

**To** : Script Ad Hoc/Unicode Technical Committee  
**From** : Febri Muhammad Nasrullah <[niomi13@proton.me](mailto:niomi13@proton.me)>  
**Subject** : Proposal to Encode 4 Old Sundanese Characters  
**Date** : 2026-03-19

## 1. Proposal History

[L2/26-033](#) On Unencoded Characters for Old Sundanese

— Febri Muhammad Nasrullah

[L2/26-010](#) Recommendations to UTC #186 (January 2026) on Script Proposals

— Script Encoding Working Group

*Related documents:*

[L2/06-002](#) Proposal for encoding the Sundanese script in the BMP of the UCS

— Michael Everson

## 2. Introduction

This document proposes the encoding of four Old Sundanese characters in the existing Sundanese Supplement block.

| No. | Glyph                                                                               |                                                                                     | Possible Name            | Correspondence |          |          |
|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------|----------------|----------|----------|
|     |                                                                                     |                                                                                     |                          | Kawi           | Javanese | Balinese |
| 1   |    |    | SUNDANESE LETTER JNYA    | ᮊ              | ᮊ        | ᮊ        |
|     |                                                                                     |                                                                                     |                          | U+11F33        | U+A998   | U+1B4C   |
| 2   |  |  | SUNDANESE LETTER TRA     | ᮋ              | ᮋ        | ᮋ        |
|     |                                                                                     |                                                                                     |                          | U+11F1C        | U+A99B   | U+1B1D   |
| 3   |  |  | SUNDANESE LETTER RO      | ᮌ              | N/A      | N/A      |
|     |                                                                                     |                                                                                     |                          | U+11F52        |          |          |
| 4   |  |  | SUNDANESE LETTER FINAL N | N/A            | N/A      | N/A      |

This proposal also includes script extensions for three Kawi characters that also occur in Sundanese.

| No. | Glyph | Name                                                      | Correspondence |          |          |
|-----|-------|-----------------------------------------------------------|----------------|----------|----------|
|     |       |                                                           | Kawi           | Javanese | Balinese |
| 1   | ᮏ     | KAWI PUNCTUATION DOT<br>• also used in Sundanese          | ᮏ              | N/A      | N/A      |
|     |       |                                                           | U+11F49        |          |          |
| 2   | ᮐ     | KAWI PUNCTUATION DOUBLE DOT<br>• also used in Sundanese   | ᮐ              | N/A      | N/A      |
|     |       |                                                           | U+11F4A        |          |          |
| 3   | ᮑ     | KAWI PUNCTUATION SPACE FILLER<br>• also used in Sundanese | ᮑ              | N/A      | ᮑ        |
|     |       |                                                           | U+11F48        |          | U+1B60   |

The details regarding glyph, code point and character name are mentioned below.

## 3. Background and Description

The Sundanese script is an indigenous writing system of western Java, historically used to write Old Sundanese and related languages, including Old Javanese. In 2009, Michael Everson submitted a proposal to encode several Old Sundanese characters in Unicode. However, that proposal did not engage sufficiently with the relevant scholarly literature and contained several inaccuracies. Several of

the proposed characters were later revised in 2021 by Ilham Nurwansah based on more comprehensive academic sources.<sup>1</sup>

Despite these efforts, many Old Sundanese characters remain unencoded in the current Unicode Standard, underscoring the need for continued research and further proposal updates to ensure accurate digital representation.

A substantial body of scholarship on Old Sundanese already exists, including transliterations into the Latin script. However, transcription back into the Sundanese script remains constrained by the absence of Unicode-encoded Old Sundanese characters. Their inclusion in Unicode will improve digital representation and interoperability across platforms and applications, while also supporting documentation, access, and revitalization initiatives related to Old Sundanese textual heritage.

The details of each proposed glyph are given below.

