

Bharati Braille 2.1



**National Institute for Empowerment of
Persons with Visual Disabilities (Divyangjan)**
Department of Empowerment of Persons with Disabilities,
Government of India

Bharati Braille 2.1

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National Institute for Empowerment of Persons with Visual Disabilities (NIEPVD)

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Acknowledgements

The successful completion and publication of the **Bharati Braille 2.1** project of the National Institute for the Empowerment of Persons with Visual Disabilities (Divyangjan), Dehradun, is the result of the hard work, dedication, and support of many individuals and institutions.

This new Bharati Braille 2.1 standard was officially approved on May 13, 2026, during the first meeting of the Technical Advisory Council for Education and Rehabilitation of Persons with Visual Impairment (TAC-ERPVI) at NIEPVD. We extend our special thanks to the Chairperson, Ms. Manmeet Kaur Nanda, and all council members for their approval and ongoing support.

We are deeply grateful to the Department of Empowerment of Persons with Disabilities (DEPwD), Ministry of Social Justice & Empowerment, Government of India, for their vision and guidance in promoting accessibility and inclusion. We also highly appreciate the Executive Council of the Institute for their strong administrative support.

Our sincere thanks go to Mr. Dipendra Manocha (Principal Investigator), for his visionary leadership; and expertise and to Dr. Pankaj Kumar for his dedicated efforts in managing this vital project.

We also thank the experts and validators from various organizations. Their technical feedback ensured that this document is accurate, easy to use, and up to date. Additionally, we appreciate the organisers and participants of the focus group discussions and workshops in different places in the country for their practical and helpful feedback.

Finally, we recognize the continuous commitment of the educators, technologists, and advocates who work every day to improve inclusive education and digital access for people with visual disabilities across the country.


(Pradeep A.)
Director, NIEPVD

Introduction

Bharati Braille, India's unified tactile script system, was first standardised in 1951 to harmonise various regional Braille scripts into a cohesive national framework. Building upon decades of developmental and field practice, the National Institute for the Empowerment of Persons with Visual Disabilities (NIEPVD), under the guidance of the Braille Council of India (BCI), prepared a comprehensively revised manual of Bharati Braille between **November 2024**. Consequently, on January 4, 2025, the Department of Empowerment of Persons with Disabilities (DEPwD) and NIEPVD jointly released the updated Standard Bharati Braille Codes, fully mapped to Unicode for seamless digital compatibility.

Following this release, NIEPVD initiated the nationwide implementation of these updated standards across teaching-learning environments and assistive technology platforms. A primary focus of this deployment involves integrating the updated codes into Liblouis, the globally utilized open-source Braille translation library. To ensure clarity across research, development, and technical integration, the following versioning conventions have been formally adopted:

- **Bharati Braille 1.0:** The original national standard established in 1951.
- **Bharati Braille 2.0:** The landmark release on January 4, 2025, which updated the Standard Bharati Braille system for nine scripts encompassing 13 Indian languages.
- **Bharati Braille 2.1:** This latest iteration incorporates technical refinements derived from recent Liblouis table validation.

This Bharati Braille 2.1 represents the successful completion of the **forward-translation** (print-to-Braille) validation phase. Key structural enhancements in this version include:

- Retaining full structural coverage for the nine major scripts and 13 Indian languages.
- Appending illustrative contextual vocabulary examples for all alphabetic characters.
- Encoding rigorous mathematical and linguistic rules to optimise mechanical forward translation.

The comprehensive data driving these changes was meticulously compiled during the cross-verification of regional Liblouis tables and subsequent stakeholder consensus panels. While forward-translation protocols are now finalised within this text, **back-translation (Braille-to-print)** validation remains slated for development in the subsequent phase of the project. To maintain transparency and ensure community alignment, the draft document was hosted on the official NIEPVD portal for public feedback and national consultation in January 2026.

Devanagari (for languages Hindi, Sanskrit, Marathi, and Nepali)

Complete Devanagari Script table of Bharti Braille Version 2.1

Swarakshar

S. No.	Unicode	Description	Print	Braille Numbers	Braille Dots	Example Words Hindi	Example Word Sanskrit	Example Word Nepali	Example Word Marathi
1.	0905	DEVANAGARI LETTER A	अ	1	⠠	अद्वितीय	अश्वमेधः	अधिकार	अश्रु
2.	0906	DEVANAGARI LETTER AA	आ	345	⠠⠠	आशीर्वाद	आर्यावर्तः	आफ्नो	आवाहन
3.	0907	DEVANAGARI LETTER I	इ	24	⠠⠠	इतिवृत्त	इन्द्रप्रस्थम्	इच्छा	इतिहास
4.	0908	DEVANAGARI LETTER II	ई	35	⠠⠠	ईर्ष्या	ईशावास्यम्	ईश्वर	ईश्वर
5.	0909	DEVANAGARI LETTER U	उ	136	⠠⠠	उच्छृंखल	उपनिषद्	उपयुक्त	उत्कृष्ट
6.	090A	DEVANAGARI LETTER UU	ऊ	1256	⠠⠠	ऊर्ध्व	ऊर्ध्वमूलम्	ऊर्जा	ऊर्मी
7.	090B	DEVANAGARI LETTER VOCALIC R	ऋ	5, 1235	⠠⠠⠠	ऋग्वेद	ऋषि	ऋतु	ऋण
8.	090C	DEVANAGARI LETTER VOCALIC L	ॠ	5, 123	⠠⠠⠠	ऋप्त	लृकारः	लृकार	लृप्त
9.	090F	DEVANAGARI LETTER E	ए	15	⠠⠠	एकात्म्य	एकात्मता	एकीकृत	एकमेव
10.	0910	DEVANAGARI LETTER AI	ऐ	34	⠠⠠	ऐतिहासिक	ऐरावत	ऐक्यबद्ध	ऐक्य
11.	0911	DEVANAGARI LETTER CHANDRA O	ऑ	1346	⠠⠠	ऑक्सीकरण	कठलेज	अट्याक	पॉवर
12.	0913	DEVANAGARI LETTER O	ओ	135	⠠⠠	ओजस्वी	ओजस्वी	ओझेल	ओढख
13.	0914	DEVANAGARI LETTER AU	औ	246	⠠⠠	औद्योगिक	औदार्यम्	औद्योगिक	औचित्य
14.	0961	DEVANAGARI LETTER VOCALIC LL	ॡ	6, 123	⠠⠠⠠	लृकार	लृकार	लृकार	लृकार

Swarmatra

S. No.	Unicode	Description	Print	Braille Numbers	Braille code	Example Word Hindi	Example Word Sanskrit	Example Word Nepali	Example Word Marathi
15.	093E	DEVANAGARI VOWEL SIGN AA	ा	345	⠠⠠	स्थापत्य	स्थापत्य	स्थापना	आस्था
16.	093F	DEVANAGARI VOWEL SIGN I • stands to the left of the consonant	ि	24	⠠⠠	क्लिष्ट	क्लिष्ट	विकास	खिन्न
17.	0940	DEVANAGARI VOWEL SIGN II	ी	35	⠠⠠	विभीषिका	भागीरथी	निर्णय	पीढ
18.	0941	DEVANAGARI VOWEL SIGN U	ु	136	⠠⠠	मुमुक्षु	मुमुक्षु	सुरक्षित	उत्सुक

S. No.	Unicode	Description	Print	Braille Numbers	Braille code	Example Word Hindi	Example Word Sanskrit	Example Word Nepali	Example Word Marathi
19.	0942	DEVANAGARI VOWEL SIGN UU	ू	1256	::	शूरीर	भूगोल	भूतपूर्व	पूर
20.	0943	DEVANAGARI VOWEL SIGN VOCALIC R	ृ	5, 1235	::	सृष्टि	सृष्टि	सृष्टि	सृजन
21.	0944	DEVANAGARI VOWEL SIGN VOCALIC RR	ॄ	6, 1235	::	पितृणाम्	पितृणाम्	पितृणाम्	पितृणां
22.	0945	DEVANAGARI VOWEL SIGN CHANDRA E = chandra	े	1346	::	कंटीन	कॅन्सर	ग्याँस	कॅरम
23.	0947	DEVANAGARI VOWEL SIGN E	े	15	::	परिप्रेक्ष्य	सर्वेषाम्	बेरोजगार	भेटणे
24.	0948	DEVANAGARI VOWEL SIGN AI	ै	34	::	वैविध्य	वैविध्य	मैत्री	पैसे
25.	0949	DEVANAGARI VOWEL SIGN CHANDRA O	ो	1346	::	डॉक्टर	ऑक्सिजन	कलेज	डॉक्टर
26.	094B	DEVANAGARI VOWEL SIGN O	ो	135	::	प्रौद्योगिकी	प्रौद्योगिकी	भोजपत्र	धोकादायक
27.	094C	DEVANAGARI VOWEL SIGN AU	ौ	246	::	लौकिक	सौहार्द	कौडा	कौतुक
28.	093D	DEVANAGARI SIGN AVAGRAHA	ऽ	2	::	कोऽपि	एकोऽहम्	कोऽपि	तोऽपि
29.	0951	DEVANAGARI STRESS SIGN UDATTA used also in Vedic texts written in other scripts. To be used after swar to which it applies.	◌̎	1356	::	अग्नि	अग्निम्	अग्निम्	अग्निम्
30.	0952	DEVANAGARI STRESS SIGN ANUDATTA = Vedic tone anudatta • used also in Vedic texts written in other scripts.	◌̍	12356	::	सवितु	सवितुः	सवितुः	सवितुः
31.	0962	DEVANAGARI VOWEL SIGN VOCALIC L	ॢ	5, 123	::	क्वप्ति	क्वप्ति	क्वप्ति	क्वप्ति

S. No.	Unicode	Description	Print	Braille Numbers	Braille code	Example Word Hindi	Example Word Sanskrit	Example Word Nepali	Example Word Marathi
32.	0963	DEVANAGARI VOWEL SIGN VOCALIC LL	ॠ	6, 123	⠠⠠⠠	कृप्त	कृप्त	कृप्त	कृप्त
33.	0901	DEVANAGARI SIGN CHANDRABINDU = anunasika → 0310 combining chandrabinu	ॠ	3	⠠	चकाचौंध	भवॉल्लिखति	हाँसो	जेवढ्या
34.	0902	DEVANAGARI SIGN ANUSVARA = bindu	ं	56	⠠	किवदंती	स्वयंवरः	संसार	किंमत
35.	0903	DEVANAGARI SIGN VISARGA	ः	6	⠠	अंतःकरण	पुनःप्राप्ति	दुःख	दुःख
36.	1CDA	stress sign swarita used in vedic text	"	1356	⠠	अग्निं	नमस्ते	शान्तिं	ईश्वरं

Consonants

S. No.	Unicode	Description	Print	Braille Numbers	Braille code	Example Word Hindi	Example Word Sanskrit	Example Word Nepali	Example Word Marathi
37.	0915	DEVANAGARI LETTER KA	क	13	⠠	किर्कतव्यविमूढ	कर्मण्येवाधिकारस्ते	कर्मचारी	कर्तव्य
38.	0916	DEVANAGARI LETTER KHA	ख	46	⠠	ख्यातिप्राप्त	ख्याति	खुर्सानी	खडबडीत
39.	0917	DEVANAGARI LETTER GA	ग	1245	⠠	गुरुत्वाकर्षण	गन्धर्व	गरिमा	गौरव
40.	0918	DEVANAGARI LETTER GHA	घ	126	⠠	घृणास्पद	घृणा	घोषणा	घड्याळ
41.	0919	DEVANAGARI LETTER NGA	ङ	346	⠠	वाङ्मय	वाङ्मयम्	वाङ्मय	वाङ्मय
42.	091A	DEVANAGARI LETTER CHA	च	14	⠠	चरितार्थ	चक्रवर्तिन्	चर्चित	चरितार्थ
43.	091B	DEVANAGARI LETTER CHHA	छ	16	⠠	छद्मवेश	छाया	छोरो	छत्रपती
44.	091C	DEVANAGARI LETTER JA	ज	245	⠠	जिजीविषा	जिजीविषा	ज्यादती	जबाबदारी
45.	091D	DEVANAGARI LETTER JHA	झ	356	⠠	झंझावात	झंझावात	झुण्ड	झंझावात
46.	091E	DEVANAGARI LETTER NYA	ञ	25	⠠	याञ्चा	याञ्चा	याञ्च्या	याञ्चा
47.	091F	DEVANAGARI LETTER TTA	ट	23456	⠠	टिप्पणी	टिट्ठिभ	टिकाउ	टीका
48.	0920	DEVANAGARI LETTER TTTHA	ठ	2456	⠠	पृष्ठभूमि	मठ	ठेक्का	पृष्ठभाग
49.	0921	DEVANAGARI LETTER DDA	ड	1246	⠠	उड्डयन	डमरू	डोजर	डोंगर
50.	0922	DEVANAGARI LETTER DDHA	ढ	123456	⠠	ढिठाई	ढक्का	ढुङ्गा	ढासळणे
51.	0923	DEVANAGARI LETTER NNA	ण	3456	⠠	हिरण्यकशिपु	हिरण्यगर्भ	गणेश	गणेश

S. No.	Unicode	Description	Print	Braille Numbers	Braille code	Example Word Hindi	Example Word Sanskrit	Example Word Nepali	Example Word Marathi
52.	0924	DEVANAGARI LETTER TA	ट	2345	::	तादात्म्य	तत्त्वमसि	तत्काल	तत्त्वज्ञान
53.	0925	DEVANAGARI LETTER THA	थ	1456	::	यथार्थवाद	स्थितप्रज्ञ	स्थायित्व	तीर्थक्षेत्र
54.	0926	DEVANAGARI LETTER DA	द	145	::	द्वंद्व	दिगम्बर	द्रव्य	दुर्दम्य
55.	0927	DEVANAGARI LETTER DHA	ध	2346	::	धृष्टद्युम्न	धर्मक्षेत्रे	ध्यान	धन्यवाद
56.	0928	DEVANAGARI LETTER NA	न	1345	::	नृशंस	निर्वाण	न्याय	निवृत्त
57.	092A	DEVANAGARI LETTER PA	प	1234	::	प्रत्याशित	परमार्थ	प्राथमिकता	परोपकार
58.	092B	DEVANAGARI LETTER PHA	फ	124	::	स्फूर्ति	फलप्राप्ति	फर्सी	फजिती
59.	092C	DEVANAGARI LETTER BA	ब	12	::	बहिष्कार	ब्रह्मचर्य	व्यक्तितगत	बहुसंख्य
60.	092D	DEVANAGARI LETTER BHA	भ	45	::	भर्त्सना	भगवद्गीता	भविष्य	भ्रष्टाचार
61.	092E	DEVANAGARI LETTER MA	म	134	::	महत्वाकांक्षा	महाभारतम्	महत्त्वपूर्ण	महत्त्व
62.	092F	DEVANAGARI LETTER YA	य	13456	::	यादृच्छिक	यज्ञ	योद्धा	यथासांग
63.	0930	DEVANAGARI LETTER RA	र	1235	::	पुनरावृत्ति	राष्ट्राध्यक्ष	राष्ट्र	राष्ट्र
64.	0932	DEVANAGARI LETTER LA	ल	123	::	लज्जास्पद	ललितकला	लोकतन्त्र	लज्जा
65.	0933	DEVANAGARI LETTER LLA	ळ	456	::	कमळ	ईळे	पल्टन	कमळ
66.	0934	Devnagari letter LLA	ळ	5-12356	::	ळकार	कळ	ळान्त	मळा
67.	0933-093C	Alternate method of writing character 0934	ळ	5-12356	::	ळकार	कळ	ळान्त	मळा
68.	0935	DEVANAGARI LETTER VA	व	1236	::	व्यवहार	वसुधैव	विकास	व्यवहार
69.	0936	DEVANAGARI LETTER SHA	श	146	::	शुश्रूषा	शकुन्तला	शिक्षक	शिक्षण
70.	0937	DEVANAGARI LETTER SSA	ष	12346	::	षड्यंत्र	षोडशोपचार	षड्यन्त्र	षड्यंत्र
71.	0938	DEVANAGARI LETTER SA	स	234	::	सहिष्णुता	सत्यमेव	संसार	सर्वत्र
72.	0939	DEVANAGARI LETTER HA	ह	125	::	हृदयविदारक	हृदय	हस्तक्षेप	हृदय
73.	095C	DEVANAGARI LETTER DDDHA ≡ 0921 ड 093C ढ	ड़	12456	::	हड़प्पा	जड़	पहाड़	झाड़
74.	0921,093C	Alternate way of writing 095C	ड़	12456	::	हड़प्पा	जड़	पहाड़	झाड़
75.	095D	DEVANAGARI LETTER RHA ≡ 0922 ढ 093C ढ	ढ़	5, 12456	::	दृढ़ता	दृढ़	ढाड़	दृढ़
76.	0922,093C	Alternate way of writing 095D	ढ़	5,12456	::	दृढ़ता	दृढ़	ढाड़	दृढ़
77.	0960	DEVANAGARI LETTER VOCALIC RR	ऋ	6, 1235	::	आतृण	ऋकार	ऋकार	पितृणां
78.	0929	DEVANAGARI LETTER NNNA	ं	5, 1345	::	पल	महन्	महन्	महन्

