

**Proposed**

**Code Point Repertoire**

**Neo-brahmi GP**

**Draft: Panjabi**

## Preamble:

This document proposes the code-point repertoire for Panjabi.

The color code convention followed is as follows:

| Color | Disposition                                                 |
|-------|-------------------------------------------------------------|
|       | Disallowed - As per IDNA protocol                           |
|       | Disallowed - As per Maximal Starting Repertoire             |
|       | Disallowed - As per Neo-brahmi GP recommendation (Proposed) |
|       | Allowed                                                     |

The document is based on the MSR-2 ([link](#)) released by the Integration Panel. For more elaborate documentation on the MSR-2 you refer the below links.

1. Maximal Starting Repertoire - MSR-2-Overview and Rationale-20150414 ([Link](#))
2. MSR-2-Annotated-non-CJK-Tables-20150413 ([Link](#))
3. MSR-2-Repertoire+WLE-Rules-20150413 ([Link](#))

For the current work-at hand, visiting the links 1 and 2 should be sufficient.

The MSR-2 is based on Unicode 7.0. The color coding conventions followed are similar to the ones used in the MSR-2 with the addition of blue marking to the characters barred by the Neo-brahmi GP.

The document is structured as,

1. Code-point repertoire
2. Rationale for exclusion

|   | 0A0       | 0A1        | 0A2        | 0A3        | 0A4        | 0A5        | 0A6        | 0A7       |
|---|-----------|------------|------------|------------|------------|------------|------------|-----------|
| 0 |           | ਐ<br>0A10  | ਠ<br>0A20  | ਰ<br>0A30  | ੀ<br>0A40  |            |            | ੰ<br>0A70 |
| 1 |           |            | ਡ<br>0A21  |            | ੁ<br>0A41  |            |            | ੁ<br>0A71 |
| 2 | ਂ<br>0A02 |            | ਢ<br>0A22  | ਲ<br>0A32  | ੂ<br>0A42  |            |            | ੲ<br>0A72 |
| 3 |           | ਓ<br>0A13  | ਣ<br>0A23  | ਲ<br>0A33  |            |            |            | ੳ<br>0A73 |
| 4 |           | ਔ<br>0A14  | ਤ<br>0A24  |            |            |            |            | ੲ<br>0A74 |
| 5 | ਅ<br>0A05 | ਕ<br>0A15  | ਬ<br>0A25  | ਵ<br>0A35  |            |            |            |           |
| 6 | ਆ<br>0A06 | ਖ<br>0A16  | ਦ<br>0A26  | ਸ਼<br>0A36 |            |            | ੳ<br>0A66  |           |
| 7 | ਇ<br>0A07 | ਗ<br>0A17  | ਧ<br>0A27  |            | ੇ<br>0A47  |            | ੲ<br>0A67  |           |
| 8 | ਈ<br>0A08 | ਘ<br>0A18  | ਨ<br>0A28  | ਸ਼<br>0A38 | ੈ<br>0A48  |            | ੲ<br>0A68  |           |
| 9 | ਉ<br>0A09 | ਙ<br>0A19  |            | ਹ<br>0A39  |            | ਖ਼<br>0A59 | ੲ<br>0A69  |           |
| A | ਊ<br>0A0A | ਚ<br>0A1A  | ਪ<br>0A2A  |            |            | ਗ਼<br>0A5A | ੲ<br>0A6A  |           |
| B |           | ਛ<br>0A1B  | ਫ਼<br>0A2B |            | ੌ<br>0A4B  | ਜ਼<br>0A5B | ਪ਼<br>0A6B |           |
| C |           | ਜ਼<br>0A1C | ਬ਼<br>0A2C | ਼<br>0A3C  | ੌ<br>0A4C  | ੲ<br>0A5C  | ੲ<br>0A6C  |           |
| D |           | ੜ<br>0A1D  | ਭ਼<br>0A2D |            | ੍ਰ<br>0A4D |            | ੲ<br>0A6D  |           |
| E |           | ਵ਼<br>0A1E | ਮ਼<br>0A2E | ਾ<br>0A3E  |            | ਫ਼<br>0A5E | ੲ<br>0A6E  |           |
| F | ੲ<br>0A0F | ੲ<br>0A1F  | ਯ਼<br>0A2F | ੀ<br>0A3F  |            |            | ੲ<br>0A6F  |           |

## Various signs

0A01  GURMUKHI SIGN ADAK BINDI0A02  GURMUKHI SIGN BINDI0A03  GURMUKHI SIGN VISARGA

## Independent vowels

0A05  GURMUKHI LETTER A  
= aīra0A06  GURMUKHI LETTER AA0A07  GURMUKHI LETTER I0A08  GURMUKHI LETTER II0A09  GURMUKHI LETTER U0A0A  GURMUKHI LETTER UU0A0B  <reserved>0A0C  <reserved>0A0D  <reserved>0A0E  <reserved>0A0F  GURMUKHI LETTER EE0A10  GURMUKHI LETTER AI0A11  <reserved>0A12  <reserved>0A13  GURMUKHI LETTER OO0A14  GURMUKHI LETTER AU

