

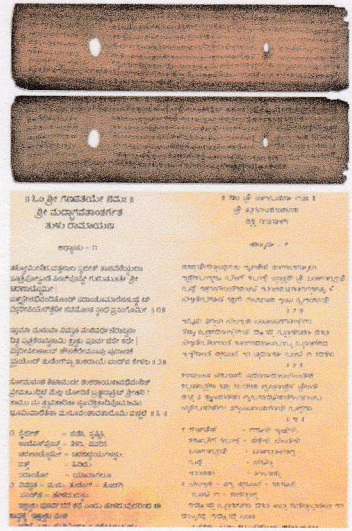
KaNaada Phonetics Pvt. Ltd.

CIN: U30004KA2017PTC107420

Hindi / Devanagari			Kannada			Tulu		
क	=	क	ಕ	=	ಕ	ಕ	=	ಕ
का	=	क आ	ಕಾ	=	ಕ ಆ	ಕಾ	=	ಕ ಆ
क्ष	=	क ष	ಕಷ	=	ಕ ಷ	ಕಷ	=	ಕ ಷ
स	=	र स	ಸ	=	ರ ಸ	ಸ	=	ರ ಸ
क़क़	=	क FN+अ क़	ಕಕ	=	ಕ FN+ಅ ಕ	ಕಕ	=	ಕ FN+ಅ ಕ
भाषा	=	Fn + F12	ಬಾಷಾ	=	Fn + F12	ಬಾಷಾ	=	Fn + F12
बदले	=	Fn + F12	ಬದಲಾವಣೆ	=	Fn + F12	ಬದಲಾವಣೆ	=	Fn + F12

दद=द FN+अ, द
ZW-NJ e.g.

Above shows some examples of interoperability of various Indic scripts in Unicode, including Tulu language script under Malayalam Unicode. Hitherto we have supported proposal L2/17-378 (Ref 3) in 2017 and shown how our keyboard can be used to type script variations referred in the L2/20-177 proposal. I am still in India and continued the efforts full time for over four years to help Indic languages with a hardware keyboard supporting Unicode. We have shown that through our keyboard one can type various character variations, consonant, ligature combinations (Ref 15) for Tulu language scripts using fonts and style sets through Malayalam, Kannada Unicode.



Translation of manuscripts, digital version of manuscripts is underway at various institutes, groups with Tulu fonts using Malayalam Unicode. Tulu Ramayana with very ancient Tulu dialect is an example.

Kindly accommodate the minor changes requested for the benefit of many.

Best regards,



Guru Prasad
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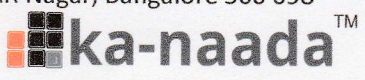
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Ka-Naada™ Tulu Keyboard US Ptnt

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Ref:(random order)

1. L2/17-378 : Preliminary proposal to encode Tigarari in Unicode by Vinod & Vaishnavi & Jamadhagni (2017) (We have supported and met with Vaishnavi to keep track of the Unicode efforts)
2. 17411-tigarari-support.pdf Support Letter to Unicode Nov (2017) from KaNaada Phonetics
3. The Palaeography of India,(1918), Raj Bahadur , Pandit Gaurishankar Hirachand Ojha (one of the Alphabet set reference for Tulu Sri font)
4. Tulu Alphabet, Tulu,Kannada,English, (2014), GVS Ullal5th edition 1018 , First edition 2010 (glyph set for Tulu Sri follows this book and added new half vowels)
5. Tulu Sri Font Ver 10.0 (encoded in Malayalam Unicode for now), Ka-Naada hardware keypad for Tulu (7 inch) for schools, released at Tulu World Conference Dubai, (2018)
6. Tulu Sri Ver 20. (encoded in Malayalam Unicode for now) , 10 inch Tulu USB Ka-Naada hardware keypads, released in Nov 2019, Tulu Sahitya Academy, Mangalore, released by Harikrishna Punaroor (tulu scholar, twice Kannada Sahitya parishat President), Dayanand Kattalsar (President elect, Tulu Sahitya Academy).
7. Ka-Naada Tulu Hardware die keyboard , 10 inch , released on Aug 15 2020, by Dharmastala Veerendra Hegde & Dr. Vignaraj (Director , Tulu manuscripts library)
8. Tulu Font story, (2020) Nuances in orthography, conjuncts in Fonts, Stylesets, Guru Prasad, Nishkal Rao, Sathish Agpala
9. Tech in Tulu, Guru Prasad, online seminar by Sathish Agpala (2020)
10. Learn Tulu language script in 4 hours using Memory mapping technique, Sathish Agpala , Online classes,(2017-2020)
11. A comparative grammar of Dravidian or South Indian Family of Languages, Robert Caldwell, (1856)
12. Grammar of the Tulu language, J. Bigel, (1872)
13. Books on grammar, S.U. Paniyadi, , L.V. Ramaswamy Iyer
14. A handbook to learn Tulu, Pradyoth Hegde, 2020
15. Concise Tulu dictionary, Dr. U.P. Upadhyaya , (5 vols) , (2005)
- 16.The Tulu Font, Dr. K.P. Rao (prior to 2017) (Malayalam style conjuncts developed for Tulu Academy)
17. Tulu Language: Its Script and Dialects, Dr. Neria H. Hebbar, (2003), Boloji.com article (Char sets from 1880)
18. SriHari Type 2 font, www.theTuluFont.in (2017,20)
19. Kanatavu, Android editor for Tulu (2020) Adarsh S., Guru Prasad, KaNaada Phonetics pvt ltd.
20. Storyline of Ka-Naada keyboards, Tulu Sri and other fonts for Digitally connecting through Tulu language scripts (2017-2020)
21. Tulu Ramayana, Dr. Vignaraj, Dharmastala Manuscript Library (Draft conversion into digital ver.)
22. **Tulu Siri** , Ver 0.1 ,Modified draft ver of TuluSri Font complying with the Alphabets sent to Unicode by K TSA.
23. Tulu Language Lab setup, Tulu Keyboards, lesson plans setup at Kuthyar, PPC & other schools
24. Bale Tulu Lipi Kalpuga & Learn Spoken Tulu classes, All American Tulu Association, Shivalli Kutumba, USA

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Cc/- Tulu Sahitya Academy, Mangalore,
National Culture Ministry, New Delhi,
Karnataka Culture Ministry, Bangalore,
Dr. Kasturirangan, Chief, National Education Policy(NEP) 2020
Education Committee, All American Tulu Association (AATA),
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