S. No.	Unicode	Description	Print	Braille Numbers	Braille code	Example Word Hindi	Example Word Sanskrit	Example Word Nepali	Example Word Marathi
79.	0931	DEVANAGARI LETTER RRA ऱ	र	5, 1235	⠠⠠⠠	मन्हाटी	वन्हाड	पहाड	वन्हाड
80.	0950	DEVANAGARI OM → 1F549 ॐ om symbol	ॐ	5, 1256	⠠⠠⠠	ॐकार	ॐकार	ॐकार	ॐकार
81.	097B	DEVANAGARI LETTER GGA	ख	5, 1245	⠠⠠⠠	गा	गा	गा	गा

Digits

S. No.	Unicode	Description	Print	Braille Numbers	Braille code	Example Word Hindi	Example Word Sanskrit	Example Word Nepali	Example Word Marathi
82.	0966	DEVANAGARI DIGIT ZERO also used to represent an anusvara following digits indicating secondary svaras in Samavedic texts	०	3456, 245	⠠⠠⠠	०	०	०	०
83.	0967	DEVANAGARI DIGIT ONE	१	3456, 1	⠠⠠⠠	१	१	१	१
84.	0968	DEVANAGARI DIGIT TWO	२	3456, 12	⠠⠠⠠	२	२	२	२
85.	0969	DEVANAGARI DIGIT THREE	३	3456, 14	⠠⠠⠠	३	३	३	३
86.	096A	DEVANAGARI DIGIT FOUR	४	3456, 145	⠠⠠⠠	४	४	४	४
87.	096B	DEVANAGARI DIGIT FIVE	५	3456, 15	⠠⠠⠠	५	५	५	५
88.	096C	DEVANAGARI DIGIT SIX	६	3456, 124	⠠⠠⠠	६	६	६	६
89.	096D	DEVANAGARI DIGIT SEVEN	७	3456, 1245	⠠⠠⠠	७	७	७	७
90.	096E	DEVANAGARI DIGIT EIGHT	८	3456, 125	⠠⠠⠠	८	८	८	८
91.	096F	DEVANAGARI DIGIT NINE	९	3456, 24	⠠⠠⠠	९	९	९	९

Modifiers

S. No.	Unicode	Description	Print	Braille Numbers	Braille code	Example Word Hindi	Example Word Sanskrit	Example Word Nepali	Example Word Marathi
92.	094D	DEVANAGARI SIGN VIRAMA = halant (the preferred Hindi name)• suppresses inherent vowel	्	4	⠠	उद्देश्य	साक्षात्	पछ	आत्मविश्वास
93.	093C	DEVANAGARI SIGN NUKTA	़	5	⠠	जिंदगी	कागज	गजल	जमीन

S. No.	Unicode	Description	Print	Braille Numbers	Braille code	Example Word Hindi	Example Word Sanskrit	Example Word Nepali	Example Word Marathi
		• for extending the alphabet to new letters							

Conjunct Characters

S.no	Unicode	Description	Print	Braille Numbers	Braille (Dots)	Hindi	Sanskrit	Neplai	Marathi
94.	0915, 094D, 0937	DEVANAGAR I LETTER Ksha	क्ष	12345	⠠⠠⠠	क्षेत्राधिकार	क्षत्रिय	लक्ष्य	क्षेत्र
95.	0915,094D,0937,094D	DEVANAGAR I LETTER Ksha with halant	क्ष्	4-12345	⠠⠠⠠⠠	क्षमा	क्षेत्रम्	क्षेत्र	क्षमा
96.	091C, 094D, 091E	DEVANAGAR I LETTER Gya	ज्ञ	156	⠠⠠⠠	ज्ञानवर्धक	ज्ञानयोग	ज्ञान	आज्ञा
97.	091C,094D,091E,094D	GYA with halant	ज्ञ्	4-156	⠠⠠⠠⠠	ज्ञान	प्रज्ञा	अज्ञान	ज्ञान
98.	0924, 094D, 0930	DEVANAGAR I LETTER Tra	त्र	4, 2345, 1235	⠠⠠⠠⠠	त्रिआयामी	त्रिभुवन	पत्रकार	चित्रकला
99.	0936, 094D, 0930	DEVANAGAR I LETTER Sra	श्र	4, 146, 1235	⠠⠠⠠⠠	श्रद्धाजलि	श्रोत्रिय	श्रद्धा	श्रम

Nukta Consonants

S.No	Unicode	Print	Description	Braille Number	Braille dots	Hindi	Sanskrit	Nepali	Marathi
100.	0958	DEVANAGARI LETTER QA ≡ 0915 क 093C ँ	क	5, 13	⠠⠠⠠	काबिलियत	कुरान	कदम	कदम
101.	0915-093c	Letter Ka with Nukta, same as letter 0958	क	5-13	⠠⠠⠠	काबिलियत	कुरान	कदम	कदम
102.	0959	DEVANAGARI LETTER KHHA ≡ 0916 ख 093C ्र	ख	5, 46	⠠⠠⠠	खुशामद	खुदा	खबर	खबर
103.	0916-093C	Letter Kha with Nukta same as letter 0959	ख	5-46	⠠⠠⠠	खुशामद	खुदा	खबर	खबर

104.	095A	DEVANAGARI LETTER GHHA ≡ 0917 ग 093C ः	ग	5, 1245	⠠⠠⠠	गैरकानूनी	गज़ल	गज़ल	गज़ल
105.	0917- 093C	DEVANAGARI LETTER GHHA with Nukta same as letter 095A	ग	5-1245	⠠⠠⠠	गैरकानूनी	गज़ल	गज़ल	गज़ल
106.	095B	DEVANAGARI LETTER ZA ≡ 091C ज 093C ः	ज	5, 245	⠠⠠⠠	ज़िम्मेदारी	ज़मीन	जाल	जबाबदारी
107.	091C- 093C	Devanagari letter ZA with Nukta same as 095B	ज	5,245	⠠⠠⠠	ज़िम्मेदारी	ज़मीन	जाल	जबाबदारी
108.	095E	DEVANAGARI LETTER FA ≡ 092B फ 093C ः	फ	5, 124	⠠⠠⠠	फिलहाल	फ़तवा	फीता	फ़कीर
109.	092B- 093C	DEVANAGARI LETTER FA with nukta same as 095E	फ	5-124	⠠⠠⠠	फिलहाल	फ़तवा	फीता	फ़कीर
110.	095F	DEVANAGA RI LETTER YYA ≡ 092F य 093C ः	य	5, 13456	⠠⠠⠠	सय्या	सय्या	सय्या	सय्या
111.	092F- 093C	DEVANAGARI LETTER YYA with Nukta same as letter 095F	य	5- 13456	⠠⠠⠠	सय्या	सय्या	सय्या	सय्या
112.	0929- 094D	Devanagari Letter NNNA with nukta with halant	न्	4-5- 1345	⠠⠠⠠	कण्ठ	कणिका	वर्ण	कण्या

Punctuations

S.No	Unico de	Print	Descripti on	Braille Number	Braille dots	Hindi	Sanskrit	Nepali	Marathi
113.	0964	/	DEVAN AGARI DANDA = purna viram • phrase	256	⠠⠠	राम घर गया।	धर्मक्षेत्रे कुरुक्षेत्रे समवेता युयुत्सवः।	विद्यालय जान्छु।	मी पुस्तक वाचले।

			<i>separat or</i>						
114.	0965	//	DEVAN AGARI DOUBL E DANDA = deergh viram	256- 256	::::	राम घर गया॥	धर्मक्षेत्रे कुरुक्षेत्रे समवेता युयुत्सवः॥	म विद्यालय जान्छु॥	मी पुस्तक वाचले॥
115.	0970	डॉ.	Abbrevia tion sign	256	::	डॉ.	श्लो.	श्री.	प्र.

Rules

S.No	UNICODE/Category of Character	Description of Character	Braille Code	Description of Rule	Example
116.	Consonant-Halant	Consonant with Halant	4-consonant	Consonant followed by Halant has to be written as Halant followed by consonant in braille(In Unicode Halant character is added after the consonants whereas in braille dot 4 signifying Halant has to be written before the consonant)	क् (0915-094D is written as 4-13)
117.	Consonant -093C	Consonant-Nukta	5-Consonant	Nukta has to be written as dot 5 before the consonant in braille whereas in Unicode NUKTA is written after the consonant	क़ (0915-093C is written as 5-13)
118.	Consonant-swarakshar	Cosonant-swarakshar	Consonant-1-swarakshar	In braille dot 1 is added after the consonant if consonant is followed by swarakshar.	कई (0915- 0908 is written as 13-1-35)
119.	Consonant-093C-094D	Cosonant-Nukta-Halant	4-5-Consonant	In braille, Halant is added before Nukta and Consonant when a consonant is followed by Nukta and Halant in Devanagari.	क् (0915-093C-094D is written as 4-5-13)

Changes introduced In Bharti Braille 2.1

S.No	Unicode	Description	Print	Old Braille Code	New Braille	Braille Code	Comments
1.	0934	Devnagari letter LLA	ळ	-	5-12356	⠠⠇⠠⠇	
2.	0933-093C	Letter LLA with Nukta same as letter 0934	ळ	-	5-12356	⠠⠇⠠⠇	Alternate way of writing 0934
3.	0915-093c	Letter Ka with Nukta, same as letter 0958	क	-	5-13	⠠⠅⠠⠅	Alternative way of writing ka with Nukta
4.	0916-093C	Letter Kha with Nukta same as letter 0959	ख	-	5-46	⠠⠅⠠⠅	Alternate way of writing Kha with Nukta
5.	0917-093C	DEVANAGARI LETTER GHHA with Nukta same as letter 095A	ग	-	5-1245	⠠⠅⠠⠅	Alternate way of writing Ghaa with Nukta
6.	091C-093C	Devanagari letter ZA with Nukta same as 095B	ज	-	5-245	⠠⠅⠠⠅	Alternate way of writing ZA with Nukta
7.	092B-093C	DEVANAGARI LETTER FA with nukta same as 095E	फ	-	5-124	⠠⠅⠠⠅	Alternate way of writing Fa with Nukta
8.	092F-093C	DEVANAGARI LETTER YYA with Nukta same as letter 095F	य	-	5-13456	⠠⠅⠠⠅	Alternate way of writing YYA with Nukta
9.	0929-094D	Devanagari Letter NNNA with nukta with halant	न्	-	4-5-1345	⠠⠅⠠⠅⠠⠅	This definition is essential because we need to specify the sequence of braille codes to be displayed
10.	0965	DEVANAGARI DOUBLE DANDA = deergh viram	//	-	256-256	⠠⠇⠠⠇	
11.	0970	Abbreviation sign	ॐ	-	256	⠠⠇	

Changes implemented in Bharti Braille 2.0

S.No	Unicode	Description	Print	Old Braille Code	New Braille	Braille Code	Comments
1.	0904	DEVANAGARI LETTER SHORT A • used for short e in Awadhi • also used in Devanagari transliterations of some South Indian and Kashmiri languages by a publisher in Lucknow	अे		5-1	⠠⠠	
2.	0912	DEVANAGARI LETTER SHORT O • Kashmiri, Bihari languages • also used for transcribing Dravidian short o	ओ	None	1346	⠠⠠	
3.	0929	DEVANAGARI LETTER NNNA • for transcribing Dravidian alveolar n ≡ 0928 न 093C ण	न	None	5-1345	⠠⠠⠠	
4.	094A	DEVANAGARI VOWEL SIGN SHORT O • Kashmiri, Bihari languages • also used for transcribing Dravidian short o	ो	345	1346	⠠⠠	
5.	0950	DEVANAGARI OM → 1F549 ॐ om symbol	ॐ	135-4-134	5-1256	⠠⠠⠠	
6.	0951	DEVANAGARI STRESS SIGN UDATTA = Vedic tone svarita • mostly used for svarita, with rare use for udatta • used also in Vedic texts written in other scripts → 1CDA ऽ vedic tone double svarita	ँ	None	1356	⠠⠠	
7.	0952	DEVANAGARI STRESS SIGN ANUDATTA = Vedic tone anudatta • used also in Vedic texts written in other scripts → 1CDC	ं	none	12356	⠠⠠	

S.No	Unicode	Description	Print	Old Braille Code	New Braille	Braille Code	Comments
8.	0958	DEVANAGARI LETTER QA same as 0915,093C ञ	क	13	5-13	⠠⠠	
9.	0959	DEVANAGARI LETTER KHHA same as 0916,093C	ख	46	5-46	⠠⠠	
10.	095A	DEVANAGARI LETTER GHHA same as 0917, 093C	ग	1245	5-1245	⠠⠠	
11.	095B	DEVANAGARI LETTER ZA same as 091C, 093C	095B	245	5-245	⠠⠠	
12.	095E	DEVANAGARI LETTER FA with nukta same as 092B फ 093C	फ	235	5-124	⠠⠠	
13.	095F	DEVANAGARI LETTER YYA with Nukta same as 092F य 093C	य	13456	5-13456	⠠⠠	
14.	093D-093D	TO denote more emphasis of avagraha in Marathi Language		None	2-2	⠠⠠	
15.	1CF2	Jihvāmūliya sign used before consonant with visarga in vedic Sanskrit		None	5	⠠	To be added in liblouis table
16.	1CF3	Upadhmaniya Used before consonants like क(ka) and ख(kha) when visarga (ः) precedes them In vedic sanskrit		None	5	⠠	to be added in liblouis table

Complete Gujarati Script table of Bharti braille code version 2.1

Vowels (Swar)

S.No	Unicode	Description	Print	Braille numbers	Braille dots	Example words
1.	0A85	GUJARATI LETTER A	અ	1	⠠	અવનિ
2.	0A86	GUJARATI LETTER AA	આ	345	⠠⠠	આત્મસાત
3.	0A87	GUJARATI LETTER I	ઇ	24	⠠⠠	ઇતિહાસ
4.	0A88	GUJARATI LETTER II	ઈ	35	⠠⠠	ઈર્ષ્યા
5.	0A89	GUJARATI LETTER U	ઉ	136	⠠⠠	ઉત્કંઠા
6.	0A8A	GUJARATI LETTER UU	ઊ	1256	⠠⠠	ઊર્જા
7.	0A8B	GUJARATI LETTER VOCALIC R	ઋ	5, 1235	⠠⠠	ઋજુતા
8.	0A8C	GUJARATI LETTER VOCALIC L • used with Sanskrit text	ૠ	5, 123	⠠⠠	કલ્પતિ
9.	0A8D	GUJARATI VOWEL CANDRA E	એ	26	⠠⠠	એકેડમી
10.	0A8F	GUJARATI LETTER E	એ	15	⠠⠠	એકાંત
11.	0A90	GUJARATI LETTER AI	ઐ	34	⠠⠠	ઐતિહાસિક
12.	0A91	GUJARATI VOWEL CANDRA O	ઑ	1346	⠠⠠	ઑક્ટોબર
13.	0A93	GUJARATI LETTER O	ઓ	135	⠠⠠	ઓજસ
14.	0A94	GUJARATI LETTER AU	ઔ	246	⠠⠠	ઔપચારિક

Vowel Symbol (Matra)

S.No	Unicode	Description	Print	Braille numbers	Braille dots	Example words
15.	0ABE	GUJARATI VOWEL SIGN AA	ા	345	⠠⠠	આરાધના
16.	0ABF	GUJARATI VOWEL SIGN I • stands to the left of the consonant	િ	24	⠠⠠	અતિક્રમણ
17.	0AC0	GUJARATI VOWEL SIGN II	ી	35	⠠⠠	વિશિષ્ટિકરણ

S.No	Unicode	Description	Print	Braille numbers	Braille dots	Example words
18.	0AC1	GUJARATI VOWEL SIGN U	ુ	136	::	અનુકૂળતા
19.	0AC2	GUJARATI VOWEL SIGN UU	ૂ	1256	::	સૂક્ષ્મજંતુ
20.	0AC3	GUJARATI VOWEL SIGN VOCALIC R	ૃ	5, 1235	::	કૃપાળુ
21.	0AC4	GUJARATI VOWEL SIGN VOCALIC RR	ૄ	6, 1235	::	પિતૃણ
22.	0AC5	GUJARATI VOWEL SIGN CANDRA E	ે	26	::	કેલેન્ડર
23.	0AC7	GUJARATI VOWEL SIGN E	ૈ	15	::	વ્યવસ્થાપન
24.	0AC8	GUJARATI VOWEL SIGN AI	ૌ	34	::	નૈસર્ગિક
25.	0AC9	GUJARATI VOWEL SIGN CANDRA O	ો	1346	::	કોફી
26.	0ACB	GUJARATI VOWEL SIGN O	ૌ	135	::	અવલોકન
27.	0ACC	GUJARATI VOWEL SIGN AU	ૌ	246	::	અનૌપચારિક
28.	0A81	GUJARATI SIGN CANDRABINDU	ં	3	::	સાંભળવું
29.	0A82	GUJARATI SIGN ANUSVARA	ં	56	::	સંશ્લેષણ
30.	0A83	GUJARATI SIGN VISARGA	ઃ	6	::	અંતઃકરણ
31.	0ABD	GUJARATI SIGN AVAGRAHA	,	2	::	કોડપિ

