are then applied in the diagram to show their origin and propagation.

	0	1	2	3	4	5	6	7	8	9
N1	Sheikh Mahommadsiraac Sheikh Bakrii	o	↓	፩	፻	፻	፻	፻	፻	፻
N2	Sheikh Muhammad Rashad	o	፩	፩	፩	፩	፩	፩	፩	፩
N3	Ibsa Sheikh Mahommadsiraac	o	፩	፩	፩	፩	፩	፩	፩	፩
N4	Sheikh Nuradin Ahmad	o	፩	፩	፩	፩	፩	፩	፩	፩

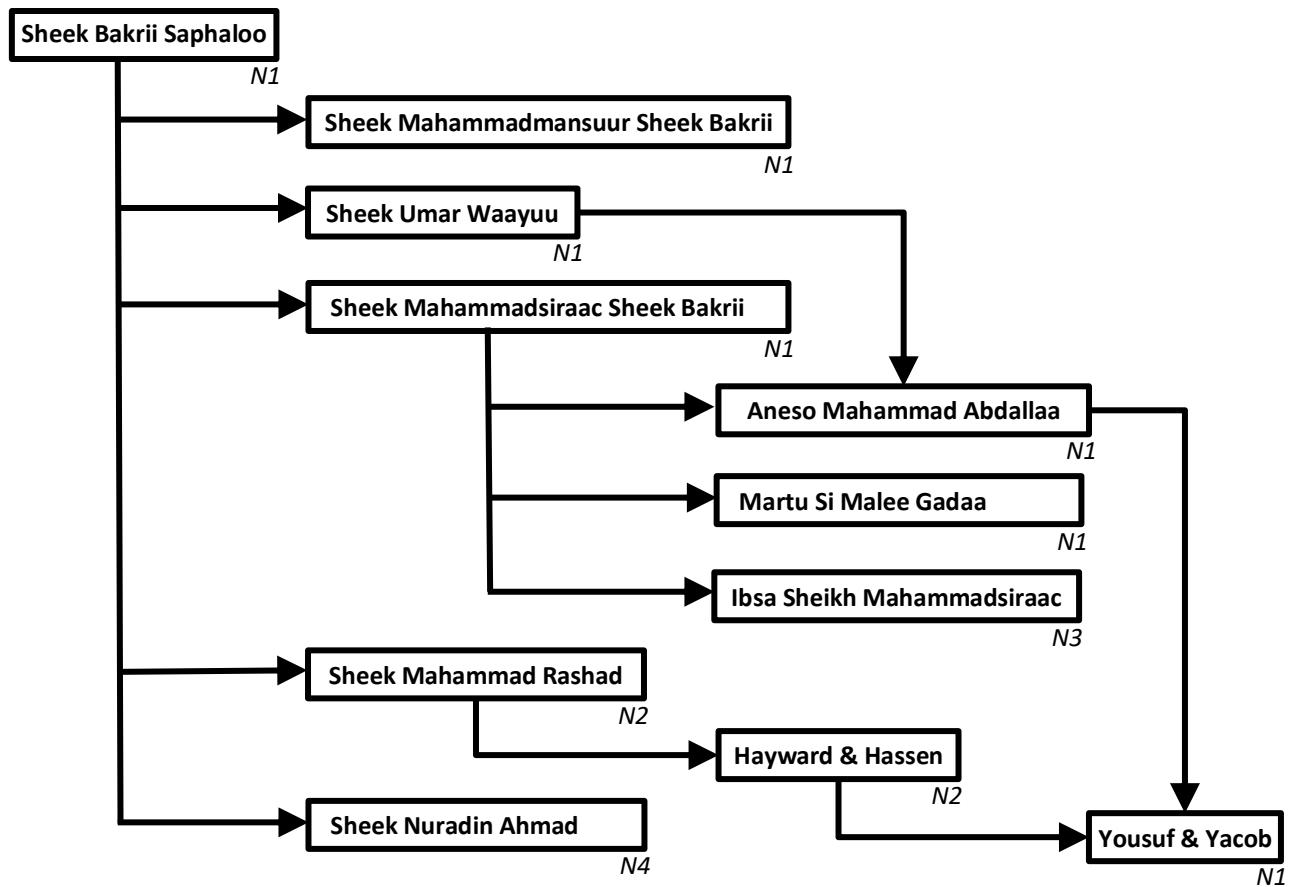


Figure 70. Shaaldaa glyph dissemination through educators from their origin to the authors.

