

**KBDID:** 483

**Description:** India - Kannada (ISCII-91)

**External Standard:** ISCII-91

**Status:** Registered

**National Layout:** Yes

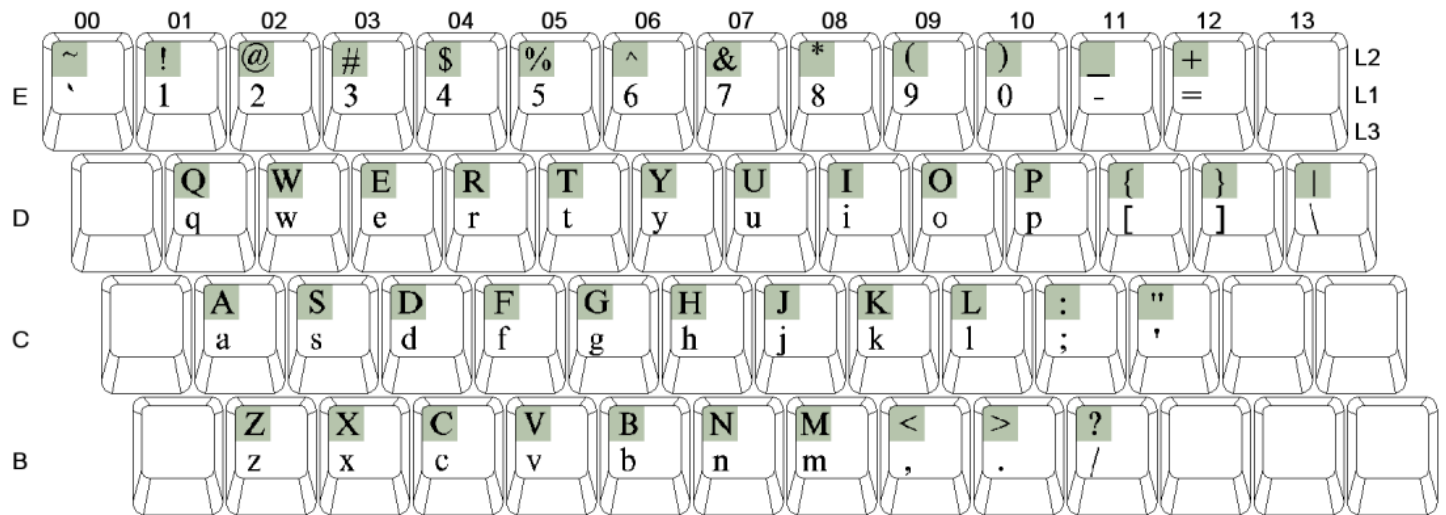
**Regions:** India

**Registration Date:** 2003-07-02

**Notes:**

Required for India.

## 483\_L - India-Kannada (Latin Group)



| GLYPH | ROW | COL | LEVEL | IBM ID | DEAD KEY | NOT ENGRAVED | CHARACTER NAME                  | UNICODE ID |
|-------|-----|-----|-------|--------|----------|--------------|---------------------------------|------------|
| ~     | E   | 00  | L2    | SD19   |          |              | Tilde Accent                    | U+007E     |
| `     | E   | 00  | L1    | SD13   |          |              | Grave Accent                    | U+0060     |
| !     | E   | 01  | L2    | SP02   |          |              | Exclamation Point               | U+0021     |
| 1     | E   | 01  | L1    | ND01   |          |              | One                             | U+0031     |
| @     | E   | 02  | L2    | SM05   |          |              | At Sign                         | U+0040     |
| 2     | E   | 02  | L1    | ND02   |          |              | Two                             | U+0032     |
| #     | E   | 03  | L2    | SM01   |          |              | Number Sign                     | U+0023     |
| 3     | E   | 03  | L1    | ND03   |          |              | Three                           | U+0033     |
| \$    | E   | 04  | L2    | SC03   |          |              | Dollar Sign                     | U+0024     |
| 4     | E   | 04  | L1    | ND04   |          |              | Four                            | U+0034     |
| %     | E   | 05  | L2    | SM02   |          |              | Percent Sign                    | U+0025     |
| 5     | E   | 05  | L1    | ND05   |          |              | Five                            | U+0035     |
| ^     | E   | 06  | L2    | SD15   |          |              | Circumflex Accent               | U+005E     |
| 6     | E   | 06  | L1    | ND06   |          |              | Six                             | U+0036     |
| &     | E   | 07  | L2    | SM03   |          |              | Ampersand                       | U+0026     |
| 7     | E   | 07  | L1    | ND07   |          |              | Seven                           | U+0037     |
| *     | E   | 08  | L2    | SM04   |          |              | Asterisk                        | U+002A     |
| 8     | E   | 08  | L1    | ND08   |          |              | Eight                           | U+0038     |
| (     | E   | 09  | L2    | SP06   |          |              | Left Parenthesis                | U+0028     |
| 9     | E   | 09  | L1    | ND09   |          |              | Nine                            | U+0039     |
| )     | E   | 10  | L2    | SP07   |          |              | Right Parenthesis               | U+0029     |
| 0     | E   | 10  | L1    | ND10   |          |              | Zero                            | U+0030     |
| _     | E   | 11  | L2    | SP09   |          |              | Underline/Continuous Underscore | U+005F     |