Consonants (Vyanjan)

S.No	Unicode	Description	Print	Braille numbers	Braille dots	Example words
32.	0A95	GUJARATI LETTER KA	ક	13	::	કરકસર
33.	0A96	GUJARATI LETTER KHA	ખ	46	::	ખુશ્બૂ
34.	0A97	GUJARATI LETTER GA	ગ	1245	::	ગુપ્તચર
35.	0A98	GUJARATI LETTER GHA	ઘ	126	::	ઘનિષ્ઠ
36.	0A99	GUJARATI LETTER NGA	ઙ	346	::	વાઙ્મય
37.	0A9A	GUJARATI LETTER CA	ચ	14	::	ચરિત્રહનન

S.No	Unicode	Description	Print	Braille numbers	Braille dots	Example words
38.	0A9B	GUJARATI LETTER CHA	છ	16	⠠	છાનામાના
39.	0A9C	GUJARATI LETTER JA	જ	245	⠠	જિજ્ઞાસુ
40.	0A9D	GUJARATI LETTER JHA	ઝ	356	⠠	ઝમકદાર
41.	0A9E	GUJARATI LETTER NYA	ઞ	25	⠠	પ્રજ્ઞા
42.	0A9F	GUJARATI LETTER TTA	ટ	23456	⠠	ટિપ્પણી
43.	0AA0	GUJARATI LETTER TTHA	ઠ	2456	⠠	ઠહેરાવ
44.	0AA1	GUJARATI LETTER DDA	ડ	1246	⠠	ડિપ્લોમા
45.	0AA2	GUJARATI LETTER DDHA	ઢ	123456	⠠	ઢિંગલી
46.	0AA3	GUJARATI LETTER NNA	ણ	3456	⠠	નિર્ણય
47.	0AA4	GUJARATI LETTER TA	ત	2345	⠠	તત્ત્વજ્ઞાન
48.	0AA5	GUJARATI LETTER THA	થ	1456	⠠	થર્મલ
49.	0AA6	GUJARATI LETTER DA	દ	145	⠠	દુર્લભ
50.	0AA7	GUJARATI LETTER DHA	ધ	2346	⠠	ધર્મચુક્ર
51.	0AA8	GUJARATI LETTER NA	ન	1345	⠠	નિરંતર
52.	0AAA	GUJARATI LETTER PA	પ	1234	⠠	પર્યાવરણ
53.	0AAB	GUJARATI LETTER PHA	ફ	124	⠠	ફરજિયાત
54.	0AAC	GUJARATI LETTER BA	બ	12	⠠	બુદ્ધિગમ્ય
55.	0AAD	GUJARATI LETTER BHA	ભ	45	⠠	ભવિષ્યવાણી
56.	0AAE	GUJARATI LETTER MA	મ	134	⠠	મનોવૈજ્ઞાનિક
57.	0AAF	GUJARATI LETTER YA	ય	13456	⠠	યજમાન
58.	0AB0	GUJARATI LETTER RA	ર	1235	⠠	રાષ્ટ્રપતિ
59.	0AB2	GUJARATI LETTER LA	લ	123	⠠	લૌકિક
60.	0AB3	GUJARATI LETTER LLA	ળ	456	⠠	વ્યક્તિગત
61.	0AB5	GUJARATI LETTER VA	વ	1236	⠠	વ્યાવસાયિક
62.	0AB6	GUJARATI LETTER SHA	શ	146	⠠	શાશ્વત

S.No	Unicode	Description	Print	Braille numbers	Braille dots	Example words
63.	0AB7	GUJARATI LETTER SSA	ષ	12346	::	વિષમતા
64.	0AB8	GUJARATI LETTER SA	સ	234	:.	સંકુચિત
65.	0AB9	GUJARATI LETTER HA	હ	125	::	હૃદયપૂર્વક
66.	0AD0	GUJARATI OM	ૐ	5, 1256	:::	ૐ
67.	20B9	Indian Ruppee sign	₹	4-1235-136	:::	₹

Additional vowel for Sanskrit

S.No	Unicode	Description	Print	Braille numbers	Braille dots	Example words
68.	0AE0	GUJARATI LETTER VOCALIC RR	ઋ	6, 1235	:::	ઋષભ
69.	0AE1	GUJARATI LETTER VOCALIC LL	ૠ	6, 123	:::	કૠલ્લિ
70.	0AE2	GUJARATI VOWEL SIGN VOCALIC L	ૡ	5, 123	:::	કૡલ્લિ
71.	0AE3	GUJARATI VOWEL SIGN VOCALIC LL	ૢ	6, 123	:::	કૢલ્લિ

Digits (Anka)

S.No	Unicode	Description	Print	Braille numbers	Braille dots	Example words
72.	0AE6	GUJARATI DIGIT ZERO	૦	3456, 245	:::	શૂન્ય
73.	0AE7	GUJARATI DIGIT ONE	૧	3456, 1	:::	એકવીસ
74.	0AE8	GUJARATI DIGIT TWO	૨	3456, 12	:::	બાવન
75.	0AE9	GUJARATI DIGIT THREE	૩	3456, 14	:::	ત્રેસઠ
76.	0AEA	GUJARATI DIGIT FOUR	૪	3456, 145	:::	ચુંમાળીસ
77.	0AEB	GUJARATI DIGIT FIVE	૫	3456, 15	:::	પંચોતેર
78.	0AEC	GUJARATI DIGIT SIX	૬	3456, 124	:::	છવ્વીસ
79.	0AED	GUJARATI DIGIT SEVEN	૭	3456, 1245	:::	સિત્તેર
80.	0AEE	GUJARATI DIGIT EIGHT	૮	3456, 125	:::	અઠાવીસ

S.No	Unicode	Description	Print	Braille numbers	Braille dots	Example words
81.	0AEF	GUJARATI DIGIT NINE	૯	3456, 24	⠠⠠⠠	નવ્વાણું

Modifiers (Chinha)

S.No	Unicode	Description	Print	Braille numbers	Braille dots	Example words
82.	0ABC	GUJARATI SIGN NUKTA • for extending the alphabet to new letters	◌̣	5	⠠	ગુજરાત
83.	0ACD	GUJARATI SIGN VIRAMA	◌̤	4	⠠	વિદ્યુત્કૃષ્ટ

Conjunct Characters (Jodakshar)

S.No	Unicode	Description	Print	Braille numbers	Braille dots	Example words
84.	0A95, 0ACD, 0AB7	GUJARATI LETTER Ksha	ક્ષ	12345	⠠⠠⠠	અક્ષર
85.	0A9C, 0ACD, 0A9E	GUJARATI LETTER Gya	જ્ઞ	156	⠠	જ્ઞાન
86.	0A9C, 0ACD, 0A9E,0ACD	GUJARATI LETTER Gya with Virama	જ્ઞ̤	4-156	⠠⠠	આજ્ઞા
87.	0AA4, 0ACD, 0AB0	GUJARATI LETTER Tra	ત્ર	4, 2345, 1235	⠠⠠⠠⠠	મિત્ર
88.	0AB6, 0ACD, 0AB0	GUJARATI LETTER Sri	શ્ર	4, 146, 1235	⠠⠠⠠	શ્રેણી
89.	0A95,0ACD, 0AB7,0ACD	KSHA with Virama	ક્ષ̤	4-12345	⠠⠠	ક્ષિતિ

Rules

S.No.	UNICODE/Category of Character	Description of Character	Braille Code	Description of Rule	Example
1.	Consonant-0ACD	Consonant with Virama	4-consonant	Consonant followed by Virama has to be written as Virama followed by	ફ (0A95-0ACD is written as 4-13)

				consonant in braille(In Unicode Virama character is added after the consonants whereas in braille dot 4 signifying Virama has to be written before the consonant)	
2.	Consonant - 0ABC	Consonant- Nukta	5- Consonant	Nukta has to be written as dot 5 before the consonant in braille whereas in Unicode NUKTA is written after the consonant	ઁ (0A95-0ABC is written as 5-13)
3.	Consonant- swarakshar	Cosonant- swarakshar	Consonant- 1- swarakshar	In braille dot 1 is added after the consonant if consonant is followed by swarakshar.	ઃ (0A95- 0A88 is written as 13-1-35)
4.	Consonant- 0ABC-0ACD	Cosonant- Nukta-Virama	4-5- Consonant	In braille, Virama is added before Nukta and Consonant when a consonant is followed by Nukta and Virama in Gujarati.	઼ (0A95-0ABC-0ACD is written as 4-5-13)

Changes introduced in Bharti braille 2.1

No changes introduced in Bharti braille code version 2.1

Changes implemented in Bharti braille 2.0

S.No	Unicode	Description	Print	Old braille code	New Braille Code as per Bharti braille code version 2. (Released on Jan 4 2025) Gujarati		Comments
					Braille numbers	Braille code	
1.	0A91	GUJARATI VOWEL CANDRA O	ઔ	345	1346		
2.	0AAB	GUJARATI LETTER PHA	ફ	235	124	⠠	
3.	0AC9	GUJARATI VOWEL	ૌ	345	1346	⠠	

		SIGN CANDRA O					
4.	0AD0	GUJARATI OM	ॐ	135-4- 134	5,1256	...	

Bangla

Complete Bangla Script table of Bharti braille version 2.1

Vowels (Swarabarna)

S.No	Unicode	Description	Print	Braille numbers	Braille dots	Example words
1.	0985	BENGALI LETTER A	অ	1	⠠⠠	অগ্নি
2.	0986	BENGALI LETTER AA	আ	345	⠠⠠⠠	আত্মা
3.	0987	BENGALI LETTER I	ই	24	⠠⠠	ইষ্ট
4.	0988	BENGALI LETTER II	ঈ	35	⠠⠠	ঈশ্বর
5.	0989	BENGALI LETTER U	উ	136	⠠⠠	উৎপত্তি
6.	098A	BENGALI LETTER UU	ঊ	1256	⠠⠠⠠	ঊষা
7.	098B	BENGALI LETTER VOCALIC R	ঋ	5, 1235	⠠⠠⠠	ঋণ
8.	098C	BENGALI LETTER VOCALIC L	৳	5, 123	⠠⠠⠠	৳কার
9.	098F	BENGALI LETTER E	এ	15	⠠⠠	একাংশ
10.	0990	BENGALI LETTER AI	ঐ	34	⠠⠠	ঐক্য
11.	0993	BENGALI LETTER O	ও	135	⠠⠠	ওজন
12.	0994	BENGALI LETTER AU	ঔ	246	⠠⠠	ঔষধ
13.	09E0	BENGALI LETTER VOCALIC RR	ঋ	6, 1235	⠠⠠⠠	কঋত
14.	09E1	BENGALI LETTER VOCALIC LL	৳	6, 123	⠠⠠⠠	ক৳ত
15.	09E2	BENGALI VOWEL SIGN VOCALIC L	্	5, 123	⠠⠠⠠	গুণ
16.	09E3	BENGALI VOWEL SIGN VOCALIC LL	্	6, 123	⠠⠠⠠	গুণ

Vowel Symbols (Swarachinha)

S.No	Unicode	Description	Print	Braille numbers	Braille dots	Example words
17.	09BE	BENGALI VOWEL SIGN	া	345	⠠⠠⠠	ভাষা

S.No	Unicode	Description	Print	Braille numbers	Braille dots	Example words
		AA				
18.	09BF	BENGALI VOWEL SIGN I stands to the left of the Consonant	ি	24	⠠⠠	শিক্ষা
19.	09C0	BENGALI VOWEL SIGN II	ী	35	⠠⠠	নীলা
20.	09C1	BENGALI VOWEL SIGN U	ু	136	⠠⠠	গুরু
21.	09C2	BENGALI VOWEL SIGN UU	ূ	1256	⠠⠠	পূজা
22.	09C3	BENGALI VOWEL SIGN VOCALIC R	্ৰ	5, 1235	⠠⠠⠠	কৃপা
23.	09C4	BENGALI VOWEL SIGN VOCALIC RR	্র	6, 1235	⠠⠠⠠	গৃহণ
24.	09C7	BENGALI VOWEL SIGN E stands to the left of the Consonant	ে	15	⠠⠠	লেখক
25.	09C8	BENGALI VOWEL SIGN AI stands to the left of the consonant	ৈ	34	⠠⠠	বৈদ্য
26.	09CB	BENGALI VOWEL SIGN O	ো	135	⠠⠠	মোহন
27.	09CC	BENGALI VOWEL SIGN AU	ৌ	246	⠠⠠	দৌড়
28.	09BD	BENGALI SIGN AVAGRAHA	ং	2	⠠⠠	হস্ত
29.	0981	BENGALI SIGN CANDRABINDU	ঁ	3	⠠⠠	চাঁদ

S.No	Unicode	Description	Print	Braille numbers	Braille dots	Example words
30.	0982	BENGALI SIGN ANUSVARA	ং	56	::	সংযোজন
31.	0983	BENGALI SIGN VISARGA	ঃ	6	::	দুঃখ

Consonants (Banjonborno)

S.No	Unicode	Description	Print	Braille numbers	Braille Code	Example words
32.	0995	BENGALI LETTER KA	ক	13	::	করে, ক'রে
33.	0996	BENGALI LETTER KHA	খ	46	::	খেলা
34.	0997	BENGALI LETTER GA	গ	1245	::	গাছ
35.	0998	BENGALI LETTER GHA	ঘ	126	::	ঘর
36.	0999	BENGALI LETTER NGA	ঙ	346	::	রঙ
37.	099A	BENGALI LETTER CA	চ	14	::	চশমা
38.	099B	BENGALI LETTER CHA	ছ	16	::	মাছ
39.	099C	BENGALI LETTER JA	জ	245	::	জল
40.	099D	BENGALI LETTER JHA	ঝ	356	::	ঝড়
41.	099E	BENGALI LETTER NYA	ঞ	25	::	পাঞ্জা
42.	099F	BENGALI LETTER TTA	ট	23456	::	টেবিল
43.	09A0	BENGALI LETTER TTHA	ঠ	2456	::	ঠাণ্ডা
44.	09A1	BENGALI LETTER DDA	ড	1246	::	ডাল
45.	09A2	BENGALI LETTER DDHA	ঢ	123456	::	ঢাক
46.	09A3	BENGALI LETTER NNA	ণ	3456	::	গণনা
47.	09A4	BENGALI LETTER	ত	2345	::	কতলা

S.No	Unicode	Desription	Print	Braille numbers	Braille Code	Example words
		TA				
48.	09A5	BENGALI LETTER THA	থ	1456	::	পথ
49.	09A6	BENGALI LETTER DA	দ	145	::	নদী
50.	09A7	BENGALI LETTER DHA	ধ	2346	::	ধান
51.	09A8	BENGALI LETTER NA	ন	1345	::	মন
52.	09AA	BENGALI LETTER PA	প	1234	::	পান
53.	09AB	BENGALI LETTER PHA	ফ	124	::	ফুল
54.	09AC	BENGALI LETTER BA	ব	12	::	বন
55.	09AD	BENGALI LETTER BHA	ভ	45	::	ভাব
56.	09AE	BENGALI LETTER MA	ম	134	::	মাটি
57.	09AF	BENGALI LETTER YA	য	13456	::	যাত্রা
58.	09B0	BENGALI LETTER RA	র	1235	::	রাস্তা
59.	09B2	BENGALI LETTER LA	ল	123	::	লাল
60.	09B6	BENGALI LETTER SHA	শ	146	::	শিশু
61.	09B7	BENGALI LETTER SSA	ষ	12346	::	কষা
62.	09B8	BENGALI LETTER SA	স	234	::	সাহস
63.	09B9	BENGALI LETTER HA	হ	125	::	হাত
64.	09DC	BENGALI LETTER RRA	ড়	5, 12456	:::	বড়
65.	09DD	BENGALI LETTER RHA	ঢ়	5, 12456	:::	গাঢ়
66.	09DF	BENGALI LETTER YYA	য়	26	::	রায়
67.	09CE	BENGALI LETTER KHANDA TA	ত্	5, 2345	:::	হঠাৎ

S.No	Unicode	Description	Print	Braille numbers	Braille Code	Example words
68.	20B9	Indian Ruppee sign	₹	4-1235-136	⠠⠠⠠⠠⠠⠠	₹