X ISO Proposal Summary Forms

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

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

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

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

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

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

A. Administrative

1. Title:	Proposal to Encode Shaaldaa script in the USC	
2. Requester's name:	Oreen Yousuf, Daniel Yacob	
3. Requester type (Member body/Liaison/Individual contribution):	Individual Contribution	
4. Submission date:	2025-11-07	
5. Requester's reference (if applicable):		
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 characters):	Yes	
Proposed name of script:	Shaaldaa	
b. The proposal is for addition of character(s) to an existing block:		
Name of the existing block:	804	
2. Number of characters in proposal:		
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) <input type="checkbox"/>	B.2-Specialized (large collection) <input type="checkbox"/>
C-Major extinct <input type="checkbox"/>	D-Attested extinct <input type="checkbox"/>	E-Minor extinct <input type="checkbox"/>
F-Archaic Hieroglyphic or Ideographic <input type="checkbox"/>	G-Obscure or questionable usage symbols <input type="checkbox"/>	
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 the standard?	Athinkra	
b. Identify the party granting a license for use of the font by the editors (include address, e-mail, ftp-site, etc.):	Athinkra, LLC, yacob@geez.org , https://github.com/athinkra/sheek-bakrii-saphaloo	
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	
	A sorting description is enclosed.	
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.		

C. Technical - Justification

1. Has this proposal for addition of character(s) been submitted before?	<input type="checkbox"/> No
If YES explain:	
2. Has contact been made to members of the user community (for example: National Body, user groups of the script or characters, other experts, etc.)?	<input type="checkbox"/> Yes
If YES, with whom?	<i>Teachers/students of the script, academic experts</i>
If YES, available relevant documents:	<i>Enclosed in the proposal.</i>
3. Information on the user community for the proposed characters (for example: size, demographics, information technology use, or publishing use) is included?	<input type="checkbox"/> Yes
Reference:	<i>Enclosed in the proposal.</i>
4. The context of use for the proposed characters (type of use; common or rare)	<input type="checkbox"/> Rare
Reference:	<i>Enclosed in the proposal.</i>
5. Are the proposed characters in current use by the user community?	<input type="checkbox"/> Yes
If YES, where? Reference:	<i>Oromia Region, Ethiopia; Dire Dawa, Ethiopia; and likely elsewhere</i>
6. After giving due considerations to the principles in the P&P document must the proposed characters be entirely in the BMP?	<input type="checkbox"/> No
If YES, is a rationale provided?	
If YES, reference:	
7. Should the proposed characters be kept together in a contiguous range (rather than being scattered)?	<input type="checkbox"/> Yes
8. Can any of the proposed characters be considered a presentation form of an existing character or character sequence?	<input type="checkbox"/> No
If YES, is a rationale for its inclusion provided?	
If YES, reference:	
9. Can any of the proposed characters be encoded using a composed character sequence of either existing characters or other proposed characters?	<input type="checkbox"/> No
If YES, is a rationale for its inclusion provided?	
If YES, reference:	
10. Can any of the proposed character(s) be considered to be similar (in appearance or function) to, or could be confused with, an existing character?	<input type="checkbox"/> Yes
If YES, is a rationale for its inclusion provided?	<input type="checkbox"/> Yes
If YES, reference:	<i>Enclosed in the proposal</i>
11. Does the proposal include use of combining characters and/or use of composite sequences?	<input type="checkbox"/> No
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:	
12. Does the proposal contain characters with any special properties such as control function or similar semantics?	<input type="checkbox"/> No
If YES, describe in detail (include attachment if necessary)	
13. Does the proposal contain any Ideographic compatibility characters?	<input type="checkbox"/> No
If YES, are the equivalent corresponding unified ideographic characters identified?	
If YES, reference:	