Editorial Policies



Image credit: Vocabulario Lusitano- Tamulico [Portuguese-Tamil Dictionary], MS49 (previously MS36), no date, State Central Library, Goa, Panjim/Panaji

Although the attitudes of neglect toward the earliest linguistic (field)works have decreased and the contribution to the study of language by linguists avant la lettre is acknowledged today (Zwartjes 2012), attitudes still need to change further, and this is one of the aims of this volume.

At present, it includes five papers which focus on different aspects of the grammaticisation (Auroux 1994) of the South Asian languages by earlier descriptors from the 16th century onwards. Among them, the linguists avant la lettre par excellence were Jesuit missionaries. Their works, which recorded the linguistic structures, sociolinguistic variations and the pragmatic usages of the South Asian languages, were (re)written, (re-)edited, (re-)copied, and progressively enriched.

Entering different networks of knowledge circulation, their works, as well as those immediately after produced by others, contributed to the diffusion of a new awareness about the language as a human faculty. These works gave an impulse to the study of language, to the development of new ideas about it and its origin: from a divine one, whose diversity had been determined by the confusion of the Tower of Babel, to a socio-historical institution.

Applying both macro and micro approaches, each paper in this volume explores

different topics. Hence, the papers discuss the categorisation and classification of the linguistic diversity of South Asian languages through the lens of the Western grammatical tradition; the interface between Western and Indian grammatical traditions; the collection and diffusion of new linguistic knowledge about the newly discovered languages throughout later intermediaries and grammarians. The papers in this Special Collection contribute to understanding how the linguistic

works avant la lettre played a relevant part in the affirmation of the Science of Language.

Guest editor:

Cristina Muru, University of Tuscia, cristina.muru@unitus.it

Research Paper



Early Descriptors and Descriptions of South Asian Languages from the 16th Century **Onwards**

Cristina Muru

1 Also a part of:

Collection: Early Western and Portuguese descriptors of the Indian

languages from the 16th century onwards



the Development of Konkani Gonçalo Fernandes

Contributions of Cunha Rivara (1809–1879) to

🗎 2019-01-03 🗗 Volume 18 • Issue 1 • 2019 • 1

1 Also a part of:

Collection: Early Western and Portuguese descriptors of the Indian languages from the 16th century onwards



Gregory James

Missionaries' Treatment of Tamil 'Ablatives'

The Pesky Ablative: Early European

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languages from the 16th century onwards

On (the) sandhi between the Sanskrit and the



Colebrooke to Bloomfield via Müller Giovanni Ciotti

Modern Western Grammatical Traditions: From

Collection: Early Western and Portuguese descriptors of the Indian

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classification and explanation of verb conjugations and paired verbs of Tamil Cristina Muru

How missionaries applied Portuguese and

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Latin descriptive categories in the

languages from the 16th century onwards



From grammar to dictionary. The early challenge of lemmatizing Tamil verbal forms, through categories used for Latin and

Jean-Luc Chevillard

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the Indian languages from the 16th century onwards

RESEARCH PAPER

How missionaries applied Portuguese and Latin descriptive categories in the classification and explanation of verb conjugations and *paired verbs* of Tamil

Cristina Muru

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Tamil verb stems may be inclusive of a voice morpheme that encodes the degree of agency of the verb. Hence, using Paramasivam's (1979) terminology, these kinds of verbs are *paired verbs* of which one is the *affective* and the other its *effective* counterpart. In the former, the action expressed by the verb is realised by an agent and affects a patient, whereas in the latter the consequences of the action fall on the subject who realises the action.

This paper intends to analyse how missionaries described the verb system of Tamil which differed substantially from their own model of reference (Latin and Portuguese), and how they understood *paired verbs*, as defined above. As such, taking into account the Western sources that missionaries used to compose and organise their descriptions, this paper focuses on both verb conjugations and *paired verbs* in Tamil. It also demonstrates how the Latin grammatical framework was applied for the description of Tamil verbs and discusses the Indian grammatical sources available to missionaries.

Given that the present classification of Tamil verbs is based on the one offered by a missionary, Karl Friedrich Leberecht Graul (1814–1864), this study highlights how earlier missionaries' descriptions contributed to the current classification.

Keywords: paired verbs of Tamil; agency in Tamil; Missionary Linguistics; grammatical voice; Tamil language; extended grammar

1. Premise

This paper analyses how the Tamil verb system was understood and described in six grammars of the Tamil language produced by missionaries between the 16th and 18th centuries with the purpose of creating useful tools to help missionaries how to communicate with natives and, thereby, spread the Gospel. This immediately raises the issue of the diglossic situation that characterises Tamil for, as Chevillard (2018) suggests, it would more correctly be considered triglossia to include the poetic language inasmuch as it is "difficult to separate [the three varieties] in practice, because each component of the Tamil triglossia had its own role to play in the global picture of the everyday life in Tamil Nadu" (Chevillard 2021: 2). As such, the data collected in these texts are representative of three varieties albeit with a different degree of representativeness: variety A which is the vernacular Tamil, variety B which is the Modern formal Tamil, and variety C which is the Classical Tamil – as described in Chevillard's schema (2021: 3). Among the oldest texts, Henriques' *Arte* (cf. below in this §) is more representative of A. Later works are more illustrative of variety B. Unsurprisingly, data from the poetical language are marginal or

¹ See the adaptation of linguistic forms from variety A to variety B which occurs in the passage from Henrique Henriques' *Arte* to Antão de Proença's dictionary discussed in Chevillard (2021: 12, cf. Table 2).

absent from earlier texts – despite missionaries having always been aware of the existence of different varieties (cf. Chevillard 2021; Muru 2010). Nevertheless, data from A, B and C co-exist within the grammars, at least up until when Italian Jesuit missionary Constantius Joseph Beschi [or Costantino Giuseppe Beschi] (1680–1747) compiled two different grammars: one describing the common language (*koṭuntamil*) while the other focused on the high language (*centamil*).

The first text considered in this study is among the most studied Tamil grammars, written in the 16th century, namely the Arte da lingua Malabar (ca. 1548) by Henrique Henriques (1520-1600) (henceforth HH, no. 1 in Table 1) of which the only extant manuscript is held in the National Library of Lisbon. Published by Vermeer (1982) it also provides an almost complete classification of all the Tamil lexicon found in the grammar, while an English translation by Hein & Rajam appeared later in 2013. The other manuscripts studied in this paper include the Tamil Arte wrote by Gaspar de Aguilar (1548-?) and copied by Philippus Baldaeus (1623-1671) (henceforth GA/PB, no. 4 in Table 1), already discussed in Francis (2011), Muru (2014, 2020), and Pytlowany (2018). The third text is the Tamil grammar produced by Balthasar Da Costa (c. 1610–1673) (henceforth BC, n. 3 in Table 1) which the author of this paper has transcribed and translated into English (as yet unpublished). The fourth text is an anonymous Tamil grammar manuscript now preserved in the French National Library (henceforth Ind. 188, no. 2 in Table 1) allegedly written earlier than BC's Arte (see discussion in § 4). The fifth is the Grammatica Damulica by Bartholomäus Ziegenbalg (1682-1719) printed in 1716 (henceforth BZ, no. 5 in Table 1) while the sixth is the famous grammar of Common Tamil (kotuntamil) produced by Constantius Joseph Beschi (1680-1747) (henceforth CJB, no. 6 in Table 1). Table 1 below provides detailed information about these texts, their authors, and their location, as well as accessible editions and translations.

This article is organised into two main sections, each introduced by a paragraph briefly explaining the main features of Tamil verbs (§ 2) as they are described in modern grammars of standard Tamil. The first section discusses (1) how the verb system was described in the Indian grammars with which missionaries were familiar (cf. § 3); and (2) which Western grammatical framework missionaries would have considered while describing the Tamil verb system (cf. § 4). The second section analyses in detail (3) how Tamil verbs were described by early missionaries between the second half of the 16th century and the first half of the 18th century, prior to Graul's classification (of Tamil verbs) (cf. § 5). The conclusion section (§ 6) reveals the way in which the classification of Tamil verbs is used today and the extent to which the system highlighted in the *Grammar Outline* (1855: 38–39) by Karl Friedrich Leberecht Graul (1814–1864) has its roots in these early descriptions, pointing out the achievements of missionaries in the early 18th century. This in turn opens up perspectives for further research and underlines once again the significance of these early documents for the History of the Language Science.

² Borg. Ind. 12 is a composite document made up of a printed book, that is the bilingual dictionary Tamil-Portuguese by Antão De Proença printed in 1679 and the manuscript Tamil grammar composed by Balthasar Da Costa which was copied in 1685 in Verapoli by the Desclace Carmelitan P. Paolo Francesco. The grammar is inserted within the Dictionary and is divided into two parts. The beginning section is placed at the end of the printed dictionary (after f. 247v) and it runs from f. 248r to f. 259v, while the final section (ff. 225r–243r) is placed between f. 246v and f. 247r of the dictionary.

³ MS 50 is also a composite manuscript. Copied in 1670, it includes a manuscript version of Antão De Proença's dictionary along with Balthasar Da Costa's Tamil *Arte*.

Table 1: List of analysed documents.

doc. numb.	Author and abbreviations	Title	metalanguage	Location of manuscript
1	Henrique Henriques (1520–1600) = HH	Arte da lingua Malabar, ca. 1548	Portuguese	Cod. 3141 – Lisbon, Biblioteca Nacional de Portugal. Hein & Rajam (2013, Engl. Transl.); Vermeer (1982, Port. reproduction).
2	Nd = Ind 188	-	Portuguese	Ind 188 – Paris, Bibliothèque Nationale de France. Transcribed by Cristina Muru. English translation in preparation by Muru.
3	Gaspar de Aguilar (1548-?) Philippus Baldaues (1623-1671) = GA/PB	Arte Tamul sive institutio grammatica lingæ Malabaricæ, 1659–1665	Portuguese	Cor. Orient. 283 – Hamburg, Staats und Universitäts bibliothek Hamburg Carl von Ossietzky. Transcribed and partially translated into English by Muru. MS 7107 [Baldaeus 1672] – London, SOAS Library Special Collection. It is an uncompleted Engl. Translation.
4	Balthasar Da Costa (c. 1610–1673) = BC	Arte Tamul, 17th c.	Portuguese	Borg. Ind. 12 – Rome, Biblioteca Apostolica Vaticana [see Costa 1685]. ² MS 50 (prev. MS 34) [Costa 1673]; MS 16 (prev.MS M15) [Costa 1794]; ³ MS 66 (prev. MS M49) [Costa n.d.] – Panaji, Krishnadas Shama, Goa State Central Library. MS OC Sloane 3003 [Costa n.d.] – London, British Library. Transcribed and translated into English by Muru [as yet unpublished].
5	Bartholomäus Ziegenbalg (1682–1719) = BZ	Grammatica Damulica, 1716	Latin, printed grammar	MMSL INS-T 65 – London, SOAS Library Special Collection. Jeyaraj (2010, Engl. Transl.)
6	Constantinus Joseph Beschi (1680–c.1746) = CJB	Grammatica Latino-Tamulica, 1728 (1738)	Latin, printed grammar	Horst (1831 [1806], English transl.); Mahon (1848, English transl.).
Auxiliary manuscript	Anão De Proença (1624-1666) = AP	Vocabulario Tamulico- Lusitano, 1670	Tamil, Portuguese	MS 50 (prev. MS 34) – Panaji, Krishnadas Shama, Goa State Central Library. The printed version of the dictionary, found in Borg. Ind.12, has been transcribed and translated into English by JL. Chevillard [as yet unpublished].

2. A short introduction to the Tamil verb system

Although an outline of the main features of the verb system (i.e. verb conjugations, verb valency, and codification of agentivity) might appear redundant for those who are familiar with Tamil, it seems useful to include it here since it is functional to the analysis provided in subsequent sections. Indeed, even though data gathered in this section derive from descriptions of standard Modern Tamil, these demonstrate the typological distance from the missionaries' mother tongue and the metalanguage of grammaticisation they encountered while producing their grammars of Tamil.

Verbs in Tamil are divided into finite and non-finite, identified as murru and eccam respectively by the traditional Tamil grammars. The distinction between finite and nonfinite verbs is syntactical rather than morphological: almost all finite verb forms occur as an end predicate of a sentence and may be inflected for tense, mood, person, number, and gender. Non-finite verb forms, by contrast, occur as a predicate of an embedded or subordinate clause, or in compound verb constructions (Lehmann 1989: 48). The main distinction within non-finite verbs is between vinai-y-eccam, verbs that combine with a following predicate, and peyar eccam, verbs that combine with a following nominal expression (Steever 1988: 11). Both the forms, in traditional Tamil grammar, are syntactically incomplete achieving completion only when followed by another verbal or nominal form (see Chevillard 2021: 5). In addition, there are nominalised forms which may or may not display tense inflection (e.g. verbal nouns, participial, and adjectival nouns). As illustrated in Figure 1, the elements representative of the morphology of a typical Tamil finite verb are the verb base and two grammatical formative affixes, of which the first denotes the tense and the second the person-number-gender (PNG) agreement:

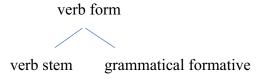


Figure 1: Tamil verb form.

- nān oru pustakam vānk-in-ēn⁴
 1SG NUM N.book buy-PST-1SG
 I bought a book.
- 2. avan oru pustakam vāṅk-iṇ-āṇ 3SG.M NUM N.book buy-PST-3SG.M *He bought a book*.
- 3. avaļ oru pustakam vāṅk-iṇ-āļ 3SG.F. NUM N.book buy-PST-3SG.F She bought a book.
- 4. avar oru pustakam vāṅk-iṇ-ār 3.S.HON.M/F NUM N.book buy-PST-3SG.HON.EPIC *He (hon) bought a book.*

⁴ Most examples in this section come from published sources, which are acknowledged in the text or the indented examples. Where no source is given, the examples are based on the author's personal knowledge.

Additionally, the verb stem to which the inflectional suffixes are added may be simple, consisting of the verb root (a), or derived, consisting of a verb root plus a voice morpheme (b), and both may or may not be followed by a causative suffix (c):

- a. **simple**: *tiru* 'turn';
- b. **derived**: *tirumpu*, *tiruppu* < verb root *tiru* 'turn' + *-mpu/-ppu* (voice morpheme);
- c. **causative**: *tiruppuvi/tiruppu cey/tiruppu vai/tiruppu paṇṇu* 'to make someone to turn'.

The verb forms in (b), *tiruppu* and *tirumpu*, are *paired verb* stems derived from the same verb root *tiru* 'turn' to which a voice morpheme is added.⁵ Their structure is illustrated by **Figure 2**.

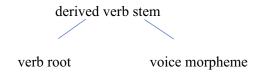


Figure 2: Structure of derived verb stem.

In Lehmann's (1989) analysis, voice morphemes are considered as part of the derived verb base, in contrast to a simple verb base like *tiru* or *elutu*. Steever (1983) provides an alternative analysis, considering the voice markers as combining with an adjacent morpheme to create a portmanteau morph.⁶ Indeed, Steever (1983: 55) states that Tamil verb morphology, despite being "predominantly agglutinative; ... exhibits certain fusional tendencies so that 12 (VII) conjugational patterns are distinguished according to the morphophonemic alternations that take place between the verb base and the grammatical formatives". Hence, *tirumpu* and *tiruppu* are taken as one morph which combines two morphemes: the root morpheme and the voice morpheme. They are realised by one *pormanteau* morph at the phonological level where the voice combines with the preceding verb root (cf. examples 5–6), or with the following tense marker (cf. examples 7–8):

- 5. avan irank-in-an 3SG.M descend-AF+PST-3SG.M He descended.
- 6. avan cumai.y-ai.y irakk-in-ān 3SG.M load-ACC descend-EF+PST-3SG.M He put his load down.
- 7. avan manaivi.y-ai.p piri-nt-ān.
 3SG.M wife-ACC separate-AF+PST-3SG.M
 He separated from his wife.
- 8. avan maṇaivi.y-ai.p piri-tt-ān 3SG.M wife-ACC separate-EF+PST-3SG.M He separated his wife (from someone else).

(Steever 1983: 58)

⁶ For a historical reconstruction of *paired verbs* in Proto-Dravidian see Krishnamurti (2003: 182–184; 279–291).

⁵ Melčuk (2006: 242–244), in the framework of concepts, methodology, and formalisms of the Meaning-Text theory (ibid., 4–24), does not consider this form (b) as a voice morpheme or transitivization, but rather as a semantic inflectional category of *affectedness*.

Klaiman (1991: 73) states that the basic voice system contrasts weak and strong verbs, while Paramsivam (1979) classifies it as an opposition between affective (cf. example 9) and effective (cf. example 10) voice. As Zúñiga & Kittilä (2019: 7) state, "studies of grammatical voice can be classified into two groups according to whether the notion of voice is defined structurally or functionally". While a discussion on voice in Tamil language is not within the scope of this article, I here follow Paramasivam (1979) and Klaiman (1991). The latter stands within the functional approach and suggests different kinds of voices and different values for the same kind of voice. The alternation of voices in Tamil does not necessarily imply suppression or reassignment of arguments among verbally assigned nominal positions. It signifies that the opposition cannot be easily considered as an intransitive/transitive one, but rather that the selection of voice depends on whether the verb does or does not assign a subject argument upon whose referent the denoted action's principal effects devolve. As evidence of this, one may cite Klaiman's (1991: 60): "small and unsystematic sample consisting of 60 invariant Weak and 46 invariant Strong verbs ... [that] have been isolated from a listing of 223 verb roots in Arden (1969: 150-169) and checked against dictionary entries in Burrow & Emeneau (1961) and the Tamil Lexicon (1924–36)". This survey specifically highlights that detransitivisation or valence reduction is not a weak or middle voice function. Both invariant strong and invariant weak verbs may be transitive or intransitive:⁸

- 9. avan-uṭaiya talai tirump-i.y-atu 3SG.M-GEN N.head turn.AF+PST-3SG.NT His head turned.
- 10. avan talai.y-ai.t tirupp-in-ān 3SG.M N.head-ACC turn. EF + PST-3SG.M He turned his head.

(Lehmann 1989: 50)

As Steever (1983: 59) observes, "affective and effective voice are mutually implicating terms: if a root can occur with one, it can occur with the other [...] morphologically, the two are mutually exclusive; semantically, mutually implicating. Effectivity thus marks an inflectional, not a derivational, relationship between the two members of the opposition". Examining a small sample of 140 verbs, Paramasivam (1979: 5, fn. 8) also estimated without counting Sanskrit loans and verbs derived from onomatopoeia – that about 60% of Tamil verbs contain such a voice morpheme in their stem and can be considered as paired verbs of the same verb root. However, the observation of the grammars analysed in this article, as well as the investigation carried out by Chevillard (2021) on AP's dictionary both provide a lower estimation of paired verbs compared to Paramasivam's estimation. Indeed, the value is 15% for the grammars analysed in this article and 14% for AP's Dictionary, while the percentage may increase up to ca. 31% if one considers the total amount of paired verbs which can be identified in the verb list provided in Appendix 3. Despite this, the role played by voice morpheme in Tamil verbs is unquestionable. In addition to the opposition of the morphemes -mpu to -ppu already discussed above, voice is also marked by further pairs of allomorphs, as summarised by Lehmann (1989: 51):

⁷ Klaiman (1991) lists four voice types that are structurally defined: the *basic voice* which corresponds to the notion of voice developed for the classical languages and the *derived voice* which covers passives and antipassives. The other two types, labelled as *pragmatic voice*, are the "functional counterparts of her two structural voice types" (*ibid.*). Following Zúñiga's & Kittilä's (2019: 41–43) definition of anticausative voice and analysis, example 9 could be considered as anticausative of 10 since the event is not caused intentionally and purposefully by a salient agent, while examples 5 and 7 would be non-prototypical anticausatives such as "involuntary agent constructions" (*ibid.* 43–47).

⁸ The survey has also highlighted that the invariant strong verb has an *effective* or *non-affective* sense, while the sense of the semantically related invariant weak verb is *affective* (Klaiman 1991: 60).

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-ku vs. -kku
-ntu vs. -ttu
-tu vs. -ttu
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The examples listed above show how "an affective verb is one the subject of which undergoes, *volitionally* or *not-volitionally*, the action (or state or change of state) described by that verb stem" (Paramsivam 1979: 20) while effective verbs "represent actions of the subject on external object" (Paramasivam 1979: 23). Hence, *affective* and *effective* voices characterise the subject's role in the narrated event where it appears as an *actor* in *affective* voice and as an *agent* in *effective* voice (Duranti 2004, 2007). The subject of the *affective* verb does not necessarily direct the process expressed by the verb; by contrast, the *effective* verb is characterised as one whose subject directs the action or process named by the verb root which may reflect on another object (animate or inanimate; human or non-human).

From a formal standpoint, the *affective* verb stem *tirumpu* seen in example (9) is characterised by a voice morpheme with a single obstruent, while the *effective* verb stem *tiruppu* seen in example (10) has a voice morpheme with a geminated obstruent. The single/geminated obstruent distinction appears in the inflectional process, but it can also occur in the derivational process since the *affective/effective* distinction can also appear in the first affix-initial position. As such, Paramasivam (1979: 5) argues that "paired verbs fall under three groups on the basis of how the single/geminated obstruent distinction manifests itself":

- a. Group 1 distinction in the affix-initial position: verb stem ending in V/C + tense/voice + PNG, i.e. *uṭai-nt-u* (*affective*) vs. *uṭai-tt-u* (*effective*) 'to break;
- b. Group 2 distinction in the base-final position, i.e. $\bar{a}t$ -u (affective) vs. $\bar{a}tt$ -u (effective) 'to move in a swaying motion';
- c. Group 3 distinction in the affix-initial position but with geminated obstruent in the base-initial position, i.e. *cel-kir-atu* ('it goes'); *cen-r-atu* ('it went') (*affective*) vs. *celuttu-kir-ān* ('he directs'); *celutt-in-ān* ('he directed') (*effective*).

Additionally, as already stated, a third class of verbs can also be identified: these are morphological and periphrastic causatives. Paramasivam (1979) discusses the contrast between the two. The morphological causatives are distinguished formally by an affix represented by the weak allomorph -vi- (cf. example 11) and the strong allomorph -(p) pi- (cf. example 12):

11. cāttaṇ poṇṇaṇ-ai āṭu-vi-tt-āṇ Sattan Ponnan-ACC dance-CAUS-PST-3SG.M Sattan caused Ponnan to dance.

(Paramasivam 1979: 55)

12. avān pirāmaṇar-kaļ-āl caṭaṅku-kaļ-ai naṭa-**ppi**-tt-ān 3SG.M brahmin-PL-INST ritual-PL-ACC go on-CAUS-PST-3SG.M *He caused the rituals to be performed by the Brahmins.* (Paramasivam 1979: 57)

⁹ In the second group of paired verbs there may be a homorganic nasal preceding the single obstruent (i.e. $v\bar{a}nku$), although its distinguishing role is suspect since it appears in all parts of the verb system. For further discussions from a comparative perspective see Paramsivam (1979: 7–8).

Regarding this third group, Paramasivam (1979: 9–10) states that "there are reasons to suspect that the single/geminated obstruent distinction was made in the affix-initial position at an earlier stage of the language and that the geminated obstruent came to be re-analysed as part of the base". The single obstruent (/k/ or /t/) occurs in the affix initial-position in *cel* while the geminated corresponding /tt/ occurs in the base-final position for *celuttu*, a verb base that ends in an *overshortened u* (*kurriyal ukaram*) which is the same ending that characterises the verbs of the second group (b). The *kurriyal ukaram*, a back high vowel further reduced in length, occurs in phonological contexts in which it is immediately preceded by a single obstruent but not by a single short monosyllable. It elides if followed by an affix beginning with a vowel and it remains if it is followed by a consonant.

The second type, the periphrastic (syntactic) causatives, involve the auxiliary verbs *cey* 'make' (13), *vai* 'place' (14) or *pannu* 'do' (15):

- 13. nān uṇṇ-ai inta pāṭa.tt-ai teri.y-a **vai**-kkiṛ-ēṇ
 1SG 2SG-ACC PROX.DEM lesson.OBL-ACC know-INF place-PRES-1SG *I will make you know this lesson.* (Paramasivam 1979: 63)
- 14. avaļ avaṇ-ai.y ēmāṛ-a.c **cey**-t-āļ
 3SG.F 3SG.M-ACC be disappointed-INF make-PST-3SG.F
 She made him disappointed. (Paramasivam 1979: 71)
- 15. rājā kumār-ai var-a **paṇṇ**-iṇ-āṇ
 PN PN-ACC come-INF do-PST-3SG.M
 Raja made Kumar come.

Today, the conjugational verb patterns are separated into different classes on the basis of the morphophonemic alternations hereto discussed. The number of classes may vary between seven (VII) and thirteen (13). This subdivision into seven (VII) or thirteen (13) classes is based primarily on morpho-phonology and, as Steever (1983: 55) observes, when the contribution of *affective* versus *effective* voice is taken into consideration in the form of the verb class, the number of classes is likely to decrease. It is noteworthy that the subdivision into seven classes (VII), maintained by some authors (i.e. Schiffman 1999), was devised by Karl F. L. Graul (1814–1864), ¹¹ a member of the German Oriental Society, who was also the director of the Leipzig Lutheran mission. Graul arrived in South India in 1849 with the Lutheran mission, followed on the Danish–Hale mission (cf. Neill 1985; Pytlowany 2018), and mastered the Tamil language. This same subdivision was later extended by the authors of the *Madras Tamil Lexicon* (henceforth MTL), to a total of 13 classes on the basis of a more specific morphophonemic alternation. **Table 2** summarises both classifications: Graul (1855: 38–39, = KG) is denoted in bold and in Roman numerals, while MTL (1982 [1924–36, 1939] lxvii) is indicated in Arabic numerals.