Additions for Assamese characters

S.No	Unicode	Description	Print	Braille numbers	Braille Code	Example words
69.	09F0	BENGALI LETTER RA WITH MIDDLE DIAGONAL	ৰ	1235	⠠⠠⠠⠠⠠⠠	ৰাস্তা
70.	09F1	BENGALI LETTER RA WITH LOWER DIAGONAL	ৱ	1236	⠠⠠⠠⠠⠠⠠	ৱানৱ
71.	09F2	BENGALI RUPEE MARK	৳	5, 123	⠠⠠⠠⠠⠠⠠	৳১০০
72.	09F3	BENGALI RUPEE SIGN	ট	6, 123	⠠⠠⠠⠠⠠⠠	ট৫০০

Digits (Shonkhya)

S.No	Unicode	Description	Print	Braille numbers	Braille dots	Example words
73.	09E6	BENGALI DIGIT ZERO	০	3456, 245	⠠⠠⠠⠠⠠⠠	০
74.	09E7	BENGALI DIGIT ONE	১	3456, 1	⠠⠠⠠⠠⠠⠠	১
75.	09E8	BENGALI DIGIT TWO	২	3456, 12	⠠⠠⠠⠠⠠⠠	২
76.	09E9	BENGALI DIGIT THREE	৩	3456, 14	⠠⠠⠠⠠⠠⠠	৩
77.	09EA	BENGALI DIGIT FOUR	৪	3456, 145	⠠⠠⠠⠠⠠⠠	৪
78.	09EB	BENGALI DIGIT FIVE	৫	3456, 15	⠠⠠⠠⠠⠠⠠	৫
79.	09EC	BENGALI DIGIT SIX	৬	3456, 124	⠠⠠⠠⠠⠠⠠	৬
80.	09ED	BENGALI DIGIT SEVEN	৭	3456, 1245	⠠⠠⠠⠠⠠⠠	৭
81.	09EE	BENGALI DIGIT EIGHT	৮	3456, 125	⠠⠠⠠⠠⠠⠠	৮
82.	09EF	BENGALI DIGIT NINE	৯	3456, 24	⠠⠠⠠⠠⠠⠠	৯

Modifiers (Bishēṣaṇ)

S.No	Unicode	Description	Print	Braille numbers	Braille dots	Example words
83.	09BC	BENGALI SIGN NUKTA • for extending the alphabet to new letters	়	5	⠠	বাড়
84.	09CD	BENGALI SIGN VIRAMA	্	4	⠠	ক্‌ষ

Conjunct Characters (Juktakkhor)

S.No	Unicode	Description	Print	Braille numbers	Braille dots	Example words
85.	0995, 09CD, 09B7	ksha	ক্‌ষ or ক্ষ	12345	⠠⠠	শিক্ষা
86.	0995, 09CD, 09B7, 09CD	Ksha with Virama	ক্ষ্	4-12345	⠠⠠⠠	শিক্ষা
87.	099C, 09CD, 099E	GYA	জ্‌	156	⠠	জ্ঞান
88.	099C, 09CD, 099E, 09CD	Gya with Virama	জ্‌	4-156		

Punctuations (Joti-chinho)

S.No	Unicode	Description	Print	Braille numbers	Braille dots	Example words
89.	0964		DEVANAGARI DANDA = purna viram • phrase separator	256	⠠	राम स्कूल गया।
90.	0965		DEVANAGARI DOUBLE DANDA = deergh viram	256-256	⠠⠠	ॐ नमः शिवाय॥

Rules

S.No	UNICODE/ Category of Character	Description of Character	Braille Code	Description of Rule	Example
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Rules

S.No	UNICODE/ Category of Character	Description of Character	Braille Code	Description of Rule	Example
1.	Consonant-09CD	Consonant with Virama	4-consonant	Consonant followed by Virama has to be written as Virama followed by consonant in braille(In Unicode Virama character is added after the consonants whereas in braille dot 4 signifying Virama has to be written before the consonant)	ক (0995-09CD is written as 4-13)
2.	Consonant -09BC	Consonant-Nukta	5-Consonant	Nukta has to be written as dot 5 before the consonant in braille whereas in Unicode NUKTA is written after the consonant	ক্ (0995-09BC is written as 5-13)
3.	Consonant-swarakshar	Consonant-swarakshar	Consonant-1-swarakshar	In braille dot 1 is added after the consonant if consonant is followed by swarakshar.	কঃ (0995- 0988 is written as 13-1-35)
4.	Consonant-09BC-09CD	Consonant-Nukta-Virama	4-5-Consonant	In braille, Virama is added before Nukta and Consonant when a consonant is followed by Nukta and Virama in Bangla/ Assamese	ক্ (0995-09BC-09CD is written as 4-5-13)

Changes Introduced In Bharti Braille 2.1

S.No	Unicode	Description	Print	New Braille Code as per Bharti braille code version 2. (Released on Jan 4 2025) Bangla/ Assamese		Comments
				Braille no	Braille code	
1.	0964	Danri or punnachhed or Devnagari poorna viram		256	⠼	This character falls under Devanagari script however it is commonly used in Bengali language

2.	0965	DEVANAGARI DOUBLE DANDA = deergh viram	॥	256-256	⠠⠠	This character falls under Devanagari script however it is commonly used in Bengali language

Changes implemented in Bharti Braille 2.0

S.No	Unicode	Description	Print	Old braille code	New Braille Code as per Bharti braille code version 2. (Released on Jan 4 2025) Bangla/ Assamese		Comments
					Braille number	Braille code	
1.	09AB	Bengali Letter PHA	ফ	235	124	⠠	
2.	09F2	Bengali mark for Ruppee	৳		5-123	⠠⠠	
3.	09F3	Bengali sign Ruppee	ট		6-123	⠠⠠	
4.	0995-09BC	Ka with Nukta	ক্		5-13	⠠⠠	
5.	0996-09BC	kha with nukhta	খ্		5-46	⠠⠠	
6.	0997-09BC	ga with nukhta	গ্		5-1245	⠠⠠	
7.	099C-09BC	ja with nukhta	জ্		5-245	⠠⠠	
8.	09A1-09BC	da with nukhta	ড্		12456	⠠⠠	
9.	09A2-09BC	dhaa with nukhta	ঢ্		5-12456	⠠⠠	
10.	09AB-09BC	fa with nukhta	ফ্		5-124	⠠⠠	
11.	09AF-09BC	ya with nukhta	য়্		26	⠠	

Complete Gurmukhi Script table of Bharti braille version 2.1

Vowels (Swar)

S.No	Unicode	Description	Print	Braille code in numbers	Braille dots	Example words
1.	0A05	GURMUKHI LETTER A = aīra	ਅ	1	⠁	ਅਮਨ
2.	0A06	GURMUKHI LETTER AA	ਆ	345	⠠	ਆਸ
3.	0A07	GURMUKHI LETTER I	ਇ	24	⠡	ਇਨਸਾਨ
4.	0A08	GURMUKHI LETTER II	ਈ	35	⠢	ਈਮਾਨ
5.	0A09	GURMUKHI LETTER U	ਉ	136	⠣	ਉਮੀਦ
6.	0A0A	GURMUKHI LETTER UU	ਊ	1256	⠣⠠	ਊਰਜਾ
7.	0A0F	GURMUKHI LETTER EE	ਏ	15	⠡⠠	ਏਕਤਾ
8.	0A10	GURMUKHI LETTER AI	ਐ	34	⠡⠢	ਐਨਕ
9.	0A13	GURMUKHI LETTER OO	ਓ	135	⠣⠠	ਓਹਲਾ
10.	0A14	GURMUKHI LETTER AU	ਔ	246	⠡⠢⠠	ਔਖਾ
11.	0A74	GURMUKHI EK ONKAR	ੴ	3456- 1-136	⠠⠠⠠⠠	ੴ

Vowels Symbols (Laga Matra)

S.No	Unicode	Description	Print	Braille code in numbers	Braille dots	Example words
12.	0A3E	GURMUKHI VOWEL SIGN AA = kanna	ਾ	345	⠠	ਕਲਾ
13.	0A3F	GURMUKHI VOWEL SIGN I = sihari • stands to the left of the consonant	ਿ	24	⠡	ਸਿਤਾਰ
14.	0A40	GURMUKHI VOWEL SIGN II = bihari	ੀ	35	⠢	ਨੀਲਾ
15.	0A41	GURMUKHI VOWEL SIGN U = aunkar	ੁ	136	⠣	ਸੁਖ
16.	0A42	GURMUKHI VOWEL SIGN UU = dulainkar	ੂ	1256	⠣⠠	ਧੂਪ

S.No	Unicode	Description	Print	Braille code in numbers	Braille dots	Example words
17.	0A47	GURMUKHI VOWEL SIGN EE = lanvan	ੌ	15	⠠⠠	ਮੇਲਾ
18.	0A48	GURMUKHI VOWEL SIGN AI = dulanvan	ੌ	34	⠠⠠	ਪੈਰ
19.	0A4B	GURMUKHI VOWEL SIGN OO = hora	ੌ	135	⠠⠠	ਸੋਨਾ
20.	0A4C	GURMUKHI VOWEL SIGN AU = kanaura	ੌ	246	⠠⠠	ਘੋਸਲਾ
21.	0A01	GURMUKHI SIGN ADAK BINDI	ੌ	3	⠠	ਲੱਜਾ
22.	0A02	GURMUKHI SIGN BINDI (TIPPI)	ੌ	56	⠠	ਸੰਗਤ
23.	0A03	GURMUKHI SIGN VISARGA Independent vowels	ੌ	6	⠠	ਅਃਕਾਰ
24.	0A70	GURUMUKHI TIPPI	ੌ	56	⠠	ਪੰਜਾਬ

Consonants (Vianjan)

S.No	Unicode	Description	Print	Braille code in numbers	Braille dots	Example words
25.	0A15	GURMUKHI LETTER KA	ਕ	13	⠠	ਕਲਮ
26.	0A16	GURMUKHI LETTER KHA	ਖ	46	⠠	ਖੇਤ
27.	0A17	GURMUKHI LETTER GA	ਗ	1245	⠠	ਗੁਰੂ
28.	0A18	GURMUKHI LETTER GHA	ਘ	126	⠠	ਘਰ
29.	0A19	GURMUKHI LETTER NGA	ਙ	346	⠠	ਅੰਗ
30.	0A1A	GURMUKHI LETTER CHA	ਚ	14	⠠	ਚੰਦ
31.	0A1B	GURMUKHI LETTER CHHA	ਛ	16	⠠	ਛਾਂ
32.	0A1C	GURMUKHI LETTER JA	ਜ	245	⠠	ਜਗਤ
33.	0A1D	GURMUKHI LETTER JHA	ਝ	356	⠠	ਝੰਡਾ
34.	0A1E	GURMUKHI LETTER NYA	ਞ	25	⠠	ਗਿਆਨਞ

S.No	Unicode	Description	Print	Braille code in numbers	Braille dots	Example words
35.	0A1F	GURMUKHI LETTER TTA	ਟ	23456	::	ਟੇਪੀ
36.	0A20	GURMUKHI LETTER TTHA	ਠ	2456	::	ਠੰਢ
37.	0A21	GURMUKHI LETTER DDA	ਡ	1246	::	ਡਾਕ
38.	0A22	GURMUKHI LETTER DDHA	ਢ	123456	::	ਢੇਲ
39.	0A23	GURMUKHI LETTER NNA	ਣ	3456	::	ਪਾਣੀ
40.	0A24	GURMUKHI LETTER TA	ਤ	2345	::	ਤਾਰਾ
41.	0A24,0A3C	TA + Nukta	ਤ੍ਰਾ	5-2345	:::	ਤ੍ਰਾਕਤ
42.	0A25	GURMUKHI LETTER THA	ਥ	1456	::	ਥਾਲੀ
43.	0A26	GURMUKHI LETTER DA	ਦ	145	::	ਦਿਲ
44.	0A27	GURMUKHI LETTER DHA	ਧ	2346	::	ਧਰਤੀ
45.	0A28	GURMUKHI LETTER NA	ਨ	1345	::	ਨਾਮ
46.	0A2A	GURMUKHI LETTER PA	ਪ	1234	::	ਪਿਆਰ
47.	0A2B	GURMUKHI LETTER PHA	ਫ	124	::	ਫੁੱਲ
48.	0A2C	GURMUKHI LETTER BA	ਬ	12	::	ਬੱਚਾ
49.	0A2D	GURMUKHI LETTER BHA	ਭ	45	::	ਭਰਾ
50.	0A2E	GURMUKHI LETTER MA	ਮ	134	::	ਮਾਤਾ
51.	0A2F	GURMUKHI LETTER YA	ਯ	13456	::	ਯਾਤਰਾ
52.	0A30	GURMUKHI LETTER RA	ਰ	1235	::	ਰੋਟੀ
53.	0A32	GURMUKHI LETTER LA	ਲ	123	::	ਲੜੀ
54.	0A33	GURMUKHI LETTER LLA	ਲ਼	456	::	ਲ਼ੱਕੜ

S.No	Unicode	Description	Print	Braille code in numbers	Braille dots	Example words
55.	0A32,0A3C	LA + NUKTA = LLA(Alternate way of writing oA33)	ਲ਼	456	⠠⠠⠠	ਲ਼ੱਕੜ
56.	0A35	GURMUKHI LETTER VA	ਵ	1236	⠠⠠⠠	ਵਿਰਾਸਤ
57.	0A36	GURMUKHI LETTER SHA ≡ 0A38 ਸ 0A3C	ਸ਼	146	⠠⠠⠠	ਸ਼ਰਧਾ
58.	0A38,0A3C	Alternate way of writing 0A36	ਸ਼	146	⠠⠠⠠	ਸ਼ਰਧਾ
59.	0A38	GURMUKHI LETTER SA	ਸ	234	⠠⠠⠠	ਸੱਚ
60.	0A39	GURMUKHI LETTER HA	ਹ	125	⠠⠠⠠	ਹਵਾ
61.	0A59	GURMUKHI LETTER KHHA ≡ 0A16 ਖ਼ 0A3C ੱ	ਖ਼	5, 13	⠠⠠⠠	ਖ਼ਬਰ
62.	0A5A	GURMUKHI LETTER GHHA ≡ 0A17 ਗ਼ 0A3C ੱ	ਗ਼	5, 1245	⠠⠠⠠	ਗ਼ਜ਼ਲ
63.	0A5B	GURMUKHI LETTER ZA ≡ 0A1C ਜ਼ 0A3C ੱ	ਜ਼	5, 245	⠠⠠⠠	ਜ਼ਮੀਨ
64.	0A5C	GURMUKHI LETTER RRA	ੜ	12456	⠠⠠⠠	ੜੀਹ
65.	0A21,0A3C	GURUMUKHI LETTER RRA alternative method of 0A5C	ੜ	12456	⠠⠠⠠	ੜੀਹ
66.	0A5E	GURMUKHI LETTER FA	ਫ਼	5, 124	⠠⠠⠠	ਫ਼ਲ
67.	20B9	Indian Ruppee sign	₹	4-1235-136	⠠⠠⠠	₹

Digits (Ank)

S.No	Unicode	Description	Print	Braille code in numbers	Braille dots	Example words
68.	0A66	GURMUKHI DIGIT ZERO	੦	3456, 245	⠠⠠⠠	੦
69.	0A67	GURMUKHI DIGIT ONE	੧	3456, 1	⠠⠠⠠	੧
70.	0A68	GURMUKHI DIGIT TWO	੨	3456, 12	⠠⠠⠠	੨

S.No	Unicode	Description	Print	Braille code in numbers	Braille dots	Example words
71.	0A69	GURMUKHI DIGIT THREE	੩	3456, 14	⠠⠠⠠	੩
72.	0A6A	GURMUKHI DIGIT FOUR	੪	3456, 145	⠠⠠⠠⠠	੪
73.	0A6B	GURMUKHI DIGIT FIVE	੫	3456, 15	⠠⠠⠠⠠⠠	੫
74.	0A6C	GURMUKHI DIGIT SIX	੬	3456, 124	⠠⠠⠠⠠	੬
75.	0A6D	GURMUKHI DIGIT SEVEN	੭	3456, 1245	⠠⠠⠠⠠⠠	੭
76.	0A6E	GURMUKHI DIGIT EIGHT	੮	3456, 125	⠠⠠⠠⠠⠠	੮
77.	0A6F	GURMUKHI DIGIT NINE	੯	3456, 24	⠠⠠⠠⠠	੯

Modifiers (Lagaakhar)

S.No	Unicode	Description	Print			
78.	0A4D	GURMUKHI SIGN VIRAMA	◌ੰ	4	⠠	ਸ੍ਰ
79.	0A71	Addak, this character doubles the consonant	◌ੌ	4	⠠	ਸ੍ਰੌ
80.	0A3C	NUKTA	◌ੁ	5	⠠	ਕੁਲਮ

Punctuations (Vishraam Chinh)