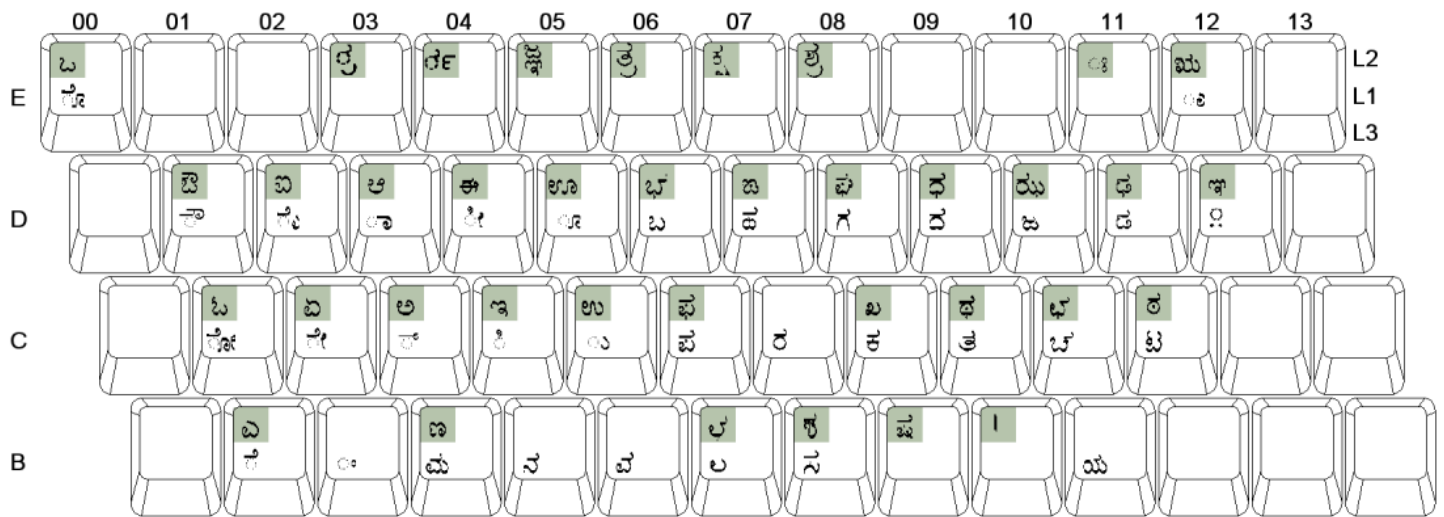
|   |   |    |    |      |  |  |                          |        |
|---|---|----|----|------|--|--|--------------------------|--------|
| - | E | 11 | L1 | SP10 |  |  | Hyphen/Minus Sign        | U+002D |
| + | E | 12 | L2 | SA01 |  |  | Plus Sign                | U+002B |
| = | E | 12 | L1 | SA04 |  |  | Equal Sign               | U+003D |
| Q | D | 01 | L2 | LQ02 |  |  | Q Capital                | U+0051 |
| q | D | 01 | L1 | LQ01 |  |  | q Small                  | U+0071 |
| W | D | 02 | L2 | LW02 |  |  | W Capital                | U+0057 |
| w | D | 02 | L1 | LW01 |  |  | w Small                  | U+0077 |
| E | D | 03 | L2 | LE02 |  |  | E Capital                | U+0045 |
| e | D | 03 | L1 | LE01 |  |  | e Small                  | U+0065 |
| R | D | 04 | L2 | LR02 |  |  | R Capital                | U+0052 |
| r | D | 04 | L1 | LR01 |  |  | r Small                  | U+0072 |
| T | D | 05 | L2 | LT02 |  |  | T Capital                | U+0054 |
| t | D | 05 | L1 | LT01 |  |  | t Small                  | U+0074 |
| Y | D | 06 | L2 | LY02 |  |  | Y Capital                | U+0059 |
| y | D | 06 | L1 | LY01 |  |  | y Small                  | U+0079 |
| U | D | 07 | L2 | LU02 |  |  | U Capital                | U+0055 |
| u | D | 07 | L1 | LU01 |  |  | u Small                  | U+0075 |
| I | D | 08 | L2 | LI02 |  |  | I Capital                | U+0049 |
| i | D | 08 | L1 | LI01 |  |  | i Small                  | U+0069 |
| O | D | 09 | L2 | LO02 |  |  | O Capital                | U+004F |
| o | D | 09 | L1 | LO01 |  |  | o Small                  | U+006F |
| P | D | 10 | L2 | LP02 |  |  | P Capital                | U+0050 |
| p | D | 10 | L1 | LP01 |  |  | p Small                  | U+0070 |
| { | D | 11 | L2 | SM11 |  |  | Left Brace               | U+007B |
| [ | D | 11 | L1 | SM06 |  |  | Left Bracket             | U+005B |
| } | D | 12 | L2 | SM14 |  |  | Right Brace              | U+007D |
| ] | D | 12 | L1 | SM08 |  |  | Right Bracket            | U+005D |
|   | D | 13 | L2 | SM13 |  |  | Vertical Line/Logical OR | U+007C |
| \ | D | 13 | L1 | SM07 |  |  | Backslash                | U+005C |
| A | C | 01 | L2 | LA02 |  |  | A Capital                | U+0041 |
| a | C | 01 | L1 | LA01 |  |  | a Small                  | U+0061 |
| S | C | 02 | L2 | LS02 |  |  | S Capital                | U+0053 |
| s | C | 02 | L1 | LS01 |  |  | s Small                  | U+0073 |
| D | C | 03 | L2 | LD02 |  |  | D Capital                | U+0044 |
| d | C | 03 | L1 | LD01 |  |  | d Small                  | U+0064 |
| F | C | 04 | L2 | LF02 |  |  | F Capital                | U+0046 |
| f | C | 04 | L1 | LF01 |  |  | f Small                  | U+0066 |
| G | C | 05 | L2 | LG02 |  |  | G Capital                | U+0047 |
| g | C | 05 | L1 | LG01 |  |  | g Small                  | U+0067 |
| H | C | 06 | L2 | LH02 |  |  | H Capital                | U+0048 |
| h | C | 06 | L1 | LH01 |  |  | h Small                  | U+0068 |
| J | C | 07 | L2 | LJ02 |  |  | J Capital                | U+004A |
| j | C | 07 | L1 | LJ01 |  |  | j Small                  | U+006A |
| K | C | 08 | L2 | LK02 |  |  | K Capital                | U+004B |
| k | C | 08 | L1 | LK01 |  |  | k Small                  | U+006B |
| L | C | 09 | L2 | LL02 |  |  | L Capital                | U+004C |
| l | C | 09 | L1 | LL01 |  |  | l Small                  | U+006C |
| : | C | 10 | L2 | SP13 |  |  | Colon                    | U+003A |

