

Malayalam Reph with ZWJ joiner

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1.0 Virama as a Vowel-Reducer in Indian scripts:

Virama in South Indian scripts have a function: Virama acts as a vowel-reducer, but never upon dead consonants like Malayalam Chillus. Normally, Virama reduces the inherent vowel /a/ to zero. In Tamil, Virama has an additional vowel-reducer function: it acts upon both /i/ and /u/ maatra visually to reduce their vowel length, called short-i and short-u. In Malayalam, short-u, called samvruthokaram, also employs Virama visually to reduce /u/ vowel length. In sum, Virama acts as a vowel reducer in all situations in Indic scripts, whether the vowel is /a/, /i/ or /u/.

Because in Indian scripts like Tamil Grantha and Malayalam, chillu dead consonants are never followed by either a vowel maatra or a virama, it is not necessary to have Unicode sequences like <Chillu, Virama, ...> in 5.1. If done, it will radically alter the properties of Virama in Indian scripts including Malayalam.

2.0 Kerala Government Order (G.O.) giving the Relationship between Malayalam Dot-Reph (Old orthography) and Chillu R/RR (Reformed Orthography).

In Malayalam script, reph form is obsolete just as in Gurmukhi(Punjabi) and Telugu scripts. Kerala Government Order, originally issued in 1968, is a governing document advising on the rules of how old orthography letters need to be treated in the reformed orthography. This Kerala G.O rule clearly advises users to use Chillu R/RR (ര) in place of Malayalam dot-reph when reformed orthography is needed. Kannada and Malayalam reph is represented as <ra, virama, C2> while Telugu and Gurmukhi rephs are <ra, virama, zwj, C2>.



GOVERNMENT OF KERALA
Abstract

MALAYALAM SCRIPT-ADOPTION OF NEW SCRIPT FOR USE-ORDERS ISSUED

EDUCATION 'P' DEPARTMENT

G. O. (P) 37/71/Edn.

Dated, Trivandrum, 23rd March 1971.

Read: G.O. (P) 329/68/Edn.dated 11-7-1968

<http://www.malayalamresourcecentre.org/Mrc/order.pdf>

2 മുമ്പിൽ രേഫം (ർ) ചേരുന്ന കൂട്ടക്ഷരങ്ങൾ ഇപ്പോൾ രണ്ടുതരത്തിൽ എഴുതാറുണ്ട്

ഉദാ:- അർക്കൻ, അർക്കൻ. പാർത്തലം, പാർത്തലം. നേർച്ച, നേർച്ച.

ഇതിൽ ആദ്യത്തെ രീതി (‘.‘ചിഹ്നം മുകളിൽ ഇടുന്ന രീതി) ഉപേക്ഷിക്കാവുന്നതാണ്. അതിനു പകരം എല്ലായിടത്തും ‘ർ’ എന്ന ചില്ലു മുൻപിൽ എഴുതുക എന്നു വ്യവസ്ഥ ചെയ്താൽ മതിയാകും. വാർത്ത, പാർക്കുക എന്നിങ്ങനെ.

Figure 1. Kerala G.O. on Chillu-R/RR for replacing Dot-reph. (Note the Examples when consonants doubling with a dot-reph are written Chillu R/RR followed by the double-consonant)

Figure 1 is given as the Rule 2 on page 6 of the Kerala Government Order (pg. 6 in a total of 8 pages given as pdf.).

DIFFERENCES IN THE REVISED SCRIPT

OLD	REVISED
കു വു ഗു	കുറു വുറു ഗുറു
നു റു etc	നുറു റുറു etc
കു/കു വു ഗു etc	കുറു വുറു ഗുറു etc
കു് തു് നു് etc	കുർ തുർ നുർ etc
കു തു നു etc	കുർ തുർ നുർ etc
കു ത്ര പ്ര etc	കുർ ത്രുർ പ്രുർ etc
നു ഗു etc	നുറു ഗുറു etc
അർക്കൻ } അർക്കൻ }	അർക്കൻ

Fig. 2 Malayalam letters in Old and Reformed orthographies (B. Syamala Kumari, 1981).

This reph handling works in almost all situations as shown in Tables 4a, 4b and 4c at, http://www.unicode.org/versions/Unicode5.1.0/#Significant_Character_Additions

In Table 4b, the dot-reph over VA is having an extremely rare attestation in very old print books. For this reph over VA, a suggested sequence is <RA, VIRAMA, ZWJ, VA>. In old orthography fonts, it should display as dot-reph over (single) VA. But the same sequence will fall back to visual representation as Chillu R with VA to its right side which is what is prescribed in Kerala G.O. rule (Section 2). The prime advantage of using this sequence is dot-reph over VA in old script, and chillu r followed by VA in reformed script will have the same coded representation.

In Table 4a, dot-reph over YA is given, and in Malayalam this is not attested. If there ever is a need, it can be represented as <RA, VIRAMA, ZWJ, YA> just like dot-reph over VA letter.

In sum, while the dot-reph representation in Malayalam can be continued in 5.1 as <RA, VIRAMA, C2> as in previous versions of Unicode. Just for an extremely rare and obsolete case of dot-reph over VA, the sequence can be <RA, VIRAMA, ZWJ, VA>. In this, the dot-reph will convert to chillu-R automatically if old style font is changed to reformed style font of Malayalam.