#### **Sundanese Letter TRA**

This letter theoretically corresponds to the phoneme /ʈa/ in Sanskrit and Old Javanese. However, over time, this letter also occurred to represent consonant cluster /tra/ depending on the language of the text. The /ʈa/ value is usually preserved in texts using Old Javanese language. For instance, Sanskrit *bhaṭāra* appears in Old Javanese language texts as *baṭara* , whereas in Old Sundanese language texts it appears as *batara*  due to assimilation of /ʈ/ into /t/.<sup>2</sup> In Old Sundanese texts, this is usually used for /tra/ sound, for example Sanskrit *śāstra* may appear as *sastra* .<sup>3</sup> This letter frequently occurs in sources such as the Kabuyutan Ciburuy manuscripts and the Wirit Nur Muhammad text (Figure 7). According to the DHARMA transliteration guide, the strict transliteration of this character is *ṭa*, while a more flexible transliteration renders it as *tra*.<sup>4</sup>

#### **Sundanese Letter JNYA**

This letter corresponds to the consonant cluster /*ḍṇa*/ in Sanskrit. In the Kabuyutan Ciburuy Manuscripts and Pabyantaraan text, it appears in the name of a narrative figure, *Ajñana* (Figure 6).<sup>5</sup> Additionally, the use of a conjunct stacking form to represent the same phoneme is also attested within the same manuscript (Figure 1).<sup>6</sup>

#### **Sundanese Letter FINAL N**

This letter is unique as it has no equivalent in its parent script, Kawi, nor in its sister scripts, Javanese and Balinese. The LETTER FINAL N functions as a substitute for the LETTER NA when its inherent vowel has been removed. It is found in Kabuyutan Ciburuy manuscripts (Figure 5).<sup>7</sup>

#### **Sundanese Letter RO**

This letter functions as a letter representing the syllable *ro*, effectively replacing the combination of LETTER RA + VOWEL SIGN O (Figure 4). When used in this capacity, dependent consonant signs may be

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<sup>1</sup> See [L2/21-221](#).

<sup>2</sup> Gunawan and Griffiths (2021:190; Nurwansah 2020:11)

<sup>3</sup> Nurwansah (2021:11; Sopian 2020:135)

<sup>4</sup> Balogh and Griffiths (2020:21; Noviana 2020:161)

<sup>5</sup> Mamat Ruhimat, Aditia Gunawan, and Tien Wartini (2014:9)

<sup>6</sup> Sopian (2020:138)

<sup>7</sup> Sopian (2020:136)

attached.<sup>8</sup> According to the DHARMA transliteration guide, the strict transliteration of this character is 2 (number two), while a more flexible transliteration renders it as *ro*.<sup>9</sup>

#### **Punctuation DOT**

The punctuation serves the same function as the DEVANAGARI DANDA, namely as a marker for commas, pauses, or line breaks. Additionally, it is used to enclose Sundanese numerals, preventing potential confusion, as Sundanese numerals share visual similarities with Sundanese script characters (Figure 3).<sup>10</sup>

#### **Punctuation DOUBLE DOT**

Along with PUNCTUATION DOT, this punctuation used to enclose BINDU punctuations (Figure 2). It occurs in Pabyantaraan text.<sup>11</sup>

#### **SPACE FILLER**

It's derived from the KAWI PUNCTUATION SPACE FILLER and used to justify texts or to fill gaps that are too small to fit another letter at the middle or end of a line (Figure 2).<sup>12</sup>

### **4. Character Properties**

UnicodeData.txt

```
1CC8;SUNDANESE LETTER JNYA;Lo;0;L;;;;N;;;;;
1CC9;SUNDANESE LETTER TRA;Lo;0;L;;;;N;;;;;
1CCA;SUNDANESE LETTER RO;Lo;0;L;;;;N;;;;;
1CCB;SUNDANESE LETTER FINAL N;Lo;0;L;;;;N;;;;;
```

IndicSyllabicCategory.txt

```
1CC8      ; Consonant # Lo      SUNDANESE LETTER JNYA
1CC9      ; Consonant # Lo      SUNDANESE LETTER TRA
1CCA      ; Consonant # Lo      SUNDANESE LETTER RO
1CCB      ; Consonant_Final # Lo SUNDANESE LETTER FINAL N
```

LineBreak.txt

```
1CC8      ; AK # Lo      SUNDANESE LETTER JNYA
1CC9      ; AK # Lo      SUNDANESE LETTER TRA
1CCA      ; AK # Lo      SUNDANESE LETTER RO
1CCB      ; BA # Lo      SUNDANESE LETTER FINAL N
```

ScriptExtensions.txt

```
# Script_Extensions=Kawi Sund

11F48..11F4A    ; Kawi Sund # Po  [3] KAWI PUNCTUATION SPACE FILLER..KAWI
PUNCTUATION DOUBLE DOT

# Total code points: 3
```