Table 2: Tamil verb conjugation.

Weak form								
Present		Past		Futu	re			
I (1) ki(<u>n</u>) <u>r</u>	ceyki(<u>n</u>) <u>r</u> ē <u>n</u>	-t-	ceytē <u>n</u>	-v-	ceyvē <u>n</u>			
-(2) ki $(\underline{n})\underline{r}$	āļki <u>r</u> ē <u>n</u> , āļuki <u>r</u> ē <u>n</u>	-ṇṭ-	āṇṭēṇ	-v-	āļuvē <u>n</u>			
-(3) $ki(\underline{n})\underline{r}$	kol(lu)ki <u>r</u> ē <u>n</u>	- <u>n</u> r-	ko <u>n</u> rēn	-v-	kol(lu)vē <u>n</u>			
II (4) ki(\underline{n}) \underline{r}	ariki(n)rēn	-nt-	arintēn	-v-	arivēn			
III (5) ki(\underline{n}) \underline{r}	ākkuki(<u>n</u>)rē <u>n</u>	-i <u>n</u> -	ākki <u>n</u> ēn	-v-	ākkuvē <u>n</u>			
IV (6) $ki(\underline{n})\underline{r}$	nakuki($\underline{\mathbf{n}}$) $\underline{\mathbf{r}}$ $\underline{\mathbf{e}}\underline{\mathbf{n}}$ (=KG)	the last C doubled	nakkē <u>n</u>	-v-	nakuvē <u>n</u>			
	națuki <u>r</u> ē \underline{n} (=MTL)		națțē <u>n</u>		naṭuvē <u>n</u>			
Middle form								
$V(8) ki(\underline{n})\underline{r}$	ti <u>n</u> ki(<u>n</u>)rē <u>n</u> ,	-ūŗ-	ti <u>n</u> rēn	-p-	tinpēn, tinnupēn			
	ti <u>nn</u> uki <u>r</u> ē <u>n</u>							
-(7) ki <u>r</u>	uņkirēn, uņņukirēn	-ṅṭ-	uņţē <u>n</u>	-p-	uṇpēṇ, uṇṇupēṇ			
-(9) ki <u>r</u>	kēţkiŗēn	-ṭṭ-	kēţţēn	-p-	kēṭpēṇ			
-(10) ki $(\underline{n})\underline{r}$	karki(n)rēn	- <u>rr</u> -	ka <u>r</u> rē <u>n</u>	-p-	karpēn			
Strong form								
VI (11) kki(<u>n</u>) <u>r</u>	tīrkki(<u>n</u>) <u>r</u> ē <u>n</u>	-tt-	tīrttē <u>n</u>	-pp-	tīrppē <u>n</u>			
VII (12) kki(<u>n</u>) <u>r</u> u -(13) irregular	naṭakki(n̪)r̞ēn̯	-nt-	națantē <u>n</u>	-pp-	naṭappē <u>n</u>			

M--1. C----

¹¹Graul wrote *Tamulica seu Opera Praecipua Tamuliensium* (1854–1865), a work in 4 volumes which was published after his death by his student Wihlelm Germann (1840–1902).

There are two particular issues worthy of note that emerge from Graul's classification: firstly, as the starting point from which the MTL developed its classification, hence it represents the contribution made by missionaries to Tamil studies. Secondly, appearing as it did in the 19th century, Graul's classification can be considered the end product of the later missionaries, achieved as a result of the work of their predecessors, as will be discussed in later sections of this paper (cf. § 5). What path did the earlier missionaries follow in their identification and understanding of Tamil verb paradigms? How did they interpret *paired verbs*? How did missionaries describe verbs applying the Latin grammatical framework? Did they have any awareness of traditional Tamil grammar?

The following sections, which demonstrate how earlier missionaries contributed to Graul's classification, provide answers to these questions.

3. Descriptions of the Tamil verb system in the early Tamil grammars

When I refer to Indigenous Tamil Grammatical Tradition (henceforth ITGT) in this paper, this is represented by two texts, namely the *Tolkāppiyam*¹² (henceforth *Tol.*) which describes Old Tamil and the *Naṇṇūl* 'the good book' (ca. 13th century, henceforth *Naṇ.*) which describes Middle Tamil. Both texts explain the written variety of Tamil. The former, the oldest grammatical treatise, was allegedly compiled by Tolkāppiyaṇār between the first and third century C.E. and continued to have pre-eminence above all other grammatical texts (cf. Annamalai 2016). The latter, written by the Jain, Pavaṇanti, "is a judicious accommodation of some features from the Sanskrit tradition responding to change in language and the linguistic milieu of the medieval period" (Annamalai 2016: 725). It became the new standard for the description of Tamil despite never eclipsing the *Tol.* Furthermore, the *Naṇ.* was the grammar to which missionaries had access, as it is evident from Beschi's references to its grammatical framework in his description of the Tamil language, such as when he refers to an opposition identified in the *Naṇ.* to explain the difference between Latin *nomina propria* and *nomina appellativa* (cf. Chevillard 1992: 83).

Other than a mention of the 'fluctuations' that occur in verb forms expressing tense, represented by the diversity of letters placed before word endings, neither the *Tol.* nor the *Nan*. ¹³ explain Tamil tense morphology and verbs are only described in terms of their endings. ¹⁴ With regard to *paired verbs*, the only reference in the *Tol.* is found in its distinction between *itan pālān* and *piṛan pālān* (sūtra 243), which in the *Nan*. are rendered as *ēval viṇai* and *piṛa vinai* (Subramanya Sastri 1934: 146). The terms *tan viṇai* (*self-act* verbs) and *piṛa viṇai* (*other-act* verbs) appeared for the first time only in later commentaries on these grammars in order to differentiate verbs with a single obstruent from verbs with a geminated obstruent (Paramasivam 1979: 34–35; also Chevillard 2008: 414).

¹²It is a grammatical treatise divided into three books which comprises 1300 sūtras. The first book deals with the sound of the Tamil language and the phonological changes which sound undergoes in *sandhi* (internal and external), the second book deals with words, and the third with the language of poetry.

Indeed, as Chevillard (1993: 306) underlines "... la morphologie verbale temporelle ne sera pas exposée dans le Tolkāppiyam et que nous devrons nous contenter d'explications sur le finales". [... the temporal verb morphology will not be exposed in the Tolkāppiyam and that we will have to content ourselves with explanations on the finals].

¹³ Considering the translation of Cēṇāvaraiyar by Chevillard (1996), in *Tol.* verbs (*viṇai iyal*) are discussed in the second book on *col* (words) (sūtras 198-248) where there is also a reference to particles related to tenses (*kālam*), namely past (*iṛappu*), present (*nikal*), and future (*etir*) (*Tol.* sūtras 198, 199, 200) also mentioned in the book on *iṭaic col* (i.e. Chevillard 1996: 387, § 250). If compared with the *Tol.*, the *Naṇ*. has a few more details about verb conjugation (cf. Subramanya Sastri 1934: 168). A few relevant remarks are also found in the commentary on *Tol.* composed by Cēṇāvaraiyar (13th–14th cent.) (cf. Chevillard 2013: 16–17).

By contrast, the Latin and Greek grammatical traditions, as does Sanskrit Astādhyāyī (cf. Klaiman 1991: 82), not only specify information about verb conjugations, but also provide rules for the selection of active, as opposed to middle, voice inflections. In fact, in Indo-European languages like Sanskrit, and indeed Greek, the middle voice has semantic functions consistent with affectedness. In addition, it is also associated with neuter verbs, which are considered as special subcategories of the intransitive verbs, semantically inchoative and alternating formally with the related transitive, or are associated with non-eventuality, non-punctual, or atelic temporal-modal senses (Klaiman 1991: 103). Similarly, in some Latin grammars, special emphasis is placed upon media tantum (middle-only) class as opposed to activa tantum (active-only) class: the former consists of verbs that are characterised as non-active in form, but which have an active meaning. They are referred to as deponents and cannot be marked by the passive inflection (Klaiman 1991: 78, 97). This matter could be expanded further but a deeper examination falls beyond the scope of this paper. Suffice to say that, with regard to the treatment of verbs in Tamil and the identification of paired verbs, we can confidently state that missionaries were better informed by their Western grammatical framework than by the Tamil grammatical tradition since the latter neither differentiates between paired verbs and morphological causatives, nor does it provide a paradigm of verbs declension on the basis of the tense morpheme.

4. The missionaries' grammatical model of reference for their description of Tamil

In terms of a model of reference for these early missionaries, I considered João de Barros' grammar (1540) for HH's *Arte* (MS no. 1, **Table 1**) as suggested by author at the beginning of his text where he points out to the reader the need to be familiar with Barros or any Latin grammar in order to navigate his Tamil grammar (cf. Muru 2018: 15). Indeed, examining his technical terminology and the conceptual framework, it seems that HH made use of Barros' theoretical framework and process (cf. Appendix 1) in devising his Tamil grammar, although he did not strictly follow the structure of Barros' grammar. Additionally, HH's *Arte* shares some features with manuscript no. 2 (Ind. 188) in **Table 1**. Both authors itemise declensions for nouns, both identify different conjugations in Tamil (nine conjugations in HH, five conjugations in Ind 188), both include categories such as *personal* and *impersonal verbs* absent in later works and employ technical terms such as *especies* (species)¹⁵ and *creçencias* (augments), ¹⁶ largely found in Barros' text. Based on the metalanguage used in the description of Tamil I am inclined to consider manuscript no. 2, or at least its contents, to be older than manuscripts no. 3–6 in **Table 1**. However, this hypothesis of dating for manuscript no. 2 requires further investigation. ¹⁷

Indisputably, manuscripts no. 1 and no. 2, and manuscript no. 3 in part, differ from the other missionary grammars. This is likely due to the innovation introduced by the *Ratio studiorum* in 1599 which promoted the Latin grammar composed by Manuel Álvares (1526–1582) *De Institutione Libri Tres* (1572), and in particular its abridged version (*Ars*

¹⁶ The same terminology is also found in manuscript no. 3 in Table 1 which is GA/PB's *Arte* while it is never used by BC who uses the verb *acrescentar* (augmenting, adding, increasing) rather than the noun *creçencias* (augments, additions).

This term is typical in the Latin grammatical tradition, it is attested in different Latin authors like Donato, Prisciano, Carisio, to mention but a few. This term is used in HH for discussing sub-classes of the main parts of speech, among which the verb conjugations of Tamil (see § 5.1).

¹⁷ The stamp found in the title page suggests that the manuscript came into the collection not earlier than the first half of the 18th century. For further details on this manuscript see *BnF Indien 188: On Tamil Language* by E. Francis & C. Muru available at https://tst.hypotheses.org/426.

Minor, 1573), as a textbook for teaching Latin language in Jesuit colleges. Subsequently, Álvares' grammar became one of the texts most widely translated into different European languages (Fernandes 2007; Gómez Gómez 2002: V; Springhetti 1961–62: 287), and was adapted to the study of non-European languages in various parts of the world, becoming the principal reference model for most missionaries (Assunção & Toyoshima 2012; Fernandes 2015; Muru 2020).

As stated above, all these grammars (cf. **Table 1**) are representative of the earliest versions of Tamil descriptions which today exist in the form of autograph, or copied, manuscripts and printed books among which CJB's grammar represents a turning point, since he was the first missionary to attempt to combine and find the links between the ITGT and Western Grammatical Tradition (henceforth WGT).

A detailed reconstruction of the circulation and diffusion of these manuscripts within the missionary community is beyond the scope of this paper; nevertheless, a few facts about the interweaving of these grammatical works in the missionary network (some of which were already addressed by Muru 2018; 2020) might provide a better appreciation of how the knowledge and description of Tamil (verbs) progressed.

There are two kinds of references which offer evidence of the connections among these works. The first is a direct reference to an author/work by another author. For example, in two manuscripts of BC's Arte and in the preface in PB's Arte there are (not entirely favourable) references to GA's work (see Muru 2018: 15; Muru 2020: 60–63). Connections are also evidenced by indirect references, such as those inferred by comparisons of the contents of the manuscript, as when Jeyaraj (2010) demonstrates that BZ's grammar relied a lot on the copy of BC's work – even though the Tamil verb forms found in BZ's text are unique when compared to the other manuscripts (cf. Appendix 3). Indeed, in reproducing BZ's grammar, Jeyaraj (2010) identifies all instances of BZ copying from BC's manuscript without even mentioning it. These connections highlight how the first contribution of Westerners to Tamil studies, made by Jesuits, also found a following among the networks of Protestant missionaries, who relied on the Jesuits' work for their translations of religious books (cf. Israel 2011; Muru 2019). As such, for manuscripts no. 3 and no. 4 (cf. **Table 1**), and indirectly also for manuscript no. 5 (cf. **Table 1**), ¹⁸ Álvares' text offers the best reference model, extended by missionaries to describe the Tamil language (cf. Muru 2020). Appendix 1 compares Álvares's (1573) table of contents with the manuscripts no. 3–5 (cf. **Table 1**) highlighting the similarities between Álvares' content and organisation and those of the missionary grammars.

As already mentioned, manuscript no. 6 stands apart, CJB being the first to have worked to establish a theoretical connection between ITGT and WTG. Manuscript no. 6 also marks the differences between these manuscripts and those for which Barros (1540) can be considered as a model of reference (cf. manuscripts no. 1 and 2). Since, however, the detailed analysis of the application of Western or Indian grammatical frameworks is not the focus of this paper, this aspect will not be discussed further. Germane to this paper is specifically the treatment of verbs in both traditions, through which the principle behind missionaries' classifications of Tamil verbs can be better understood, and to which I will return in the conclusions, having first discussed in detail how missionaries classified Tamil verbs.

¹⁸ As per manuscript no. 5 (cf. Table 1), Álvares (1573) should still be taken as model of reference but not as the direct source who inspired BZ, but rather the model of reference for the grammar that BZ worte (see Jeyaraj 2010). In so doing he extended it in some areas and elaborated on some of BC's interpretations (*infra*).

5. The description of verbs in the early missionary grammars of Tamil

Each of the following sub-section discusses in detail how the missionaries, analysed in this study, classified, and understood Tamil verbs. A comparison of their descriptions highlights the progression the missionaries made in their understanding of Tamil verb paradigms and *paired verbs* (see also Chevillard 2021: 25–29)– which will be further discussed in the conclusion –, and it clearly reveals how much the classification of Tamil verbs provided by later descriptors like Graul owed to these early missionary descriptions.

5.1 Tamil verb conjugations and paired verbs in HH

HH identified three main groups of verbs on the basis of the present tense morpheme (cf. Appendix 2, section A). The first group included verbs ending in quiren (-kkir-ēn) – the present tense morpheme with the geminated velar stop -kkir, to which I refer as TYPE A. The verbs of the second group, representative of TYPE B, that "do not have most of the time either -qui (kk) or -qui (k) before the -RRen" (Hein & Rajam 2013: 137), evidence the present tense morpheme typical of spoken Tamil –variety A in Chevillard's triglossia figure-, where there is assimilation and reduction of the morpheme -kkir (cf. Schiffman 1999: 51–57). The final group of verbs that end in guiren (-kir-ēn), thus corresponding to the present tense morpheme with a single obstruent, is representative of TYPE C. However, in order to detail the observed variation that occurs on the verb stem and in the tense morphemes, HH was compelled to subdivide these groups further. Consequently, for each group (TYPE 'X'), HH made three sub-groups to which he refers as ' n^x CONJUGATION' for a total of nine conjugations (Cf. Chevillard 2021: 9-10, for a discussion on tenses and subtenses in HH). All the verb forms listed by can be found in Appendix 2, section A: they correspond to a specific verb class. As such, TYPE A mainly includes strong verbs, TYPE B includes weak verbs along with a few exceptions of irregular verbs, while TYPE C has middle and weak verbs, as well as two strong and two irregular verbs.

In his identifying of these three groups and the nine conjugations, HH was constrained in two separate ways: firstly, he had to identify conjugations in Tamil comparable to those in Latin or Portuguese but found that he could not rigidly apply the Latin model since Tamil verbs do not show variation in their endings, but rather demonstrate "internal fluctuation" (cf. § 3). Secondly, he was compelled to explain and organise the variation occurring in the suffixation of tense morphemes to the verb stem. These different exigencies led HH to separate the Tamil verb paradigm into nine different conjugations.

In addition, applying the Latin grammatical framework and following Barros (1540: ff. 19r–v), HH also differentiated between *personal* and *impersonal* verbs. ¹⁹ The latter, in

¹⁹Barros (1540: ff. 18r-v) states that Latin has verbs divided into *Personal* and *Impersonal* which all have eight acidentes: genero, especial, futura, tempo, módo, pessoa, numero, coniugaçam. The personal verbs have five genders (active, passive, neuter, common, and deponent) while the Portuguese language only has two of these: the active and the neuter. The active verbs are those which can be converted into the passive mood and through which we define those activities which pass into another thing which are encoded by the accusative case. By contrast, the *neuter* verbs (in Portuguese) are those which cannot form the passive and whose action does not pass into another thing, thus I stay, I go, I come, I remain. With regard to the Impersonal verbs, Barros (1540: 19r) states that "Chamam os latinos verbo Impesoál, todo aquelle q(ue) se coniuga pelas terceiras pessoas do número do singulár, e nam tem primeira ne segunda pessoa. Estes verbos impesoáes, sam em duas maneiras, a hũus chamama da vóz autiva, e outros da vóz passiva ... os verbos impesoáes da vóz passiva, açerca dos latinos sempre denótam auçam co generalidade de obrar: e própriamente vem de todo los verbos neutros.ausolutos". [Latins call impersonal those verbs which are conjugated from the third person singular and lack the first and second person. These impersonal verbs may be of two kinds: we call one (of these kinds) active voice, the other - passive voice. ... The impersonal verbs of the passive voice, among Latins, always denote action with a generalisation about the action (obrar) and they are properly derived from the neuter verbs. Absolutes. Translation from Portuguese into English is mine] (Barros 1540: 19r).

either the active or passive voice, is used both in the singular and in the plural. Thus, HH recognised two types (species) of impersonal verbs. The first of these includes forms only derived from the third person singular of the Tamil personal verbs with nine conjugations, while the second type includes verbs corresponding to the inherent *active tantum* (only active) (Klaiman 1991). Therefore, as shown below, HH distinguished the Tamil verbs without a paired counterpart, belonging to the 11th class – with the exception of examples (e) and (f) which are in both the 11th and 4th class:

a.	teriquidu, teri-kkir-atu, 'it strikes and flies	off' 11th
b.	codiquidu, koṭi-kkiṛ-atu, 'it boils'	11th
c.	uluquidu, ulu-kiṛ-atu, 'it decays'	11th
d.	erhuquidu, eṭu-kkiṛ-atu, 'it raises'	11th
e.	eriquidu, eri-kkir-atu, 'it burns'	11th/4th
f.	verhiquidu, veṭi-kkiṛ-atu, 'it bursts'	11th/4th
g.	coluvidu, no Portuguese gloss	not identified

The more noteworthy observations – HH's discussions of the passive voice – are detailed in the following sections. He states that no passive exists in Tamil but "in some of the conjugation there is a way of speaking that is almost like the passive" (Hein & Rajam 2013: 211). He is referring here to verbs in the *affective* voice. Indeed, he was unable to identify this kind of 'like passive' for all the conjugations, but only for some verbs of the 3rd, 4th, and 5th of HH's conjugations corresponding to TYPE A and TYPE B respectively. These three sub-groups of verbs, as highlighted above, include verbs belonging to the 11th class (*effective*) which enter in HH's 6th conjugation or in HH's second type of the 5th conjugation when they are 'like passive', meaning when they are of the 4th class (*affective*). In conclusion, HH differentiated the verbs according to the variation in the agentivity which characterises the subjects of (some) verbs belonging to the 4th and 11th classes respectively.

5.2 Verb conjugations and paired verbs in MS Ind 188

As already stated, the author of MS Ind 188 (manuscript no. 2) – as did HH – differentiated between *personal* and *impersonal* verbs. He, however, only identified five conjugations. He found that there is no passive in Tamil, although there are some verbs through which it is possible to derive it (i.e. *paţu* 'to suffer' when added to the infinitive).

However, with regard to the verb paradigm (cf. Appendix 2, section B), he went further than HH. He not only reduced the number of conjugations but also made almost every conjugation correspond to a specific verb class. In fact, apart from the 1st conjugation which includes strong and weak verbs, all the others include verbs belonging to the same class. Thus, the 2nd conjugation includes strong verbs, while the remaining conjugations include weak class verbs. Furthermore, he also clearly states that some verbs cannot be included in any conjugation. These are the verbs belonging to the 7th, 8th, and 13th classes.

As HH did, the author of MS Ind 188 identified the conjugations on the basis of the final ending of the verb stem when it precedes the present tense morpheme. Thus, verbs of the first conjugation have -i, -ai, and -a as the final sound of the verb stem. In the identification of this first conjugation, the past tense morpheme is not included as a selective criterion since it varies among the verbs included in this conjugation. ²⁰ By contrast, past tense

 $[\]overline{^{20}}$ In fact, verbs of the 11^{th} class have the geminated -tt- in the past tense, those of the 12^{th} and 4^{th} class have the allomorph -nt-, while those of the 5^{th} class have the allomorph - $i\underline{n}$ -.

allomorphs are used in the identification of the 3rd and 5th conjugations for which all the verbs form the past in *-nt-* (i.e. *uri-tal*, 'to peel') and *-in-* respectively (i.e. *ettu-tal* 'to inveigle, lure, cheat'). With regard to the 4th conjugation, once again the only valid criteria are the sounds which precede the present tense morpheme (i.e. *lu*, *ļu*, *ru*) rather than the past tense allomorphs which vary greatly. Indeed, the verbs included in this conjugation belong to different classes, specifically the 2nd, 3rd, 4th, and 5th, and form the past with different allomorphs, namely *-nt-* for verbs in the 4th class (i.e. *akal-tal* 'to leave, vanish'), *-t-* for verbs of the 2nd class (i.e. *kolļu-tal* 'to buy, size'), and *-in-* for verbs in the 5th class (i.e. *pal(u)ku-tal* 'to increase in measure, to multiply'). Finally, as was the case with HH and for later missionaries discussed in the following sections, the author of MS Ind 188 based the verb paradigm exclusively on formal aspects. The semantics of the verb, as well as the arguments that a verb may take, is not remotely considered.

In terms of the kind of verb stem, the author of MS Ind 188, as well as HH did (cf. Hein & Rajam 2013: 99; Vermeer 1982: 47) identified the morphological causative -(p)pi- and -vi-, and interpreted it as deriving from the future tense and as being used for generating compound verbs:

a. "há verbos compositos que fazem executar a sua significação e componse da 1à pessoa do futuro do Indicativo, mutando o, en, em, icren, ut விசுவசிப்பென eu crerey, விங்வாசிப்பிக்கிறென fazo crer; செய்வென eu fazerey, செய்விக்கிறென, fazo fazer, ou mando fazer e vao pella prima coiugação" (MS Ind 188, f. 41r).

[There are compound verbs which make [someone else] execute their meaning, [the action expressed by the verb]. They are composed of the first person of the future of the Indicative. changing en, in, icren, as in <code>vicuv[a]cippēn</code> 'I will believe', <code>vicuvacippikkirēn</code>, 'I make someone to believe'; <code>ceyvēn</code>, 'I will do', <code>ceyvikkirēn</code>, 'I make someone to do, I order someone to do'. They are in the first conjugation.]

The morphological causatives, formally distinguished by an extra affix and considered *compound verbs*, are compared to other compound verbs with a similar causative meaning (verbs meaning "fazer que outrem faça" ['make others do'] (MS Ind 188, f. 41r), formed by adding a particle *-tugren-*, that results in the geminated obstruent (*-tt-*) occurring in the base-final position of *affective* verbs followed by the present tense morpheme (*-kir-*) and the PNG marker (*-ēn_*). Indeed, the listed verb forms are *paired verbs* of *affective* versus *effective* voice, like *naṭa* (12th) vs. *naṭattu* (5th) corresponding to the second class of basic Tamil verbs identified by Paramasivam (1979: 11) and included in the third group of *paired verbs*, characterised by a single obstruent in the affix-initial position but with a geminated obstruent in the base-final position (Paramasivam 1979: 9–10).

5.3 Verb conjugations and paired verbs in GA/PB

GA/PB's *Arte* does not provide a detailed description of verb conjugations, unlike previous authors, but instead simplifies his account into two main groups (cf. Appendix 2, section C): verbs which form the present tense with a geminated voiceless obstruent (-kkir) with a future tense in -(p)p-, and verbs which have a single voiceless obstruent (-kir) with a future tense in -v-: thus, strong and weak verbs.

Indeed, the author states that Tamil differs from Latin, since it does not multiply the conjugations according to variety of second person in the present and infinitive, but rather there exists one sole conjugation since all verbs end in -ay in the 2nd person, and in

-a in the infinitive. This single conjugation includes all verbs, including those that have passive, neuter, simple, and compound meanings:

b. "...pella qual tambem vao todos os Verbos de significação passiva, neutra, com [vê] simples, e compostos." (Cod. Orient. 283, f. 33v, lines 12–13).

[...within which all the verbs with passive sense are also included, [that means] neuter, both simple and compounded.]

GA/PB also states that it is impossible to give a general rule for the formation of the past tense that includes all verbs, since there is substantial variation, above all among verbs ending in *cradu* (*-kkiṛatu*).²¹ Consequently, he does not discuss how the past tense is formed and this decision is also motivated by the fact that his *Arte* was only intended to be a practical tool for teaching the language to beginners rather than to be a theoretical grammar. Despite this, AG/PD deems it useful to add some information about verbs, for the sake of clarity and out of respect for the structure of Latin grammar:

c. "Dos quais com tudo daremos alguã noticia, naõ por necessid(ad)e, mas pera m(ai)or clareza; e pera nos conformarmos cõ a arte Latina, conforme a qual poremos tambem algũ exemplo de Verbo impessoal; e algũs Verbos anomalos, e defectivos, q(eu) não vão por leis de conjugação". (Cod. Orient. 283, f. 33v, lines 14–18).