## Consonants

0A15  GURMUKHI LETTER KA0A16  GURMUKHI LETTER KHA0A17  GURMUKHI LETTER GA0A18  GURMUKHI LETTER GHA0A19  GURMUKHI LETTER NGA0A1A  GURMUKHI LETTER CA0A1B  GURMUKHI LETTER CHA0A1C  GURMUKHI LETTER JA0A1D  GURMUKHI LETTER JHA0A1E  GURMUKHI LETTER NYA0A1F  GURMUKHI LETTER TTA0A20  GURMUKHI LETTER TTHA0A21  GURMUKHI LETTER DDA0A22  GURMUKHI LETTER DDHA0A23  GURMUKHI LETTER NNA0A24  GURMUKHI LETTER TA0A25  GURMUKHI LETTER THA0A26  GURMUKHI LETTER DA0A27  GURMUKHI LETTER DHA0A28  GURMUKHI LETTER NA0A29  <reserved>0A2A  GURMUKHI LETTER PA0A2B  GURMUKHI LETTER PHA0A2C  GURMUKHI LETTER BA0A2D  GURMUKHI LETTER BHA0A2E  GURMUKHI LETTER MA0A2F  GURMUKHI LETTER YA0A30  GURMUKHI LETTER RA0A31  <reserved>0A32  GURMUKHI LETTER LA0A33  GURMUKHI LETTER LLA≡ 0A32  0A3C 0A34  <reserved>0A35  GURMUKHI LETTER VA0A36  GURMUKHI LETTER SHA≡ 0A38  0A3C 0A37  <reserved>0A38  GURMUKHI LETTER SA0A39  GURMUKHI LETTER HA

## Various signs

0A3C  GURMUKHI SIGN NUKTA

= pairin bindi

• for extending the alphabet to new letters

## Dependent vowel signs

0A3E  GURMUKHI VOWEL SIGN AA  
= kanna0A3F  GURMUKHI VOWEL SIGN I  
= sihari  
• stands to the left of the consonant0A40  GURMUKHI VOWEL SIGN II  
= bihari0A41  GURMUKHI VOWEL SIGN U  
= aunkar0A42  GURMUKHI VOWEL SIGN UU  
= dulainkar0A43  <reserved>0A44  <reserved>0A45  <reserved>0A46  <reserved>0A47  GURMUKHI VOWEL SIGN EE  
= lanvan0A48  GURMUKHI VOWEL SIGN AI  
= dulanvan0A49  <reserved>0A4A  <reserved>0A4B  GURMUKHI VOWEL SIGN OO  
= hora0A4C  GURMUKHI VOWEL SIGN AU  
= kanaura

## Virama

0A4D  GURMUKHI SIGN VIRAMA

## Sign

0A51  GURMUKHI SIGN UDAAT

## Additional consonants

0A59  GURMUKHI LETTER KHHA≡ 0A16  0A3C 0A5A  GURMUKHI LETTER GHHA≡ 0A17  0A3C 0A5B  GURMUKHI LETTER ZA≡ 0A1C  0A3C 0A5C  GURMUKHI LETTER RRA0A5D  <reserved>0A5E  GURMUKHI LETTER FA≡ 0A2B  0A3C 

## Reserved

For viram punctuation, use the generic Indic 0964 and 0965.

0A64  <reserved>

→ 0964 | devanagari danda

0A65  <reserved>

→ 0965 || devanagari double danda

## Digits

0A66  GURMUKHI DIGIT ZERO0A67  GURMUKHI DIGIT ONE0A68  GURMUKHI DIGIT TWO0A69  GURMUKHI DIGIT THREE

|      |   |                      |
|------|---|----------------------|
| 0A6A | ੪ | GURMUKHI DIGIT FOUR  |
| 0A6B | ੫ | GURMUKHI DIGIT FIVE  |
| 0A6C | ੬ | GURMUKHI DIGIT SIX   |
| 0A6D | ੭ | GURMUKHI DIGIT SEVEN |
| 0A6E | ੮ | GURMUKHI DIGIT EIGHT |
| 0A6F | ੯ | GURMUKHI DIGIT NINE  |

### Gurmukhi-specific additions

|      |    |                                                 |
|------|----|-------------------------------------------------|
| 0A70 | ◌ੰ | GURMUKHI TIPPI<br>• nasalization                |
| 0A71 | ◌ੁ | GURMUKHI ADDAK<br>• doubles following consonant |
| 0A72 | ਏ  | GURMUKHI IRI<br>• base for vowels               |
| 0A73 | ਊ  | GURMUKHI URA<br>• base for vowels               |
| 0A74 | ੴ  | GURMUKHI EK ONKAR<br>• God is One               |
| 0A75 |    | GURMUKHI SIGN YAKASH                            |

## Rationale:

| <b>Panjabi:</b>   |                      |                                                  |
|-------------------|----------------------|--------------------------------------------------|
| <b>Code Point</b> | <b>Name</b>          | <b>Rationale for exclusion</b>                   |
| U+0A72            | GURMUKHI IRI         | Is not part of written character set of language |
| U+0A73            | GURMUKHI URA         | Is not part of written character set of language |
| U+0A75            | GURMUKHI SIGN YAKASH | Is not part of written character set of language |