|   |   |    |    |      |  |  |   |        |
|---|---|----|----|------|--|--|---|--------|
| ; | C | 10 | L1 | SP14 |  |  | Semicolon                                 | U+003B |
| " | C | 11 | L2 | SP04 |  |  | Quotation Marks                           | U+0022 |
| ' | C | 11 | L1 | SP05 |  |  | Apostrophe                                | U+0027 |
| Z | B | 01 | L2 | LZ02 |  |  | Z Capital                                 | U+005A |
| z | B | 01 | L1 | LZ01 |  |  | z Small                                   | U+007A |
| X | B | 02 | L2 | LX02 |  |  | X Capital                                 | U+0058 |
| x | B | 02 | L1 | LX01 |  |  | x Small                                   | U+0078 |
| C | B | 03 | L2 | LC02 |  |  | C Capital                                 | U+0043 |
| c | B | 03 | L1 | LC01 |  |  | c Small                                   | U+0063 |
| V | B | 04 | L2 | LV02 |  |  | V Capital                                 | U+0056 |
| v | B | 04 | L1 | LV01 |  |  | v Small                                   | U+0076 |
| B | B | 05 | L2 | LB02 |  |  | B Capital                                 | U+0042 |
| b | B | 05 | L1 | LB01 |  |  | b Small                                   | U+0062 |
| N | B | 06 | L2 | LN02 |  |  | N Capital                                 | U+004E |
| n | B | 06 | L1 | LN01 |  |  | n Small                                   | U+006E |
| M | B | 07 | L2 | LM02 |  |  | M Capital                                 | U+004D |
| m | B | 07 | L1 | LM01 |  |  | m Small                                   | U+006D |
| < | B | 08 | L2 | SA03 |  |  | Less Than Sign/Greater Than Sign (Arabic) | U+003C |
| , | B | 08 | L1 | SP08 |  |  | Comma                                     | U+002C |
| > | B | 09 | L2 | SA05 |  |  | Greater Than Sign/Less Than Sign (Arabic) | U+003E |
| . | B | 09 | L1 | SP11 |  |  | Period/Full Stop                          | U+002E |
| ? | B | 10 | L2 | SP15 |  |  | Question Mark                             | U+003F |
| / | B | 10 | L1 | SP12 |  |  | Slash                                     | U+002F |