[Of which, despite everything, we will give some information, not because it is necessary, but only for more clarity and in order to conform with the Latin *arte*. On the model of it [the Latin Arte], we will also make some examples of Impersonal Verbs, and some Anomalous and defective Verbs, which do not follow the law of the conjugation.]

With regard to *paired verbs*, it seems to me that AG/PB was acquainted with HH's *Arte*, or at least with a Tamil grammar where the *affective* verbs were considered 'like passive'. Furthermore, he compares them to the verb *comunnia* of the Latin language which can have both the active and the passive *signification* as shown by the following quote:

- d. "Deixando oppinioes se Verbos em <u>gradu</u> nacidos de outros em <u>cradu</u> tem lingoagem passiva, ou não? porey os passivos, e modos delles mais ordinários, deixando os outros em <u>gradu</u> pera os Verbos neutros, ou comus, quaes cuido que elles são.
 - ... somente advirto que há algu's Verbos em <u>gradu</u> que tem significação passiva, estes sao cômummente nacidos d'outros Verbos em <u>iccradu</u> que tem a mesma significação activa." (Cod. Orient. 283, f. 34r, lines 21–24; f. 34v, lines 34–36; f. 35r, line 1).

²¹ "Mas como os verbos em <u>cradu</u> são muito vários, assi os præteritos, a formações delles nem se pode dar regra geral, que valha em todos" (MS Cod. Orient. 283, f. 40v, lines 4–6). [But since the verbs (ending) in *cradu* vary a lot, as do their preterites, it is not possible to provide a general rule under which to include all (the verbs)]. GA/PB states that more details about their formation will be given in the treatise on the preterite that, however, is not included in manuscript Cod. Orient. 283.

[Leaving aside [those] opinions [which wonder] if the verbs in *gradu* (-kiratu) born from others in *cradu* (-kkiratu) have passive significance or not, I will put the passives, and the most ordinary moods, leaving aside the others in *gradu* (-kiratu) [and including them] in the Neuter verbs, or common verbs, as I consider them to be.

... I only warn that there are some verbs in *gradu* (-kiratu) which have passive meaning, these are commonly derived from other verbs in *iccradu* (-ikkiratu) which have the same *active* meaning.]

Thus, rather than drawing a distinction between *personal* and *impersonal* verbs as HH and MS Ind 188 did, AG/PB introduces a *new* Latin category in the description of Tamil, the *neuter* verb and consequently a *new* term, *active*. He also clearly states that the verbs in *gradu* (*affective*) are derived from those in *cradu* (*effective*), the latter being considered as *neuter*, rather than passive. Finally, AG/PB also takes some *paired verbs* with one being the causative form of the other, derived throughout the addition of the suffix *-ttu*, as in his example *paṭu-tal* (6th) and *paṭuttu-tal* (5th). In the section where he explains causative verbs, he enumerates three kinds of causatives, all morphologically derived throughout the addition of suffixes such as *vi*, *pi*, and *tu*:

e. "Verbo acabado em <u>cradu</u> podeselhe acrecentar hum <u>pi</u> ou <u>vi</u> antes do <u>cradu</u>. E aos acabados em <u>gradu</u>, podeselhe acrecentar hum <u>tu</u> antes do <u>gradu</u>. E co as taes adições ficao significando fazer fazer aquillo, que os simples significam. Como agora <u>vasicren</u> quer dizer leo, ponhaolhe hum <u>pi</u> antes do cren, fica visipicren, faço ler. <u>Parugren</u> significa padecer, ponhaolhe hum <u>tu</u> antes do <u>gren</u> fica parutugren faço padecer". (Cod. Orient. 283, f. 39r, lines 2–9).

[To verbs ending in *cradu* (-kkiratu) it is possible to add a *pi* or *vi* before the *cradu* (-kkiratu). To those ending in *gradu* (-kiratu) it is possible to add a *tu* before the *gradu* (-kiratu). And with this addition [or augmentation] they come to mean to do, to do what the simple [verb] means. Like now *vasicren* (vācikkirēn) means 'I read', if we add a *pi* before the *cren* (-kirēn), it becomes *vicipicren* (vācippikkirēn), 'I make read'. *Parugren* (paṭukirēn) means 'to suffer', if we add a *tu* before the *gradu* (-kiratu) it becomes *parutugren* (paṭuttukirēn), 'I make suffer'.]

As the following sub-sections reveal, the next two authors, BC and BZ, do not add further comments to what GA/PB had earlier stated. Indeed, following his interpretation, they simply described the verb paradigms in more detail, even though they referred to *rules* rather than conjugations because, in just as GA/PB did, they only recognised one single conjugation. For this reason, GA/PB can be considered the first missionary grammar where an important change of the categorisation of Tamil verbs occurs: he rejected the idea of conjugation as intended in the Latin grammatical framework for the Tamil verb system, and instead identified a different kind of verb stem (strong, weak, and middle). He also introduced the idea of the *neuter* which has the *affective voice* defined above, which thus, enters into opposition with an *active voice* (which corresponds to the *effective voice* as explained above).

5.4 Verb conjugations and paired verbs in BC and BZ

As highlighted in the previous section, the texts of BC and BZ share similarities above all in their discussion of the verbs. Given this, I have considered them as a single work,

²²One cannot be sure that he is referring to HH specifically, however the link is evident, since HH treated what GA/PB defines neuter as passive verbs.

since the sole differences between the two authors are the different verb forms used for explaining the rules, the different number of rules for the formation of the preterite in Tamil found in BZ, compared with those outlined in BC, and in some misinterpretations BZ made while he was relying on BC's *Arte*. ²³ As already mentioned, this is due to the fact that, as Jeyaraj (2010: 20) states, "BZ made use of Da Costa's Tamil grammar entitled *Arte Tamulica*" while composing his *Grammatica Damulica* printed in 1716. For this reason, I will refer exclusively to BC's work and will mention BZ only when differences occur, or it is relevant to the discussion.

BC deals with Tamil verb conjugations and *paired verbs* in the *Third Title*, after having explained, through the verb *vicuvāci-ttal* ('to believe'), the only declension existing in the Tamil language. In this section, BC explains how to form past and future tenses, the imperative mood, and noun genders. He starts by declaring how forming the past tense is awkward and confusing for beginners because verb conjugations cannot be reduced to one general rule. Thus, in order to overcome this difficulty and to limit problems for beginners, he provides just twelve *simple* rules (rather than conjugations) for forming the preterite, leaving aside the usage of the language and all other information necessary for the Tamil teacher to know about Tamil verbs:

f. "Daõse alguãs regras per preteritos Futuros Imperativos e plurais dos pretéritos. He materia esta assâs embaraçada e cõfuza p(ar)a os Principiantes porq(ue) pella variedade de preteritos se naõ pode todos reduzir a regras geraes, se bem despois de poucos annos de exerciçios se vem a cair sem se sentir tanto, nesta materia q(ue)em nenhu' ou poucos preteritos se erra. Nos p(er)a q(ue) nella digamos alguã cousa e por evitar por todos os preteritos, no vocabulario, formaremos alguas regras gerais, ou quase gerais Remettendo os preteritos que nellas senaõ cõprenderem, ao Vocabulario, e deixando muitas particularidades ao uzo por naõ cauzar confuzaõ aos principiantes". (MS 50, f. M-34–42, Left column, lines 9–28)

[Wherein some rules are given for preterite Future Imperatives and plurals of preterites.

This is a rather awkward and confusing matter for Beginners, for due to the variety in preterites we cannot reduce them all to general rules, although after a few years of exercises one comes to use them properly, so that one will eventually barely misuse them, if at all. We will state a few things so that we do not need to have all preterites in the vocabulary, we will form some general rules or quasi-general. We will place the preterites not included in (these rules) in the vocabulary, leaving their many particularities to usage, so as not to create confusion among beginners.]

Essentially, BC started from the key distinction identified by GA/PB (cf. Appendix 2, section D), namely that the 1st rule involves verbs ending in *cradu* (*-kkiṛatu*) which correspond to the class of the strong verbs, while the 2nd rule regards weak – those verbs ending in *gradu* (*-kiṛatu*). It is hardly surprising that BC abandoned the intention

²⁴ Jeyaraj has identified in the British Library (OC Sloane 3003) an incomplete manuscript of BC's *Arte* which is mentioned in Ayscough's catalogue (1782: 710): "3003: Arte Tamulica; i.e. Grammatica Linguæ Malabaricæ, verbis Lusitanicis explicate".

²³ Comparing BC's and BZ's works, one may notice that the latter inserted new verbs forms and the following changes when discussing about the *formation of Tenses* (Jeyaraj 2010: 125–134): BC's 10^{th} rule becomes the 6^{th} , the 11^{th} rule becomes the 7^{th} , the 12^{th} rule becomes the 8^{th} . Furthermore, BZ misinterprets BC's second exception of the 3^{rd} rule and the 4^{th} and 5^{th} rules that BZ differentiated on the basis of the endings in e and \bar{e} ; e0 and e0, while BC was focussing on geminated vs. single voiceless velar obstruent (for BZ's verb rules see Jeyaraj 2010: 128-129).

identify different conjugations in Tamil, suggesting instead only *rules* for the formation of different tenses and moods. In reality, BC was reproducing and, at the same time, extending what GA/PB included in his Arte, a grammar with which BC (or the copyist of his Arte) seems to have been well acquainted. As already discussed in Muru (2018, 2020) and stated above (cf. § 4), BC mentions GA's Arte on several occasions in his work, at times critically. However, it is evident that he agreed with GA that there is no variation in the final declension of Tamil verbs, that thus there are no conjugations, and that some verbs are derived from others. To what extent then, did BC extend GA's grammar? He explored the variation, identified but not explained by GA, which occurs in the formation of the past tense – to which the 3rd –12th rules are devoted. These rules are identified on the basis of the final sound of the verb stem (V or C) that precedes the present tense morpheme and on the type of present tense morph, with or without gemination of the obstruent. These two parameters are also combined, as was the case in HH, with the type of past tense allomorphs taken by the verb. Nevertheless, the number of verb classes identified and the divisions into classes vary; and BC's verb classification is better defined than GA/PB's. The rules outlined by BC are as follows:

```
•3<sup>rd</sup> rule = verbs ending in a + kkir \rightarrow pst: nt
                                                                                   includes verbs of the 12th class
                                                                                   includes irregular verbs (13th), 4th
•4<sup>th</sup> rule = verbs ending in \bar{e}/\bar{o} + kir \rightarrow
                                                                pst: nt
                                                                                   and 5<sup>th</sup> class
                                    but \bar{o} + kkir \rightarrow pst: in
•5<sup>th</sup> rule = verbs ending in u + kir
                                                                                   includes verbs of the 5<sup>th</sup> class
                                                                pst: in
•6<sup>th</sup> rule = verbs ending in lu + kir \rightarrow •7<sup>th</sup> rule = verbs ending in lu + kir \rightarrow
                                                          \rightarrow pst: nt
                                                                                   includes verbs of the 2<sup>nd</sup> class
                                                                                   includes verbs of the 3<sup>rd</sup> and 5<sup>th</sup>
                                                                pst: nt
                                                                                   class
                                                                                  includes irregular verbs (13th), 4th
•8<sup>th</sup> rule = verbs ending in ru + kir
                                                          \rightarrow pst: \underline{nr}, \underline{nn}
                                                                                   and 5<sup>th</sup> class

    → pst: tṭ
    → pst: iṇ

•9<sup>th</sup> rule = verbs ending in tu + kir
                                                                                   includes verbs of the 6<sup>th</sup> class
•10<sup>th</sup> rule = verbs ending in \dot{n} + kir
                                                                                   includes verbs of the 5<sup>th</sup> class
                                                                                   (neuter\ verbs = effective)
•11<sup>th</sup> rule = verbs ending in r + kkir \rightarrow pst: tt, rr
                                                                                  includes verbs of the 6<sup>th</sup> class
```

The final rule (12^{th}) is connected to the 10^{th} , since it includes all the *active* (of the) *neuter* forms given under the 10^{th} rule.

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•12<sup>th</sup> rule = in kkir = active verbs (= affective) includes the corresponding pairs of verbs of the 5th class (effective)
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What emerges thus far is that in BC verbs are classified, as in GA, largely according to morpho-phonemic criteria, taking into consideration:

- 1) verbs which differentiate between geminate (*cradu*, *-kkiṛatu*) versus non-geminate (*gradu*, *-kiṛatu*) present tense morpheme;
- 2) the final sound of the verb stem;
- 3) the past tense allomorphs taken by verbs;

but he also took into account verb diathesis inasmuch as:

4) verbs in the 12th rule are a counterpart to those in the 10th rule, the former being *active* and the latter *neuter*.

If one excludes HH, all the manuscripts discussed so far differentiate between *active* and *neuter* based on a morpho-phonological criterion (gemination vs. non-gemination). However, when discussing the *causative* in addition to the *passive*, their differentiation is also based on semantic criteria.

With regard to the opposition within *paired verbs*, as in HH, it is perceived as a contrasting of verbs in the *active* and 'like passive' voice, presumably taking into consideration both the formal structure and the meaning:

g. "Da Voz Passiva

Não fallando nos verbos passivos que há nesta lingoa acabados em *gren*, q(ue) como não tem regra certa só cõ o uzo se podem aprender, como são de முகிகிறென *eu acabo*, முகிகிறென *eu sou acabado*; de முறிக்கிறென *eu quebro*, முறிகிறென *eu sou quebrado*, e outros muitos. Há outros compostos e propriamente passivos." (MS 50, M-34–36, Left column, lines 4–13)

[Of the Passive Voice

Leaving aside the passive verbs in this language ending in *gren* (-kiṛēṇ), which, as they have no certain rule, can only be learned by use, as is the case of முகிக்றென (mukikkiṛēṇ) I finish, முகிகிறென (mukikiṛēṇ) I am finished; from முறிக்கிறென (muṛikkiṛēṇ) I break, முறிகிறென (muṛikiṛēṇ) I am broken, and many other modes; there are other [verbs] that are composite and passive proper.]

In this respect, it is worth mentioning that BZ stated that the formation of the passive voice is twofold: passives which occur without adjustments within the same verbs and passives that are formed through the compounding of the infinitive with the verb *paṭu-tal* (to suffer). The *paired verbs* are listed as the first kind of passive that "must be learnt, not by many rules, but from practice" (Ziegenbalg 1716: 80–81; Jeyaraj 2010: 111):

(h)	"முகிககிறென	Finio	[mukikkiṛēṇ	I complete [something]
	முகியிறென	Finior	mukiyi <u>r</u> ē <u>n</u>	I get completed
	முறிககிறென	Frango	murikkirēn	I break
	<u>முறி</u> கிறென	Frangor	muṛikiṛēṇ	I get broken
	அழிககிறென	Corrumpo	alikkiṛēṇ	I destroy
	அழிகிறென	Corrumpor	a <u>l</u> iki <u>r</u> ē <u>n</u>	I get destroyed [i.e., I perish]
	நசுககுகிறென	Contero	nacukkukiṛēṇ	I crush [something]
	நசுஙகிறென	Conteros	nacuṅkiṛēṇ	I am crushed
	வளைக்கிறென	Flecto	vaļaikkirēn	I bend [something]
	வளைகிறென	Flector	vaļaikirēn	I am bent [i.e., I bend]
	செரிககிறென	Concoquo	cerikkiṛēṇ*	I digest
	செரிகிறென	Concoquor	cerikiṛēṇ*	I digest [myself]
	எழுபபுகிறென	Excito	eḷuppukiṛēṇ*	I arise
	எழுமபுகிறென	Excitor"	eļumpukiŗēn	I am caused to arise [i.e., I stand up]
	(Ziegenbalg,		Jeyaraj 2010:	111, *apart from the vowel lenght which
	1716: 80-81)		has been adde	ed, these transcriptions respect what is
			written in BZ's	s original book and differ from Jeyaraj]

Morphological causatives are explained in BC in the section devoted to verb composition:

(i) "3º se fâz cõ o verbo do mesmo modo, ut விசுவாசங்கொள்ளுகிறென Eu creyo. Esta composição se acha as vezes cõ significação passiva, ut அடிகொள்ளுகிறென sou espancado, mas õ ordinario he significação activa, ut மெய்கொள்ளுகிறென creyo, செயங்கொண்டென venci நம்பிக்கைகொள்ளான não confia, etc. 25 Tembem da p(rimei)ra pessoa do futuro affirmativo de qualquer verbo se formão outros effectivos [emphasis mine] mudando o பென, em ou வென em பிக்கிறென, et விக்கிறென, e signifição [o fazer] exercitar por outro tem a significação do verbo simples ut விசுவசிப்பிக்கிறென Eu faço crer அழைப்பிக்கிறென Eu faço chamar. செய்விக்கிறென eu faço fazer etc. E vem a formar outros verbos q(ue) tẽ todos os [modos], tempos e pessoas." (MS 50, M-34–37, Left column, lines 7–31)

[3rd [composition of verbs] is made with the verb of the same mode, as in விசுவாசங்கொள்ளுகிறென (vicuvācankoļļukiṛēṇ) 'I believe'. This composition can sometimes be found with the passive signification [meaning], as in டிகொள்ளுகிறென (aṭikoḷḷukiṛēṇ) 'I am [beaten]', but (the most common) is the active signification [meaning], as in பெய்கொள்ளுகிறென (meykoḷḷukiṛēṇ) '(I) believe', செயங்கொண்டென் (ceyrikoṇṭēṇ) '(I won)'; நம்பிக்கைகொள்ளன் (nampikkaikoḷḷāṇ) '(he) does not trust', etc. Also, from the first person of the future affirmative of any verb, other effective [emphasis mine] verbs are formed by changing the பென் (peṇ), or வென் (veṇ) into பிக்கிறென் (pikkiṛēṇ), or வக்கிறென் (vakkiṛēṇ), meaning to make someone do something, and another has the signification (meaning) of the simple verb as in விசுவசிப்பிக்கிறென் (vicuvācippikkiṛēṇ) 'I make someone believe'. அழைப்பிக்கிறென் (aḷaippikkiṛēṇ) 'I make someone call' செய்யிக்கிறென் (ceyyikkiṛēṇ) 'I make someone do' and forms other verbs that have all moods, tenses, and persons.]

It is worthy of note that, for the first time, the term effectivos appears to define the semantics of the Tamil morphological causative verbs. The same term is also found in the version of BC's Arte, copied in 1685, and attached to AP's dictionary, printed in 1679 (manuscript Borg. Ind. 12 from the Vatican Library). Surprisingly, the three copies of the original exhibit differences: those found at the State Central Library of Goa (MS 15 and MS 49) display the term affectivos rather than effectivos, while the manuscript traced by Jeyaraj (2010) at the British Library (OC Sloane 3003) does not include either term. ²⁶ Despite the fact that both effectivos and affectivos seem to anticipate Paramasivam's terminology, in this context they should be interpreted through the lens of the Latin grammatical framework where the term affectus, ²⁷ an imperfect calque from Greek, is used along with signficatio, genus, and vox in reference to the verb diathesis and, only in certain Latin authors, is used to address the patientive role in the pair agere and pati (cf. Benedetti 2001: 225–226; Coccia 2012: 58). Thus, in this context, they should be understood as expressing the semantic and formal change which Tamil verbs undergo with certain suffixes, and through which the verb expresses a cause, or a result of an action produced on someone by the influence of another.

²⁵ In this case BC interprets the function of the *reflexive* auxiliary *kol* as a way of distinguishing between *active* vs. *passive voice* at a semantic level rather than at a morphological one, since the verb form does not display any variation.

²⁶ The term *effectivos* appears at f. 234v in MS Borg. Ind. 12, the term *affectivos* appears in f. 28v of MS 66 and on f. M-15–56 of MS 16 from the State Library in Goa. This difference among manuscripts of BC's *Arte* raises the problem of identifying which is BC's original manuscript–if there is one among those accessible– and which are later copies. This topic is not discussed here further, but is explored, in more detail, in the introduction to my translation of BC's *Arte*.

²⁷ For a discussion of the use of *affectus/affectio* for addressing 'emotions' see Haskell et al. (2016: 521–543).

BZ added to BC's list of verbs (included in Appendix 3), but reduced the explanation regarding verb composition and, in terms of the morphological causative, he merely stated:

(j) "Non minus fit quædam verbi compositio, quando prima persona Futuri affirmativi வென vel பென mutatur in பிக்கிறென, qua mutatione significatio majorem habet valorem, quam in verbo simplici…" (BZ, 1716: 84–85)

["A certain adjustment of the verb occurs when the first person of the future affirmative – வேன ($v\bar{e}\underline{n}$) or பேன ($p\bar{e}\underline{n}$) is changed into -பிக்கிறேன் ($pikki\underline{r}e\underline{n}$). As a result of this mutation the meaning has greater force than in the simple form of the verb ..." (Jeyaraj 2010: 115)]

5.5 Verb conjugation and paired verbs in CJB

I conclude this investigation into how missionaries organised the Tamil verb conjugation and treated Tamil *paired verbs* with Constantius Joseph Beschi (henceforth CJB), one of the most prominent Western grammarians of Tamil of the early 18th century, whose work, translated into several languages (see Chevillard 2021, cf. § 2), was to become the model of reference for later descriptors of the Tamil language. For example, Rhenius (1836: 79) acknowledged CJB's deep appreciation of the Tamil verb paradigm, by contrast with the ITGT:

(k) "the past tense is characterised by the middle particles *t*, *t*, *r*, and *in*. The native grammarians do not point out which roots require the one or the other of these middle particles. I shall therefore deviate from their course, and rather follow Beschius in describing the formation of this tense; the only one that has any difficulty."

CJB may be considered as the turning point from the previous missionary tradition for two more key reasons: as already stated, he described Tamil with reference to the WGT and to the ITGT with which he was familiar; secondly, in particular with the *Nan.*, he shed light on those questions that had arisen among his predecessors, such as questions relating to the passive meaning of the *neuter* (*affective*) verbs.

However, CJB would not have accomplished so much if his predecessors had not worked so extensively on the Tamil language and had not collected linguistic data: primary evidence of this is his explanation of the past tense formation where the synthesis is clearly derived from the grammatical descriptions that preceded CJB. He summarised in eight rules the formation of the past tense, taking into account the same formal criteria that were based on the observation of the final sound of the verb stem preceding the present tense morphemes *cradu* (*-kkiṛau*) or *gradu* (*-kiṛatu*), thus on internal sandhi. As is the case for the other manuscripts, the full list of verb forms found in CJB's grammar (Beschi 173: 50–58, parag. 54–65; Mahon 1848: 44–63) is given in Appendix 2, section E. CJB provided three rules for present tense in *-kkir*- (strong verbs):

```
•1<sup>st</sup> rule: a. verbs with y, r b. verbs with i, ai, u \Rightarrow pst = tt-\bar{e}\underline{n} verbs of the 11<sup>th</sup> class \bullet2<sup>nd</sup> rule: verbs in \bar{a} \Rightarrow pst = nd-\bar{e}\underline{n} verbs of the 12<sup>th</sup> class<sup>28</sup> \bullet3<sup>rd</sup> rule: verbs in long syllable \bullet pst = (kk)-i\underline{n}-\bar{e}\underline{n} verbs of the 5<sup>th</sup> class \bullet3<sup>rd</sup> rule: verbs in long syllable \bullet pst = (kk)-i\underline{n}-\bar{e}\underline{n} verbs of the 5<sup>th</sup> class
```

²⁸ There is only one verb included in this conjugation that does not belong to the 12th class: *paṛa-ttal* 'to fly' since it belongs to the 4th class.

The first rule (a, b) includes the strong verbs of the 11^{th} class; the second rule includes verbs which mainly belong to the 12^{th} class, 29 while the third rule includes weak verbs of the 5^{th} class 30 that have a long vowel in the final syllable of the verb stem preceding the present tense morpheme. CJB considers these forms the correspondent *active* form of the *neuters* that he lists in the rule n. 2 among those verbs with a single velar stop in the present tense marker (Beschi 1738: 53, parag. 60; Mahon: 1848: 46), i.e. "aṭakkiṛatu ('to shut') is the *active* form of the *neuter aṭaṅkiṛatu* ('to be shut') that has the past in $inential_{in}$ ".