### **5. Considerations**

Several factors must be taken into account when encoding the aforementioned characters:

1. Although both the LETTER KA and the LETTER NA use the underline system to remove the inherent vowel (as appear in LETTER FINAL K and the LETTER FINAL N), this system cannot be applied to other letters. In addition to the lack of attestation, its application may lead to functional conflicts. For instance, applying the underline system to the LETTER JA would produce *jña* rather than a non-

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<sup>8</sup> Sopian (2020:128)

<sup>9</sup> Balogh and Griffiths (2020:21)

<sup>10</sup> Nurwansah (2020:18, 133)

<sup>11</sup> Mamat Ruhimat et al. (2014:9)

<sup>12</sup> Balogh and Griffiths (2020:21; Nurwansah 2020:133; Sopian 2020:132)

inherent *j*. Therefore, this proposal advocates for a character-specific underlining system rather than reusing ☐ U+25CC UNDERLINE DIACRITICAL MARK.

2. Since SPACE FILLER, DOT, and DOUBLE DOT have the same forms as their Kawi counterparts, this proposal proposes reusing them via script extensions rather than encoding new characters.
3. The letterforms of Old Sundanese were not regulated or standardized by the Sundanese Script Standardization Seminar (Padjadjaran University, 28 May 2008). Accordingly, the glyph forms used in this proposal are based on reconstructed forms attested in historical manuscripts and have been adapted into existing chart glyph forms.<sup>13</sup>

## 6. Collation

The collation presented here follows the default Brahmic-style order, with the bolded entries representing the new characters proposed in this document. Priority is given to historical characters, while new standardized characters (italicized) are placed in the final row. The proposed default collation order is as follows:

A < I < ARCHAIC I < U < REU < LEU < AE < O < E < EU <  
KA < K < GA < NGA < CA < JA < **JNYA** < NYA < TA < **TRA** < DA < NA < **N** <  
PA < BA < MA < YA < RA < **RO** < LA < WA < SA < HA <  
QA < ZA < *FA* < *VA* < *XA* < *M*

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<sup>13</sup> Per SEWG's requests.

|   |                                                                                             |
|---|---------------------------------------------------------------------------------------------|
|   | 1CC                                                                                         |
| 0 | <br>1CC0   |
| 1 | <br>1CC1   |
| 2 | <br>1CC2   |
| 3 | <br>1CC3   |
| 4 | <br>1CC4   |
| 5 | <br>1CC5   |
| 6 | <br>1CC6  |
| 7 | <br>1CC7 |
| 8 | <br>1CC8 |
| 9 | <br>1CC9 |
| A | <br>1CCA |
| B | <br>1CCB |
| C |                                                                                             |
| D |                                                                                             |
| E |                                                                                             |
| F |                                                                                             |

Punctuation

|      |                                                                                   |                                                     |
|------|-----------------------------------------------------------------------------------|-----------------------------------------------------|
| 1CC0 |  | SUNDANESE PUNCTUATION BINDU SURYA<br>• sun          |
| 1CC1 |  | SUNDANESE PUNCTUATION BINDU PANGLONG<br>• half moon |
| 1CC2 |  | SUNDANESE PUNCTUATION BINDU PURNAMA<br>• full moon  |
| 1CC3 |  | SUNDANESE PUNCTUATION BINDU CAKRA<br>• wheel        |
| 1CC4 |  | SUNDANESE PUNCTUATION BINDU LEU SATANGA             |
| 1CC5 |  | SUNDANESE PUNCTUATION BINDU KA SATANGA              |
| 1CC6 |  | SUNDANESE PUNCTUATION BINDU DA SATANGA              |
| 1CC7 |  | SUNDANESE PUNCTUATION BINDU BA SATANGA              |

Historic letters

|      |                                                                                     |                          |
|------|-------------------------------------------------------------------------------------|--------------------------|
| 1CC8 |    | SUNDANESE LETTER JNYA    |
| 1CC9 |    | SUNDANESE LETTER TRA     |
| 1CCA |  | SUNDANESE LETTER RO      |
| 1CCB |  | SUNDANESE LETTER FINAL N |