**Notes:**

The Latin group is identical to that specified in the Indian Standard ISCII-91.

# 483\_K - India - Kannada (Inscript)



| GLYPH | ROW | COL | LEVEL | IBM ID   | DEAD KEY | NOT ENGRAVED | CHARACTER NAME   | UNICODE ID |
|-------|-----|-----|-------|----------|----------|--------------|--|------------|
| o     | E   | 00  | L2    | U0000C92 |          |              | KANNADA LETTER O   | U+0C92     |
| ọ    | E   | 00  | L1    | U0000CCA |          |              | KANNADA VOWEL SIGN O                                     | U+0CCA     |
| ọo   | E   | 03  | L2    | U0FC0040 |          |              | KANNADA Composite Virama (0CCD) + RA (0CB0)              |            |
| ọo   | E   | 04  | L2    | U0FC0041 |          |              | KANNADA Composite RA (0CB0) + VIRAMA (0CCD)              |            |
| ọo   | E   | 05  | L2    | U0FC0042 |          |              | KANNADA Composite JA (0C9C) + VIRAMA (0CCD) + NYA (0C9E) |            |
| ọo   | E   | 06  | L2    | U0FC0043 |          |              | KANNADA Composite TA (0CA4) + VIRAMA (0CCD) + RA (0CB0)  |            |
| ọo   | E   | 07  | L2    | U0FC0044 |          |              | KANNADA Composite KA (0C95) + VIRAMA (0CCD) + SSA (0CB7) |            |
| ọo   | E   | 08  | L2    | U0FC0045 |          |              | KANNADA Composite SHA (0CB6) + VIRAMA (0CCD) + RA (0CB0) |            |
| ọ    | E   | 11  | L2    | U0000C83 |          |              | KANNADA SIGN VISARGA                                     | U+0C83     |
| ọ    | E   | 12  | L2    | U0000C8B |          |              | KANNADA LETTER VOCALIC R                                 | U+0C8B     |
| ọ    | E   | 12  | L1    | U0000CC3 |          |              | KANNADA VOWEL SIGN VOCALIC R                             | U+0CC3     |
| au    | D   | 01  | L2    | U0000C94 |          |              | KANNADA LETTER AU  | U+0C94     |
| aụ   | D   | 01  | L1    | U0000CCC |          |              | KANNADA VOWEL SIGN AU                                    | U+0CCC     |
| ai    | D   | 02  | L2    | U0000C90 |          |              | KANNADA LETTER AI  | U+0C90     |
| aị   | D   | 02  | L1    | U0000CC8 |          |              | KANNADA VOWEL SIGN AI                                    | U+0CC8     |
| aa    | D   | 03  | L2    | U0000C86 |          |              | KANNADA LETTER AA  | U+0C86     |
| aạ   | D   | 03  | L1    | U0000CBE |          |              | KANNADA VOWEL SIGN AA                                    | U+0CBE     |
| ii    | D   | 04  | L2    | U0000C88 |          |              | KANNADA LETTER II  | U+0C88     |
| iị   | D   | 04  | L1    | U0000CC0 |          |              | KANNADA VOWEL SIGN II                                    | U+0CC0     |
| uu    | D   | 05  | L2    | U0000C8A |          |              | KANNADA LETTER UU  | U+0C8A     |
| uụ   | D   | 05  | L1    | U0000CC2 |          |              | KANNADA VOWEL SIGN UU                                    | U+0CC2     |
| bha   | D   | 06  | L2    | U0000CAD |          |              | KANNADA LETTER BHA                                       | U+0CAD     |
| ba    | D   | 06  | L1    | U0000CAC |          |              | KANNADA LETTER BA  | U+0CAC     |
| nga   | D   | 07  | L2    | U0000C99 |          |              | KANNADA LETTER NGA                                       | U+0C99     |
| ha    | D   | 07  | L1    | U0000CB9 |          |              | KANNADA LETTER HA  | U+0CB9     |
| gha   | D   | 08  | L2    | U0000C98 |          |              | KANNADA LETTER GHA                                       | U+0C98     |
| ga    | D   | 08  | L1    | U0000C97 |          |              | KANNADA LETTER GA  | U+0C97     |
| dha   | D   | 09  | L2    | U0000CA7 |          |              | KANNADA LETTER DHA                                       | U+0CA7     |
| da    | D   | 09  | L1    | U0000CA6 |          |              | KANNADA LETTER DA  | U+0CA6     |
| jha   | D   | 10  | L2    | U0000C9D |          |              | KANNADA LETTER JHA                                       | U+0C9D     |
| ja    | D   | 10  | L1    | U0000C9C |          |              | KANNADA LETTER JA  | U+0C9C     |