With regard to the verbs ending in gradu (-kiratu), five further rules are given along with some exceptions:³¹

```
•1<sup>st</sup> rule: a. verbs with \dot{n}ga (\dot{n}-kir)
                                                                                \rightarrow pst = \dot{n}k-\dot{n}-\dot{e}n verbs of the 5<sup>th</sup> class
                                                                               \rightarrow pst = \underline{n}\underline{t}-\underline{e}\underline{n} verbs of the 7<sup>th</sup>, 13<sup>th</sup> class
                 b. verbs with n (n-kir)
                                                                               ⇒ pst = \underline{n}\underline{r}-\underline{\bar{e}}\underline{n} verbs of the 8<sup>th</sup> class

⇒ pst = \underline{i}\underline{n}-\underline{\bar{e}}\underline{n} verbs of the 5<sup>th</sup> class<sup>31</sup>
                 c. verbs with n (n-kir)
•2^{nd} rule: verbs ending in over short u
Except. Verbs ending in ku, ru, tu
                                                                               \rightarrow pst = dropping 'u' and doubling the final C
                                                                                                (verbs of the 6<sup>th</sup> class)
•3<sup>rd</sup> rule: a. verbs ending in single l+u
                                                                                                               verbs of the 2<sup>nd</sup> class
                                                                                \rightarrow pst = \underline{n}\underline{t}-\underline{e}\underline{n}
                 b. verbs ending in geminated l+u \rightarrow pst = i\underline{n} - \bar{e}\underline{n}
                                                                                                               verbs of the 5<sup>th</sup> class
                                                                               \rightarrow pst = nt-\bar{e}n verbs of the 4<sup>th</sup> class
                 c. verbs ending in ru
                                                                               \rightarrow pst = nr - \bar{e}n verbs of the 3<sup>rd</sup> class
                 d. verbs ending in lu
                                                                               \rightarrow pst = varies verbs of the 1<sup>st</sup> and 4<sup>th</sup> class
                 e. verbs ending in lu
•4<sup>th</sup> rule verbs ending in ya, i, ai
•5<sup>th</sup> rule verbs ending in long vowel
                                                                                                               verbs of the 4<sup>th</sup> class
                                                                               \rightarrow pst = nt - \bar{e}n
                                                                                                                verbs of the 4<sup>th</sup>, 5<sup>th</sup>, 13<sup>th</sup> class
                                                                                \rightarrow pst = varies
```

It is worth noting, from the above rules, how CJB identified almost all the classes included in the contemporary MTL with a re-organisation of BC's classification. Indisputably, he achieved this thanks to earlier missionaries, in particular BC via BZ, as is suggested by the similarities among verbs used as examples (cf. Appendix 3) as well as his references to a previous author – presumably BZ. 32

CJB mentions *paired verbs* in a section on the *passive voice* but, unlike his predecessors, he is adamant that they are not passive or 'like passive' verbs, but rather that they should be considered as *neuter* verbs carrying an *intransitive* meaning:

(1) "Siquidem quæ ab Alio passiva dicuntur, v.g. முகிகிறது, வளடுகிறது, விளங்கிறது, &c. non passiva, sed neutra dicenda sunt; non enim passionem a causa exprimunt, sed sensum intransitivum important: v.g. வளர்க்கிறது ex augere, activè; numquid வளருகிறது erit augeri, passivè? Non certè, sed est crescere,

²⁹ See endnote 39 in Appendix 2.

³⁰ CJB (Beschi 1738: 51, parag. 56, Mahon 1848: 44) points out that these verbs are syncopate forms which h0ave lost the syllable *ku* before the present tense: *nakkiṛatu* < *nakkukṛatu*, *pst* = *nakkiṇēṇ*. CJB states that, in order to understand whether a verb has undergone a syncope, one should check the imperative. He is referring here to *paired verbs*. See endnote 40 in Appendix 2.

Verb forms that end in *tu, ku, ru* (i.e. *muṭu, tiru, tavaṛu*), or in single long syllable (i.e. *ēku*), or in a geminated consonant (i.e. *takku*) also take *in* in the past; but if there is only a short syllable preceding the *tu, ku, ru* (i.e. *naku, paṭu, peṛu*) thus they form the past dropping the 'u' and doubling the final consonant.

The 39% of CJB's verb forms that are listed in Appendix 2, section E, is also found in the other manuscripts discussed in this article. Among them, 37% of the shared forms are found only in BC's grammar (cf. Appendix 2, section D).

neutrum. Sic dicitur, உனமகனவளர்நதான, crevit filius tuus: et ad explicandum augeri, passivè, dicendum வளர்க்கப்படுகிறது. Sic முகிகிறது, non est compleri, passive; sed desinere, neutrum. [...] Quod ut calriùs adhuc pateat, Latini habent luceo, neut. illumino, act. illuminor, pass. his correspondent விளங்கிறது, neut. விளக்கிறது, act. விளக்கப்படுகிறது, pass". (Beschi 1738: 69, parag. 77)

[Those which, by Another person, are called passives, e.g. முகிகிறது (mukkiratu), வளடுகிறது (vaļarukiratu), விளங்கிறது (vaļarikiratu), &c. are not to be called passive, but neuter; for they do not express passion or suffering from a cause, but import an intransitive sense: e.g. வளர்க்கிறது means, to increase, actively; is there any வளடுகிறது (vaļarukiratu) that will mean to be increased, passively? Certainly not, but it means to grow larger, a neuter verb. Thus it is said, உன்மகன்வளர்ந்தான் (யா makan vaļarntān), your son has increased in size: and to express, to be increased, we must say வளர்க்கப்படுகிறது (vaļarkkappaṭukiratu). So too முகிகிறது (mukkiratu) does not mean to be completed, passively; but to cease, to leave off, neuter. ... To make this appear yet more clearly; the Latins have luceo, I shine, neuter; illumino, I illumine, active; illuminor, I am enlightened, passive. To these correspond விளங்கிறது (vaļarkiratu), neuter; விளக்கிறது (vaļakkiratu), active; விளக்கப்படுகிறது (vaļakkappaṭukiratu), passive (Mahon 1848: 59)].

With regard to morphological causatives, following the *Nan*. (cf. § 3), CJB calls these the *verbs of command* (*ēval vinai*), which means verbs that imply an action done at the command, or at least at the persuasion of that person, who is in the nominative. As in earlier missionary grammars, the causative morphemes are considered as derived from the *word* used in the formation of the future tense; the word for the future *-pēn* gives *-pikkiratu*; and the word for the future *-vēn* gives *-vikkiratu* (Beschi 1738: 115–116; Mahon 1848: 95).

In conclusion, following the main subdivision already identified by earlier missionaries that split verbs into two main groups – with and without gemination of the velar stop in the present tense morpheme, CJB managed to provide a classification of verbs identifying the different classes. In addition, CJB categorises the *paired verbs* on the basis of verb diathesis. As such, *neuter* verbs carry an intransitive significance because the action expressed by the verb refers to the subject itself, while the action expressed by the *active* verbs produces effects on a referent other than the subject and for this reason, these are different from the neuter.

6. Conclusions

My analysis of the classification of verbs by missionaries between the second half of the 16th century and the first half of the 18th century demonstrates the progress these early descriptors made in understanding Tamil verbs through their application of a Latin grammatical framework. It was a gradual process of comprehension which led them to certain assumptions about the nature of Tamil verbs that had not previously been observed by the ITGT.

There are three principal issues related to the Tamil verbs under observation: the verb conjugations, the *paired verbs*, and the causative verbs. All six manuscripts, through the adoption of formal criteria, identified a variable number of verb conjugations (in HH and MS Ind 188) or rules (in BC, GA/PB, BZ, CJB) for the formation of present, past, and future tenses in Tamil. In defining these, missionaries also became aware of certain types of verbs which appeared to be the counterpart of other verbs (Tamil *paired verbs*) which they struggled to describe using categories of Latin grammar. As such, in HH, *paired verbs* were

impersonal forms with a significance 'like a passive' which could be derived from *personal verbs*; in the other manuscripts, they were the *neuter* of the *active* verbs. In addition, missionaries also encountered verb forms that signify 'to make someone do something' which they deemed to be derived from the paradigm of the future tense because of the formal similarity between the causative morphemes *-vi-* and *-ppi-* and the morpheme of the future tense, *-v-*, *-p-*, and *-pp-*.

Although none of the missionaries discussed here made any attempt to identify or isolate a proper 'voice morpheme', by applying the category of neuter and active, they all clearly recognised a connection between some paired verbs, including a deviant form (neuter) from another one (active). As observed in earlier sections, only HH and MS 188 offer a differentiation between personal and impersonal verbs, including within the latter the active tantum verbs (HH) and kurippu vinai (MS 188). Only HH articulates that "in some of the conjugation there is a way of speaking that is almost like the passive" (Hein & Rajam 2013: 211), although he acknowledges that the case to which he is in fact referring, namely the affective voice, cannot be considered as completely overlapping with the Latin passive. Despite this, later grammarians like GA/PB continued to question the possibility of considering these verbs as passive, and also introduced a new category, the neuter, while BC, anticipating Paramasivam's terminology– albeit with a slightly different meaning- made use of Latin categories such as effectivos, one of the terms used along with signficatio, genus, and vox to refer to the verb diathesis, even though he still considered the verb ending in gradu (-kiratu) as a passive. However, both GA/PB and BC, as well as, BZ, abandoned the differentiation between personal and impersonal verbs and the idea of conjugations for the Tamil verbs. Lastly, CJB clarified these uncertainties, arguing that certain verbs should be considered as neuter rather than passive forms of the corresponding active ones, because they "do not express passion or suffering from a cause but import an intransitive sense" (Beschi 1738: 69, parag.; Mahon 1848: 59).

In summary, missionaries:

- 1) identified the Tamil verb classes on the basis of the final sound of the verb stem and of the tense morphemes in particular of the present and past tense;
- 2) identified the morphologically causative verbs from each of the *paired verbs*;
- 3) identified the *paired verbs* on the basis of the subject's role in the narrated event as *active* verbs (i.e. the subject works as an *agent* producing effects on another entity who is not the subject), or as *neuter* verbs (i.e. the action carried out by the verb does not necessarily involve another entity and may affect the subject itself), which were associated with intransitive verbs in the first half of the 18th century.

In establishing the main criteria guiding the missionaries' identification of classes and classified verbs, one can consider Duranti's (2004: 453) definition of agency: "agency is understood as the property of those entities (i) that have some degree of control over their own behaviours, (ii) whose actions in the world affect other entities (and sometimes their own), and (iii) whose actions are the object of evaluation (e.g. in terms of their responsibility for a given outcome)". This appears to suggest that for the missionaries the prevailing criteria in the definition of the neuter in Tamil were semantic despite the fact that the main criterion for the differentiation into conjugations or rules was formal. In fact, in their identification of affective verbs with 'like passive' or 'neuter', there is an implicit understanding of a different degree of agentivity for the subject of the verb, codified through the presence or absence of a gemination of the obstruent in the tense morpheme,

or in the verb base. Hence, it is clear that for the division of verbs into *neuter* and *active*, missionaries were thinking of the Latin *Genera Verbi*, which found its roots in the Greek grammar (*diathesis*) and became, in Latin linguistics, an autonomous inflection category from the 4th century onwards (see Hovdhaugen 1986: 315–329; Hovdhaugen 1987: 133–147). The selection of the category of *neuter* may have been a device to explain a feature of a linguistic item that differed from a prototype. The Latin *Genera Verbi* identifies verb species or significations. There were nine³³ species in the 4th century which were later reduced to five distinct types:³⁴ *activum*, *passivum*, *neutrum*, *commune*, *deponens*. As such, active verbs are *straight*, and the neuters come from a deviation of this *straightness*; they are defective in forming the passive voice.³⁵ Furthermore, the active verbs, like the passive, involve two people (two arguments), the agent and the patient. In contrast, those verbs that do have none of these forms are considered as *neuters* or *absolutive* (Stoppie, Swiggers & Wouters 2007: 213–215).

As Benedetti (2001: 228) states, "the *Genera Verbi* may be considered as the extreme attempt grammarians made to integrate the semantic with the formal description in order to be able to cover all the possible combinations among the series of endings and the conceptual categories of *facere* and *pati* [translation mine]." In the same way, the application of two categories of the *Genera Verbi* to the description of Tamil verbs by missionaries may be considered as an extreme attempt to give an account of the semantic variation that the *affective* verbs display when compared to the *effective* ones.

As the definition of *affective* verbs progressed, it seems that, through the use of *impersonal* and *neuter* categories, missionaries were applying the canonical definitions as given in the WGT such as Barros (1540) and Álvares (1573)³⁶ but were also extending them, taking into account not solely the formal aspect but also the *significatio* related to *neuter*. As such, one should trace the principle of categorisation within the semantic, rather than the formal sphere, despite the fact that *affective* differs from *effective* in the stops that precede the tense morpheme. Indeed, missionaries were trying to explain a slightly different meaning which is codified through the tense morpheme combined with the voice morpheme, according to which certain verbs not only change their tense, but also the degree to which the subject is involved in the action described by the verb. If two entities are involved in active forms, in the neuter form it seems that the only entity predominantly interested by the action is the semantic subject (cf. CJB's definition of neuter as intransitive).

³³As Benedetti (2001: 227) points out, attempts were made by the Greeks to find a parallelism between the verb diathesis and the nominal gender. Thus, neuter verbs are associated with neuter nouns which are unable to designate gender. The neuter verbs do not have either the actor or the patient of the verb, thus they differ from the *active* and the *passive* verbs.

³⁴ "Le genre dans les verbes, c'èst-à-dire l'espèce ou l'*affectus* ou la *significatio*, est divisé en neuf sortes:

³⁴"Le genre dans les verbes, c'èst-à-dire l'espèce ou l'*affectus* ou la *significatio*, est divisé en neuf sortes: l'actif, le passif, le déponent, le neutre, le commun, l'inchoatif, le défectif, le fréquentatif, l'impersonnel" [the gender among verbs, namely the type or the *affectus* or the *significatio*, is divided into nine types: active, passive, deponent, neuter, common, inchoative, defective, frequentative, and impersonal] (Stoppie, Swigger, & Wouters 2007: 211).

The verb gender in the Greek tradition is the *diathesis*, the Latin correspondent for the Greek term, which was introduced by Quintilian, is *genus* or *significatio*. Before that time, the word *adfectus* also used by GA/PB in his Tamil grammar, had been used by Latin grammarians like Macrobio, Sacerdote, and Prisciano (Benedetti 2001: 224–226). Until the 4th century it was not an autonomous category and it is interpreted both morphologically and semantically, where the formal criteria based on inflection is preeminent. In fact, traditional grammars consider also the inchoative, the defective, the frequentative, and the impersonal as part of the *genera verborum*. From the 4th century onwards, frequentative and inchoative verbs are no longer considered part of the verb *genus* since they are considered a pure inflectional category. For a detailed discussion on the development of *genera verborum* in the Roman grammatical tradition see Hovdhaugen (1986: 315–329; 1987: 133–147).

³⁶ In Álvares (1572) *active* verbs are those which mean some kind of action and which can be transformed into the passive by adding a final *-or*, while the *neuters* are those which cannot be converted into the passive. He also specifies that the sixth order of the neuter verbs means *passion* and that they are called *passive neuter*.

In conclusion, this paper demonstrates how throughout the application of the Latin framework and its extension, missionaries were able to account for some of the peculiarities of the Tamil verb system, which are not described by the Tamil grammatical tradition. It also highlights how the data offered by these first external descriptions of Tamil, in part representative of data collected through missionaries' fieldwork, may enable, even today, a better comprehension of the Tamil language – i.e. according to these sources, the incidence of *paired verbs* in Tamil is lesser if compared with Paramasivam's estimation thereof (1979). Furthermore, bearing in mind the fact that the missionaries' identification of Tamil verb classes, as well as of *affective* versus *effective* voice continues to be used in modern descriptions of Tamil, it seems almost redundant to highlight the missionaries' contribution to Tamil studies and to the History of the Language Science in general.

Abbreviations

1 first person 2 second person 3 third person accusative ACC affective AF causative **CAUS** demonstrative DEM EPIC epicene effective EF feminine F genitive **GEN** honorific

HON INF infinitive instrumental **INST** masculine M noun Ν neuter NT NUM numeral oblique OBL plural PL

PN proper noun
PRES present
RPOX proximate
PST past
SG singular

Appendix

A brief note about the Appendices

The **First Appendix** shows the organisation of arguments in manuscripts 1–5 (cf. Chart 1) and compares them with the table of contents found in Álvares (1573) and Barros (1540). This appendix relates to § 4.

The **Second Appendix** reproduces the verb forms found in each analysed manuscript and it is structured in the following way:

- 1. the first column contains the transcription of verb forms as they appear in the manuscripts;
- 2. the second column contains the Portuguese or English glosses found in the manuscript;

- 3. the third column provides the English translation of the Portuguese glosses if present;
- 4. the fourth column disambiguates the Tamil verb forms contained in the first column;
- 5. the fifth column specifies the conjugation or the rule given in the manuscript for the verb form in the first column;
- 6. the sixth column points out the class to which the verb forms belong as it is found in the MTL.

The **Third Appendix** provides the full list of Tamil verbs found in Appendix 2.A, 2.B, 2.C, 2.D, 2.E plus those found in BZ with their meaning as it is found in the *Dravidian Etymological Dictionary* [DED, 1961] and its supplement [DEDS, 1968] by Emeneau. If it was not possible to find the form in the DED or DEDS, I took the corresponding meaning from the *Madras Tamil Lexicon* [MTL]. The Appendix 3 also specifies the manuscript where the verb form is found.

• Appendices. Appendices 1 to 3. DOI: https://doi.org/10.5334/jpl.268.s1

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Competing Interests

The author has no competing interests to declare.

References

Aguilar, G., & Baldaeus, P. (1659–1665). *Arte Tamul. Sive Institutio Grammatica Linguae Malabaricae* [Tamil Art, or Foundations of grammar of the Malabar language]. Sum Philippi Baldej. UDM in Regno Jaffnapatam. 1659. Filippi Baldeyusu 1665. [Cod. Orient. 283, Staats–Und Universitäts Biblioteck Hamburg Carl von Ossietzky].

Álvares, M. (1573). *Emmanvelis Alvari è Societate Iesv de Institutione Grammatica Libri Tres* [Foundations of grammar, by Emmanuel Alvarus from the Company of Jesus, three books]. Olyssippone: Excudebat Ioannes Barrerius Typographus Regius.

- **Annamalai, E.** (2016). Tamil and Dravidian Grammatical Tradition. In H. H. Hock & E. Bashir (Eds.), *The Languages and Linguistics of South Asia. A Comprehensive Guide* (pp. 716–734). Berlin/Boston: De Gruyter Mouton.
- **Arden, A. H.** (1969). *A Progressive Grammar of the Tamil Language* (5th ed.. revised by A. C. Clayton, reprinted). Madras: The Christian Literature Society.
- Assunção, C. C., & Toyoshima, M. (2012). Emmanuelis Aluari e Societate Iesu de Institutione Grammatica Libri Tres: Coniugationibus accessit interpretatio Iapponica, In collegio Amacusensi Societatis Iesu cum facultate superiorum, Anno MDXCIIII [Foundations of grammar, by Emmanuel Alvarus from the Company of Jesus: with a Japanese translation added to the conjugations. Published in the Amakusa brotherhood of the Company of Jesus, with the superiors' permission]. Edition and introduction. Tokyo: Yagi Bookstore.
- **Ayscough, S.** (1782). A Catalogue of the Manuscripts Preserved in the British Museum Hitherto Undescribed: Consisting of Five Thousand Volumes, including the collections of Sir Hans Sloane, Bart. The Rev. Thomas Birch...Volume 2. London: Printed for the Compiler by John Rivington.
- **Baldaeus**, **P.** (1672). *Short Introduction to the Malabar Language*. This English version was copied by G. Perry, Special Collection (MS 7107), SOAS Library, University of London, UK.
- **Barros, J.** (1540). *Grammatica da língua Portuguesa* [Grammar of the Portuguese language]. Olyssipone. Apud Lodouicum Rotorigiũ Typographum. M.D.XL.
- **Benedetti, M.** (2001). La *diatesi* nella terminologia antica e moderna [*Diathesis* in modern and ancient terminology]. In V. Orioles (Ed.), *Dal 'paradigma' alla parola. Riflessioni sul metalinguaggio della linguistica. Atti del Convegno Udine-Gorizia, 10–11 febbraio 1999* (pp. 209–234). Rome: Il Calamo.
- Beschi, C. J. (1738 [ms. 1728]). A.M.D.G. *Grammatica Latino–Tamulica Ubi de Vulgari Tamulicæ Linguæ Idiomate கொடுந்தமிழ [koṭuntamil] dicto, ad usum missionariorum. Soc. IESU. Auctore P. Constantio Iosepho Beschio. Ejusdem Societ. In Regno Madurensi Missionario. A.D. MDCCXXVIII [Latin–Tamil Grammar, where the spoken variety of the Tamil called koṭuntamil is dealt with, to be used by the missionaries. Society of Jesus. Author: Father Constantinus Joseph Beschi missionary of the Society in the Madurai Reign]. Trangambariæ, Typis Missionis Danicæ, [MD]CCXXXIIX. (See Horst 180631, Mahon 1848). Retrieved from https://books.google.it/books?id=7aJFAAAAc AAJ&pg=PA6&dq=Grammatica+Latino-Tamulica&hl=it&sa=X&ved=2ahUKEwiy qJzvz_rAhUPzqQKHSsGAJcQ6AEwAXoECAQQAg#v=onepage&q=Grammatica%20 Latino-Tamulica&f=false*
- **Burrow, T.,** & Emeneau, M. B. (1961). *A Dravidian Etymological Dictionary*. Oxford: Clarendon Press.
- **Burrow**, T., & Emeneau, M. B. (1968). *A Dravidian Etymological Dictionary. Supplement*. Oxford: Clarendon Press.
- **Chevillard, J.-L.** (1992). Beschi, grammairien du tamoul, et l'origine de la notion de verbe appellatif [Beschi, grammarian of Tamil, and the origin of the concept of the appellative verb]. *Bulletin de l'Ecole française d'Extrême-Orient*, *79*(1), 77–88. DOI: https://doi.org/10.3406/befeo.1992.1813
- **Chevillard, J.-L.** (1996). *Le commentaire de Cēṇāvaraiyar sur le Collatikāram du Tolkāppiyam* [Cēṇāvaraiyar's commentary on the Tolkāppiyam Collatikāram]. Pondicherry: Institut Français de Pondichéry/École Française d'Extrême-Orient.
- Chevillard, J.-L. (2008). Companion volume to the Cēṇāvaraiyam on Tamil Morphology and Syntax. Le commentaire de Cēṇāvaraiyar sur le Collatikāram du Tolkāppiyam vol. 2. English Introduction, Glossaire Analytique, Appendices. [Collection Indologie 84.2]. Pondicherry: Institut Français de Pondichéry/École Française d'Extrême-Orient.

- **Chevillard, J.-L.** (2013). On the two lists of "four [types of] words" (*nār-col*) in the Śāstric descriptions of Tamil. *Lingua Posnaniensis, LV* (pp. 2–23). DOI: https://doi.org/10.2478/linpo-2013-0010
- **Chevillard, J.-L.** (2018). The Tamil grammatical tradition: A long commute between theory and practice. *Indian Linguistics. Journal of the Linguistic Society of India, 79*(1/2), 25–38.
- **Chevillard, J.-L.** (2021). From grammar to dictionary. The early challenge of lemmatizing Tamil verbal forms, through categories used for Latin and Portuguese. In *Journal of Portuguese Linguistics*.
- **CLP** = *Corpus Lexicográfico do Português*. Retrieved from http://clp.dlc.ua.pt/DICIweb/default.asp?url = Concordancias
- **Coccia, L.** (2012). Affectus and διάθεσις [Diathesis]. In V. Orioles, R. Bombi & M. Brazzo (Eds.), *Proceedings of the First Workshop on the Metalanguage of Linguistics. Models and Applications, Lignano (2–3 Marzo 2012)* (pp. 53–68). Rome: Il Calamo.
- Costa, B. D. (1673). *Arte da Lingua Tamul* [Art of the Tamil language]. Including also Antão de Proença's Tamil–Portuguese Dictionary whose full title is given in Costa (1685), (MS 50, previously MS 34), India: Krishnadas Shama, Goa State Central Library.
- Costa, B. D. (1685). Arte da Lingua Tamul [Art of the Tamil language] copied by Father Pietro Paolo di S. Francesco (1685) & Vocabulario Tamulico com a significaçam portugueza (1679). Composto pello P. Antam de Proença da Companhia de IESV, Missionario da Missao de Madurey. Vocabulario Tamulico Lusitano dedicato aos PP. Pregadores do evangelho que converçam com Tamuis, pello P. Antam de Proença da Companhia de IESV da Missao de Madurey [Tamil dictionary with Portuguese meanings (1679). Compiled by Father Antão de Proença of the Company of Jesus. Missionary in the Madurai Mission. Tamil—Portuguese dictionary dedicated to the Fathers who are preachers of the Gospel, who speak with the Tamil people by the Father Antão de Proença of the Company of Jesus of the Madurai Mission]. (MS Borg. Ind. 12), Biblioteca Apostolica Vaticana, Rome, Italy.
- Costa, B. D. (1794). *Grammatica Tamulica* [Tamil Grammar], Copy of Balthasar da Costa's Tamil grammar copied by Father Domingo March 31st, 1794 included in *Grammatica Tamulica of [sic] Father Paulo Francisco de Noronha Missionario de Madurai [sic] [natural de Ucassaim, (do concelho) de Bardez) [sic] Goa, 1890 [Tamil Grammar of [sic] Father Paulo Francisco de Noronha missionary of Madurai [sic] born in Ucassim (of the council) of Bardez [sic] Goa, 1890]. (MS 16, previously MS M–15), Krishnadas Shama, Goa State Central Library, India.*
- **Costa, B. D.** (n.d.). *Tamul: Tamul grammar in Spanish: 17th cent.* Oriental Manuscript, Sloane (Ms 3003), London, UK: British Library.
- Costa, B. D. (n.d.). *Arte da Lingua Tamul composta pello Padre Balthasar da Costa* [Art of the Tamil language composed by Father Balthasar da Costa]. (MS 66, previously MS–M49), Krishnadas Shama, Goa State Central Library, India.
- **Dalgado, S. R.** (1919). *Glossario Luso-Asiático, Volume I* [Luso-Asiatic Glossary. Vol. I]. Coimbra: Imprensa da Universidade.
- **Duranti, A.** (2004). Agency in Language. In A. Duranti (Ed.), *A Companion to Linguistic Anthropology* (pp. 451–473). Malden, MA/Oxford/Victoria: Blackwell. DOI: https://doi.org/10.1111/b.9781405144308.2005.00023.x
- **Duranti, A.** (2007). Riduzioni ed estensioni dell'agentività nelle lingue storico-naturali [Reductions and extensions of agency in historical-natural languages]. In A. Donzelli & A. Fasulo (Eds.), *Agency e linguaggio. Etnoteorie della soggettività e della responsabilità nell'azione sociale* [Agency and language. Ethnotheories of subjectivity and responsibility in the social action], (pp. 45–60). Rome: Meltemi.