## 7. Figures

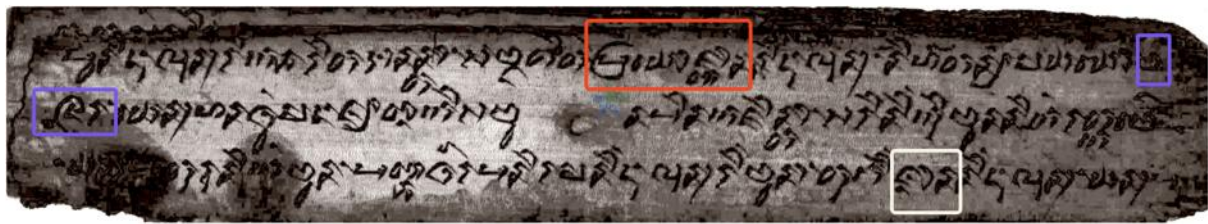


Figure 1. Pabyantaraan text. Red box: *prayojñāna* རྒྱུ་འབྲས་ཀྱི་རྣམ་པ་།. White box: *jñāna* རྣམ་པ་།.

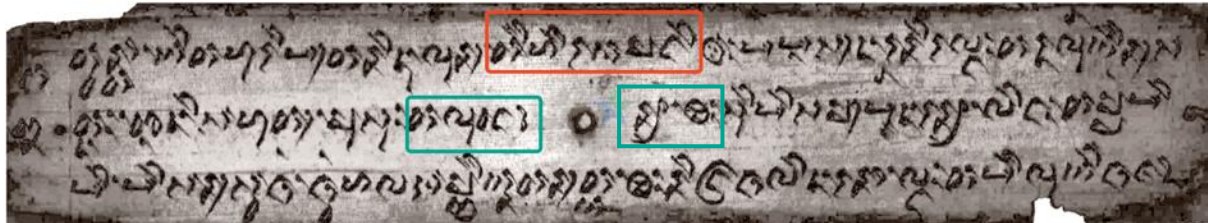


Figure 2. Pabyantaraan text. Green box: talu de (SPACE FILLER) nya, (BINDU), , ၵုၼ်ႇတူဝ်းၶိၼ်း