|   |   |    |    |              |  |  |                                   |        |
|---|---|----|----|--------------|--|--|-----------------------------------|--------|
| ಢ | D | 11 | L2 | U0000CA2     |  |  | KANNADA LETTER DDHA               | U+0CA2 |
| ಢ | D | 11 | L1 | U0000CA1     |  |  | KANNADA LETTER DDA                | U+0CA1 |
| ಢ | D | 12 | L2 | U0000C9E     |  |  | KANNADA LETTER NYA                | U+0C9E |
| ಃ | D | 12 | L1 | U0000CBC     |  |  | KANNADA SIGN NUKTA                | U+0CBC |
| ಃ | C | 01 | L2 | U0000C93     |  |  | KANNADA LETTER OO                 | U+0C93 |
| ಌ | C | 01 | L1 | U0000CCB     |  |  | KANNADA VOWEL SIGN OO             | U+0CCB |
| ಌ | C | 02 | L2 | U0000C8F     |  |  | KANNADA LETTER EE                 | U+0C8F |
| ಌ | C | 02 | L1 | U0000CC7     |  |  | KANNADA VOWEL SIGN EE             | U+0CC7 |
| ಌ | C | 03 | L2 | U0000C85     |  |  | KANNADA LETTER A                  | U+0C85 |
| ಌ | C | 03 | L1 | U0000CCD     |  |  | KANNADA SIGN VIRAMA               | U+0CCD |
| ಌ | C | 04 | L2 | U0000C87     |  |  | KANNADA LETTER I                  | U+0C87 |
| ಌ | C | 04 | L1 | U0000CBF     |  |  | KANNADA VOWEL SIGN I              | U+0CBF |
| ಌ | C | 05 | L2 | U0000C89     |  |  | KANNADA LETTER U                  | U+0C89 |
| ಌ | C | 05 | L1 | U0000CC1     |  |  | KANNADA VOWEL SIGN U              | U+0CC1 |
| ಌ | C | 06 | L2 | U0000CAB     |  |  | KANNADA LETTER PHA                | U+0CAB |
| ಌ | C | 06 | L1 | U0000CA<br>A |  |  | KANNADA LETTER PA                 | U+0CAA |
| ಌ | C | 07 | L1 | U0000CB0     |  |  | KANNADA LETTER RA                 | U+0CB0 |
| ಌ | C | 08 | L2 | U0000C96     |  |  | KANNADA LETTER KHA                | U+0C96 |
| ಌ | C | 08 | L1 | U0000C95     |  |  | KANNADA LETTER KA                 | U+0C95 |
| ಌ | C | 09 | L2 | U0000CA5     |  |  | KANNADA LETTER THA                | U+0CA5 |
| ಌ | C | 09 | L1 | U0000CA4     |  |  | KANNADA LETTER TA                 | U+0CA4 |
| ಌ | C | 10 | L2 | U0000C9B     |  |  | KANNADA LETTER CHA                | U+0C9B |
| ಌ | C | 10 | L1 | U0000C9A     |  |  | KANNADA LETTER CA                 | U+0C9A |
| ಌ | C | 11 | L2 | U0000CA0     |  |  | KANNADA LETTER TTHA               | U+0CA0 |
| ಌ | C | 11 | L1 | U0000C9F     |  |  | KANNADA LETTER TTA                | U+0C9F |
| ಌ | B | 01 | L2 | U0000C8E     |  |  | KANNADA LETTER E                  | U+0C8E |
| ಌ | B | 01 | L1 | U0000CC6     |  |  | KANNADA VOWEL SIGN E              | U+0CC6 |
| ಌ | B | 02 | L1 | U0000C82     |  |  | KANNADA SIGN ANUSVARA             | U+0C82 |
| ಌ | B | 03 | L2 | U0000CA3     |  |  | KANNADA LETTER NNA                | U+0CA3 |
| ಌ | B | 03 | L1 | U0000CAE     |  |  | KANNADA LETTER MA                 | U+0CAE |
| ಌ | B | 04 | L1 | U0000CA8     |  |  | KANNADA LETTER NA                 | U+0CA8 |
| ಌ | B | 05 | L1 | U0000CB5     |  |  | KANNADA LETTER VA                 | U+0CB5 |
| ಌ | B | 06 | L2 | U0000CB3     |  |  | KANNADA LETTER LLA                | U+0CB3 |
| ಌ | B | 06 | L1 | U0000CB2     |  |  | KANNADA LETTER LA                 | U+0CB2 |
| ಌ | B | 07 | L2 | U0000CB6     |  |  | KANNADA LETTER SHA                | U+0CB6 |
| ಌ | B | 07 | L1 | U0000CB8     |  |  | KANNADA LETTER SA                 | U+0CB8 |
| ಌ | B | 08 | L2 | U0000CB7     |  |  | KANNADA LETTER SSA                | U+0CB7 |
| ಌ | B | 09 | L2 | U0000964     |  |  | DEVANAGARI DANDA (VIRAM IN ISCII) | U+0964 |
| ಌ | B | 10 | L1 | U0000CAF     |  |  | KANNADA LETTER YA                 | U+0CAF |