S.No	Unicode	Print	Description	Braille Number	Braille dots	Example word
81.	0A64		DEVANAGARI DANDA = purna viram • phrase separator	256	⠠⠠	ਪਿਆਰ ਹੀ ਜੀਵਨ ਹੈ।
82.	0A65	॥	DEVANAGARI DOUBLE DANDA = deergh viram	256-256	⠠⠠⠠	ਸਤਿ ਸ੍ਰੀ ਅਕਾਲ॥

Rules

S.No	UNICODE/Category of Character	Description of Character	Braille Code	Description of Rule	example
1.	Consonant- 0A4D	Consonant with Virama	4-consonant	Consonant followed by Virama has to be written as Virama followed by consonant in braille(In Unicode Virama character is added after the	ਕ੍ (0A15-0A4D is written as 4-13)

				consonants whereas in braille dot 4 signifying Virama has to be written before the consonant)	
2.	Consonant - 0A3C	Consonant- Nukta	5- Consonant	Nukta has to be written as dot 5 before the consonant in braille whereas in Unicode NUKTA is written after the consonant	क् (0A15-0A3C is written as 5-13)
3.	Consonant- Vowels	Cosonant- Vowels	Consonant- 1-Vowels	In braille dot 1 is added after the consonant if consonant is followed by Vowels.	क्ऐ (0A15- 0A08 is written as 13-1-35)
4.	Consonant- 0A3C- 0A4D	Cosonant- Nukta-Virama	4-5- Consonant	In braille, Virama is added before Nukta and Consonant when a consonant is followed by Nukta and Virama in Gurumukhi.	क् (0A15-0A3C- 0A4D is written as 4- 5-13)

Changes Introduced In Bharti Braille 2.1

S.No	Unicode	Description	Print	Old braille code	New braille code	comments
					Braille no	
1.	0A1A	GURMUKHI LETTER CHA		16	16	NO change in braille code, change is only in the description of the character CA to CHA
2.	0A1B	Gurmukhi Letter CHHA				NO change in braille code, change is only in the description of the character CHA to CHHA
3.	0A71	Addak, this character doubles the consonant			4	This character Should be include in the main table. IT is mentioned only in rules in 2.0

Changes implemented in Bharti Braille 2.0

S.No	Unicode	Description	Print	Old braille code	New braille code		comments
					Braille no	Braille dots	
1.	0A01	GURUMUKHI SIGN ADAK BINDI		56	3	⠠	
2.	0A02	GURUMUKHI SIGN BINDI		3	56	⠡	
3.	0A2B	GURUMUKHI LETTER PHA	ॢ	235	124	⠠	
4.	0A59	GURUMUKHI LETTER KHHA	ॣ	1346	5-46	⠠	
5.	0A16 - 0A3C	Alternate way of writing 0A59		1346	5-46	⠠	
6.	0A5B	GURUMUKHI LETTER ZA same as 0A1c-0A3C		1356	5-245	⠠	
7.	0A1C AND 0A3C	Alternate way of writing 0A5B		1356	5-245	⠠	
8.	0A5E	GURUMUKHI LETTER FA with NUKTA		235	5-124	⠠	
9.	0A2B- 0A3C	Alternate way of writing 0A5E		235	5-124	⠠	
10.	0A5A	GURUMUKHI LETTER GHHA		1245	5-1245	⠠	
11.	0A17- 0A3C	Alternate way of writing 0A5A		1245	5-1245	⠠	
12.	0A5B	GURUMUKHI LETTER ZA ≡ 0A1C ॢ 0A3C ॣ		245	5-245	⠠	

Kannada

Complete Kannada Script table of Bharti braille version 2.1

Vowels (Swaragalu)

S.no	Unicode	Description	Print	Braille Code	Braille Dots	Example
1.	0C85	KANNADA LETTER A	ಅ	1	⠁	ಅಂತರ್ಗತ
2.	0C86	KANNADA LETTER AA	ಆ	345	⠠	ಅವಿಷ್ಕಾರ
3.	0C87	KANNADA LETTER I	ಇ	24	⠡	ಇತಿಹಾಸೇತರ
4.	0C88	KANNADA LETTER II	ಈ	35	⠢	ಈರ್ಷ್ಯೆ
5.	0C89	KANNADA LETTER U	ಉ	136	⠣	ಉತ್ಕೃಷ್ಟ
6.	0C8A	KANNADA LETTER UU	ಊ	1256	⠤	ಉದ್ಧೃಮುಖ
7.	0C8B	KANNADA LETTER VOCALIC R	ಋ	5, 1235	⠥	ಋಗ್ವೇದ
8.	0C8E	KANNADA LETTER E	ಎ	26	⠦	ಎಲ್ಲಾಕ್ಕಿಂತ
9.	0C8F	KANNADA LETTER EE	ಏ	15	⠧	ಏಕೀಕರಣ
10.	0C90	KANNADA LETTER AI	ಐ	34	⠨	ಐಶ್ವರ್ಯ
11.	0C92	KANNADA LETTER O	ಒ	1346	⠩	ಒಪ್ಪಂದ
12.	0C93	KANNADA LETTER OO	ಓ	135	⠪	ಓಡಾಟದ
13.	0C94	KANNADA LETTER AU	ಔ	246	⠫	ಔಚಿತ್ಯಪೂರ್ಣ

Vowel Symbol (Swara Chinhegalu)

S.no	Unicode	Description	Print	Braille Code	Braille Dots	Example
14.	0CBE	KANNADA VOWEL SIGN AA	ೌ	345	⠠	ಪ್ರಾರ್ಥನಾ
15.	0CBF	KANNADA VOWEL SIGN I	ಃ	24	⠡	ವಿಜ್ಞಾನಿ
16.	0CC0	KANNADA VOWEL SIGN II	ಃ	35	⠢	ಗೀತೆ
17.	0CC1	KANNADA VOWEL SIGN U	ಃ	136	⠣	ಪುನರುತ್ಥಾನ
18.	0CC2	KANNADA VOWEL SIGN UU	ಃ	1256	⠤	ಭೂಮಿ

S.no	Unicode	Description	Print	Braille Code	Braille Dots	Example
19.	0CC3	KANNADA VOWEL SIGN VOCALIC R	ೞ	5, 1235	⠠⠠⠠	ಪೃಥ್ವಿ
20.	0CC4	KANNADA VOWEL SIGN VOCALIC RR	ೞಾ	6, 1235	⠠⠠⠠⠠	ಮುಷೀಣಾಂ
21.	0CC6	KANNADA VOWEL SIGN E	ೇ	26	⠠⠠	ಬೆಲೆಮಾಪನ
22.	0CC7	KANNADA VOWEL SIGN EE	ೇ	15	⠠⠠	ವೇದಾಂತ
23.	0CC8	KANNADA VOWEL SIGN AI	ೈ	34	⠠⠠	ವೈಚಾರಿಕ
24.	0CCA	KANNADA VOWEL SIGN O	ೊ	1346	⠠⠠	ಹೊತ್ತಿಗೆ
25.	0CCB	KANNADA VOWEL SIGN OO	ೊ	135	⠠⠠	ಮೋಹನ
26.	0CCC	KANNADA VOWEL SIGN AU	ೞಾ	246	⠠⠠	ಗೌರವ
27.	0C82	KANNADA SIGN ANUSVARA used in Konkani, Havyaka Kannada (Havigannada) and Awadhi texts to indicate regular anusvara	ಂ	56	⠠⠠	ಸಂರಕ್ಷಣೆ
28.	0C83	KANNADA SIGN VISARGA	ಃ	6	⠠⠠	ದುಃಖಕರ

Consonants (Vyanjanagalu)

S.no	Unicode	Description	Print	Braille Code	Braille Dots	Example
29.	0C95	KANNADA LETTER KA	ಕ	13	⠠⠠	ಕಾರ್ಯಕ್ಷಮತೆ
30.	0C96	KANNADA LETTER KHA	ಖ	46	⠠⠠	ಖಡ್ಗಪ್ರಯೋಗ
31.	0C97	KANNADA LETTER GA	ಗ	1245	⠠⠠	ಗುರುತ್ವಾಕರ್ಷಣೆ
32.	0C98	KANNADA LETTER GHA	ಘ	126	⠠⠠	ಘನತೆಯಿಂದ
33.	0C99	KANNADA LETTER NGA	ಙ	346	⠠⠠	ಜ್ಞಾನಕ್ಕೆ

S.no	Unicode	Description	Print	Braille Code	Braille Dots	Example
34.	0C9A	KANNADA LETTER CA	ಚ	14	::	ಚರ್ಚಾಸ್ಪದ
35.	0C9B	KANNADA LETTER CHA	ಛ	16	::	ಛಿದ್ರಗೊಳಿಸು
36.	0C9C	KANNADA LETTER JA	ಜ	245	::	ಜೀವವೈವಿಧ್ಯ
37.	0C9D	KANNADA LETTER JHA	ಝ	356	::	ಝೇಂಕಾರ
38.	0C9E	KANNADA LETTER NYA	ಞ	25	::	ವಿಜ್ಞಾಪನೆ
39.	0C9F	KANNADA LETTER TTA	ಟ	23456	::	ಟೆಮೋಟಾ
40.	0CA0	KANNADA LETTER TTHA	ಠ	2456	::	ಕಠೋರತೆ
41.	0CA1	KANNADA LETTER DDA	ಡ	1246	::	ದಂಡಾಧಿಕಾರಿ
42.	0CA2	KANNADA LETTER DDHA	ಢ	123456	::	ನಿಗೂಢತೆ
43.	0CA3	KANNADA LETTER NNA	ಣ	3456	::	ನಿರ್ಣಾಯಕ
44.	0CA4	KANNADA LETTER TA	ತ	2345	::	ತತ್ತ್ವಶಾಸ್ತ್ರ
45.	0CA5	KANNADA LETTER THA	ಥ	1456	::	ಅರ್ಥಾತ್
46.	0CA6	KANNADA LETTER DA	ದ	145	::	ದೌರ್ಬಲ್ಯ
47.	0CA7	KANNADA LETTER DHA	ಧ	2346	::	ಧರ್ಮಾಧಾರಿತ
48.	0CA8	KANNADA LETTER NA	ನ	1345	::	ನವೀಕರಣ
49.	0CAA	KANNADA LETTER PA	ಪ	1234	::	ಪ್ರಾಮಾಣಿಕತೆ
50.	0CAB	KANNADA LETTER PHA	ಫ	124	::	ಫಲ
51.	0CAC	KANNADA LETTER BA	ಬ	12	::	ಬ್ರಹ್ಮಾಂಡ
52.	0CAD	KANNADA LETTER BHA	ಭ	45	::	ಭ್ರಷ್ಟಾಚಾರ
53.	0CAE	KANNADA LETTER MA	ಮ	134	::	ಮೂರ್ತೀಕರಣ
54.	0CAF	KANNADA LETTER YA	ಯ	13456	::	ಯಥಾರ್ಥತೆ

S.no	Unicode	Description	Print	Braille Code	Braille Dots	Example
55.	0CB0	KANNADA LETTER RA	ರ	1235	⠠	ರಾಷ್ಟ್ರೀಯ
56.	0CB1	KANNADA LETTER RRA	ಱ	12456	⠠	ಕೂಱು
57.	0CB2	KANNADA LETTER LA	ಲ	123	⠠	ಕಮಲ
58.	0CB3	KANNADA LETTER LLA	ಳ	456	⠠	ಅಳವಡಿಕೆ
59.	0CB5	KANNADA LETTER VA	ವ	1236	⠠	ವೈಜ್ಞಾನಿಕ
60.	0CB6	KANNADA LETTER SHA	ಶ	146	⠠	ಶಾಸನಾತ್ಮಕ
61.	0CB7	KANNADA LETTER SSA	ಷ	12346	⠠	ವಿಶೇಷಾಧಿಕಾರ
62.	0CB8	KANNADA LETTER SA	ಸ	234	⠠	ಸಾಮಾಜಿಕ ರಣ
63.	0CB9	KANNADA LETTER HA	ಹ	125	⠠	ಹೃದಯಸ್ಪರ್ಶಿ
64.	20B9	INDIAN RUPEE SIGN	₹	4-1235-136	⠠⠠⠠	₹

Digits (Ankigalu)

S.no	Unicode	Description	Print	Braille Code	Braille Dots	Example
65.	0CE6	KANNADA DIGIT ZERO	೦	3456, 245	⠠⠠	೦೦
66.	0CE7	KANNADA DIGIT ONE	೧	3456, 1	⠠⠠	೦೧
67.	0CE8	KANNADA DIGIT TWO	೨	3456, 12	⠠⠠	೦೨
68.	0CE9	KANNADA DIGIT THREE	೩	3456, 14	⠠⠠	೩
69.	0CEA	KANNADA DIGIT FOUR	೪	3456, 145	⠠⠠	೦೪
70.	0CEB	KANNADA DIGIT FIVE	೫	3456, 15	⠠⠠	೦೫
71.	0CEC	KANNADA DIGIT SIX	೬	3456, 124	⠠⠠	೦೬
72.	0CED	KANNADA DIGIT SEVEN	೭	3456, 1245	⠠⠠	೦೭
73.	0CEE	KANNADA DIGIT EIGHT	೮	3456, 125	⠠⠠	೦೮
74.	0CEF	KANNADA DIGIT NINE	೯	3456, 24	⠠⠠	೦೯

Modifiers (Gunithakshara)

S.no	Unicode	Description	Print	Braille Code	Braille Dots	Example
75.	0CBC	KANNADA SIGN NUKTA	◌̣	5	⠠	ಸಾಮರ್ಥ್ಯ
76.	0CCD	KANNADA SIGN VIRAMA	◌̤	4	⠡	ಪುಸ್ತಕ

Conjunct characters

S.no	Unicode	Description	Print	Braille Code	Braille Dots	Example
77.	0C95, 0CCD, 0CB7	Ksha	ಕ್ಷ	12345	⠠⠠⠠	ಕ್ಷಮೆ
78.	0C95,0CC D,0CB7,0C CD	Ksha with Virama	ಕ್ಷ̤	4-12345	⠡⠠⠠⠠	ಕ್ಷಮೆ
79.	0C9C,0CC D,0C9E,0C CD	gya	ಗ್ಯ	4-156	⠡⠠⠠	ಜ್ಞಾನ
80.	0C9C,0CC D,0C9E	Gya with Virama	ಗ್ಯ̤	156	⠠⠠	ಸರ್ವಜ್ಞ
81.	0CDE	KANNADA LETTER FA	ಱ	5, 456	⠠⠠⠠	ಫಲಿತಾಂಶ

Rules

S.No	UNICODE/Category of Character	Description of Character	Braille Code	Description of Rule	Example
1	Consonant-0CCD	Consonant with Virama	4- consonant	Consonant followed by Virama has to be written as Virama followed by consonant in braille(In Unicode Virama character is added after the consonants whereas in braille dot 4 signifying Virama has to be written before the consonant)	ಕ್̤ (0C95-0CCD is written as 4-13)
2	Consonant -0CBC	Consonant- Nukta	5- Consonant	Nukta has to be written as dot 5 before the consonant in braille whereas in Unicode NUKTA is written after the consonant	ಕ್̣ (0C95-0CCD is written as 5-13)

3	Consonant-Vowels	Cosonant-Vowels	Consonant-1- Vowels	In braille, dot 1 is added after the consonant if consonant is followed by Vowels.	ಕೆಳ (0C95-0C888 is written as 13-1-35)
4	Consonant-0CBC-0CCD	Cosonant-Nukta-Virama	4-5- Consonant	In braille, Virama is added before Nukta and Consonant when a consonant is followed by Nukta and Virama in Kannada.	ಕೆ (0C95-0CBC-0CCD is written as 4-5-13)

Changes introduced In Bharti Braille 2.1

NO CHANGES INTRODUCED IN BHARTI BRAILLE CODE 2.1 FOR KANNADA

Changes implemented in Bharti braille 2.0

S.No	Unicode	Description	Print	Old braille code	New Braille Code as per Bharti braille code version 2. (Released on Jan 4 2025)		Comments
					TELUGU		
					Braille numbers	Braille code	
1.	0C92	KANNADA LETTER O	ಒ	345	1346	::	
2.	0CAB	KANNADA LETTER PHA	ಫ	235	124	::	
3.	0CCA	KANNADA VOWEL SIGN O	ೊ	235	1346	::	
4.	0C9C,0CBC	KANNADA LETTER ZA	ಜ	245	5-245	:::	
5.	0CAB,0CBC	KANNADA LETTER FA	ಫ	235	5-124	:::	
6.	0CDE	Alternative way of writing oCAB and OCBC	ಫ	235	5-124	:::	

Malayalam

Complete Malayalam Script table of Bharti braille version 2.1

Vowels (Swarangal)