- **Fernandes, G.** (2007). De Institutione Grammatica Libri Tres (1572) de Manuel Álvares (1526–1583) [Foundations of grammar, by Manuel Álvares (1526–1583), three books]. *Revista da Academia Brasileira de Filologia*, *4*(1), 85–99.
- **Fernandes, G.** (2015). The first known grammar of the (Kahenda-Mbaka) Kimbundu (Lisbon 1697) and Álvares' Ars Minor (Lisbon 1573). *Africana Linguistica*, *21*, 213–232. DOI: https://doi.org/10.3406/aflin.2015.1046
- **Francis**, E. (2011). Description of 3 Tamil Manuscripts. In E. Wilden (Ed.), *Manuskriptkultur* in *Tamil Nadu*. Manuscript culture in *Tamil Nadu*. Newsletter 4, 122–125. Hamburg: CSMC.
- **Gómez Gómez, J. M.** (2002). *Emmanvelis Alvari e Societate Iesv de Institutione Grammatica Liber Secundus. De octo partivum orationis constructione. Estudio, edición crítica, traducción, notas e índices* [Foundations of grammar, by Manuel Álvares of the Society of Jesus. 2nd book. About the construction of the eight parts of speech]. PhD Thesis submitted at the Faculty of Philosophy and Letters. Department of Sciences of Antiquity. University of Extremadura. Retrieved from https://dialnet.unirioja.es/servlet/tesis?codigo = 27062 Last accessed on 27th April 2017.
- **Haskell, Y., Champion, M., Ruys, J.,** & **Garrod, R.** (2016). But were they talking about emotions? Affectus, affectio and the history of emotions. *Rivista Storica Italiana*, *128*(2), 521–543. Retrieved from http://www.edizioniesi.it/rivistastoricaitaliana/index. php?id = 2016
- Hein, J., & Rajam, V. S. (2013). The Earliest Missionary Grammar of Tamil. Fr. Henriques' Arte da Lingua Malabar: Translation, History and Analysis. Harvard Oriental Series (v. 76) Cambridge/Massachusetts/London, England: Harvard University Press.
- Horst, C. H. (1831 [1806]). A Grammar of the Common Dialect of the Tamulian Language called கொடுந்தமிழ் composed by R. F. Const: Joseph Beschi, Jesuit missionary. After a study and practice of thirty years. Translated by Christopher Henry Horst. Madras: Vepery Missionary Press.
- **Hovdhaugen**, E. (1986). Genera Verborum quot sunt? Observation on the Roman Grammatical Tradition. *Historiografia Linguistica*, *13*, 315–329. DOI: https://doi.org/10.1075/hl.13.2-3.10hov
- **Hovdhaugen**, E. (1987). Genera Verborum quot sunt? Observation on the Roman Grammatical Tradition. In D. J. Taylor (Ed.), *The History of Linguistics in the Classical Period* (pp. 133–147). Amsterdam/Philadelphia: John Benjamins. DOI: https://doi.org/10.1075/sihols.46.08hov
- [Ind 188]. Manuscript Indienne 188. Bibliothèque National de France, Paris.
- **Israel, H.** (2011). *Religious Transactions in Colonial South India. Language, Translation, and the Making of Protestant Identity*. New York: Palgrave Macmillan. DOI: https://doi.org/10.1057/9780230120129
- **Jeyaraj**, **D.** (2010). Tamil language for Europeans: Ziegenbalg's Grammatica Damulica. Translated from Latin and Tamil. Annotated and Comments by Daniel Jeyaraj. Wiesbaden: Harrosswitz Verlag.
- **Klaiman, M. H.** (1991). *Grammatical Voice*. Cambridge/New York/Port Chester/Melbourne/Sydney: Cambridge University Press.
- **Krishnamurti, Bh.** (2003). *The Dravidian Languages*. Cambridge: Cambridge University Press. DOI: https://doi.org/10.1017/CBO9780511486876
- **Lehmann, T.** (1989). *A Grammar of Modern Tamil.* Pondicherry: Pondicherry Institute of Linguistics and Culture.
- Mahon, G. W. (1848). A Grammar of the Common Dialect of the Tamul Language called கொடுந்தபிழ், composed for the use of the Missionaries of the Society of Jesus, by Constantius Joseph Beschi, Missionary of the Said Society in the District of Madura. Translated from

- the original Latin by George William Mahon, A. M. Garrison Chaplain, Fort St. George, Madras and Late Fellow of Pembroke College, Oxford. Madras: Christian Knowledge Society's Press.
- **Melčuk**, I. (2006). *Aspects of the Theory of Morphology*. Edited by David Beck. Berlin/New York: Mouton de Gruyter.
- MTL=*Madras Tamil Lexicon*, (1982 [1924–36, 1939]). Published under the authority of the University of Madras, in six volumes plus supplement, Chief Editor S. Vaiyapuri Pillai, Chennai (Madras).
- Muru, C. (2014). Gaspar de Aguilar: A Banished Genius. In A. Amaladass & I. G. Županov (Eds.), *Intercultural Encounter and the Jesuit Mission in South Asia (16th–18th Centuries)* (pp. 353–389). Bangalore: Asian Trading Corporation.
- **Muru, C.** (2018). Early Descriptors and Descriptions of South Asian Languages from the 16th Century Onwards. *Journal of Portuguese Linguistics*, 17(8), 1–29. DOI: https://doi.org/10.5334/jpl.202
- Muru, C. (2019). A bilingual Tamil-Portuguese manuscript. *Aziatische Kunst*, *49*(3), 35–46. Muru, C. (2020). Grammaire Latine Étendue. Two Portuguese missionary Tamil Arte (17th cent.). In É. Aussant & J.-L. Chevillard (Eds.), *Extended Grammars*. *Beiträge zur Geschichte der Sprachwissenschaft*. *Nodus*, *30*(1), 59–73.
- **Neill, S.** (1985). *A History of Christianity in India: 1707–1858*. Cambridge: Cambridge University Press. DOI: https://doi.org/10.1017/CBO9780511520563
- **Paramasivam, K.** (1979). *Effectivity and Causativity in Tamil.* Trivandrum: Dravidian Linguistics Association.
- **Proença, A. D.** (1670). *Vocabulario Tamulico–Lusitano* [Tamil–Portuguese Dictionary]. [MS 50, previously MS 34, Krishnadas Shama, Goa State Central Library, India].
- **Pytlowany, A.** (2018). *Ketelaar rediscovered The first Dutch grammar of Persian and Hindustani* (1698). Utrecht: LOT. Retrieved from https://www.lotpublications.nl/Documents/512_fulltext.pdf
- **Schiffman, H.** (1999). *A reference grammar of spoken Tamil.* Cambridge: Cambridge University Press. DOI: https://doi.org/10.1017/CBO9780511519925
- **Springhetti**, E. (1961–62). Storia e fortuna della Grammatica di Emmanuele Álvares S. J. [The history and fortune of Emmanuele Álvares' S. J. Grammar]. *Humanitas*, n. s., 13–14: 283–304.
- **Steever, S. B.** (1983). A study in auxiliation: The grammar of the indicative auxiliary verb system of Tamil. Volume I. PhD dissertation, Chicago, Illinois, December 1983.
- **Steever, S. B.** (1988). *The serial verb formation in the Dravidian languages.* New Delhi: Motilal Banarsidass.
- Stoppie, K., Swiggers, P., & Wouters, A. (2007). La terminologie grammaticale en contexte bilingue: Macrobe et l'analyse de la diathèse verbale [Grammatical terminology in a bilingual context: Macrobe and the analysis of verb diathesis]. In L. Basset, F. Biville, B. Colombat, A. Wouters & P. Swiggers (Eds.), *Bilinguisme et terminologie grammaticale gréco–latine* (pp. 201–224). Leuven/Paris/Dudley, MA: Peeters.
- **Subramanya Sastri, P. S.** (1934). *History of Grammatical Theories in Tamil and their relation to the Grammatical Literature in Sanskrit.* Madras: The Journal of Oriental Research.
- **Vermeer, H. J.** (1982). *The first European Tamil Grammar. A Critical Edition. English version by Angelica Morath.* Heidelberg: Julius Groos Verlag.
- Ziegenbalg, B. (1716). Grammatica Damulica, quae per varia paradigmata, regulas & necessarium vocabulorum apparatum, viam brevissimam monstrat, qua lingua Damulica seu Malabarica, quæ inter Indos Orientalis in usu est, & hucusque in Europa incgnita fuit, facile disci posit: in Usum eorum Qui hoc tempore gentes illas ab idolatria ad cultum veri Dei, salutemque æternam Evangelio Christi perducere cupiunt: In itinere Europæo, seu in nave

Danica, concinnata a Barholomæo Ziegenbalg, Serenissimi Regis Daniæ Missionario inter Indos Orientales, & ecclesiæ ex Indis collect Præposito. Halle Saxonium. Litteris & imprensis Orphanotrophei MDCCXVI. [Tamil grammar, which through a variety of paradigms, rules and necessary vocabulary demonstrates the shortest route to learn the Tamil language, which is also known as Malabarian and is used by the East Indians and until this time was unknown in Europe, may easily be learned by those who at this time wish to use it and desire to lead those peoples [lit. nations] from the worship of the true God and to eternal life [revealed] by the Gospel of Christ. Prepared en route to Europe, in a Danish ship [named Friedrich IV] by Bartholomaeus Ziegenbalg, Appointed Missionary of His Most Serene Majesty, the King of Denmark, to the East Indians and to their churches gathered in India. Halle in Saxony: Typeset and Printed in the Orphanotrophei in 1716]. Special Collection, (MS INS–T 65), SOAS Library, University of London, UK.

Zúñiga, F., & **Kittilä, S.** (2019). *Grammatical Voice*. Cambridge: Cambridge University Press. DOI: https://doi.org/10.1017/9781316671399

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Appendix 1: Comparison of table of contents

	Barros 1540 – Grammatica da lingua Portuguesa	Manuscript n. 1 (HH)	Manuscript n. 2 (Ms Ind 188)	Manuscript n. 3 (GA/PB)	Manuscripts n. 4 (BC)	Manuscript n. 5 (BZ)
\dashv	[title page]	[title page]	[missing]	[title page]	[title page]	[title page]
	[short preface and	[Table of contents]				[dedication]
-	dedication]					
,	Definiçām da Grāmatica e as pártes della					
Auctoris carmen ad librum. / Idem ad christianum pr.ceptorem						
				Auctor Lectori.	Auctor Lectori (this section is found only in [Foreward] Ms Borg.Ind. 12)	[Foreward]
·	Da Letras Da syllabae Da diçam	As Lettras do abece malavar		Letras	Letras Tamulicas (this section is found in Ms 16 [ex Ms 15]) which appears as Lettras Tamuls pella ordem do nosso alphabeto in Ms Sloane 3003)	Literis Lectione ac pronunciatione hujus linguæ
Nominum declinatio (five declensions)	Do nome & das suas Declension of espeçias Nouns Do nome próprio & (five declension comum	[Declension of Nouns] (five declensions)	[Declensions of Nouns] (six declensions)	Declinações (four declensions)	Dos nomes e pronomes (one declension and four different nouns)	Nominibus substantivis (four declensions)
	Do nome Sustantivo e Aietivo Do nome Relativo e Antecedente Da espeçia do nome Do nome	Dos nomes adiectivos	Dos Nomes Adiectivos Dos Comparativos Dos Superaltivos Dos nomes de qualidade e quantitade Dos nomes Numerais	Adiectivos		Adjectivis

	D D :				I	
	Do nome Possessivo Do nome Diminuitivo					
	Do nome Diminuttivo Do nome					
	Aumentativo					
	Do nome					
	Comparativo					
	Do nome					
	denominativos					
	Do nome Verbáes					
	Do nome					
	Participiáes 1.1					
	Do nome Averbiáes					
	Das Figuras do nome (simple e composta)					
	Do genero do nome					
	Do numero que tem					
	o nome					
	Dos nomes					
	irreguláres					
	Dos cásos do nome					
	Dos Artigos					
	Declinações dos					
	artigos, os quáes					
	tambem servem de relativos					
	Das declinações do					
	nome					
	Da formaçam dos					
	nomes em o plurár					
De pronominum	Do pronome e seus	Os pronomes	Dos pronomes	Pronomes	Dos pronomes	Pronominibus
primitivorum	acidentes	os pronomes	Dos pronomes	Tonomes	Do Relativo	
De pronominum	Da figura do					
derivatorum	pronome (simples e	Dos partecipios	1		Dos Adjectivos	
	compostos)	Dos par tecipios			Dos Generos	
	Da Especia Da Figura					
	Do genero, pessoa e					
	numero					
	Dos cásos da					
	primeira declinaçam					
	Declinaçã dos					
	pronomes					
	possessivos					
	Declinaçam dos					
	nomes Relativos					

De verborum coniugatione (four conjugations)	Do verbo Definiçãm e divisám do verbo Do genero do verbo pessoál	[Verb conjugations] (nine conjugations)	Livro 2° Dos Verbos (five conjugations)	Verbos (one conjunction) Verbo passivo	Da Conjugação dos verbos (one conjugation) Muitos outros modos de fallar avulsos	Verbis (one conjugation)
	Dos verbos autivos Dos verbos neutros		Dos Verbos compostos Dos verbos passivos	Verbo passivo Passivo impersonal, ou neutral	Da voz passiva Da composição dos verbos	De voce passiva
De uerbis anomalis De uerbis defectivis				Verbos defectivos e anomalos	Do verbo substantivo, e A(n)nomalos Verbos A(n)nomalos	De verbo substantive De verbis anomalis
De uerborum impersonalium declinatione	Dos verbos impesoáes Da espeçia do Verbo Das figuras do verbo (simples e compostas) Dos tempos do verbo Dos módos de Verbo Das pessoás e numeros do verbo Da coniugaçám do verbo As conjugações Dalgũus suprimentos que temos dos tempos per maneira de rodeo Da formaçam dos verbos per seus tempos e módos Dos preteritos e partecipios Das formações	ou das cousas jrracionaes Dos verbos passivos Sum, es, fui	Dos Verbos Impessoaes Dos verbos defeictivos Dos Participios Do dativo Por acusativo Partecipio do præterito Do nominativo Modos do dativo De acusativo Do partecipio do futuro Do nominativo Do nominativo Do ablativo Do ablativo Dos partecipios do infinito Dos tempos meno principaes [] Da partícula am Da partícula acum Do tempo peculiar	Verbos compostos activos Verbos compostos passivos		De formatione Temporum De formatione praeteriti De formatione imperativi
Rudimenta siue de octo partibus orationis Audimenta de nomine De nominibus positivis, comparativis & superaltivis De pronomine De varijs verborum	Do averbio e suas partés Da especia e figura Da significaçám Da Preposicam Da figura Da interieicam		Das proposicoens [] Adverbios [de tempo, de lugar, de causa, de perguntar,]		Das mais partes da oração Proposições (this section is entitled Posposições in Ms 50 [ex Ms 34]) Adverbios Interjeições Disjunções	Particulis De præpositionibus De Adverbiis De interjectionibus De conjunctionibus

	T	T	T	T	T	
De particípio Declinatio verbi communis Declinatio verbi deponentis De præpositione De adverbio De interiectione De coniunctione De accentibus, sive atributis partum orationis						
De generibus nominum, quæ ex significatione cognoscuntur. (genders of nouns)						
De præteritis & supinis verborum deponentium						
De Octo partium orationis constructione Liber II De constructione intransitive De constructione verbi activi Verbum passivum Gerundia Participiale verbum in dum Participia Constructio transitiva pronominis Præpositionum construction Constructio adverbii Coniunctioniis De figurata	pártes Divisám da construiçãm Da concordançia do nome sustantivo com o aietivo Do regimento dos verbos Dos verbos impesoáes Do regimento dos nomes	Regras pera saber fazer orações nesta limgoa malavar e assi algũs exemplos de orações		e modos dos verbos no conjugar	Daő se algumas regras para preteritos, futuros, Imperativos, Infinitivos, e Pluraes (In Ms. Borg. Ind. 12 and Ms Sloane 3003 this section is entitled <i>Appendix</i>)	Syntaxi

De grammatica intitutione Liber III De syllabarum dimensione	Da orthografia	Da collocação das letras Tamues pella orde(m) do nosso alfabeto (this title is found in Ms 66 [ex Ms 49]; Ms 16 [ex Ms 15]; Ms 50 [ex Ms 34])
De caesura De patrnymicis De prosodia		De Alguns sinaes que nesse vocabulário se observaő (this title is found in Ms 66 [ex Ms 49]; Ms 16 [ex Ms 15]; Ms 50 [ex Ms 34])
		Regras de ortographia (this title is found in Ms 16 [ex Ms 15]; Ms 50 [ex Ms 34])

Appendix 2: Verb forms and their classification in manuscripts

A) HH (Cod. 3141, ff. 37r–139v; Hein & Rajam 2013: 76–220; Vermeer 1982: 30–113)

Verb form in MS	Portuguese gloss	English translation of the	Corresponding		Class [MTL]
(present, 1sg) ¹	(present, 1sg)	Portuguese gloss	verb form		
aliquiren	desfaço	I destroy, I undo	a <u>l</u> i-ttal	1^{st} sub-group = 1^{st} conjugation	11 th tr. caus. 4 th intr.
a V æiquiren	fecho	I close	aṭai-ttal	1^{st} sub-group = 1^{st} conjugation	11 th tr. caus. 4 th intr.
a V aiquiren	moo	I grind	arai-ttal	1 st sub-group = 1 st conjugation	11 th tr. caus. 4 th intr.
azæiquiren	movo	I move	acai-ttal	1^{st} sub-group = 1^{st} conjugation	11 th tr. caus. 4 th intr.
chamæquiren	co(n)certo	(I construct)	camai-ttal	1^{st} sub-group = 1^{st} conjugation	11 th tr. caus. 4 th intr.
chivaliquiren	gasto	I spend	celava <u>l</u> i-ttal	1^{st} sub-group = 1^{st} conjugation	tr. intr.
erhuquiren ²	tomo ou tiro	I take or I take off	eṭu-tal	1^{st} sub-group = 1^{st} conjugation	11 th tr.
meyquiren	apace(n)to	I graze, I plant	mēy-ttal	1 st sub-group = 1 st conjugation	11 th tr. caus. 4 th tr.
ninæiquiren	cuido	I mind [care for]	ni <u>n</u> ai-ttal	1 st sub-group = 1 st conjugation	11 th tr. 4 th tr.
parhiquiren	aprender	I learn	paṭi-ttal	1^{st} sub-group = 1^{st} conjugation	11 th tr. 4 th intr.
po V uquiren	perdoo	I pardon	po <u>r</u> u-ttal	1^{st} sub-group = 1^{st} conjugation	11 th tr.
tæiquiren	cozo costura	I sew	tai-ttal	1^{st} sub-group = 1^{st} conjugation	11 th tr.
teiquiren	esfrego	I rub	tēy-ttal	1^{st} sub-group = 1^{st} conjugation	11 th tr. caus. 4 th intr.
vichuvadiquiren	creo	I believe	vicuvāci-ttal	1^{st} sub-group = 1^{st} conjugation	11 th tr.
piLaquiren	fendo	I split	piḷa-ttal	2^{nd} sub-group = 2^{nd} conjugation	4 th intr.
piraquiren	naço	I am born	pi <u>r</u> a-ttal	2^{nd} sub-group = 2^{nd} conjugation	
quirhaquiren	estar deitado	I lie down	kiṭa-ttal	2^{nd} sub-group = 2^{nd} conjugation	12 th intr.
tagaquiren	quebrar cousa da loica	I break to pieces	takar-ttal	2^{nd} sub-group = 2^{nd} conjugation	11 th tr. caus. 4 th intr.
tiraquiren	abro	I open	ti <u>r</u> a-ttal	2^{nd} sub-group = 2^{nd} conjugation	12 th tr.
valaquiren	crio	I sustain	valar-ttal	2^{nd} sub-group = 2^{nd} conjugation	11 th tr. caus. 4 th intr.
cathquiren ³	vigio	I watch, I observe	kā-ttal	3^{rd} sub-group = 3^{rd} conjugation, 1^{st} species	11 th tr.
pathquiren	olho	I look at	pār-ttal	3^{rd} sub-group = 3^{rd} conjugation, 1^{st} species	11 th tr.
quorquiren ⁴	ẽfio, enfio	I string [the needle]	kō-ttal	3^{rd} sub-group = 3^{rd} conjugation, 1^{st} species	11 th tr.
tithquiren	julgo	I judge	tīr-ttal	3^{rd} sub-group = 3^{rd} conjugation, 1^{st} species	11 th tr. caus. 4 th intr.
varquiren ⁵	deito cousa liquida	I pour	vār-ttal	3^{rd} sub-group = 3^{rd} conjugation, 1^{st} species	11 th tr. caus. 4 th intr.
aviLquiren	desato	I untie	avi <u>l</u> -tal	3^{rd} sub-group = 3^{rd} conjugation, 2^{nd} species	4 th intr. 11 th tr. caus.
nilquiren	espsero	I wait	nil-tal	3^{rd} sub-group = 3^{rd} conjugation, 2^{nd} species	3 rd intr.
queLquiren	ouço	I hear	kēļ-tal	3^{rd} sub-group = 3^{rd} conjugation, 2^{nd} species	9 th tr.
vilquiren	vẽdo, vendo	I sell	vil-tal	3^{rd} sub-group = 3^{rd} conjugation, 2^{nd} species	10 th tr.

Verb form in MS	Portuguese gloss	English translation of	Corresponding	Group Type B	Class [MTL]
(present, 1sg)	(present, 1sg)	the Portuguese gloss	verb form	2 42	
aRRiRRen	bailo	I dance	āṭu-tal	1 st sub-group = 4 th conjugation	5 th intr.
cachiren	cozo	I cook	kāyccu-tal	1^{st} sub-group = 4^{th} conjugation	5^{th} tr. caus. of $k\bar{a}y$
caLatiren	aparto	I take apart	ka <u>l</u> a <u>rr</u> u-tal	1^{st} sub-group = 4^{th} conjugation	5 th tr. caus. of <i>ka<u>l</u>al</i>
eduvaguiren ⁶	no PT		eṭu-tal	1^{st} sub-group = 4^{th} conjugation	11 th tr.
enniren	conto	I count	eṇṇu-tal	1^{st} sub-group = 4^{th} conjugation	5 th tr.
eRRen	carrego	I load	ē <u>rr</u> u-tal	1^{st} sub-group = 4^{th} conjugation	5 th tr. intr.
eRiRRen	subo	I climb	ē <u>r</u> u-tal	1^{st} sub-group = 4^{th} conjugation	·
mandarhuguiren ⁷	rogo	I implore		1^{st} sub-group = 4^{th} conjugation	
naLpogurren	faço vida	I pass the days	nāļ (N) pō-tal	1^{st} sub-group = 4^{th} conjugation	4 th & 5 th intr. (<i>pō</i>)
niquiren	aparto	I remove	nīkku-tal	1^{st} sub-group = 4^{th} conjugation	5 th tr. caus of <i>nīnku</i>
paRRumaRRuguiren ⁸	no PT			1^{st} sub-group = 4^{th} conjugation	
paluguiren ⁹	no PT			1^{st} sub-group = 4^{th} conjugation	
parhiguiren	canto	I sing	pāṭu-tal	1^{st} sub-group = 4^{th} conjugation	5 th tr.
porê	no PT	(I go)	pō-tal	1^{st} sub-group = 4^{th} conjugation	4 th & 5 th intr.
udaviren	ajudo	I help	utavu-tal	1^{st} sub-group = 4^{th} conjugation	5 th tr.
vananguiren	no PT	(I worship)	vaṇaṅku-tal	1^{st} sub-group = 4^{th} conjugation	5 th intr.
coLiren	co(m)pro	I buy	koḷḷu-tal	2^{nd} sub-group = 5^{th} conjugation, 1^{st} sp.	$2^{\rm nd}$ tr.
coliren	mato	I kill	kol-tal	2^{nd} sub-group = 5^{th} conjugation, 1^{st} sp.	3 rd tr.
molliren ¹⁰	mijo	I urinate	moḷḷu?	2^{nd} sub-group = 5^{th} conjugation, 1^{st} sp.	
pelliren ¹¹	verter agoa	I pour water	pelo?	2^{nd} sub-group = 5^{th} conjugation, 1^{st} sp.	
neruRRen ¹²				2^{nd} sub-group = 5^{th} conjugation, 2^{nd} sp.	
puduren	entro	I enter	pūtu-tal	2^{nd} sub-group = 5^{th} conjugation, 2^{nd} sp.	13 th intr.
taruRRen	dou	I give	tā-tal	2^{nd} sub-group = 5^{th} conjugation, 2^{nd} sp.	13 th tr.
taviruren	deixo	I leave	tavir-tal	2^{nd} sub-group = 5^{th} conjugation, 2^{nd} sp.	4 th intr 11 th tr. caus.
vaLaruren	creço	I grow	vaļar-tal	2^{nd} sub-group = 5^{th} conjugation, 2^{nd} sp.	4 th intr 11 th tr. caus.
vaRRen	venho	I come	vā-tal	2^{nd} sub-group = 5^{th} conjugation, 2^{nd} sp.	13 th intr.
meýRRen ¹³	coubro cousa da casa	I roof the house	mēy-tal	3^{rd} sub-group = 6^{th} conjugation	4 th tr. & intr. 11 th tr. caus.
paýRRen	salto	I jump	pāy-tal	3^{rd} sub-group = 6^{th} conjugation	4 th intr. & tr.
eyýRRen	tiro co(m) seta	I shoot an arrow	ey-tal	3^{rd} sub-group = 6^{th} conjugation	1 st tr. (11 th ey-ttal, intr. to grow)
aRRiýRRen	sei	I know	a <u>r</u> i-tal	3^{rd} sub-group = 6^{th} conjugation	4 th tr.
cheiýRRen	no PT	(I do)	cey-tal	3^{rd} sub-group = 6^{th} conjugation	1 st tr. (11 th <i>cey-ttal</i> , tr. to overcome)
paRRæýRRen	falo	I speak	pa <u>r</u> ai-tal	3^{rd} sub-group = 6^{th} conjugation	4 th tr. 11 th tr.
tiriýRRen	no PT	(I turn)	tiri-tal	3^{rd} sub-group = 6^{th} conjugation	4 th intr. & tr.
væýRRen ¹⁴	(deso(n)ro)	I curse	vai-tal	3^{rd} sub-group = 6^{th} conjugation	1 st tr. (11 th vai-ttal, tr. to put, place)