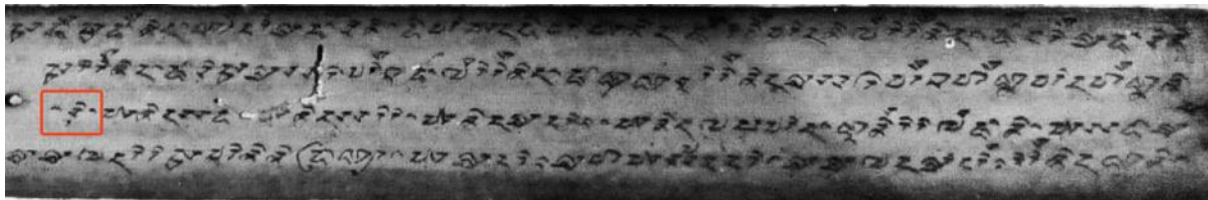


Figure 3. Siksa Kandang Karesian text. Red box: ,4, ṛṣṣ'.<sup>14</sup>

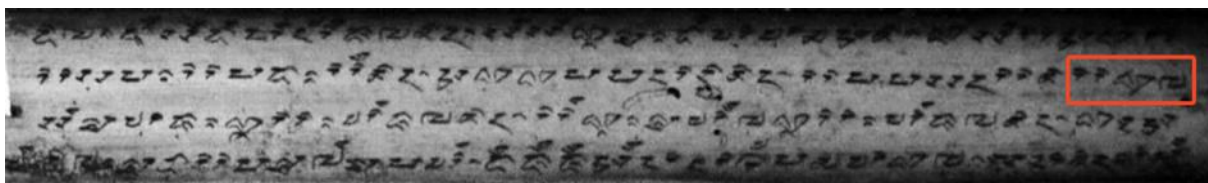


Figure 4. Siksa Kandang Karesian text. Red box: *karola* ꦏꦂꦺꦭꦏꦺ.<sup>15</sup>

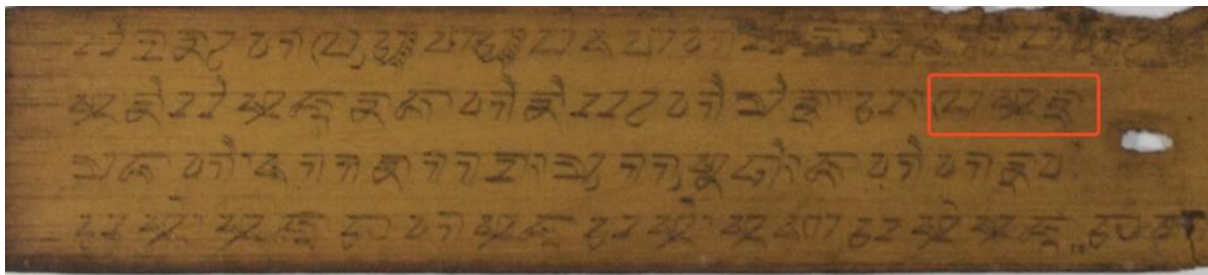


Figure 5. *Kabuyutan Ciburuy* manuscripts. Red box: *lain* (LAIN).<sup>16</sup>

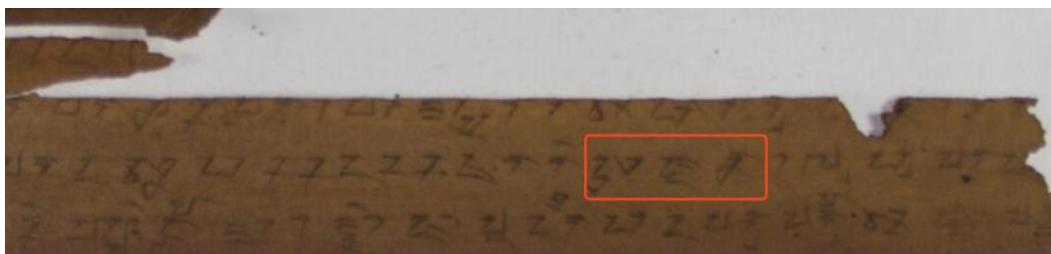


Figure 6. *Kabuyutan Ciburuy* manuscripts. Red box: *Ajñana* ࠠࠣ࠵࠴࠶࠴.

<sup>14</sup> Nurwansah (2020:50)

<sup>15</sup> Nurwansah (2020:19)

<sup>16</sup> In Old Sundanese, the character  without tail is SUNDANESE LETTER I. See Figure 10.

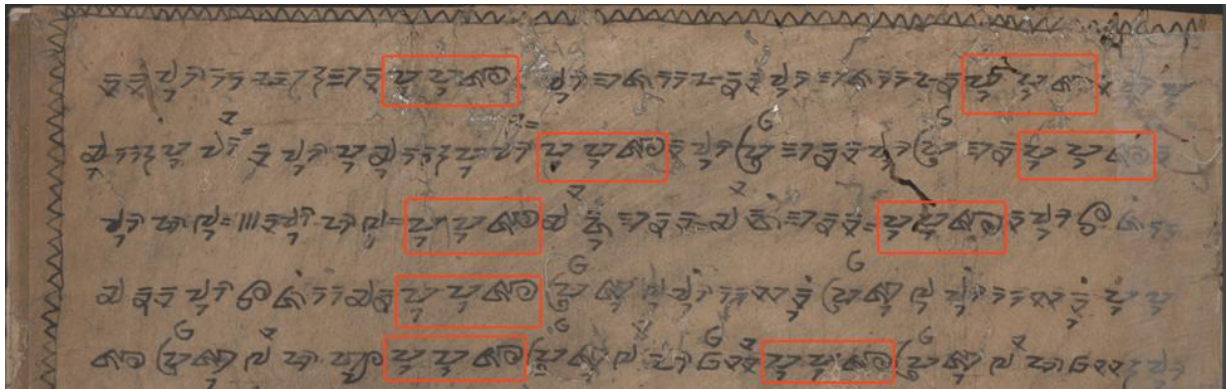


Figure 7. *Wirit Nur Muhammad* text. Red box: *puputra*  $\text{puputra}$ .

| nilai | bentuk        |
|-------|---------------|
| a     | $\text{a}$    |
| i     | $\text{i}$    |
| u     | $\text{u}$    |
| é     | $\text{é}$    |
| o     | $\text{o}$    |
| eu/e  | $\text{eu/e}$ |

Tabel 2. Aksara Vokal

| Nilai     | bentuk             |
|-----------|--------------------|
| le/leu    | $\text{le/leu}$    |
| mpa       | $\text{mpa}$       |
| ķ (final) | $\text{ķ (final)}$ |
| tra       | $\text{tra}$       |
| ro        | $\text{ro}$        |

Tabel 3. Aksara Khusus

Figure 8. Table of characters found in *Sanghyang Siksa Kandang Karesian* text (Nurwansah 2013:159).