S.no	Unicode	Description	Print	Braille Numbers	Braille Dots	Example
1.	0D05	MALAYALAM LETTER A	അ	1	⠠	അക്ഷരം
2.	0D06	MALAYALAM LETTER AA	ആ	345	⠠⠠	ആനന്ദം
3.	0D07	MALAYALAM LETTER I	ഇ	24	⠠	ഇച്ഛാശക്തി
4.	0D08	MALAYALAM LETTER II	ഈ	35	⠠⠠	ഈശ്വരൻ
5.	0D09	MALAYALAM LETTER U	ഉ	136	⠠	ഉത്സവം
6.	0D0A	MALAYALAM LETTER UU	ഊ	1256	⠠⠠	ഊർജ്ജം
7.	0D0B	MALAYALAM LETTER VOCALIC R	ഋ	5, 1235	⠠⠠⠠	ഋതുചക്രം
8.	0D0C	MALAYALAM LETTER VOCALIC L	ൠ	5, 123	⠠⠠⠠	ൠലവൃത്തി
9.	0D0E	MALAYALAM LETTER E	എ	26	⠠	എളിമ
10.	0D0F	MALAYALAM LETTER EE	ഐ	15	⠠	ഐർപാട്
11.	0D10	MALAYALAM LETTER AI	ഐ	34	⠠	ഐക്യദാർഢ്യം
12.	0D12	MALAYALAM LETTER O	ഒ	1346	⠠	ഒത്തുചേരൽ
13.	0D13	MALAYALAM LETTER OO	ഓ	135	⠠	ഓർമ്മപ്പെത്തിപ്പ്
14.	0D14	MALAYALAM LETTER AU	ഔ	246	⠠	ഔഷധം

Vowel Symbol (Swarachinnangal)

S.no	Unicode	Description	Print	Braille Numbers	Braille Dots	Example
15.	0D3A	MALAYALAM LETTER TTTA	ഠ	4, 12456, 12456	⠠⠠⠠	റ്റിപ്പണി, അറ്റം
16.	0D3D	MALAYALAM SIGN AVAGRAHA	ഡ	2	⠠	ആവിഷ്കാരം

17.	0D3E	MALAYALAM VOWEL SIGN AA	ഐ	345	⠠⠠⠠	കാൽ
18.	0D3F	MALAYALAM VOWEL SIGN I	ഈ	24	⠠⠠	കിടക്ക
19.	0D40	MALAYALAM VOWEL SIGN II	ഐ	35	⠠⠠⠠	കീഴിൽ
20.	0D41	MALAYALAM VOWEL SIGN U	ഊ	136	⠠⠠	കൂടം
21.	0D42	MALAYALAM VOWEL SIGN UU	ഊ	1256	⠠⠠⠠	കൂട്ട്
22.	0D43	MALAYALAM VOWEL SIGN VOCALIC R	ഊ	5, 1235	⠠⠠⠠	കൃഷി
23.	0D46	MALAYALAM VOWEL SIGN E	ഈ	26	⠠⠠	വെള്ളം
24.	0D44	MALAYALAM VOWEL SIGN VOCALIC RR	ഊ	6, 1235	⠠⠠⠠	കൃപ
25.	0D47	MALAYALAM VOWEL SIGN EE	ഈ	15	⠠⠠	മേൽ
26.	0D48	MALAYALAM VOWEL SIGN AI	ഈ	34	⠠⠠	മൈതാനം
27.	0D4A	MALAYALAM VOWEL SIGN O	ഐ	1346	⠠⠠⠠	മൊട്ട
28.	0D4B	MALAYALAM VOWEL SIGN OO	ഐ	135	⠠⠠	കോഴി
29.	0D4C	MALAYALAM VOWEL SIGN AU	ഐ	246	⠠⠠	കൗടീല്യൻ
30.	0D57	MALAYALAM AU LENGTH MARK	ഐ	246	⠠⠠	കൗശലം
31.	0D01	MALAYALAM SIGN CANDRABINDU	ഐ	3	⠠⠠	അംശം
32.	0D02	MALAYALAM SIGN ANUSVARA	ഐ	56	⠠⠠	സംവേദനം
33.	0D03	MALAYALAM SIGN VISARGA	ഐ	6	⠠⠠	ദുഃഖം

Consonants (Vyanjanangal)

S.no	Unicode	Description	Print	Braille Numbers	Braille Dots	Example
34.	0D15	MALAYALAM LETTER KA	ക	13	⠠⠠	കർമ്മം
35.	0D16	MALAYALAM LETTER KHA	ഖ	46	⠠⠠	ഖഗോള ശാസ്ത്രം
36.	0D17	MALAYALAM LETTER GA	ഗ	1245	⠠⠠	ഗർഭാശയം

S.no	Unicode	Description	Print	Braille Numbers	Braille Dots	Example
37.	0D18	MALAYALAM LETTER GHA	ഘ	126	⠠⠠⠠	ഘടകം
38.	0D19	MALAYALAM LETTER NGA	ങ	346	⠠⠠⠠	ങനമാക്ഷരം
39.	0D1A	MALAYALAM LETTER CA	ച	14	⠠⠠	ചിന്തനം
40.	0D1B	MALAYALAM LETTER CHA	ചര	16	⠠⠠	ചരായാഗ്രഹണം
41.	0D1C	MALAYALAM LETTER JA	ജ	245	⠠⠠	ജ്ഞാനം
42.	0D1D	MALAYALAM LETTER JHA	ജ	356	⠠⠠	ജ്ഞാതികം
43.	0D1E	MALAYALAM LETTER NYA	ഞ	25	⠠⠠	ഞരമ്പ്
44.	0D1F	MALAYALAM LETTER TTA	ട	23456	⠠⠠⠠	പട്ടണംs
45.	0D20	MALAYALAM LETTER TTHA	ഠ	2456	⠠⠠⠠	ഠാകൂർ
46.	0D21	MALAYALAM LETTER DDA	ഡ	1246	⠠⠠⠠	ഡിജിറ്റൽ
47.	0D22	MALAYALAM LETTER DDHA	ഡ	123456	⠠⠠⠠	ഡമരം
48.	0D23	MALAYALAM LETTER NNA	ണ	3456	⠠⠠⠠	പണം
49.	0D24	MALAYALAM LETTER TA	ത	2345	⠠⠠⠠	തത്വചിന്ത
50.	0D25	MALAYALAM LETTER THA	ഥ	1456	⠠⠠⠠	ഠാർഥം
51.	0D26	MALAYALAM LETTER DA	ദ	145	⠠⠠⠠	ദർശനം
52.	0D27	MALAYALAM LETTER DHA	ധ	2346	⠠⠠⠠	ധാരാളം
53.	0D28	MALAYALAM LETTER NA	ന	1345	⠠⠠⠠	നന്മ
54.	0D2A	MALAYALAM LETTER PA	പ	1234	⠠⠠⠠	പദവിയുക്തം
55.	0D2B	MALAYALAM LETTER PHA	ഫ	124	⠠⠠⠠	ഫലപ്രദം
56.	0D2C	MALAYALAM LETTER BA	ബ	12	⠠⠠⠠	ബുദ്ധിമുട്ട്
57.	0D2D	MALAYALAM LETTER BHA	ഭ	45	⠠⠠⠠	ഭാവന

S.no	Unicode	Description	Print	Braille Numbers	Braille Dots	Example
58.	0D2E	MALAYALAM LETTER MA	മ	134	⠠	മാനസികം
59.	0D2F	MALAYALAM LETTER YA	യ	13456	⠡	യുക്തി
60.	0D30	MALAYALAM LETTER RA	ര	1235	⠢	രചന
61.	0D31	MALAYALAM LETTER RRA	റ	12456	⠣	റെയിൽ വേ
62.	0D32	MALAYALAM LETTER LA	ല	123	⠤	ലളിതം
63.	0D33	MALAYALAM LETTER LLA	ള	456	⠥	മുളക്
64.	0D34	MALAYALAM LETTER LLLA	ഴ	12356	⠦	പഴം
65.	0D35	MALAYALAM LETTER VA	വ	1236	⠧	വാസ്ത വം
66.	0D36	MALAYALAM LETTER SHA	ശ	146	⠨	ശാസ്ത്രം
67.	0D37	MALAYALAM LETTER SSA	ഷ	12346	⠩	ഷഡ്ഭുജം
68.	0D38	MALAYALAM LETTER SA	സ	234	⠪	സങ്കേതം
69.	0D39	MALAYALAM LETTER HA	ഹ	125	⠫	ഹൃദയം
70.	0D60	MALAYALAM LETTER VOCALIC RR	ഋ	6-1235	⠠⠠	ഋഭാഷൻ
71.	0d61	MALAYALAM LETTER VOCALIC LL	ൠ	6-123	⠠⠢	ൠകാരം
72.	0d62	MALAYALAM VOWEL SIGN VOCALIC L	ഌ	5-123	⠠⠤	ഌപ്തം
73.	0d63	MALAYALAM VOWEL SIGN VOCALIC LL	ഡ	6-123	⠠⠥	ഡ
74.	20B9	Indian Ruppee sign	₹	4-1235-136	⠠⠠⠠	₹

Digits (Annangal)

S.no	Unicode	Description	Print	Braille Numbers	Braille Dots	Example
75.	0D66	MALAYALAM DIGIT ZERO	൦	3456, 245	⠠⠠	൦
76.	0D67	MALAYALAM DIGIT ONE	൧	3456, 1	⠠⠢	൧

S.no	Unicode	Description	Print	Braille Numbers	Braille Dots	Example
77.	0D68	MALAYALAM DIGIT TWO	൨	3456, 12	⠠⠨	൨
78.	0D69	MALAYALAM DIGIT THREE	൩	3456, 14	⠠⠠	൩
79.	0D6A	MALAYALAM DIGIT FOUR	൪	3456, 145	⠠⠠⠠	൪
80.	0D6B	MALAYALAM DIGIT FIVE	൫	3456, 15	⠠⠠⠠⠠	൫
81.	0D6C	MALAYALAM DIGIT SIX	൬	3456, 124	⠠⠠⠠	൬
82.	0D6D	MALAYALAM DIGIT SEVEN	൭	3456, 1245	⠠⠠⠠⠠	൭
83.	0D6E	MALAYALAM DIGIT EIGHT	൮	3456, 125	⠠⠠⠠⠠	൮
84.	0D6F	MALAYALAM DIGIT NINE	൯	3456, 24	⠠⠠⠠	൯

Modifiers (Visheshappikkunnavangal)

S.no	Unicode	Description	Print	Braille Numbers	Braille Dots	Example
85.	0D4D	MALAYALAM SIGN VIRAMA	ഃ	4	⠠	ചക്ക്

Chillu characters

S.nos	Unicode	Description	Print	Braille Numbers	Braille Dots	Example
86.	0D7A	MALAYALAM LETTER CHILLU NN	ൺ	235-3456	⠠⠠⠠	പൺപാട്
87.	0D23+0D4D+200D	Alternate way of writing 0D7A	ൺ	235-3456	⠠⠠⠠	പൺപാട്
88.	0D7B	MALAYALAM LETTER CHILLU N	ൻ	235-1345	⠠⠠⠠	പൻപതി
89.	0D28+0D4D+200D	Alternate way of writing 0D7B	ൻ	235-1345	⠠⠠⠠	പൻപതി
90.	0D7C	# MALAYALAM LETTER CHILLU RR	ർ	235-12456	⠠⠠⠠	വർദ്ധന
91.	0D30+0D4D+200D	Alternate way of writing 0D7C	ർ	235-12456	⠠⠠⠠	വർദ്ധന
92.	0D7D	# MALAYALAM LETTER CHILLU L	ൽ	235-123	⠠⠠⠠	ലാൽ

S.nos	Unicode	Description	Print	Braille Numbers	Braille Dots	Example
93.	0D32+0 D4D+20 0D	Alternate way of writing 0D7D	ൽ	235-123	⠠⠨⠠	ലാൽ
94.	0D7E	# MALAYALAM LETTER CHILLU LL	ൾ	235-456	⠠⠨⠠	താൾ
95.	0D33+0 D4D+20 0D	Alternate way of writing 0D7E	ൾ	235-456	⠠⠨⠠	താൾ
96.	0D7F	# MALAYALAM LETTER CHILLU K	ൽ	235-13-13	⠠⠨⠠⠠	ശൽ
97.	0D15+0 D4D+20 0D	ALTERNATE WAY OF WRITING 0D7F	ൽ	235-13-13	⠠⠨⠠⠠	ശൽ

Conjunct characters (Koottaksharangal)

S.no	Unicode	Description	Print	Braille Numbers	Braille Dots	Example
98.	0D15, 0D4D, 0D37	KSHA	ക്ഷ or ക്ഷ	12345	⠠⠨⠠	ക്ഷമ
99.	0D15, 0D4D, 0D37, 0D4D	KSHA with Virama	ക്ഷ്	4,12345	⠠⠨⠠	ലക്ഷ്മി
100.	0D24, 0D4D, 0D30	NDRA	ന്ദ്ര	4, 2345, 1235	⠠⠨⠠⠠	തന്ത്രം
101.	0D2E, 0D4D, 0D2A	MBA	മ്പ	4, 134, 1234	⠠⠨⠠⠠	മമ്പഴം
102.	0D15, 0D4D, 0D37	KSHA	ക്ഷ	4, 13, 12346	⠠⠨⠠	ക്ഷീണം
103.	0D17, 0D4D, 0D2F	JA	ജ	4, 245, 25	⠠⠨⠠	ജ്ഞാനി
104.	0D19, 0D4D, 0D15	NGA	ങ്ക	4, 346, 13	⠠⠨⠠	ങ്കയം

Rule

S.No	UNICODE/Category of Character	Description of Character	Braille Code	Description of Rule	Example
1.	Consonant-Candrabindu-0D01 (end of word)	Chandrakala after consonant at the end of word	consonant-3	If Candrabindu comes at end of word, dot 3 to be used after consonant at end of word	ക്ക
2.	Consonant-0D4D	Consonant with Virama	4-consonant	Consonant followed by Virama has to be written as Virama followed by consonant in braille(In Unicode Virama character is added after the consonants whereas in braille dot 4 signifying Virama has to be written before the consonant)	ക്ക (0D15-0D4D is written as 4-13 in braille)
3.	Consonant-Vowels	Consonant-Vowels	Consonant-1- Vowels	In braille dot 1 is added after the consonant if consonant is followed by Vowels.	കു (0D15-0D08 is written as 13-1-35)

Changes Introduced in Bharti Braille 2.1

S.No	Unicode	Description	Print	Old braille code	New Braille Code as per Bharti braille code version 2. (Released on Jan 4 2025) Malayalam		Comments
					Braille numbers	Braille code	
1.	0D7A	MALAYALAM LETTER CHILLU NN	ന്ന	4-3456	235-3456		
2.	0D23+0D4D+200D	Alternate way of writing 0D7A	ന്ന	4-3456	235-3456		
3.	0D7B	MALAYALAM LETTER CHILLU N	ന്	4-1345	235-1345		
4.	0D28+0D4D+200D	Alternate way of writing 0D7B	ന്	4-1345	235-1345		
5.	0D7C	# MALAYALAM LETTER CHILLU RR	ര	4-12456	235-12456		

6.	0D30+0D4 D+200D	Alternate way of writing 0D7C	രീ	4-12456	235-12456		
7.	0D7D	# MALAYALAM LETTER CHILLU L	രീ	4-123	235-123		
8.	0D32+0D4 D+200D	Alternate way of writing 0D7D	രീ	4-123	235-123		
9.	0D7E	# MALAYALAM LETTER CHILLU LL	രീ	4-456	235-456		
10.	0D33+0D4 D+200D	Alternate way of writing 0D7E	രീ	4-456	235-456		
11.	0D7F	# MALAYALAM LETTER CHILLU K	കീ	4-13-13	235-13-13		
12.	0D15+0D4 D+200D		കീ	4-13-13	235-13-13		

Changes Introduced in Bharti Braille 2.0

S.No	Unicode	Description	Print	Old braille code	New Braille Code as per Bharti braille code version 2. (Released on Jan 4 2025) Hindi/ Sanskrit/ Marathi/ Nepali		Comments
					Braille numbers	Braille code	
1.	0D12	# MALAYALAM LETTER O		345	1346		
2.	0D2B	# MALAYALAM LETTER PHA		235	124		
3.	0D4A	# MALAYALAM VOWEL SIGN O= 0D46 ? and 0D3E ?		345	1346		

ORIYA

Complete Oriya Script table of Bharti braille version 2.1

Vowels (Swara Barna)