Verb form in MS	Portuguese gloss	English	Corresponding verb form	Group Type C	Class [MTL]
(present, 1sg)	(present, 1sg)	translation of the			
		Portuguese gloss			
irhuguiren	meto	I put	iṭu-tal	1^{st} sub-group = 7^{th} conjugation	6 th tr.
poRRuren	no PT	(I pardon)	po <u>r</u> u-ttal	1^{st} sub-group = 7^{th} conjugation	11 th tr. & intr.
caLuviRRen	lavo	I wash	ka <u>l</u> uvu-tal	1^{st} sub-group = 7^{th} conjugation	5 th tr.
parhuguiren	padeço	I suffer	paṭu-tal	1^{st} sub-group = 7^{th} conjugation	6 th intr.
thorhuguiren	toquo	I touch	toṭu-tal	1^{st} sub-group = 7^{th} conjugation	6 th tr. (intr. to occur)
peruguiren ¹⁵	andar ao pairo		peru-tal	1^{st} sub-group = 7^{th} conjugation	11 th intr. (<i>peru-ttal</i>)
aLuguiren	choro	I cry	a <u>l</u> u-tal	2^{nd} sub-group = 8^{th} conjugation	1 st intr.
poruguiren	peleiyo=pelejo	I fight	poru-tal	2^{nd} sub-group = 8^{th} conjugation	1 st intr. (tr. to play)
biluguiren				2^{nd} sub-group = 8^{th} conjugation	
canguiren ¹⁶	veio	I see	kāṇ(ṇu)-tal	3^{rd} sub-group = 9^{th} conjugation	13 th irr. tr.
unguiren	como	I eat	นทุ(ทุน)-tal	3^{rd} sub-group = 9^{th} conjugation	7 th tr.
enguiren	digo	I say	e <u>n(nu)-tal</u>	3^{rd} sub-group = 9^{th} conjugation	8 th tr.
tynguiren	como	I eat	ti <u>n</u> (<u>n</u> u)-tal	3^{rd} sub-group = 9^{th} conjugation	8 th tr.
caLavanguiren	furto	I steal	kaļavāṇ(ṇu)-tal	3^{rd} sub-group = 9^{th} conjugation	? intr

B) Ms Ind 188 (Indien 188, ff. 24r-40v)

Verb form in MS	Portuguese gloss	English translation of the Portuguese gloss	Corresponding verb	Conjugations	Class [MTL]
(present, 1sg)	(infinitive)		form		
vicuvātikki <u>r</u> en ¹⁷	crer	to believe	vicuvāci-ttal	1 st conjugation	11 th tr.
takakki <u>r</u> en	quebrar	to burn	taka <u>n</u> i-ttal	1 st conjugation	11 th tr.
cinakki <u>r</u> en ¹⁸	agatarse	to get angry	ci <u>n</u> a-ttal	1 st conjugation	12 th tr. & intr.
uļakki <u>r</u> eņ	criar	to sustain	uļatā-tal	1 st conjugation	intr.
pilakki <u>ren¹⁹</u>	estar forte	to be strongh	pila-ttal	1 st conjugation	11 th intr.
piļakki <u>r</u> e <u>n</u>	fender	to split	piḷa-ttal	1 st conjugation	4 th intr. & tr.
iļakki <u>r</u> en	perder	to lose	iļakku-tal	1 st conjugation	5 th intr. caus.
cumakki <u>r</u> en	acaretar	(to bear)	cuma-ttal	1 st conjugation	12 th intr.
parakkiren	avoar	to fly	pa <u>r</u> a-ttal	1 st conjugation	4 th intr.
marakkiren	esquecer	to forget	ma <u>r</u> a-ttal	1 st conjugation	12 th tr.
ka <u>r</u> akkiēe <u>n</u>	tirar, ordinhar	to order	ka <u>r</u> a-ttal	1 st conjugation	12 th tr.
kaṭakkiren	passar	to pass through	kata-ttal	1 st conjugation	4 th tr. & intr.
kalakki <u>r</u> en	misturar	to mix	kala-ttal	1 st conjugation	12 th intr.
pi <u>r</u> akki <u>r</u> en	nasser	to be born	pi <u>r</u> a-ttal	1 st conjugation	
kiţakki <u>r</u> en	deitarse	to lie down	kiṭa-ttal	1 st conjugation	12 th intr.
națakkieē <u>n</u>	andar	to walk	nata-ttal	1 st conjugation	12 th intr.
alakkiren	medir	(to measure)	ala-ttal	1 st conjugation	12 th tr.
vikki <u>r</u> en ²⁰	vender	to sell	vil-tal	2 nd conjugation	10 th tr. & intr.
urikki <u>r</u> en	tirar pella, pellar	to peel	uri-ttal	2 nd conjugation	11 th tr. caus. 4 th int
tirikkiren	torzer corda	to twist rope	tiri-ttal	2 nd conjugation	11 th tr. caus 4 th intr
āriki <u>r</u> eņ ²¹	saber	to know	ari-tal	3 rd conjugation	4 th tr.
uriki <u>r</u> en	dispir	to remove clothes	uri-tal	3 rd conjugation	4 th intr.
umiki <u>r</u> en	cospir	to spit	umi <u>l</u> -tal	3 rd conjugation	4 th tr.
erikiren	tirar pedra, lançar	to throw stone, to cast	e <u>r</u> i-tal	3 rd conjugation	4 th tr. & intr.
tiriki <u>r</u> en	andar	to walk	tiri-tal	3 rd conjugation	4 th intr.
akaluki <u>r</u> en ²²	no PT		akal-tal ²⁵	4 th conjugation	4 th tr.
amaruki <u>r</u> en	no PT		amar-tal	4 th conjugation	4 th intr.
makilukiren	estar contente	to be happy	maki <u>l</u> -tal	4 th conjugation	4 th intr.
paluki <u>r</u> en	multiplicar	to multipy	pal(u)ku-tal	4 th conjugation	5 th intr.
melukiren ²³	bostiar	to cleanse the floor with cow-dung water	meluku-tal	4 th conjugation	5 th tr.
va <u>l</u> uki <u>r</u> en	escorregar	to slip	va <u>l</u> ukku-tal	4 th conjugation	5 th intr. & tr.
talluki <u>r</u> en	fazer pincher		tallu-tal	4 th conjugation	5 th intr. & tr.
allukiren	apanhar	to take, to catch	aḷḷu-tal	4 th conjugation	5 th intr.
collukiren	falar	to speak	col(lu)-tal	4 th conjugation	5 th tr.
kolluki <u>r</u> en	mattar	to kill	kol(lu)-tal	4 th conjugation	3 rd tr.
koḷḷukiren	no PT		koḷḷu-tal	4 th conjugation	2 nd tr. & intr.
ettukiren ²⁴	engannar, fallere	to cheat	ettu-tal	5 th conjugation	5 th tr.
erakkiren	bottar bache(?)	(to cast forth)?	erattu- tal (?)	5 th conjugation	5 th tr.

urukkiren	fonder	to liquefy	urukku-tal	5 th conjugation	5 th tr. caus.
amukki <u>r</u> e <u>n</u>	afogar	to drown	amukku-tal	5 th conjugation	5 th tr. caus.
iņaṅkiren	aiuntar, se por amigo	to unite, to be friend	iṇaṅku-tal	5 th conjugation	5 th intr.
tińki <u>r</u> en	comer	to eat	ti <u>n(n</u> u)-tal	No conjugation	8 th tr.
uņki <u>r</u> en	comer	to eat	นทุ(ทุน)-tal	No conjugation	7 th tr.
ākiren	ser ou estar	to be	āku-tal	No conjugation	Intr.
poren	ir	to go	pō-tal	No conjugation	4 th /5 th intr.
kāņkiren	ver	to see	kāṇ-tal	No conjugation	13 th tr.
cākireņ	morer	to die	cā-tal	No conjugation	13 th intr.

C) GA/PB (Cod. Orient. 283, f. 40v)

Verb form in MS (present, 1sg)	Portuguese gloss (infinitive)	English translation of the Portuguese gloss	Corresponding verb form	Groups	Class [MTL]
pïlacren	fender	to split	piḷa-ttal	acren>nden	4 th tr. & intr.
naracren	andar	to walk	naṭa-ttal	acren>nden	12 th intr.
carracren	ordinar	to order	_	acren>nden	_
quiracren	jazer	to lie down	kiṭa-ttal	acren>nden	12 th intr.
virumbugren	desejar	to wish	virumpu-tal	gradu>inen	5 th tr.
vurugren	deixar, largar	to leave, to realase	viṭu-tal	gradu>inen	6 th tr.
pugalugren	louvar	to praise	pukal(lu)-tal	gradu>inen	3 rd tr. & intr.
tirugren	concluir negocio	to complete business	_	gradu>inen	
tingren	comer	to eat	ti <u>n(n</u> u)-tal	gradu>inen	8 th tr.

D) BC (Ms 50, from fol. M-34-42, Left column, line 8 to fol. M-34-44, Left column, line 25, *Third Title*)

Verb form in MS	Corresponding verb form	Rules	Class [MTL]
(present, 3sg or verbal noun)	correspondence of the		(
vicuvacikkiratu	vicuvāci-ttal	1 st rule ²⁶	11 th tr.
aţaikkiratu	atai-ttal	1 st rule	11 th tr. caus. 4 th intr.
mēykki <u>r</u> atu	mēy-ttal	1 st rule	11 th tr. caus. 4 th intr.
aţaikiratu	atai-tal	2 nd rule ²⁷	4 th intr.
arikiratu	ari-tal	2 nd rule	4 th intr.
peyki <u>r</u> atu	pey-tal	2 nd rule	1 st intr.
vaiki <u>r</u> atu	vai-tal	2 nd rule	
neyki <u>r</u> atu	ney-tal	2 nd rule	
ma <u>r</u> akkiratu	mara-ttal	3 rd rule ²⁸	12 th tr.
naţakkiratu	naṭa-ttal	3 rd rule	12 th intr.
veki <u>r</u> atu	vē-tal	4 th rule ²⁹	13 th intr.
noki <u>r</u> atu	nō-tal	4 th rule	13 th intr.
pokki <u>r</u> atu	pō-tal	4 th rule	4 th & 5 th intr.
nokki <u>r</u> atu	nōkku-tal	4 th rule	5 th tr.
pēcuki <u>r</u> atu	pēcu-tal	5 th rule ³⁰	5 th intr.
ūttukiratu	ūtu-tal	5 th rule	5 th tr.
koļļukiratu	koḷḷu-tal	6 th rule ³¹	$2^{\rm nd}$ tr.
piraļuki <u>r</u> atu	pi <u>r</u> aļ(ļ)u-tal	6 th rule	2 nd intr. or 4 th intr.
āļukiratu	$\bar{a}l(lu)$ -tal	6 th rule	$2^{\rm nd}$ tr.
kollukiratu	kol(lu)-tal	7 th rule ³²	3 rd tr.
velluki <u>r</u> atu	vel(lu)-tal	7 th rule	3 rd tr.
colluki <u>r</u> atu	collu-tal	7 th rule	5 th tr.
celluki <u>r</u> atu	cel(lu)-tal	7 th rule	3 rd intr. & tr.
varukiratu	vāru-tal	8 th rule ³³	5 th tr.
vaļarki <u>r</u> atu	vaļar-tal	8 th rule	4 th intr.
paṭuki <u>r</u> atu	paṭu-tal	9 th rule ³⁴	6 th intr. & tr.
iṭuki <u>r</u> atu	iṭu-tal	9 th rule	6 th tr.
vaṅki <u>r</u> atu	vāṅku-tal	10 th rule ³⁵	5 th tr. & intr.
piţuṅki <u>r</u> atu	piṭuṅku-tal	10 th rule	5 th tr.
pāṛkiṛatu	pār-tal	11 th rule ³⁶	11 th tr.
korkiratu	kol(lu)-tal	11 th rule	3 rd tr.
virkiratu	vil-tal	11 th rule	10 th tr.
aṭakki <u>r</u> atu	aṭakku-tal	12 th rule ³⁷	5 th tr. Caus.
maṭakki <u>r</u> atu	maṭakku-tal	12 th rule	5 th tr. Caus. & intr.
otukki <u>r</u> atu	oṭukku-tal	12 th rule	5 th tr. Caus.

E) CJB (Beschi 1728 [1738]: 49–58, §§ 54–65; Mahon 1848: 43–49, §§ 54–65)

Verb form in MS	English gloss [in Mahon 1848]	Corresponding verb form	Rules for the first	Class [MTL]
(present, 3sg. or verbal	(infinitive)		group: verbs in <i>cradu</i>	
noun)			(-kki <u>r</u> -)	
mēykki <u>r</u> atu	to feed	mēy-ttal	1 st rule ³⁸	11 th tr. Caus. 4th tr., intr.
moykki <u>r</u> atu	to agglomerate	moy-ttal	1 st rule	11 th intr.
vaļarkki <u>r</u> atu	to nourish	vaļar-ttal	1 st rule	11 th tr. Caus. 4th tr.
tīrkki <u>r</u> atu	to end strife	tīr-ttal	1 st rule	11 th tr. Caus. 4th tr.
pārkki <u>r</u> atu	to see	pār-ttal	1 st rule	11 th tr.
virikki <u>r</u> atu	to extend	viri-ttal	1 st rule	11 th tr. Caus. 4th tr
paṭikki <u>r</u> atu	to learn	pāṭi-ttal	1 st rule	11 th tr.
paṭaikki <u>r</u> atu	to create	paṭai-ttal	1 st rule	11 th tr.
utaikki <u>r</u> atu	to kick the heel	utai-ttal	1 st rule	11 th tr.
paṭukki <u>r</u> atu	to lie down	paṭu-ttal	1 st rule	11 th tr. Caus. 6 th intr.
uţukki <u>r</u> atu	to clothe	uṭu-ttal	1 st rule	11 th tr.
veļukki <u>r</u> atu	to mash	veļu-ttal	1 st rule	11 th intr.
marakkiratu	to forget	ma <u>r</u> a-ttal	2 nd rule ³⁹	12 th tr.
pa <u>r</u> akki <u>r</u> atu	to fly	pa <u>r</u> a-ttal	2 nd rule	4 th intr.
pirakkiratu	to be born	pi <u>r</u> a-ttal	2 nd rule	
irakkiratu	to descend or to die	i <u>r</u> a-ttal	2 nd rule	12 th tr.
maṇakki <u>r</u> atu	(to be united, mingled)	maṇa-ttal	2 nd rule ⁴⁰	12 th intr.
ākkiratu	to make	ākku-tal	3 rd rule ⁴¹	5 th tr. Caus.
nīkkiratu	to put to fight	nīkku-tal	3 rd rule	5 th tr. Caus.
tēkki <u>r</u> atu	to be filled	tēkku-tal	3 rd rule	5 th tr.
tūkkiratu	to suspend from a cross	tūkku-tal	3 rd rule	5 th tr.
nōkki <u>r</u> atu	to look at	nōkku-tal	3 rd rule	5 th tr.

Verb form in MS (present, 3sg verbal noun)	English gloss [in Mahon 1848] (infinitive)	Corresponding verb form	Rules for the II group: verbs in gradu (-kir-)	Class [MTL]
vaņaṅki <u>r</u> atu	to venerate	vaṇaṅku-tal	1 st rule (a) ⁴²	5 th intr.
aṭaṅki <u>r</u> atu	to shut in	aṭaṅku-tal	1 st rule (a)	5 th intr.
iṭaṅki <u>r</u> atu	to agree	iṭaṅku-tal	1 st rule (a)	
uņki <u>r</u> atu	to devour	นทุทน-tal	1 st rule (b)	7 th tr.
kāņki <u>r</u> atu	to see	kāṇṇu-tal	1 st rule (b)	13 th irr. Tr.
tinkiratu	to devour	ti <u>n</u> nu-tal	1 st rule (c)	8 th tr.
e <u>n</u> ki <u>r</u> atu	to say	e <u>nn</u> u-tal	1 st rule (c)	8 th tr.
pēcuki <u>r</u> atu	to speak	pēcu-tal	2 nd rule ⁴³	5 th intr.
naccuki <u>r</u> atu	to desire	naccu-tal	2 nd rule	5 th tr.
e <u>l</u> utuki <u>r</u> atu	to write	e <u>l</u> utu-tal	2 nd rule	5 th intr.
tiruttuki <u>r</u> atu	to perform	tiruttu-tal	2 nd rule	5 th tr.

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tampuki <u>r</u> atu	to confide	tampu-tal	2 nd rule	5 th tr.
appuki <u>r</u> atu	to fix one another	appu-tal	2 nd rule	5 th tr.
paṇṇuki <u>r</u> atu	to make	pannu-tal	2 nd rule	5 th tr.
ulāvuki <u>r</u> atu	to walk about	ulāvu-tal	2 nd rule	5 th intr. & tr.
tummuki <u>r</u> atu	to sneeze often	tummu-tal	2 nd rule	5 th intr.
pi <u>n</u> nuki <u>r</u> atu	to interweave	pi <u>n</u> nu-tal	2 nd rule	5 th tr.
tiruttuki <u>r</u> atu	to perform	tiruttu-tal	2 nd rule	5 th tr.
muṭuki <u>r</u> atu	to turn flight	muṭukku-tal	2 nd rule	5 th tr. Caus. & intr.
tiruţuki <u>r</u> atu		tiruṭu-tal	2 nd rule	5 th tr.
tava <u>r</u> uki <u>r</u> atu		tava <u>r</u> u-tal	2 nd rule	5 th intr.
ēkuki <u>r</u> atu		ēku-tal	2 nd rule	5 th intr.
tēṭuki <u>r</u> atu		tēṭu-tal	2 nd rule	5 th tr.
tē <u>r</u> uki <u>r</u> atu		tē <u>r</u> u-tal	2 nd rule	5 th intr.
takkuki <u>r</u> atu		takku-tal	2 nd rule	5 th intr.
aṇṭuki <u>r</u> atu		aṇṭu-tal	2 nd rule	5 th tr.
kaṭṭukiratu		kaṭṭu-tal	2 nd rule	5 th tr.
ka <u>nr</u> uki <u>r</u> atu		ka <u>nr</u> u-tal	2 nd rule	5 th intr.
cu <u>rr</u> uki <u>r</u> atu		cu <u>rr</u> u-tal	2 nd rule	5 th intr.
āļuki <u>r</u> atu		$\bar{a}l(lu)$ -tal	3^{rd} rule (a) ⁴⁴	2 nd tr.
māļuki <u>r</u> atu		māļ(ļu)-tal	3 rd rule (a)	2 nd intr.
uruļuki <u>r</u> atu		uruļ(ļu)-tal	3 rd rule (a)	2 nd intr.
veruļuki <u>r</u> atu		veruḷ(ḷu)-tal	3 rd rule (a)	2 nd & 5 th intr.
taḷḷuki <u>r</u> atu		taḷḷu-tal	3 rd rule (b)	5 th intr.
tuḷḷuki <u>r</u> atu		tuḷḷu-tal	3 rd rule (b)	5 th intr.
aḷḷuki <u>r</u> atu		aḷḷu-tal	3 rd rule (b)	5 th intr. & tr.
vaļaruki <u>r</u> atu		vaḷar-tal	3^{rd} rule (c) ⁴⁵	4 th intr.
tīruki <u>r</u> atu		tīr-tal	3 rd rule (c)	4 th intr. & tr.
cēruki <u>r</u> atu		cēr-tal	3 rd rule (c)	4 th intr. & tr.
taviruki <u>r</u> atu		tavir-tal	3 rd rule (c)	4 th intr. & tr.
cu <u>l</u> aluki <u>r</u> atu		cu <u>l</u> al(lu)-tal	3 rd rule (d) ⁴⁶	3 rd intr.
a <u>l</u> aluki <u>r</u> atu		a <u>l</u> al-tal	3 rd rule (d)	3 rd intr.
celluki <u>r</u> atu		cel(lu)-tal	3 rd rule (d)	3 rd intr. & tr.
velluki <u>r</u> atu		vel(lu)-tal	3 rd rule (d)	3 rd tr. & intr.
kolluki <u>r</u> atu		kol(lu)-tal	3 rd rule (d)	3 rd tr.
nirkiratu <nillukiratu< th=""><th></th><th>nil-tal</th><th>3rd rule (d)</th><th>3rd intr.</th></nillukiratu<>		nil-tal	3 rd rule (d)	3 rd intr.
a <u>l</u> uki <u>r</u> atu		a <u>l</u> u-tal	3^{rd} rule (e) ⁴⁷	1 st intr.
u <u>l</u> uki <u>r</u> atu		u <u>l</u> u-tal	3 rd rule (e)	1 st tr.
to <u>l</u> uki <u>r</u> atu		to <u>l</u> u-tal	3 rd rule (e)	1 st tr.
umi <u>l</u> uki <u>r</u> atu		umi <u>l</u> -tal	3 rd rule (e)	4 th tr.
avi <u>l</u> uki <u>r</u> atu		avi <u>l</u> -tal	3 rd rule (e)	4 th intr.
tava <u>l</u> uki <u>r</u> atu		tava <u>l</u> -tal	3 rd rule (e)	4 th intr.

vā <u>l</u> ukiratu	 vā <u>l</u> -tal	3 rd rule (e)	4 th intr.
tā <u>l</u> ukihratu	 tā <u>l</u> -tal	3 rd rule (e)	4 th intr. & tr.
aṭaiki <u>r</u> atu	 aṭai-tal	4 th rule ⁴⁸	4 th intr. & tr.
kaṭaiki <u>r</u> atu	 kaṭai-tal	4 th rule	4 th tr.
a <u>r</u> iki <u>r</u> atu	 a <u>r</u> i-tal	4 th rule	4 th tr.
ākiratu	 āku-tal	5 th rule	5 th intr.
pōratu < pōkiratu	 pō-tal	5 th rule	4 th & 5 th intr.
cāki <u>r</u> atu	 cā-ttal	5 th rule	13 th intr.
vēki <u>r</u> atu	 vē-tal		13 th irr. intr.
nōki <u>r</u> atu	 nō-tal		13 th irr. intr.