Table 10: The underline system

| No | Letter | Writing in the manuscript | Transliteration | Storage location |
|----|--------|---------------------------|-----------------|------------------|
| 1. | <ka>   |                           | anak            | 3_C14_007A       |
| 2. | <ja>   |                           | ajna            | 2_BPC6_022B      |
| 3. | <na>   |                           | lain            | 1_21_001A        |

Figure 9. Table of the underline system found in *Kabuyutan Ciburuy* manuscripts (Sopian 2020:136).

Unfortunately, Sofian seems to have mistakenly regarded LETTER JNYA here as a dead consonant, analogous to LETTER FINAL N and LETTER FINAL K.<sup>17</sup>

| Code | Old Sundanese | New Sundanese |
|------|---------------|---------------|
| 1B83 | $\text{1B83}$ | $\text{1B83}$ |
| 1B84 | $\text{1B84}$ | $\text{1B84}$ |

| Code | Old Sundanese | New Sundanese |
|------|---------------|---------------|
| 1BB0 | $\text{1BB0}$ | $\text{1BB0}$ |
| 1BB1 | $\text{1BB1}$ | $\text{1BB1}$ |

| Code | Old Sundanese | New Sundanese |
|------|---------------|---------------|
| 1B9A | $\text{1B9A}$ | $\text{1B9A}$ |
| 1B9B | $\text{1B9B}$ | $\text{1B9B}$ |

<sup>17</sup> Personal correspondence with Ilham Nurwansah

|      |   |   |      |   |   |
|------|---|---|------|---|---|
| 1B85 | 𐌲 | 𐌴 | 1B86 | 𐌶 | 𐌸 |
| 1B87 | 𐌺 | 𐌼 | 1B88 | 𐌾 | 𐌿 |
| 1B89 | 𐍂 | 𐍄 | 1B8A | 𐍆 | 𐍈 |
| 1B8C | 𐍊 | 𐍌 | 1B8D | 𐍐 | 𐍒 |
| 1B8E | 𐍔 | 𐍖 | 1B8F | 𐍘 | 𐍚 |
| 1B9C | 𐍞 | 𐍠 | 1BA0 | 𐍢 | 𐍣 |
| 1B95 | 𐍥 | 𐍦 | 1B98 | 𐍩 | 𐍪 |
| 1B99 | 𐍭 | 𐍮 | 1B9D | 𐍱 | 𐍲 |
| 1B9E | 𐍴 | 𐍵 | 1B94 | 𐍷 | 𐍸 |
| 1B91 | 𐍿 | 𐎀 |      |   |   |

Figure 10. Table of comparison between Old Sundanese and New Sundanese (as in Unicode chart).

## 8. Acknowledgement

The author would also like to thank Aditya Bayu Perdana ([ᮘᮧᮒᮥᮔ᮪ᮓᮦᮕᮥ](#)) for providing the Old Sundanese font, and Ilham Nurwansah ([ᮘᮧᮒᮥᮔ᮪ᮓᮦᮕᮥ](#)) for drawing attention to the existence of these unencoded Sundanese characters.

## 9. References

- Balogh, Dániel, and Arlo Griffiths. 2020. *DHARMA Transliteration Guide*. <https://hal.science/halshs-02272407>.  
Gunawan, Aditia, and Arlo Griffiths. 2021. "Old Sundanese Inscriptions: Renewing the Philological Approach\*." *Archipel* 101:131–208. doi:10.4000/archipel.2365.  
Nurwansah, Ilham. 2013. "Naskah Lontar Sunda Kuna Sanghyang Siksa Kandang Karesian (624): Sebuah Anomali Pada Pernaskahan Sunda Kuna." *Jurnal Manuskrip Nusantara* 4(1).  
Mamat Ruhimat, Aditia Gunawan, and Tien Wartini. 2014. *Kawih Pangeuyeukan: Tenun Dalam Puisi Sunda Kuna Dan Teks-Teks Lainnya*. Jakarta: Perpustakaan Nasional Republik Indonesia & Pusat Studi Sunda.  
Noviana, Eka. 2020. "The Sundanese Script: Visual Analysis of Its Development into a Native Austronesian Script." Hochschule fuer Bildende Künste Braunschweig, Braunschweig.  
Nurwansah, Ilham. 2020. *Siksa Kandang Karesian: Teks Dan Terjemahan*. Jakarta: Perpustakaan Press.  
Nurwansah, Ilham. 2021. *Wrong Identities of Three Historical Sundanese Character*.  
<https://www.unicode.org/L2/L2021/21221-three-sundanese-chars.pdf>.  
Sopian, Rahmat. 2020. "Old Sundanese Script in Kabuyutan Ciburuy Manuscripts." 言語・地域文化研究 26:117–48. doi:info:doi/10.15026/94310.