S.no	Unicode	Description	Print	Braille Numbers	Braille Dots	Example
1.	0B05	ORIYA LETTER A	ଅ	1	⠠	ଅମର
2.	0B06	ORIYA LETTER AA	ଆ	345	⠠⠠	ଆମ
3.	0B07	ORIYA LETTER I	ଇ	24	⠠	ଇଚା
4.	0B08	ORIYA LETTER II	ଈ	35	⠠	ଈଶ୍ବର
5.	0B09	ORIYA LETTER U	ଉ	136	⠠	ଉପର
6.	0B0A	ORIYA LETTER UU	ଊ	1256	⠠	ଊର୍ଣ୍ଣ
7.	0B0B	ORIYA LETTER VOCALIC R	ୠ	5,1235	⠠⠠	ରଷି
8.	0B0C	ORIYA LETTER VOCALIC L	ୡ	5, 123	⠠⠠	ଢକାର
9.	0B0F	ORIYA LETTER E	ଏ	15	⠠	ଏବେ
10.	0B10	ORIYA LETTER AI	ଐ	34	⠠	ଐକ୍ୟ
11.	0B13	ORIYA LETTER O	ଓ	135	⠠	ଓଟ
12.	0B14	ORIYA LETTER AU	ଔ	246	⠠	ଔଷଧ
13.	0B60	ORIYA LETTER VOCALIC RR(Additional vowel for Sanskrit)	ୠ	6, 1235	⠠⠠	ୠ
14.	0B61	ORIYA LETTER VOCALIC LL(Additional Vowel for Sanskrit)	ୡ	6, 123	⠠⠠	ୡ
15.	0B62	ORIYA VOWEL SIGN VOCALIC L	ୢ	5, 123	⠠⠠	ୢୃପ୍ତ
16.	0B63	ORIYA VOWEL SIGN VOCALIC LL	ୣ	6, 123	⠠⠠	-

Vowel Symbols (Matra)

S.no	Unicode	Description	Print	Braille Numbers	Braille Dots	Example
17.	0B3E	ORIYA VOWEL SIGN AA	ା	345	⠠	ବାବା

S.no	Unicode	Description	Print	Braille Numbers	Braille Dots	Example
18.	0B3F	ORIYA VOWEL SIGN I	ଠ	24	⠠	ଦିନ
19.	0B40	ORIYA VOWEL SIGN II	ଠ।	35	⠠	ନଦୀ
20.	0B41	ORIYA VOWEL SIGN U	ୠ	136	⠠	ପୁଅ
21.	0B42	ORIYA VOWEL SIGN UU	ୡ	1256	⠠	ପୂଜା
22.	0B43	ORIYA VOWEL SIGN VOCALIC R	ୢ	5,1235	⠠	ଗୃହ
23.	0B44	ORIYA VOWEL SIGN VOCALIC RR	ୣ	6, 1235	⠠	ପିତୃଶାଳ
24.	0B47	ORIYA VOWEL SIGN E • stands to the left of the consonant	୦	15	⠠	ବେଲ
25.	0B48	ORIYA VOWEL SIGN AI • pieces left of and above the consonant ≡ 0B47 ୦ 0B56 ୠ	୦ୠ	34	⠠	କୈଳାସ
26.	0B4B	ORIYA VOWEL SIGN O ≡ 0B47 ୦ 0B3E ୡ	୦ୡ	135	⠠	ଚୋର
27.	0B4C	ORIYA VOWEL SIGN AU ≡ 0B47 ୦ 0B57 ୢ	୦ୢ	246	⠠	ନୌକା
28.	0B01	ORIYA SIGN CANDRABINDU	ୠ	3	⠠	ଗାଁ
29.	0B02	ORIYA SIGN ANUSVARA	ୡ	56	⠠	ବଂଶ
30.	0B03	ORIYA SIGN VISARGA	ୢ	6	⠠	ଦୁଃଖ
31.	0B3D	ORIYA SIGN AVAGRAHA	ୣ	5	⠠	ଚତୋଂସକ

Consonants (Byanjana Barna)

S.no	Unicode	Description	Print	Braille Numbers	Braille Dots	Example
32.	0B15	ORIYA LETTER KA	କ	13	⠠	କମଳ
33.	0B16	ORIYA LETTER KHA	ଖ	46	⠠	ଖବର
34.	0B17	ORIYA LETTER GA	ଗ	1245	⠠	ଗଛ
35.	0B18	ORIYA LETTER GHA	ଘ	126	⠠	ଘର
36.	0B19	ORIYA LETTER NGA	ଙ	346	⠠	ରଙ୍ଗ

S.no	Unicode	Description	Print	Braille Numbers	Braille Dots	Example
37.	0B1A	ORIYA LETTER CA	ଚ	14	⠠⠠	ଚକ
38.	0B1B	ORIYA LETTER CHA	ଛ	16	⠠⠠⠠	ଛଡା
39.	0B1C	ORIYA LETTER JA	ଜ	245	⠠⠠⠠	ଜଳ
40.	0B1D	ORIYA LETTER JHA	ଝ	356	⠠⠠⠠	ଝରଣା
41.	0B1E	ORIYA LETTER NYA	ଞ	25	⠠⠠	ମଞ୍ଚ
42.	0B1F	ORIYA LETTER TTA	ଟ	23456	⠠⠠⠠	ଟଗର
43.	0B20	ORIYA LETTER TTHA	ଠ	2456	⠠⠠⠠	ଠାକୁର
44.	0B21	ORIYA LETTER DDA	ଡ	1246	⠠⠠⠠	ଡର
45.	0B22	ORIYA LETTER DDHA	ଢ	123456	⠠⠠⠠	ଢାକୁଣୀ
46.	0B23	ORIYA LETTER NNA	ଣ	3456	⠠⠠⠠	କଣ
47.	0B24	ORIYA LETTER TA	ତ	2345	⠠⠠⠠	ତଳ
48.	0B25	ORIYA LETTER THA	ଥ	1456	⠠⠠⠠	ଥାଳି
49.	0B26	ORIYA LETTER DA	ଦ	145	⠠⠠	ଦହି
50.	0B27	ORIYA LETTER DHA	ଧ	2346	⠠⠠⠠	ଧନ
51.	0B28	ORIYA LETTER NA	ନ	1345	⠠⠠⠠	ନଦୀ
52.	0B2A	ORIYA LETTER PA	ପ	1234	⠠⠠⠠	ପବନ
53.	0B2B	ORIYA LETTER PHA	ଫ	124	⠠⠠	ଫଳ
54.	0B2C	ORIYA LETTER BA → 0B35 ବ oriya letter va	ବ	12	⠠	ବହି
55.	0B2D	ORIYA LETTER BHA	ଭ	45	⠠⠠	ଭାରତ
56.	0B2E	ORIYA LETTER MA	ମ	134	⠠⠠	ମା
57.	0B2F	ORIYA LETTER YA = ja	ଯ	13456	⠠⠠⠠	ଯମ
58.	0B30	ORIYA LETTER RA	ର	1235	⠠⠠⠠	ରଥ
59.	0B32	ORIYA LETTER LA	ଲ	123	⠠⠠	ଲବଙ୍ଗ
60.	0B33	ORIYA LETTER LLA	ଳ	456	⠠⠠	ସରଳ
61.	0B35	ORIYA LETTER VA • Kui uses an alternate glyph with the dot	ବ	1236	⠠⠠	ବେଦ

S.no	Unicode	Description	Print	Braille Numbers	Braille Dots	Example
		above the small circle → 0B2C ଓ oriya letter Ba				
62.	0B36	ORIYA LETTER SHA	ଶ	146	⠠⠠	ଶବ୍ଦ
63.	0B37	ORIYA LETTER SSA	ଷ	12346	⠠⠠	ଷଣ୍ଢ
64.	0B38	ORIYA LETTER SA	ସ	234	⠠⠠	ସମୟ
65.	0B39	ORIYA LETTER HA	ହ	125	⠠⠠	ହାତ
66.	0B5F	Oriya letter YYYY=Ya	ୟ	26	⠠⠠	ସମୟ
67.	0B71	Oriya character WA	ଓ	1236	⠠⠠	ଓକିଲ
68.	0B15,2019	ka followed by apostrophe as in kana	କ'	13,2	⠠⠠	କଣି
69.	0B3E,2019	apostrophe after aa matra is to be translated to braille dot 2	ା'	345,2	⠠⠠	ଆ
70.	0B70	ORIYA ISSHAR	ୱ	34	⠠⠠	ଐମା
71.	20B9	Indian Ruppee sign	₹	4-1235-136	⠠⠠⠠	₹

Digits (Sankhya)

S.no	Unicode	Description	Print	Braille Numbers	Braille Dots	Example
72.	0B66	ORIYA DIGIT ZERO	୦	3456, 245	⠠⠠	10
73.	0B67	ORIYA DIGIT ONE	୧	3456, 1	⠠⠠	1
74.	0B68	ORIYA DIGIT TWO	୨	3456, 12	⠠⠠	2
75.	0B69	ORIYA DIGIT THREE	୩	3456, 14	⠠⠠	3
76.	0B6A	ORIYA DIGIT FOUR	୪	3456, 145	⠠⠠	4
77.	0B6B	ORIYA DIGIT FIVE	୫	3456, 15	⠠⠠	5
78.	0B6C	ORIYA DIGIT SIX	୬	3456, 124	⠠⠠	6
79.	0B6D	ORIYA DIGIT SEVEN	୭	3456, 1245	⠠⠠	7
80.	0B6E	ORIYA DIGIT EIGHT	୮	3456, 125	⠠⠠	8
81.	0B6F	ORIYA DIGIT NINE	୯	3456, 24	⠠⠠	9

Modifiers (Chinha)

S.no	Unicode	Description	Print	Braille Numbers	Braille Dots	Example
82.	0B3C	ORIYA SIGN NUKTA • for extending the alphabet to new letters	୩	5	⠠	ପଡ଼ା
83.	0B4D	ORIYA SIGN VIRAMA	୩	4	⠠	ହୌଡ଼

Conjunct Characters (Juktakhara)

S.no	Unicode	Description	Print	Braille Numbers	Braille Dots	Example
84.	0B15, 0B4D, 0B37	KSHA	କ୍ଷ or ଣ	12345	⠠	ପରୀକ୍ଷା
85.	0B15, 0B4D, 0B37, 0B4D	KSHA with Virama	କ୍ଷ	4-12345	⠠	ପରୀକ୍ଷା
86.	0B1C, 0B4D, 0B1E	GYA	ଜ୍ଞ or ଞ	156	⠠	ଜ୍ଞାନ
87.	0B1C, 0B4D, 0B1E, 0B4D	Gya with virama	ଜ୍ଞ	4-156	⠠	ବିଜ୍ଞାନ
88.	0B5C	ORIYA LETTER RRA	ଡ଼	12456	⠠	ପାହାଡ଼
89.	0B5D	ORIYA LETTER RHA	ଢ଼	5, 12456	⠠	ଗାଢ଼

Punctuations

S.No	Unicode	Print	Description	Braille Number	Braille dots
90.	0964	/	DEVANAGARI DANDA = purna viram • phrase separator	256	⠠
91.	0965	//	DEVANAGARI DOUBLE DANDA = deergh viram	256-256	⠠

Rules

S.No	UNICODE/Category of Character	Description of Character	Braille Code	Description of Rule	example
1.	Consonant-0B4D	Consonant with Virama	4- consonant	Consonant followed by Virama has to be written as Virama followed by	କ୍

				consonant in braille(In Unicode Virama character is added after the consonants whereas in braille dot 4 signifying Virama has to be written before the consonant)	(0B15-094D is written as 4-13)
2.	Consonant -0B3C	Consonant-Nukta	5-Consonant	Nukta has to be written as dot 5 before the consonant in braille whereas in Unicode NUKTA is written after the consonant	୩ (0B15-093C is written as 5-13)
3.	Consonant-Vowels	Cosonant-Vowels	Consonant-1- Vowels	In braille dot 1 is added after the consonant if consonant is followed by Vowels.	୩୩ (0B15- 0B08 is written as 13-1-35)
4.	Consonant-0B3C-0B4D	Cosonant-Nukta-Virama	4-5-Consonant	In braille, Virama is added before Nukta and Consonant when a consonant is followed by Nukta and Virama in Oriya.	୩ (0B15-0B3C-0B4D is written as 4-5-13)

Changes introduced in Bharti Braille 2.1

S.No	Unicode	Description	Print	New Braille Code as per Bharti braille code version 2. (Released on Jan 4 2025) Oriya	Suggested change	Comments
				Braille no	Braille code	
1.	0B71	Oriya character WA	ୱ	1236	⠠⠠	This character in print is being used commonly instead of 0B35 in Odiya
2.	0B3D	Oriya sign Avagraha	ୡ	Dot 5		In rules of version 2.0 mentioned that dot 5 to be used, whereas in the table braille dot to be used are described as dot 2. It is reconfirmed that dot 5 is to be used
3.	0964	Danrri or purna chhed		256		This character falls under Devanagari

		or Devnagari poorna viram				script however it is commonly used in Odia character
4.	0965	Deerga chhed or Devnagari double danta	॥	256		This character falls under Devanagari script however it is commonly used in Odia character
5.	0B15,2019	ka followed by apostrophe as in kana	क'	13,2		ka followed by apostrophe as in kana
6.	0B3E,2019	apostrophe after aa matra is to be translated to braille dot 2	आ'	345,2		apostrophe after aa matra is to be translated to braille dot 2
7.	0B70	ORIYA ISSHAR	व	34		

Changes introduced in Bharti Braille 2.0

S.No	Unicode	Description	Print	Old braille code	New Braille Code as per Bharti braille code version 2. (Released on Jan 4 2025) Hindi/ Sanskrit/ Marathi/ Nepali		Comments
					Braille numbers	Braille code	
1.	0B2B	ORIYA LETTER PHA	ଫ	235	124	ଫ	

Tamil

Complete Tamil Script table of Bharti braille version 2.1

Vowels (Uyir Ezhuthukkal)

S.no	Unicode	Description	Print	Braille Numbers	Braille Dots	Example
1.	0B85	TAMIL LETTER A	அ	1	⠁	அகராதி
2.	0B86	TAMIL LETTER AA	ஆ	345	⠠	ஆவணகம்
3.	0B87	TAMIL LETTER I	இ	24	⠡	இழைநூல்
4.	0B88	TAMIL LETTER II	ஈ	35	⠢	ஈர்ப்பு
5.	0B89	TAMIL LETTER U	உ	136	⠣	உவமையியல்
6.	0B8A	TAMIL LETTER UU	ஊ	1256	⠠	ஊடுருவல்
7.	0B8E	TAMIL LETTER E	எ	26	⠤	எளிமையியல்
8.	0B8F	TAMIL LETTER EE	ஏ	15	⠥	ஏகாதிபத்தியம்
9.	0B90	TAMIL LETTER AI	ஐ	34	⠦	ஐம்பெரும்
10.	0B92	TAMIL LETTER O	ஓ	1346	⠣	ஓப்பீடு
11.	0B93	TAMIL LETTER OO	ஔ	135	⠤	ஔவியம்
12.	0B94	TAMIL LETTER AU	ஔ	246	⠤	ஔவையார்

Vowel Symbol (Uyir Kuriyeedu)

S.no	Unicode	Description	Print	Braille Numbers	Braille Dots	Example
13.	0BBE	TAMIL VOWEL SIGN AA	ா	345	⠠	காவியம்
14.	0BBF	TAMIL VOWEL SIGN I	ி	24	⠡	அறிவியல்
15.	0BC0	TAMIL VOWEL SIGN II	ீ	35	⠢	தீவிரம்
16.	0BC1	TAMIL VOWEL SIGN U	ு	136	⠣	புகழ்ச்சி
17.	0BC2	TAMIL VOWEL SIGN UU	ூ	1256	⠠	மூடுபனி
18.	0BC6	TAMIL VOWEL SIGN E	ெ	26	⠤	வெறுமை
19.	0BC7	TAMIL VOWEL SIGN EE	ே	15	⠥	நேர்மை

S.no	Unicode	Description	Print	Braille Numbers	Braille Dots	Example
20.	0BC8	TAMIL VOWEL SIGN AI	ஐ	34	⠠⠠	பலகை
21.	0BCA	TAMIL VOWEL SIGN O	ஓ	1346	⠠⠠	பொறுப்பு
22.	0BCB	TAMIL VOWEL SIGN OO	ஔ	135	⠠⠠	கோட்பாடு
23.	0BCC	TAMIL VOWEL SIGN AU	ஔ	246	⠠⠠	கௌரவம்
24.	0B83	TAMIL SIGN VISARGA = aytham • just as for the Tamil pulli, the glyph for aytham may use either dots or rings	ஃ	6	⠠	ஃபராதீசம், அஃகம்
25.	0BD7	TAMIL AU LENGTH MARK	ஔ	246	⠠⠠	ஔவையார்

Consonants (Mei Ezhuthukkal)

S.no	Unicode	Description	Print	Braille Numbers	Braille Dots	Example
26.	0B95	TAMIL LETTER KA	க	13	⠠	கணிதவியல்
27.	0B99	TAMIL LETTERNGA	ங	346	⠠	சிங்கம்
28.	0B9A	TAMIL LETTER CA	ச	14	⠠	சாஸ்திரம்
29.	0B9C	TAMIL LETTER JA	ஜ	245	⠠	ஜீவவியல்
30.	0B9E	TAMIL LETTERNYA	ஞ	25	⠠	ஞானம்
31.	0B9F	TAMIL LETTER TTA	ட	23456	⠠	பட்டம்
32.	0BA3	TAMIL LETTER NNA	ண	3456	⠠	அணல்
33.	0BA4	TAMIL LETTER TA	த	2345	⠠	தத்துவம்
34.	0BA8	TAMIL LETTER NA	ந	1345	⠠	நுண்ணறிவு
35.	0BA9	TAMIL LETTER NNNA	ன	56	⠠	அனல்
36.	0BAA	TAMIL LETTER PA	ப	1234	⠠	புவியியல்
37.	0BAE	TAMIL LETTER MA	ம	134	⠠	மெய்யியல்
38.	0BAF	TAMIL LETTER YA	ய	13456	⠠	யுக்தி