Appendix 3: Complete list of verbs found in the analysed manuscripts

VERB			DED and DEDS; MTL	Author/Ms
1. ,	அகழ்	aka <u>l</u> -tal	DED.12: to excavate, dig out, pluck out	Ind 188
2.	அசை	acai-ttal	DED.43: to join with, to tie; MTL: to shake	НН
3.	அடக்கு	aṭakku-tal	DED.56: to control, repress, hide conceal	ВС, СЈВ
4.	அடங்கு	aṭaṅku-tal	DED.56: to submit, be subdued, be comrpessed, cease	СЈВ
5.	அடுக்கு	aṭukku-tal	DED.70: to pile up one on the top of another	СЈВ
6.	அடை	aṭai-tal	DED.74: to collect, gather	BC, CJB
7.	அடை	aṭai-ttal	DED.73: to shut, close	НН, ВС
8	அண்டு	aṇṭu-tal	DED.68: to fit, be appropriate to	CJB
9	அப்பு	appu-tal	DED.1928(b): to stick with the hand (as sandal paste)	CJB
10.	அமர்	amar-tal	DED.137: to abide, remain, become tranquil	Ind 188
11.	அமுக்கு	amukku-tal	DED.143: to crush, press, squeeze	Ind 188
12.	அருக்கு	arukku-tal	DED.184: to make scarce; cause to diminish; DED.186: to show disinlination in bargain	BC
13	அருள்	aruļ-tal	DED.190: to be gracious	BC, CJB
	அரை	arai-ttal	DED.191: to grind; arai-tal: to become macerated	НН
15.	அவிழ்	avi <u>l</u> -ttal	DED: —; MTL: to become loose	НН, СЈВ
	அழல்	a <u>l</u> al-tal	DED.234: to burn, glow	CJB
17.		a <u>l</u> i-tal	DED.235: to perish, be ruined, decay, be defeated	BZ
18.		a <u>l</u> i-ttal	DED.235: to destroy; a <u>l</u> i-tal: to perish	HH, BZ
19.		a <u>l</u> u-tal	DED.240: to cry	HH, BC, CJB
	அள்ளு	aḷḷu-tal	DEDS.38: to take up in the hollow of the hand	Ind 188, CJB
21.		aḷa-ttal	DED.252: to measure	Ind 188
	அறி	a <u>r</u> i-tal	DED.365: to know	HH, Ind 188, BC, CJB
	அறு	a <u>r</u> u-tal	DED.267: to digest	СЈВ
	ஆ	ā-tal	DED.282: to come into existence, happen, be	СЈВ
	ஆக்கு	ākku-tal	DED.282: to effect, make, cause to be	СЈВ
	ஆ கு	āku-tal	DED.282: to come into existence, happen, be	Ind 188
	ஆடு	āṭu-tal	DED.290: intr. to dance; tr. Cause to dance	HH, BC
	ஆளு	āḷ(ḷu)-tal	DED.341: (al) to rule, reign over, control or manage	CB, CJB^{49}
	இடங்கு	iṭaṅku	DED:; MTL:	СЈВ
30. g		iṭu-tal	DED.375: to place, deposit, put in	HH, Ind 188, BC
	இணங்கு	iṇaṅku-tal	DED.387: to consent, comply with	Ind 188
32. (iru-ttal	DED.407: to exist, remain, sid down, love, belong to, aux	Ind 188
33. (iļakku-tal	DED.433: to slacken, relax (as a spring), loosen (as a rope)	Ind 188
34. (i <u>r</u> a-ttal	DED.437: to die; DED.438: to go beyond	CJB
35. (i <u>r</u> u-tal	DED.443: to break, snap (as a stick), become severed (as a limb)	CJB
36. <i>i</i>	ஈன்	ī <u>n</u> (<u>n</u> u)-tal	DED.473: to bear, bring forth, yean, produce, yield, bring into being	CJB

38. asia un(nu)-tal DED 515: to ear or drink HIII, Ind 188, CJB 39. a. βa ja utai-tal DED 522: to kick, spurn, beat; MTL: to kick, spurn, reject, discharge, beat CJB 41. a. la ligi umil-tal DED 527: to kick, spurn, beat; MTL: to kick, spurn, reject, discharge, beat Ind 188, CJB 42. a. β uri-tal DED 561: to peel, strip off, deprove of, rob Ind 188 43. a. β uri-tal DED 561: to peel, strip off, deprove of, rob Ind 188 45. a. gai uriklu-tal DED 561: to blough off, flay, strip off Ind 188 46. a. con'aq uilsvu-tal DED 571: to roll, tumble over and over CJB 47. a. cg uju-tal DED 571: to roll, tumble over and over CJB 48. a. mga uilu-tal DED: 218: to move about, walk or ride for recreation CJB 48. a. mga uilu-tal DED: 321: to move about, walk or ride for recreation CJB 50. n/g uilu-tal DED: 322: to about, walk or ride for recreation GJB 51. n/g eut-tal DED: 323: to about, walk or ride for recreation BC 50. n/g uilu-tal DED: 322: to about,		37.	உடு	uţu-ttal	DED.502: to put on, as clothes	СЈВ
39 a, s,				un(nu)-tal	•	HH, Ind 188, CJB
40. 2. 205		39.	உதவு	utavu-tal	DED.522: to give, contribute, help, assist	НН
41. \(\alpha \beta \				utai-ttal	DED.527: to kick, spurn, beat; MTL: to kick, spurn, reject, discharge, beat	CJB
42. a. b. uri-tal DED.561: to peel, strip off, deprove of, rob Ind 188 43. a. β. uri-ttal DED.561: to slough off, flay, strip off Ind 188 44. a. g. β. w urulk(u-tal DED.569: to dissolve with heat, melt, liquefy Ind 188 45. a. g. β. urulk(u)-tal DED.571: to roll, tumble over and over CJB 46. a. a. uraq ulāvu-tal DED.52218: to move about, walk or ride for recreation CJB 47. a. (g. ulqut-tal DED.592: to plough, dig up, root up CJB 48. a. angar ulquā-tal DED.723: to take up, bear, carry will. BC 50. στβ etu-tal DED.723: to rise (as from seat or bed), ascend (as heavenly body), rise by one's own power (as a bird) HH HH 51. στβ etu-tal DED.723: to take up, bear, carry, hold up; MTL: to take up, bear, carry HII 52. σταίσερη etu-tal DED.678: to think, consider, determine, esteem, conjecture, count, reckon HH 53. στίμε etu-tal DED.681: et-, to take rby picking up and carrying, take off (cloak), rise (as legs to the sky) Ind 188 54. στίμε etu-tal DED.691: to discharge arrow CJB		41.	உமிழ்	umi <u>l</u> -tal		Ind 188, CJB
44. a. σ,σ,dσ urukku-tal DED.50: to dissolve with heat, melt, liquefy 45. a. σ,σ,dd urul(μ)-tal DED.571: to roll, tumble over and over 46. a. σ,dd ulu-tal DED.571: to roll, tumble over and over 47. a. σ,dd ulu-tal DED.571: to roll, tumble over and over 48. a. σ,σ,σ ulu-tal DED.52: to plough, dig up, root up 49. a. σ,σ,σ ulu-tal DED.53: to blow (as a wind instrument, a fire), blow out (as a lamp) 50. σ,σ culu-tal DED.73: to tisc (as from seat or bed), ascend (as heavenly body), rise by one's own power (as a bird) HH 51. σ,σ,σ culu-tal DED.73: to tisc (as from seat or bed), ascend (as heavenly body), rise by one's own power (as a bird) HH 52. σ,σ,σ,σ,σ culu-tal DED.73: to tisc (as from seat or bed), ascend (as heavenly body), rise by one's own power (as a bird) HH 53. σ,σ,σ,σ culu-tal DED.73: to tisc (as from seat or bed), ascend (as heavenly body), rise by one's own power (as a bird) HH 53. σ,σ,σ,σ culu-tal DED.73: to tisk up, bear, carry, hold up; MTL: to take up, bear, carry		42.	உரி	uri-tal		Ind 188
44. a. cg disc) 45. a. cg disc) 46. a. cg disc) 47. a. cg disc) 48. a. cg disc) 49. a. cg disc) 40. a. cg disc) 41. a. cg disc) 42. a. cg disc) 43. a. cg disc) 44. a. cg disc) 45. a. cg disc) 46. a. cg disc) 47. a. cg disc) 48. a. ca rg gi disc) 49. a. cg disc) 40. disc) 40. a. cg disc) 40. disc) 40. a. cg d		43.	உரி	uri-ttal	DED.561: to slough off, flay, strip off	Ind 188
45. a. gain urul(u)-tal DED. 571: to roll, tumble over and over 46. a.				urukku-tal		Ind 188
46. a. a.may ulāvu-tal DED: 2218: to move about, walk or ride for recreation CJB 47. a. cy ulu-tal DED: 592: to plough, dig up, root up 48. a. a.msn ulaā-tal DED: —; MTL: to originate, come into being Ind 188 49. a.msn ulaā-tal DED: 638: to blow (as a wind instrument, a fire), blow out (as a lamp) BC 50. στφ etu-tal DED. 732: to rise (as from seat or bed), ascend (as heavenly body), rise by one's own power (as a bird) HH 51. στφ etu-tal DED. 732: to take up, bear, carry, hold up; MTL: to take up, bear, carry HH 52. στσόπομ etnu-tal DED. 678: to think, consider, determine, esteem, conjecture, count, reckon HH 53. στσόμ etu-tal DED. 681: et-, to take /by picking up and carrying, take off (cloak), rise (as legs to the sky) Ind 188 54. στω ey-tal DED. 691: to discharge arrow HH, Ind 188 55. στιμμά elunu-tal DED. 725: to write, paint, draw CJB 56. στιμμά elunu-tal DED. —; MTL: elu, to rise, as from a seat or bed BZ 57. στιμμά elunpu-tal DED. —; MTL: εlu, to rise, as from a seat or bed BZ 58. σιμμά erpi-tal DED. 31: to throw, discharge, hack, chop, smash, destroy, beat, pounce, kick Ind 188 60. στμ eru-tal DED. 731, N: throw, beating HH 61. στω entry en				uruļ(ļu)-tal	DED.571: to roll, tumble over and over	CJB
48. e.σησπ ulatā-tal DED: —; MTL: to originate, come into being DED. das to blow (as a wind instrument, a fire), blow out (as a lamp) BC 50. σηΦ ctu-tal DED.723: to rise (as from seat or bed), ascend (as heavenly body), rise by one's own power (as a bird) HH 51. σηΦ ctu-tal DED.723: to take up, bear, carry, hold up; MTL: to take up, bear, carry HH 52. στοσίσσου enju-tal DED.678: to think, consider, determine, esteem, conjecture, count, reckon HH 53. στοσίσσου etut-tal DED.681: et-, to take by picking up and carrying, take off (cloak), rise (as legs to the sky) Ind 188 55. στωμάμ elumu-tal DED.755: to write, paint, draw CJB 56. στωμάμ elumpu-tal DED.—; MTL: blue, to rise, as from a seat or bed 57. στωμάμ elumpu-tal DED:—; MTL: blue or rise, as from a seat or bed 58. στωμάμ elumpu-tal DED:—; MTL: blue, to rise, as from a seat or bed 59. στωμάμ elumpu-tal DED:—; MTL: 5th, to radiate, caste forth 59. στωμ eru-tal DED.731: to throw, discharge, hack, chop, smash, destroy, beat, pounce, kick Ind 188 60. στωμ eru-tal DED.737: to say, utter, express HH, BC, CJB 61. στωμ eru-tal DED.776: to lift up, raise, increase (as price), load (as a cart or ship) HH 62. στωμ eru-tal DED.776: to lift up, raise, increase (as price), load (as a cart or ship) HH 63. σφωσίω οτμάκι-tal DED.776: to lift up, raise, increase (as price), load (as a cart or ship) HH 64. στωμ èru-tal DED.776: to rise, ascend (). Mount, climb, abound in number HH 65. φΦωσίω οτμάκι-tal DED.804: to subjugate, deduce, restraint, subdue, rob 66. φΦωσίω οτμάκι-tal DED.990: to vomit, eject 67. σωμ katu-tal DED.990: to vomit, eject 68. σωμ katu-tal DED.990: to loum, turn in lathe, mash to pulp 71. σωμ katu-tal DED.990: to loum, turn in lathe, mash to pulp 72. σωμ kala-ttal DED.991: to mix, unite in friendship; DED.1093: to appear, come into being, spread Ind 188 DED.1154: to wash, purify HH 74. σωμο kalpu-tal DED.1154: to wash, purify			_	ulāvu-tal	DED: 2218: to move about, walk or ride for recreation	CJB
48.		47.	உழு	u <u>l</u> u-tal	DED: 592: to plough, dig up, root up	CJB
49. asrigi				uļatā-tal		Ind 188
50. σ⊙ etu-tal DED.723: to rise (as from seat or bed), ascend (as heavenly body), rise by one's own power (as a bird) HH 51. σ⊙ etu-tal DED.723: to take up, bear, carry, hold up; MTL: to take up, bear, carry HH 52. σ∞σσσσσσσσσσσσσσσσσσσσσσσσσσσσσσσσσσσ			•	ūtu-tal	DED. 638: to blow (as a wind instrument, a fire), blow out (as a lamp)	BC
51. எடு etu-ttal DED.723: to take up, bear, carry, hold up; MTL: to take up, bear, carry HH 52. என்ணு ennu-tal DED.678: to think, consider, determine, esteem, conjecture, count, reckon HH 53. என்னு etu-tal DED.681: et-t, to take /by picking up and carrying, take off (cloak), rise (as legs to the sky) Ind 188 54. எய் ey-tal DED.691: to discharge arrow HH, Ind 188 55. எழுத் eļutu-tal DED.725: to write, paint, draw CJB 56. எழும்பு eļumpu-tal DED:—; MTL: eļu, to rise, as from a seat or bed BZ 57. எழுப்பு eļuppu-tal DED:—; MTL: to cause or help to rise BZ 58. எறுப்பு eļutpu-tal DED:—; MTL: 5 th , to radiate, caste forth Ind 188 59. எறி eri-tal DED.731: to throw, discharge, hack, chop, smash, destroy, beat, pounce, kick Ind 188 60. எறு eru-tal DED.731: to throw, discharge, hack, chop, smash, destroy, beat, pounce, kick Ind 188 61. என் en(nu)-tal DED.731: to say, utter, express HH, BC, CJB 62. எகு हैku-tal DED.740: to go, pass, walk CJB 63. ஏற்று ērru-tal DED.776: to lift up, raise, increase (as price), load (as a cart or ship) HH 64. எறு ēru-tal DED.776: to rise, ascend () Mount, climb, abound in number HH 65. ஒடுக்கு otukku-tal DED.804: to subjugate, deduce, restraint, subdue, rob 66. ஓடுக்கு kakku-tal ⁵⁰ DED.909: to vomit, eject BD.909: to pass through, traverse, cross to cause to drive, go, transport Ind 188 67. கட்கு kaṭu-tal DED.963: to remit, pay up 67. கடை kaṭa-ttal DED.975: to churn, turn in lathe, mash to pulp 67. கடை katai-tal DED.975: to churn, turn in lathe, mash to pulp 67. கடை kaṭa-ttal DED.975: to churn, turn in lathe, mash to pulp 71. க.கு kaṭa-ttal DED.975: to churn, turn in lathe, mash to pulp 72. கை kala-ttal DED.909: to mit, nite in friendship; DED.1093: to appear, come into being, spread Ind 188 67. கூற்று kalaṛru-tal DED.1154: to wash, purify				ețu-tal	· · · · · · · · · · · · · · · · · · ·	НН
52. என்னு ennu-tal DED.678: to think, consider, determine, esteem, conjecture, count, reckon 1 HH			-	ețu-ttal		
53. எத்து ettu-tal DED.681: et-, to take /by picking up and carrying, take off (cloak), rise (as legs to the sky) Ind 188 54. எய் ey-tal DED.691: to discharge arrow HH, Ind 188 55. எழுது elutu-tal DED.725: to write, paint, draw 56. எழுத்பு elumpu-tal DED.—; MTL: elu, to rise, as from a seat or bed BZ 57. எழுத்பு eluppu-tal DED:—; MTL: to cause or help to rise BZ 58. எறுட்டு erattu- tal DED:—; MTL: 5th, to radiate, caste forth Ind 188 59. எறி eri-tal DED.731: to throw, discharge, hack, chop, smash, destroy, beat, pounce, kick Ind 188 60. எறு eru-tal DED.737: to say, utter, express HH, BC, CJB 61. என் engul-tal DED.737: to say, utter, express HH, BC, CJB 62. ஏகு Èku-tal DED.776: to lift up, raise, increase (as price), load (as a cart or ship) HH 65. ஒடுக்கு otukku-tal DED.804: to subjugate, deduce, restraint, subdue, rob BC, CJB 66. ஒடுக்கு kakku-tal DED.804: to subjugate, deduce, restraint, subdue, rob BC, CJB 67. கக்கு kakku-tal DED.999: to pass through, traverse, cross to cause to drive, go, transport Ind 188 68. கட்டு kattu-tal DED.999: to pass through, traverse, cross to cause to drive, go, transport Ind 188 69. கடை kata-ttal DED.997: to churn, turn in lathe, mash to pulp 60. கடை kata-ttal DED.997: to churn, turn in lathe, mash to pulp 61. கடை kata-ttal DED.1073: (a) to be charred, scorched to char; (b) to darken, grow black BC 62. கடை kala-ttal DED.1136: to unifasten, loosen,, to take off 63. கடிமுவு kaluvu-tal DED.1154: to wash, purify 64. கடிமுவு kaluvu-tal DED.1154: to wash, purify 65. மாட்டு be defined and carrying, take off (cloak), rise (cloak), price				eṇṇu-tal		НН
Second State Sec				ettu-tal	DED.681: et-, to take /by picking up and carrying, take off (cloak), rise (as legs to the sky)	Ind 188
BZ 57. στωμίνι elumpu-tal DED:—; MTL: elu, to rise, as from a seat or bed 58. στωμίνι elumpu-tal DED:—; MTL: to cause or help to rise 58. στωμίνι elumpu-tal DED:—; MTL: to cause or help to rise 59. στωμίνι erattu- tal DED:—; MTL: 5th, to radiate, caste forth 10. πανμίνι eri-tal DED.731: to throw, discharge, hack, chop, smash, destroy, beat, pounce, kick 10. στωμίνι eru-tal DED.731: to throw, discharge, hack, chop, smash, destroy, beat, pounce, kick 11. στωμίνι eru-tal DED.737: to say, utter, express 11. μΗ, BC, CJB 12. στωμίνι eru-tal DED.740: to go, pass, walk 13. στωμίνι eru-tal DED.776: to lift up, raise, increase (as price), load (as a cart or ship) 14. στωμίνι eru-tal DED.776: to rise, ascend (). Mount, elimb, abound in number 14. στωμίνι eru-tal DED.804: to subjugate, deduce, restraint, subdue, rob 15. Θωμίσ οτιμήκι-tal DED.804: to be restrained, become tranquil, become reduced 16. σωμίσ ακάκν-tal DED.909: to vomit, eject 17. σωμίνι katu-tal DED.999: to pass through, traverse, cross to cause to drive, go, transport 18. σωμίνι kata-ttal DED.997: to churn, turn in lathe, mash to pulp 17. σωμίνι kata-ttal DED.997: to churn, turn in lathe, mash to pulp 17. σωμίνι kata-ttal DED.1073: (a) to be charred, scorched to char; (b) to darken, grow black 18. σωμίνι kala-ttal DED.1136: to unfasten, loosen,, to take off 19. σωμίνι kala-ttal DED.1136: to unfasten, loosen,, to take off 19. σωμίνι kala-ttal DED.1154: to wash, purify				ey-tal		HH, Ind 188
56. காழும்பு elumpu-tal DED: —; MTL: elu, to rise, as from a seat or bed 57. காழும்பு eluppu-tal DED: —; MTL: to cause or help to rise 58. காறம்டு erattu- tal DED: —; MTL: 5th, to radiate, caste forth 59. காறி eri-tal DED.731: to throw, discharge, hack, chop, smash, destroy, beat, pounce, kick 60. காறு eru-tal DED.731; N: throw, beating 61. கான் en(nu)-tal DED.737: to say, utter, express 62. குகு கேய-tal DED.740: to go, pass, walk 63. கூற்று ērru-tal DED.776: to lift up, raise, increase (as price), load (as a cart or ship) 64. குறு ēru-tal DED.776: to rise, ascend (). Mount, climb, abound in number 65. ஒடுக்கு otukku-tal DED.804: to subjugate, deduce, restraint, subdoue, rob 66. ஒடுக்கு kakku-tal DED.804: to be restrained, become tranquil, become reduced 67. கூக்கு kakku-tal DED.99: to yomit, eject 68. கட்டு kata-ttal DED.99: to pass through, traverse, cross to cause to drive, go, transport 67. கூகு karu(kku)-tal DED.99: to intime, mash to pulp 67. கூக karu(kku)-tal DED.1073: (a) to be charred, scorched to char; (b) to darken, grow black 68. கட்டு kala-ttal DED.1073: (a) to be charred, scorched to char; (b) to darken, grow black 69. கூடு kala-ttal DED.1136: to unfasten, loosen,, to take off 69. கூடு kalu-u-tal DED.1154: to wash, purify 60. கூடு kalu-u-tal DED.1154: to wash, purify		55.	எழுது	e <u>l</u> utu-tal	DED.725: to write, paint, draw	CJB
8Z 58. στομέψ equipu-tal DED: —; MTL: to cause or help to rise 59. στομέψ erattu-tal DED: —; MTL: 5th, to radiate, caste forth 59. στομέψ eqi-tal DED.731; to throw, discharge, hack, chop, smash, destroy, beat, pounce, kick 60. στομ equ-tal DED.731; to say, utter, express 61. στοπ eqi(μυ)-tal DED.737; to say, utter, express 62. στομέψ eku-tal DED.740; to go, pass, walk 63. στομέψ equ-tal DED.776; to lift up, raise, increase (as price), load (as a cart or ship) 63. στομέψ equ-tal DED.776; to rise, ascend () Mount, climb, abound in number 64. στομέψ otukku-tal DED.804; to subjugate, deduce, restraint, subdue, rob 65. Θωμέψ otukku-tal DED.804; to be restrained, become tranquil, become reduced 66. Θωμέψ otukku-tal DED.804; to be restrained, become tranquil, become reduced 67. σπέψ kakku-tal ⁵⁰ DED.909; to vomit, eject 68. κπέψ katqu-tal DED.963; to remit, pay up 69. κπε katqu-tal DED.963; to remit, pay up 69. κπε katqu-tal DED.977; to churn, turn in lathe, mash to pulp 70. κσω katqu-tal DED.1073; (a) to be charred, scorched to char; (b) to darken, grow black 72. κσω kala-ttal DED.1073; (a) to be charred, scorched to char; (b) to darken, grow black 73. κεφρη kalquru-tal DED.1136; to unfasten, loosen,, to take off HH 74. κεφρη kalquru-tal DED.1154; to wash, purify				e <u>l</u> umpu-tal	DED: —; MTL: elu, to rise, as from a seat or bed	BZ
59. எறி eri-tal DED.731: to throw, discharge, hack, chop, smash, destroy, beat, pounce, kick Ind 188 60. எறு eru-tal DED.731, N: throw, beating HH 61. என் en(nu)-tal DED.737: to say, utter, express HH, BC, CJB 62. ஏகு ইku-tal DED.740: to go, pass, walk CJB 63. ஏற்று ēru-tal DED.776: to lift up, raise, increase (as price), load (as a cart or ship) HH 64. ஏறு ēru-tal DED.776: to rise, ascend (). Mount, climb, abound in number HH 65. ஒடுக்கு otukku-tal DED.804: to subjugate, deduce, restraint, subdue, rob BC, CJB 66. ஒடுங்கு otukku-tal DED.804: to be restrained, become tranquil, become reduced CJB 67. கக்கு kakku-tal DED.909: to vomit, eject BC, CJB 68. கட்டு kaṭṭu-tal DED.963: to remit, pay up 69. கட kaṭa-ttal DED.995: to pass through, traverse, cross to cause to drive, go, transport Ind 188 67. கடை kaṭa-ttal DED.173: (a) to be charred, scorched to char; (b) to darken, grow black 67. கல kala-ttal DED.1092: to mix, unite in friendship; DED.1093: to appear, come into being, spread Ind 188 67. கமுவு kaluvu-tal DED.1154: to wash, purify			•	e <u>l</u> uppu-tal		BZ
60. எறு eru-tal DED.731, N: throw, beating HH 61. என் en(nu)-tal DED.737: to say, utter, express HH, BC, CJB 62. ஏகு ēku-tal DED.740: to go, pass, walk CJB 63. ஏற்று ērru-tal DED.776: to lift up, raise, increase (as price), load (as a cart or ship) HH 64. ஏறு ēru-tal DED.776: to rise, ascend (). Mount, climb, abound in number HH 65. ஒடுக்கு otukku-tal DED.804: to subjugate, deduce, restraint, subdue, rob BC, CJB 66. ஒடுக்கு otunku-tal DED.804: to be restrained, become tranquil, become reduced CJB 67. கக்கு kakku-tal DED.909: to vomit, eject BC, CJB 68. கட்டு kattu-tal DED.963: to remit, pay up 69. கட kata-ttal DED.963: to remit, pay up 69. கட kata-ttal DED.957: to churn, turn in lathe, mash to pulp 69. கட kata-tal DED.957: to churn, turn in lathe, mash to pulp 60. கட kata-ttal DED.1073: (a) to be charred, scorched to char; (b) to darken, grow black BC 61. கல் kala-ttal DED.1092: to mix, unite in friendship; DED.1093: to appear, come into being, spread Ind 188 62. கழற்று kala-ttal DED.1136: to unfasten, loosen,, to take off HH 63. கழுவு kaluvu-tal DED.1154: to wash, purify		58.	எறட்டு	erațțu- tal	DED: —; MTL: 5 th , to radiate, caste forth	Ind 188
61. என் en(nu)-tal DED.737: to say, utter, express HH, BC, CJB 62. ஏகு ēku-tal DED.740: to go, pass, walk CJB 63. ஏற்று ērru-tal DED.776: to lift up, raise, increase (as price), load (as a cart or ship) HH 64. ஏறு ēru-tal DED.776: to rise, ascend (). Mount, climb, abound in number HH 65. ஓடுக்கு otukku-tal DED.804: to subjugate, deduce, restraint, subdue, rob BC, CJB 66. ஓடுங்கு otunku-tal DED.804: to be restrained, become tranquil, become reduced CJB 67. கக்கு kakku-tal ⁵⁰ DED.909: to vomit, eject BC, CJB 68. கட்டு kaṭu-tal DED.963: to remit, pay up CJB 69. கட kaṭa-ttal DED.929: to pass through, traverse, cross to cause to drive, go, transport Ind 188 70. கடை kaṭai-tal DED.957: to churn, turn in lathe, mash to pulp CJB 71. கரு karu(kku)-tal DED.1073: (a) to be charred, scorched to char; (b) to darken, grow black BC 72. கல kala-ttal DED.1092: to mix, unite in friendship; DED.1093: to appear, come into being, spread Ind 188 73. கழற்று kalaru-tal DED.1136: to unfasten, loosen,, to take off HH 74. கழுவு kaluvu-tal DED.1154: to wash, purify		59.	எறி	e <u>r</u> i-tal	DED.731: to throw, discharge, hack, chop, smash, destroy, beat, pounce, kick	Ind 188
Eku-tal DED.740: to go, pass, walk CJB	(60.	எறு	e <u>r</u> u-tal	DED.731, N: throw, beating	HH
63. ஏற்று Ērru-tal DED.776: to lift up, raise, increase (as price), load (as a cart or ship) 64. ஏறு Ēru-tal DED.776: to rise, ascend (). Mount, climb, abound in number 65. ஒடுக்கு otukku-tal DED.804: to subjugate, deduce, restraint, subdue, rob 66. ஓடுங்கு otunku-tal DED.804: to be restrained, become tranquil, become reduced 67. கக்கு kakku-tal DED.909: to vomit, eject 68. கட்டு kattu-tal DED.963: to remit, pay up 69. கட kata-ttal DED.929: to pass through, traverse, cross to cause to drive, go, transport 69. கட katai-tal DED.957: to churn, turn in lathe, mash to pulp 60. கடை karu(kku)-tal DED.1073: (a) to be charred, scorched to char; (b) to darken, grow black 60. கல kala-ttal DED.1092: to mix, unite in friendship; DED.1093: to appear, come into being, spread 61. கழுவு kaluvu-tal DED.1154: to wash, purify		61.	- என்	en(nu)-tal	DED.737: to say, utter, express	HH, BC, CJB
Fund DED.776: to rise, ascend (). Mount, climb, abound in number HH		62.	ஏகு	ēku-tal	DED.740: to go, pass, walk	CJB
Fu-tal DED.776: to rise, ascend (). Mount, climb, abound in number HH 65. 愛多達要 otukku-tal DED.804: to subjugate, deduce, restraint, subdue, rob BC, CJB 66. 愛多遊婆 otunku-tal DED.804: to be restrained, become tranquil, become reduced CJB 67. 本意要 kakku-tal ⁵⁰ DED.909: to vomit, eject BC, CJB 68. 本止	(-	ē <u>rr</u> u-tal	DED.776: to lift up, raise, increase (as price), load (as a cart or ship)	HH
66. ஒடுங்கு otunku-tal DED.804: to be restrained, become tranquil, become reduced 67. கக்கு kakku-tal ⁵⁰ DED.909: to vomit, eject BC, CJB 68. கட்டு kata-ttal DED.963: to remit, pay up 69. கட kata-ttal DED.929: to pass through, traverse, cross to cause to drive, go, transport Ind 188 70. கடை katai-tal DED.957: to churn, turn in lathe, mash to pulp 71. கரு karu(kku)-tal DED.1073: (a) to be charred, scorched to char; (b) to darken, grow black 72. கல kala-ttal DED.1092: to mix, unite in friendship; DED.1093: to appear, come into being, spread Ind 188 73. கழற்று kalarru-tal DED.1136: to unfasten, loosen,, to take off 74. கழுவு kaluvu-tal DED.1154: to wash, purify		64.	ஏறு	ē <u>r</u> u-tal	DED.776: to rise, ascend (). Mount, climb, abound in number	HH
BC, CJB 68. 本心 kattu-tal DED.963: to remit, pay up 69. 本心 kata-ttal DED.929: to pass through, traverse, cross to cause to drive, go, transport 70. 本命心 katai-tal DED.957: to churn, turn in lathe, mash to pulp 71. 本质 karu(kku)-tal DED.1073: (a) to be charred, scorched to char; (b) to darken, grow black 72. 本命 kala-ttal DED.1092: to mix, unite in friendship; DED.1093: to appear, come into being, spread 73. 本段前別 kalarru-tal DED.1136: to unfasten, loosen,, to take off 74. 本设列 kaluvu-tal DED.1154: to wash, purify	(65.	ஒடுக்கு	oṭukku-tal	DED.804: to subjugate, deduce, restraint, subdue, rob	BC, CJB
CJB CJ	(66.	ஒடுங்கு	oṭuṅku-tal	DED.804: to be restrained, become tranquil, become reduced	CJB
BED.929: to pass through, traverse, cross to cause to drive, go, transport Ind 188 CJB 1. まの	(67. (- கக்கு	kakku-tal ⁵⁰	DED.909: to vomit, eject	BC, CJB
The same katai-tal DED.957: to churn, turn in lathe, mash to pulp CJB Ratu(kku)-tal DED.1073: (a) to be charred, scorched to char; (b) to darken, grow black BC DED.1092: to mix, unite in friendship; DED.1093: to appear, come into being, spread Ind 188 DED.1136: to unfasten, loosen,, to take off HH August Ratuvu-tal DED.1154: to wash, purify HH	(68	கட்டு	kaṭṭu-tal	DED.963: to remit, pay up	CJB
T1. 多质 karu(kku)-tal DED.1073: (a) to be charred, scorched to char; (b) to darken, grow black BC T2. 多如 kala-ttal DED.1092: to mix, unite in friendship; DED.1093: to appear, come into being, spread Ind 188 T3. 多设则 kalarru-tal DED.1136: to unfasten, loosen,, to take off HH T4. 多设则 kaluvu-tal DED.1154: to wash, purify HH	(69.	கட	kaṭa-ttal	DED.929: to pass through, traverse, cross to cause to drive, go, transport	Ind 188
72. கல kala-ttal DED.1092: to mix, unite in friendship; DED.1093: to appear, come into being, spread Ind 188 73. கழற்று kalarru-tal DED.1136: to unfasten, loosen,, to take off HH 74. கழுவு kaluvu-tal DED.1154: to wash, purify HH	,	70	கடை	kaṭai-tal	DED.957: to churn, turn in lathe, mash to pulp	CJB
73. கழற்று ka <u>larr</u> u-tal DED.1136: to unfasten, loosen,, to take off HH 74. கழுவு ka <u>l</u> uvu-tal DED.1154: to wash, purify HH	,	71.	கரு	karu(kku)-tal	DED.1073: (a) to be charred, scorched to char; (b) to darken, grow black	BC
74. கழுவு kaluvu-tal DED.1154: to wash, purify	,	72.	கல	kala-ttal	DED.1092: to mix, unite in friendship; DED.1093: to appear, come into being, spread	Ind 188
9 ,	,	73.	கழற்று			
75. களவாண் kaḷavāṇ(ṇu)-tal DED.1156: kaḷ, to rob, steal, deceive HH	,	74.	கழுவு	ka <u>l</u> uvu-tal	DED.1154: to wash, purify	
	,	75.	களவாண்	kaļavāņ(ņu)-tal	DED.1156: kal, to rob, steal, deceive	HH