**ISO/IEC JTC 1/SC 2/WG 2**  
**PROPOSAL SUMMARY FORM TO ACCOMPANY SUBMISSIONS**  
**FOR ADDITIONS TO THE REPERTOIRE OF ISO/IEC 10646<sup>18</sup>**

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.

**A. Administrative**

|                                                                  |                                                      |
|------------------------------------------------------------------|------------------------------------------------------|
| 1. Title:                                                        | <b>Proposal to Encode 4 Old Sundanese Characters</b> |
| 2. Requester's name:                                             | <b>Febri Muhammad Nasrullah</b>                      |
| 3. Requester type (Member body/Liaison/Individual contribution): | <b>Expert contribution</b>                           |
| 4. Submission date:                                              | <b>2026-03-19</b>                                    |
| 5. Requester's reference (if applicable):                        |                                                      |
| 6. Choose one of the following:                                  |                                                      |
| This is a complete proposal:                                     | <b>Yes</b>                                           |
| (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):                                                                                                                                                 |                             |
| Proposed name of script:                                                                                                                                                                                  |                             |
| b. The proposal is for addition of character(s) to an existing block:                                                                                                                                     | <b>Yes</b>                  |
| Name of the existing block:                                                                                                                                                                               | <b>Sundanese Supplement</b> |
| 2. Number of characters in proposal:                                                                                                                                                                      | <b>4</b>                    |
| 3. Proposed category (select one from below - see section 2.2 of P&P document):                                                                                                                           |                             |
| A-Contemporary                                                                                                                                                                                            |                             |
| B.1-Specialized (small collection)                                                                                                                                                                        | <b>X</b>                    |
| B.2-Specialized (large collection)                                                                                                                                                                        |                             |
| C-Major extinct                                                                                                                                                                                           |                             |
| D-Attested extinct                                                                                                                                                                                        |                             |
| E-Minor extinct                                                                                                                                                                                           |                             |
| F-Archaic Hieroglyphic or Ideographic                                                                                                                                                                     |                             |
| G-Obscure or questionable usage symbols                                                                                                                                                                   |                             |
| 4. Is a repertoire including character names provided?                                                                                                                                                    | <b>Yes</b>                  |
| a. If YES, are the names in accordance with the "character naming guidelines" in Annex L of P&P document?                                                                                                 | <b>Yes</b>                  |
| b. Are the character shapes attached in a legible form suitable for review?                                                                                                                               | <b>Yes</b>                  |
| 5. Fonts related:                                                                                                                                                                                         |                             |
| a. Who will provide the appropriate computerized font to the Project Editor of 10646 for publishing the standard?                                                                                         | <b>Google Noto Project</b>  |
| b. Identify the party granting a license for use of the font by the editors (include address, e-mail, ftp-site, etc.):                                                                                    |                             |
| 6. References:                                                                                                                                                                                            |                             |
| a. Are references (to other character sets, dictionaries, descriptive texts etc.) provided?                                                                                                               | <b>Yes</b>                  |
| b. Are published examples of use (such as samples from newspapers, magazines, or other sources) of proposed characters attached?                                                                          | <b>Yes</b>                  |
| 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)? | <b>Yes</b>                  |

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.