S.no	Unicode	Description	Print	Braille Numbers	Braille Dots	Example
39.	0BB0	TAMIL LETTER RA	ர	1235	⠠	ரம்பம்
40.	0BB1	TAMIL LETTER RRA	ற	12456	⠡	மாற்றம்
41.	0BB2	TAMIL LETTER LA	ல	123	⠠	லாவணியம்
42.	0BB3	TAMIL LETTER LLA	ள	456	⠡	கள்தம்
43.	0BB4	TAMIL LETTER LLLA	ழ	12356	⠢	பழம்
44.	0BB5	TAMIL LETTER VA	வ	1236	⠠	வினைச்சொல்
45.	0BB6	TAMIL LETTER SHA	ஸ	146	⠠	ஸாஸ்திரவாதம்
46.	0BB7	TAMIL LETTER SSA	ஷ	12346	⠡	பாஷாணம்
47.	0BB8	TAMIL LETTER SA	ஸ	234	⠠	ஸம்பந்தம்
48.	0BB9	TAMIL LETTER HA	ஹ	125	⠠	ஹரித்வாரம்
49.	20B9	Indian Ruppee sign	₹	4-1235-136	⠠⠠⠠	₹

Digits (Enngal)

S.no	Unicode	Description	Print	Braille Numbers	Braille Dots	Example
50.	0BE6	TAMIL DIGIT ZERO	0	3456, 245	⠠⠠	0
51.	0BE7	TAMIL DIGIT ONE	௧	3456, 1	⠠⠠	௧
52.	0BE8	TAMIL DIGIT TWO	௨	3456, 12	⠠⠠	௨
53.	0BE9	TAMIL DIGIT THREE	௩	3456, 14	⠠⠠	௩
54.	0BEA	TAMIL DIGIT FOUR	௪	3456, 145	⠠⠠	௪
55.	0BEB	TAMIL DIGIT FIVE	௫	3456, 15	⠠⠠	௫
56.	0BEC	TAMIL DIGIT SIX	௬	3456, 124	⠠⠠	௬
57.	0BED	TAMIL DIGIT SEVEN	௭	3456, 1245	⠠⠠	௭
58.	0BEE	TAMIL DIGIT EIGHT	௮	3456, 125	⠠⠠	௮
59.	0BEF	TAMIL DIGIT NINE	௯	3456, 24	⠠⠠	௯
60.	0BF0	TAMIL NUMBER TEN	௧௦	3456, 1, 245	⠠⠠⠠	௧௦
61.	0BF1	TAMIL NUMBER ONE HUNDRED	௧௦௦	3456, 1, 245, 245	⠠⠠⠠⠠	௧௦௦
62.	0BF2	TAMIL NUMBER ONE THOUSAND	௧௦௦௦	3456, 1, 245, 245,	⠠⠠⠠⠠⠠	௧௦௦௦

S.no	Unicode	Description	Print	Braille Numbers	Braille Dots	Example
				245		

Modifiers (Uyirmei Vadivangal)

S.no	Unicode	Description	Print	Braille Numbers	Braille Dots	Example
63.	0BCD	TAMIL SIGN VIRAMA	◌̣	4	⠠	ப் + பா = பாப்பா

Conjunct characters (Kootu Ezhuthukkal)

S.no	Unicode	Description	Print	Braille Numbers	Braille Dots	Example
64.	0BB6, 0BCD, 0BB0, 0BC0	Tamil letter shree	ஸ்ரீ	4, 234, 1235, 35	⠠⠠⠠⠠	ஸ்ரீமதி
65.	0B95, 0BCD, 0BB7	TAMIL LETTER KSSA	க்ஷ	12345	⠠⠠	க்ஷத்திரம்
66.	0B95, 0BCD, 0BB7, 0BCD	TAMIL LETTER KSSA WITH VIRAMA	க்ஷ்	4-12345	⠠⠠⠠	லக்ஷ்மி

Rules

S.No	UNICODE/Category of Character	Description of Character	Braille Code	Description of Rule	Example
1.	Consonant-OBCD	Consonant with Virama	4-consonant	Consonant followed by Virama has to be written as Virama followed by consonant in braille(In Unicode Virama character is added after the consonants whereas in braille dot 4 signifying Virama has to be written before the consonant)	க் (0B95-0BCD is written as 4-13)
2.	Consonant-Vowels	Consonant-Vowels	Consonant-1-Vowels	In braille dot 1 is added after the consonant if consonant is followed by Vowels.	க்ஷ (0B95-0b88 is written as 13-1-35)

Changes Introduced In Bharti Braille 2.1

No changes proposed in Tamil for Bharti Braille Code 2.1

Changes implemented in Bharti Braille 2.0

S.No	Unicode	Description	Print	Old braille code	New Braille Code as per Bharti braille code version 2. (Released on Jan 4 2025) Hindi/ Sanskrit/ Marathi/ Nepali		Comments
					Braille numbers	Braille code	
1.	0B92	TAMIL LETTER O	ஓ	345	1346	::	
2.	0BCA	TAMIL VOWEL SIGN O	ஓ	345	1346	::	
3.	0BD0	Tamil Om	ஓ	135-4-134	1256	::	

Telugu

Complete Telugu Script table of Bharti braille version 2.1

Vowels (Achulu)

S.no	Unicode	Description	Print	Braille Numbers	Braille Dots	Example
1.	0C05	TELUGU LETTER A	అ	1	⠁	అగ్నిస్తానం
2.	0C06	TELUGU LETTER AA	ఆ	345	⠠	ఆవిష్కరణ
3.	0C07	TELUGU LETTER I	ఇ	24	⠡	ఇంద్రజాలం
4.	0C08	TELUGU LETTER II	ఈ	35	⠢	ఈశ్వరుడు
5.	0C09	TELUGU LETTER U	ఉ	136	⠣	ఉత్సాహం
6.	0C0A	TELUGU LETTER UU	ఊ	1256	⠤	ఊహించు
7.	0C0B	TELUGU LETTER VOCALIC R	ఋ	5, 1235	⠤⠠	ఋతువు
8.	0C0E	TELUGU LETTER E	ఎ	26	⠥	ఎరుక
9.	0C0F	TELUGU LETTER EE	ఏ	15	⠦	ఏకాగ్రత
10.	0C10	TELUGU LETTER AI	ఐ	34	⠨	ఐశ్వర్యం
11.	0C12	TELUGU LETTER O	ఒ	1346	⠧	ఒడిసిపట్టు
12.	0C13	TELUGU LETTER OO	ఓ	135	⠧	ఓలికిందు
13.	0C14	TELUGU LETTER AU	ఔ	246	⠧⠣	ఔత్సాహి కుడు
14.	0C60	TELUGU LETTER VOCALIC RR	ఋ	6, 1235	⠤⠠	ఋషి

Vowels Symbols (Guninthapu Gurthulu)

S.no	Unicode	Description	Print	Braille Numbers	Braille Dots	Example
15.	0C3E	TELUGU VOWEL SIGN AA	ౌ	345	⠠	పాఠశాల
16.	0C3F	TELUGU VOWEL SIGN I	ి	24	⠡	విద్యుత్
17.	0C40	TELUGU VOWEL SIGN II	ీ	35	⠢	నీరసం
18.	0C41	TELUGU VOWEL SIGN U	ు	136	⠣	ముద్ర
19.	0C42	TELUGU VOWEL SIGN UU	ూ	1256	⠤	మూల్యం
20.	0C43	TELUGU VOWEL SIGN VOCALIC R	ృ	5, 1235	⠤⠠	కృప
21.	0C44	TELUGU VOWEL SIGN VOCALIC RR	ౄ	6, 1235	⠤⠠	కృత్య

						ము
22.	0C46	TELUGU VOWEL SIGN E	ె	26	⠠	పె ను ము
23.	0C47	TELUGU VOWEL SIGN EE	ీ	15	⠡	మీ ధీ లీ
24.	0C48	TELUGU VOWEL SIGN AI	ై	34	⠢	పై బ పం
25.	0C4A	TELUGU VOWEL SIGN O	ొ	1346	⠣	గొ ప్పు ది
26.	0C4B	TELUGU VOWEL SIGN OO	ో	135	⠤	మో క్షం
27.	0C4C	TELUGU VOWEL SIGN AU	ౌ	246	⠥	సౌ భా గ్యం
28.	0C01	TELUGU SIGN CANDRABINDU = arasunna indicates a contextually elided nasal	ం	3	⠦	అం కు రం
29.	0C02	TELUGU SIGN ANUSVARA = sunna • used in Prakrit language texts to indicate gemination of the following consonant	ం	56	⠦	సంధ యం
30.	0C03	TELUGU SIGN VISARGA	ః	6	⠧	శాం తః
31.	0C3D	TELUGU SIGN AVAGRAHA	౯	2	⠨	ఽన్వ య ము

Consonants (Hallulu)

S.no	Unicode	Description	Print	Braille Numbers	Braille Dots	Example
32.	0C15	TELUGU LETTER KA	క	13	⠠	కర్తవ్యము
33.	0C16	TELUGU LETTER KHA	ఖ	46	⠡	ఖగోళశాస్త్రం
34.	0C17	TELUGU LETTER GA	గ	1245	⠣	గణితశాస్త్రం

S.no	Unicode	Description	Print	Braille Numbers	Braille Dots	Example
35.	0C18	TELUGU LETTER GHA	ఘ	126	⠠⠠	ఘనత
36.	0C19	TELUGU LETTER NGA	ఙ	346	⠠⠠⠠	పింగళి
37.	0C1A	TELUGU LETTER CA	చ	14	⠠⠠	చైతన్యం
38.	0C1B	TELUGU LETTER CHA	ఛ	16	⠠⠠	ఛాయాచిత్రం
39.	0C1C	TELUGU LETTER JA	జ	245	⠠⠠	జలము
40.	0C1D	TELUGU LETTER JHA	ఝ	356	⠠⠠⠠	ఝుంకారం
41.	0C1E	TELUGU LETTER NYA	ఞ	25	⠠⠠	ఞానపీఠ్
42.	0C1F	TELUGU LETTER TTA	ట	23456	⠠⠠⠠	టంకం
43.	0C20	TELUGU LETTER TTHA	ఠ	2456	⠠⠠⠠	ఠాకూర్
44.	0C21	TELUGU LETTER DDA	డ	1246	⠠⠠	డబ్బు
45.	0C22	TELUGU LETTER DDHA	ఢ	123456	⠠⠠⠠	ఢమరువు
46.	0C23	TELUGU LETTER NNA	ణ	3456	⠠⠠⠠	కారణం
47.	0C24	TELUGU LETTER TA	త	2345	⠠⠠	తత్వం
48.	0C25	TELUGU LETTER THA	థ	1456	⠠⠠	స్థలము
49.	0C26	TELUGU LETTER DA	ద	145	⠠⠠	దృష్టాంతం
50.	0C27	TELUGU LETTER DHA	ధ	2346	⠠⠠⠠	ధర్మసూత్రం
51.	0C28	TELUGU LETTER NA	న	1345	⠠⠠	నిమంటువు
52.	0C2A	TELUGU LETTER PA	ప	1234	⠠⠠	పర్యావరణం
53.	0C2B	TELUGU LETTER PHA	ఫ	124	⠠⠠	ఫలితము
54.	0C2C	TELUGU LETTER BA	బ	12	⠠⠠	బహుమతి
55.	0C2D	TELUGU LETTER BHA	భ	45	⠠⠠	భ్రమణం
56.	0C2E	TELUGU LETTER MA	మ	134	⠠⠠	మానవత్వం
57.	0C2F	TELUGU LETTER YA	య	13456	⠠⠠⠠	యజ్ఞం
58.	0C30	TELUGU LETTER RA	ర	1235	⠠⠠	రహస్యము
59.	0C31	TELUGU LETTER RRA	ఱ	12456	⠠⠠⠠	పఱుగు
60.	0C32	TELUGU LETTER LA	ల	123	⠠⠠	లబ్ధి
61.	0C33	TELUGU LETTER LLA	ళ	456	⠠⠠	ళకరం
62.	0C35	TELUGU LETTER VA	వ	1236	⠠⠠	వర్ణన

S.no	Unicode	Description	Print	Braille Numbers	Braille Dots	Example
63.	0C36	TELUGU LETTER SHA	శ	146	⠠⠠	శతాబ్దం
64.	0C37	TELUGU LETTER SSA	ష	12346	⠠⠠⠠	షోషధం
65.	0C38	TELUGU LETTER SA	స	234	⠠⠠	సత్యవంతుడు
66.	0C39	TELUGU LETTER HA	హ	125	⠠⠠	హస్తప్రయోగం
67.	0C58	TELUGU LETTER TSA	ఠ	6, 14	⠠⠠⠠	ఠేప్పి
68.	0C59	TELUGU LETTER DZA	ఢ	6, 245	⠠⠠⠠	ఢేప్పి
69.	0C60	TELUGU LETTER VOCALIC RR	ఝ	6, 1235	⠠⠠⠠	ఝూషి
70.	0C5A	6-1235 # TELUGU LETTER RRRA	ఞ	6-1235	⠠⠠⠠	
71.	20B9	Indian Ruppee sign	₹	4-1235-136	⠠⠠⠠⠠	₹

Digits (Ankelu)

S.no	Unicode	Description	Print	Braille Numbers	Braille Dots	Example
72.	0C66	TELUGU DIGIT ZERO	౦	3456, 245	⠠⠠⠠	౦
73.	0C67	TELUGU DIGIT ONE	౧	3456, 1	⠠⠠⠠	౧
74.	0C68	TELUGU DIGIT TWO	౨	3456, 12	⠠⠠⠠	౨
75.	0C69	TELUGU DIGIT THREE	౩	3456, 14	⠠⠠⠠	౩
76.	0C6A	TELUGU DIGIT FOUR	౪	3456, 145	⠠⠠⠠	౪
77.	0C6B	TELUGU DIGIT FIVE	౫	3456, 15	⠠⠠⠠	౫
78.	0C6C	TELUGU DIGIT SIX	౬	3456, 124	⠠⠠⠠	౬
79.	0C6D	TELUGU DIGIT SEVEN	౭	3456, 1245	⠠⠠⠠	౭
80.	0C6E	TELUGU DIGIT EIGHT	౮	3456, 125	⠠⠠⠠	౮
81.	0C6F	TELUGU DIGIT NINE	౯	3456, 24	⠠⠠⠠	౯

Modifiers (Ubhayaksharalu)

S.no	Unicode	Description	Print	Braille Numbers	Braille Dots	Example
82.	0C4D	TELUGU SIGN VIRAMA	్	4	⠠	జగత్

Conjunct Characters (Vathulu)

S.no	Unicode	Description	Print	Braille Numbers	Braille Dots	Example
83.	0C15, 0C4D, 0C37	Telugu Character KSHA	క ష or క్ష	12345	⠠⠨	కమించు
84.	0C15,0C4 D,0C37,0 C4D	KSHA with Virama	క్ష	4-12345	⠠⠨⠠⠨	లక్ష్మి
85.	0C1C,0C4 D,0C1E	GYA	ఙ్	156	⠠⠨	విజ్ఞానము
86.	0C1C,0C4 D,0C1E,0 C4D	GYA with Virama	ఙ్	4-156	⠠⠨⠠⠨	జ్ఞప్తి

Rules

S.No	UNICODE/Category of Character	Description of Character	Braille Code	Description of Rule	Example
1.	Consonant-0C4D	Consonant with Halant	4-consonant	Consonant followed by Halant has to be written as Halant followed by consonant in braille(In Unicode Halant character is added after the consonants whereas in braille dot 4 signifying Halant has to be written before the consonant)	క్ష (0C15-0C4D is written as 4-13)
2.	Consonant-Vowels	Cosonant-Vowels	Consonant-1-Vowels	In braille dot 1 is added after the consonant if consonant is followed by Vowels.	కళ (0C15-0C08 is written as 13-1-35)

Changes introduced in Bharti Braille 2.1

No changes were introduced in Bharti Braille Code Version 2.1

Changes implemented in Bharti Braille 2.0

S.No	Unicode	Description	Print	Old braille code	New Braille Code as per Bharti braille code version 2. (Released on Jan 4 2025)		Comments
					TELUGU		

					Braille numbers	Braille code	
1.	0C12	TELUGU LETTER O	ఓ	345	1346	::	
2.	0C2B	TELUGU LETTER PHA	ఫ	235	124	::	
3.	0C4A	TELUGU VOWEL SIGN O	ౌ	235	1346	::	