**Notes:**

1) KBD483 is based on the Inscript Overlay for Kannada as specified in the Indian Standard ISCII-91.

2) The following characters in Row E, Level 2, Cols 3-8 are precomposed of 2 to 3 other characters:

U0FC0040 = Sign Virama (U+0CCD) + Letter RA (U+0CB0)

U0FC0041 = Letter RA (U+0CB0) + Sign Virama (U+0CCD)

U0FC0042 = Letter JA (U+0C9C) + Virama (U+0CCD) + Letter NYA (U+0C9E)

U0FC0043 = Letter TA (U+0CA4) + Virama (U+0CCD) + RA (U+0CB0)

U0FC0044 = Letter KA (U+0C95) + Virama (U+0CCD) + Letter SSA (U+0CB7)

U0FC0045 = Letter SHA (U+0CB6) + Virama (U+0CCD) + RA (U+0CB0)

3) The following UCS characters are not present in the Inscript keyboard:

U+0C8C - Kannada Letter Vocalic L

U+0CB1 - Kannada Letter RRA

U+0CBD - Kannada Sign Avagraha

U+0CC4 - Kannada Vowel Sign Vocalic RR

U+0CD5 - Kannada Length Mark

U+0CD6 - Kannada AI Length Mark

U+0CDE - Kannada Letter FA

U+0CE0 - Kannada Letter Vocalic RR

U+0CE1 - Kannada Letter Vocalic LL

4) The Kannada digits 0-9 (U+0CE6 through U+0CEF) are not present in the Inscript keyboard. However, applications can use the following keyboard positions to toggle between the International digits (as specified in the Inscript keyboard) and the Kannada digits:

Row E, Col 1, L1 - U+0CE7 (Kannada Digit One)

Row E, Col 2, L1 - U+0CE8 (Kannada Digit Two)

Row E, Col 3, L1 - U+0CE9 (Kannada Digit Three)

Row E, Col 4, L1 - U+0CEA (Kannada Digit Four)

Row E, Col 5, L1 - U+0CEB (Kannada Digit Five)

Row E, Col 6, L1 - U+0CEC (Kannada Digit Six)

Row E, Col 7, L1 - U+0CED (Kannada Digit Seven)

Row E, Col 8, L1 - U+0CEE (Kannada Digit Eight)

Row E, Col 9, L1 - U+0CEF (Kannada Digit Nine)

Row E, Col 10, L1 - U+0CE6 (Kannada Digit zero)

5) The Kannada character equivalent to a Period/Full Stop (U+002E) should be placed in position Row B, Col 9, Level 2. However, this character is not defined in Unicode. The Devanagari DANDA (U+0964) is used instead.