<sup>18</sup> Form number: N4502-F (Original 1994-10-14; Revised 1995-01, 1995-04, 1996-04, 1996-08, 1999-03, 2001-05, 2001-09, 2003-11, 2005-01, 2005-09, 2005-10, 2007-03, 2008-05, 2009-11, 2011-03, 2012-01)

### C. Technical - Justification

|                                                                                                                                                                |                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| 1. Has this proposal for addition of character(s) been submitted before?                                                                                       | Yes.                                 |
| If YES explain                                                                                                                                                 | L2/26-033                            |
| 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.)?          | Yes                                  |
| If YES, with whom?                                                                                                                                             | Aditya Bayu Perdana, Ilham Nurwansah |
| If YES, available relevant documents:                                                                                                                          | This document                        |
| 3. Information on the user community for the proposed characters (for example: size, demographics, information technology use, or publishing use) is included? | Yes                                  |
| Reference:                                                                                                                                                     | This document                        |
| 4. The context of use for the proposed characters (type of use; common or rare)                                                                                | Common                               |
| Reference:                                                                                                                                                     | This document                        |
| 5. Are the proposed characters in current use by the user community?                                                                                           | Yes                                  |
| If YES, where? Reference:                                                                                                                                      | Western Java, Indonesia              |
| 6. After giving due considerations to the principles in the P&P document must the proposed characters be entirely in the BMP?                                  | 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)?                                                        | Yes                                  |
| 8. Can any of the proposed characters be considered a presentation form of an existing character or character sequence?                                        | No                                   |
| If YES, is a rationale for its inclusion provided?                                                                                                             |                                      |
| If YES, reference:                                                                                                                                             |                                      |
| 9. Can any of the proposed characters be encoded using a composed character sequence of either existing characters or other proposed characters?               | No                                   |
| If YES, is a rationale for its inclusion provided?                                                                                                             |                                      |
| If YES, reference:                                                                                                                                             |                                      |
| 10. Can any of the proposed character(s) be considered to be similar (in appearance or function) to, or could be confused with, an existing character?         | No                                   |
| If YES, is a rationale for its inclusion provided?                                                                                                             |                                      |
| If YES, reference:                                                                                                                                             |                                      |
| 11. Does the proposal include use of combining characters and/or use of composite sequences?                                                                   | Yes                                  |
| If YES, is a rationale for such use provided?                                                                                                                  | Yes                                  |
| If YES, reference:                                                                                                                                             | This document                        |
| Is a list of composite sequences and their corresponding glyph images (graphic symbols) provided?                                                              | Yes                                  |
| If YES, reference:                                                                                                                                             | This document                        |
| 12. Does the proposal contain characters with any special properties such as control function or similar semantics?                                            | No                                   |
| If YES, describe in detail (include attachment if necessary)                                                                                                   |                                      |
|                                                                                                                                                                |                                      |
| 13. Does the proposal contain any Ideographic compatibility characters?                                                                                        | No                                   |
| If YES, are the equivalent corresponding unified ideographic characters identified?                                                                            |                                      |
| If YES, reference:                                                                                                                                             |                                      |

## UnicodeData.txt

```
1 1CC8;SUNDANESE LETTER JNYA;Lo;0;L;;;;;N;;;;;
2 1CC9;SUNDANESE LETTER TRA;Lo;0;L;;;;;N;;;;;
3 1CCA;SUNDANESE LETTER RO;Lo;0;L;;;;;N;;;;;
4 1CCB;SUNDANESE LETTER FINAL N;Lo;0;L;;;;;N;;;;;
+4
```

## IndicSyllabicCategory.txt

```
1CC8 ; Consonant # Lo SUNDANESE LETTER JNYA
1CC9 ; Consonant # Lo SUNDANESE LETTER TRA
1CCA ; Consonant # Lo SUNDANESE LETTER RO
1CCB ; Consonant_Final # Lo SUNDANESE LETTER FINAL N
4 lines
```

## LineBreak.txt

```
1 1CC8 ; AK # Lo SUNDANESE LETTER JNYA
2 1CC9 ; AK # Lo SUNDANESE LETTER TRA
3 1CCA ; AK # Lo SUNDANESE LETTER RO
4 1CCB ; BA # Lo SUNDANESE LETTER FINAL N
+4
```

## NamesList.txt

```
1CC8 SUNDANESE LETTER JNYA
1CC9 SUNDANESE LETTER TRA
1CCA SUNDANESE LETTER RO
1CCB SUNDANESE LETTER FINAL N
4 lines
```

## ScriptExtensions.txt

```
# Script_Extensions=Kawi Sund
11F48..11F4A ; Kawi Sund # Po [3] KAWI PUNCTUATION SPACE FILLER..KAWI
PUNCTUATION DOUBLE DOT
# Total code points: 3
4 lines
```