,	76. கற		ka <u>r</u> a-ttal	DED.1166: to milk, yield milk (as a cow), extort	Ind 188
	77. கன் <u>ந</u>		ka <u>nr</u> u-tal	DED.1186: to be scorched, sunburnt, melt (as the heart), become sore [], fade, become pale []	CJB
	78. கா	~	kā-ttal	DED.1192: to preserve, shelter, watch, guard, ward off, rescue, wait for	НН, СЈВ
,	79. கான்	ळंग	kāṇ(ṇu)-tal	DED.1209: to see, consider, investigate, appear, become visible	HH, Ind 188, BC, CJB
	80. காய்		kāyccu-tal	DED.1219: to cook	НН
	81. கட		kiṭa-ttal	DED.1277: to lie, lied own as in sleep, in inactivity	HH, Ind 188, GA/PB
	82. கூடு		kūţu-tal	DED.1562: to come together, join, meet, assemble, combine	BC
	83. கூப்ப		kūppuṭu-tal	DED.—; MTL: —	Ind 188
	84. கெ		kellu-tal	DED:—; MTL: to irritate or corrode and waste the stomach, as excessive stimulus	BC
	85. கேள்	_	kēļ-tal	DED.1677-78: to hear, listen, learn, ask, inquire, question, investigate, require	НН
	86. கொ		koy-tal	DED.1763: to pluck	Ind 188
	87. கொ		kol(lu)-tal	DED.1772: to kill	HH, Ind 188, BC, CJB
	88. கொ	ாள்	kol(lu)-tal	DED. 1788: to seize, receive, buy, acquire	HH, Ind 188, BC, CJB
	89. கோ		kō-ttal	DED.1468, 1809: to string (as beads, flowers), insert, thread	НН
(90. சபை	\mathbf{r}	camai-ttal	DED.1934: to create; to be made, constructed	НН
(91. <i>(ச</i> ர்ர	ர/சார்)		DED.2030 (cār): to reach, approach, depend upon, take shelter in, be near to, be associate or connected	GA/PB
	92. சா		cā-tal	DED.2002: to die, be spoiled or blighted (as crops), be exhausted	Ind 188
	93. சின	т	cina-ttal	DED.1332: to be enraged, be very angry, become red with inflammation	Ind 188
(94. சுடு		cuțu-tal	DED.2183: to be hot, burn, warm; tr. heat, burn up, roast, toast, bake, fry	Ind 188
	95. சும		cuma-ttal	DED.2204: to become heavy as debt or interest, be burdened; bear, support	Ind 188
	96. சுழ	ல்	cu <u>l</u> al(lu)-tal	DED.2223: to whirl, spin, rotate, roll, turn on axis (as wheel), revolve in an orbit	CJB
	97. சுற்ற		cu <u>rr</u> u-tal	DED.2238: to revolve, circulate, turn around, spin []	CJB
	98. செத		ceti(kku)-tal	DED.2269 (Ma): to be angry	BC
	99. செத	துக்கு	cetu(kku)-tal	DED.2278: to lose lustre, shrink, be weak; <i>cetukku</i> that which is faded, dried as flowers	CJB
	100. செய்		cey-tal	DED.1628: to do, make	HH, Ind 188, CJB
	101. செரி	ज	ceri-tal	DED: ——; MTL: ——	BZ
	102. செரி	ภิ	ceri-ttal	DED: —; MTL: to be digested	BZ
	103. செவ்	ல்(லு)	cel(lu)-tal	DED.2286: to go, flow, pass, occur	BC, CJB
	104. செவ	லவழி	celava <u>l</u> i-ttal	DED: no; MTL: intr. to be spent, used up, consumed; to die	HH
	105. Сғ		cē-ttal	DED.1656: to dwell, lie, remain, sleep	CJB
	106. சேர்	i	cēr-tal	DED.2312: to become united, incorporated, joined together to join, attach admix	CJB
	107. சொ	ால்லு	col(lu)-tal	DED.2335: to say, speak, tell, mention, utter, express	Ind 188, BC, CJB
	108. தக்கு	5	takku-tal	DED.2443: to stay, sojourn, abide, remain, be stable, firmly established, be retained in the mind, be stable	e CJB
	109. தகர்	Ť	takar-ttal	DED.2429: to break to pieces to be broken into pieces	HH
	110. தகன	न्जी	taka <u>n</u> i-ttal	DED—; MTL: intr. to burn, consume by fire	Ind 188
	111.தகு		taku-tal	DED.2435: to be fit, appropriate, suitable, proper []	CJB
	112.தம்ப	4	tampu-tal	DED: —; MTL: 5 th , to approach	CJB
	113.தரு		taru-tal	DED.2526: to give to 1st or 2nd person	BC, CJB
	114.தவப	ழ்	tava <u>l</u> -tal	DED.2535: to creep, crawl, as infants, lizards	CJB

115. தவறு	tavaru	DED.2498: to slip, trip, fail, miscarry []	СЈВ
116.தவிர்	tavir-tal	DED.2539: intr. to abstain, refrain, to cease to cause to put away	НН, СЈВ
117. தள்ளு	taḷḷu-tal	DED.2559: to push, force forward, shove away	Ind 188, CJB
118.தாரு	tā-tal	DED.—MTL: to give	НН
119.தாழ்	tā <u>l</u> -tal	DED.2597: to fall low, be lowered, be low (as a roof)	CJB
120.தி	tiri-tal	DED.2655: to turn, revolve; tr. to turn, cause to revolve	HH, Ind 188
121.தர	tiri-ttal	DED.2655: tr. to turn, cause to revolve	Ind 188
122. தரு	tiru(ku)-tal	DED.2655: to twist, turn, wring + intr. to be intense	GA/PB
123.தருட	tiruțu-tal	DED.2658: to steal, rob, pilfer	СЈВ
124. திருத்து	tiruttu-tal	DED.2659: to correct, rectify, reform, mend tiruntu-tal: to be correct, perfect	CJB
125. திற	ti <u>r</u> a-ttal	DED.2667: to open	HH
126. தின்	tin(nu)-tal	•	1 188, GA/PB, BC, CJB
127. தீக்கு	tīkku-tal	DED: ——	CJB
128.தேர்	tīr-tal	DED.2683: to leave, quit, finishsettle (dispute) to end, vanish, be completed, finishedsolve	НН, СЈВ
129.தும்மு	tummu-tal	DED.2740: to sneeze, breathe	CJB
130.துள்ளு	tuḷḷu-tal	DED.2767: to leap, frisk, spring up, jump up	CJB
131.தூக்கு	tūkku-tal	DED.2777: (a) to hang, be suspended, swing, sway from side to sideto lift	CJB
132.தேக்கு	tēkku-tal	DED.2843: to dink to the fill, be full, copious	CJB
133.தேடு	tētu-tal	DED.2844: to seek, search for, inquire after, acquire []	CJB
134. தேய்	tēy-ttal	DED. 2846: to rub, rub away, waste by rubbing	НН
135. தேரு	tē <u>r</u> u-tal	DED.2856: to be accepted as true, be clarified, made clear as water, be strenghtened []	СЈВ
136. தை	tai-ttal	DED. 2858: to sew, stich, nail, fasten beams with nails, spikes	HH
137. தொடு	toṭu-tal	DED.2865: to touch, come into contact with	НН
138. தொழு	to <u>l</u> u-tal	DED. 2904: to worship, adore, pay homage to	СЈВ
139. நக்கு	nakku-tal	DED.2945: to lick	BC, CJB
140. நசுக்கு	nacukku-tal	DED.2949: <i>naci</i> , to be crushed; MTL: to squeeze, press with the hand, crush, squash, crumple, as paper	BZ
141. நசுக்கு	nacukku-ttal	DED.2949: naci, to crush; MTL: ——	BZ
142. ந ச் சு	naccu-tal	DED.2951: tr to desire, long for, like, love	CJB
143. நட	nața-ttal	DED.2957: to walk, go, pass, proceed, happen	Ind 188, GA/PB, BC
144. நடுக்கு	natukku-tal	DED.2950: to shiver, tremble, stutter; <i>naṭuṅku-tal</i> : to cause to shake, shiver, quiver tremble through fear	
145. நடுங்கு	naţuṅku-tal	DED.2950: to shake, shover, quiver, tremble through fear, stutter	CJB
146. நாக்கு	nākku-tal	DED.3009: N, tongue; MTL: ——	BC
147. நாள் போ	nāļ pō	DED.3734: $p\bar{o}$, to go, proceed, go away, reach a destination	HH
148. நில்	nil-tal	DED.3043: to stand, stop, haltwait	HH, Ind 188, BC, CJB
149. நினை	ni <u>n</u> ai-ttal	DED.3050: to think, to resolve, to determine; to think, to consider	HH
150. நீக்கு	nīkku-tal	DED.3052: to remove $< n\bar{\imath}$ to separate from	HH, BC, CJB
151.நெய்	ney-tal	DED.3103: to wave as clothes, string, link together	Ind 188, BC, CJB
152. நோ	nō-tal	DED.3143: to feel pain, ache, suffer	BC
153. நோக்கு	nōkku-tal	DED.3144: to see, look at, behold; MTL: caus, to reduce by eating	BC

154.படி	paṭi-ttal	DED.3186: to occur, happen, come into existence	НН
155.படு	paṭu-tal	DED.3191: to suffer	HH, Ind 188, BC, CJB
156. படு	paţu-ttal	DED.3191: to do, make, effect, catch, establish, entrust, cause to grow	CJB
157. பாடு	pāṭu-tal	DED.3348: to sing, chant, warble, hum	НН
158.படை	paṭai-ttal	DED.3191: to create, form produce	CJB
159. பண்ணு	paṇ(ṇu)-tal	DED.3209: to make, effect, produce, accomplish	CJB
	pal(u)ku-tal	DED.—; MTL: to increase as in number or in quantity	HH, Ind 188 (paluku)
161.பற	pa <u>r</u> a-ttal	DED.3311: to hasten hurry to fly, hover, flatter	Ind 188, CJB
162. பறை	pa <u>r</u> ai-tal	DED.3318: to speak, say	НН
163. பாடி	pāṭi-ttal	DED.3348: to sing, chant, warble, hum	CJB
164. பாய்	pāy-tal	DED.3362: to spring, leap, gallop, flow or gush out	НН, ВС
165. பார்	pār-ttal	DED.3666(a): to see, look at	нн, сјв
166.பிடுங்கு	pituṅku-tal	DED: —; MTL: to pull out, pull off	BC
167. பிரள்ளு	piral(lu)-tal ⁵¹	DED: —; MTL: to roll over	BC
168. பில	pila-ttal	DED: —; MTL: to strengthen, confirm	Ind 188
169. பிள	piļa-ttal	DED.3446: to be split, cleaved; tr. to cleave	HH, Ind 188, GA/PB
170. பிற	pi <u>r</u> a-ttal	DED.3622: to be born, be produced	HH, Ind 188, CJB
171.பிறள்	. –	piral-tal DED: N, another woman; MTL: intr. to roll over, or DED.3450: to tremble	BC
172.பின்னு	pinnu-tal	DED.3454: to plait, braid, lace to become united	CJB
173.புகல்	pukal(lu)-tal	DED: —; MTL: to say, declare, state; to desire; to learn; intr: to sound, rejoice	GA/PB
174.புகு	puku-tal	DED. 3481: to reach, attain, enter, commence, go, ride, happen	CJB
175.பூ	pū-ttal	DED.3564: to blossom, flower, bloom	СЈВ
176.பூது	pūtu-tal	DED: —; MTL: to enter < intr. of pukutu	HH, Ind 188
177. பெய்	pey-tal	DED.3610: to rain, fall, pour down or into; tr. put, place, serve up	BC, CJB
178. பெரு	peru-tal	DED.3612: to grow thick, large, stout, become numerous	HH, BC
179.பெலு	pel(lu)-tal	DED: —; MTL: tr. & intr. to ease oneself	HH (?)
180. பெறு	pe <u>r</u> u-tal	DED.3622: to get, obtain, beget, generate, bear	HH (?), Ind 188, CJB
181.பேசு	pēcu-tal	DED.3269: to talk, speak	BC, CJB
182. பொரு	poru-tal	DED.3708: to fight, engage in a battle	НН, СЈВ
183. பொறு	po <u>r</u> u-ttal	DED.3279: to bear, sustain [], excuse; MTL: (+) intr. to be patient	HH
184.போ	pō-tal	DED.3734: to go, proceed, go away, reach a destination	HH, Ind 188, BC, CJB
185.போக்கு	pōkku-tal	DED.3734: to cause to go, send, complete, perform, pass or spend (as time), ruin, kill	CJB
186. போடு	pōṭu-tal	DED.3742: to ast down, cast away, put, set in a position	Ind 188, BC, CJB
187. மகிழ்	maki <u>l</u> -tal	DED.3770: to rejoice, exult, forget oneself in joy	Ind 188
188. மடக்கு	maṭakku-tal	DED.3795: to bend as the arms or knees, draw in, fold, shut	BC
189. மடை	maṭai-tal	DED.3810: N. small sluice of channel or stream, hole	BC
190. மண	maṇa-ttal	DED.3818: to be united, mingled, come together, happen, be fixed	BC
191. மற	ma <u>r</u> a-ttal	DED.3897: to forget, neglect, disregard, put an end to, give up	Ind 188, BC, CJB
192. மாள்(ளு)	māḷ(ḷu)-tal	DED.3958: to die, perish, be exhausted, expanded or finished	СЈВ
()	• (•)	×1	

194. μα μα μα μα μα μα μα μα	193.மிகு	miku-tal	DED.3962: to exceed, surpass, be in excess, grow, increase []	СЈВ
195. μωρ mulu(ku)-tal DED. 4095; to be whole, entire DED. 4132; to cover, shroud, veil, hide, screen, obscure BC 197. θωμφ meljuku-tal DED. 4169; to cleanse floor with cowdung solution, smear as the body with sandal paste, gloss over Ind 188 199. θωώ meÿ-tal DED. 4179; to make, graze, feed HH 199. θωώ meÿ-tal DED. 4179; to make, graze, feed HH 200. θωπό mey-tal DED. 4179; to make, graze, feed HH 200. θωπό moy-tal DED. 4209; to cover, enclose CJB 201. θωπό moy-tal DED. 4209; to take in a vessel, as water. HH BC 202. θωπό muki-tal DED. 4005; to end, terminate, be finished BZ 203. θωπο muki-tal DED. 4005; to end, terminate, be finished BZ 204. θωπο muri-tal DED. 4005; to end, terminate, be finished BZ 205. θωβ muri-tal DED. 4005; to end, terminate, be gentle; to curve; MTL: to break off; to perish; to be ruined BZ 205. θωβ muri-tal DED. 4281; to bend, worship HII, CJB 206. θωπο valuar-tal DED. 4281; to bend, worship DED. 4281; to bend, worship BC 208. θωπό valuar-tal DED. 4305; to sign, happen, come into being, be known, become clear BC 209. θωθφ valuar-tal DED. 4306; to grow, lengthen, be clongated, increase HII, BC 211. θωπό valar-tal DED. 4306; to grow, lengthen, be clongated, increase HII, BC 212. θωπό valar-tal DED. 4384; to surround, hover around, walk around BZ 213. θωπό valar-tal DED. 4384; to surround, hover around, walk around BZ 214. θωπο valar-tal DED. 4384; to surround, hover around, walk around BZ 215. θωπ vān-tal DED. 4384; to surround, hover around, walk around BZ 216. θωπό vicuvici-ital DED. 4384; to surround, hover around, walk around HII, Ind 188, BC 219. θωβφ viru-tal DED. 4385; to help with hirt, to be, exist DED. 4438; to walk hirt, to be, exist DED. 4438; to walk hirt, to be, exist DED. 4438; to with hirt, to be, exist DED. 4438; to with hirt ob execut, plan	194. முடு	muṭu(kku)-tal	DED.4034: to urge, bring pressure on	CJB
1918. \$\$\text{\$\ext{\$\text{\$		mu <u>l</u> u(ku)-tal	DED.4095: to be whole, entire	CJB
1915. Grange me luku-tal DED. 4169: to cleanse floor with cowdung solution, smear as the body with sandal paste, gloss over Intil 1918. Grand me 1919. G	196. முடு	mūṭu-tal	DED: 4132: to cover, shroud, veil, hide, screen, obscure	BC
198. Gub mēy-tal DED.4179; to graze, feed HH 199. Gub mēy-tal DED.4179; to make, graze, feed HH, BC 190. Gub moy-tal DED.4025; to cover, enclose CJB 201. Gub moy-tal DED.4025; to cover, enclose mol(u⟩-tal DED.4025; to cover, enclose BZ 202. gu muki-tal DED.4005; to finish, conclude, achieve, accomplish BZ 203. gu muki-tal DED.4005; to finish, conclude, achieve, accomplish BZ 204. gu muri-tal DED.4005; to finish, conclude, achieve, accomplish BZ 205. gu muri-tal DED.4005; to finish, conclude, achieve, accomplish BZ 206. accomplish muri-tal DED.4005; to finish, conclude, achieve, accomplish BZ 206. accomplish muri-tal DED.4081; to bend, lack in strength, be gentle; to curve; MTL: to break off; to perish; to be ruined BZ 206. accomplish muri-tal DED.4281; to bend, worship HI, CJB 207. acg vari-tal DED.4281; to bend, worship DED.4281; to be bend, worship DED.4281; to be bend, worship DED.4282; to be bend, worship DED.4284; to be bend, wors		me <u>l</u> uku-tal	DED. 4169: to cleanse floor with cowdung solution, smear as the body with sandal paste, gloss over	Ind 188
200. பெளர் றற் படி DED. 42025: to cover, enclose		mēy-tal	DED.4179: to graze, feed	HH
201. மொள்(ளு) mol(u)-tal DED.4209: to take in a vessel, as water. 202. முகி muki-tal DED.4005: to end, terminate, be finished BZ 203. முகி muki-tal DED.4005: to finish, conclude, achieve, accomplish BZ 204. முநி muri-tal DED.4008: to bend, lack in strength, be gentle; to curve; MTL: to break off; to perish; to be ruined BZ 205. முநி muri-tal DED.4080: to bend, lack in strength, be gentle; to curve; MTL: to break off; to perish; to be ruined BZ 205. முநி muri-tal DED.4311: to come, happen, come into being, be known, become clear BC 208. வலர் valar-tal DED.4311: to come, happen, come into being, be known, become clear BC 209. வழக்கு valukbu-tal DED.4310: to sol sip, side as in slipperty places, err, commit a mistake, make an escape, be forgetful Ind 188 210. வளக்கு valar-tal DED.4340: to grow, lengthen, be elongated, increase HIH, BC 211. வளர் valar-tal DED.4340: to cause to increase; 213. வளை valai-tal DED.43484: to surround, hover around, walk around BZ 214. வளை valai-tal DED.4384: to surround hover around, walk around BZ 215. வர vā-tal DED.4372: to receive, take, buy, get, obtain [] 216. வரங்கு vārtu-tal DED.4387: to pour; cast (as metal in a mould) to flow, trickle, overflow HIH 216. வரங்கு vārtu-tal DED.4397: to take by handfulls, take in a sweep scoop, take in or grasp with avidity, gather BC, CIB 219. வரழ் vāl-tal DED.4397: to to eceive, take, buy, get, obtain [] 219. வரழ் vāl-tal DED.4397: to to eceive, take, buy, get, obtain [] 219. வரழ் vārtu-tal DED.4397: to to eceive, take, buy, get, obtain [] 220. விக-வரங் vāl-tal DED.4398: to take by handfulls, take in a sweep scoop, take in or grasp with avidity, gather BC, CIB 221. விடு viju-tal DED.4419: to leave, quit, pat with, get rid of, abandon, forsake, let go, dispatch, send away Ind 188, BC 223. விடு viju-tal DED.44418: to sell, put on sale, be sold 223. விகும் viju-tal DED.4448: to sell, put on sale, be sold 224. வில் viju-tal DED.4449: to bezone, duit, pat with, get rid of, dabandon, forsake, let go, dispatch, send away	199.மேய்	mēy-ttal	DED.4179: to make, graze, feed	HH, BC
DED 4005: to end, terminate, be finished muki-ttal DED 4005: to finish, conclude, achieve, accomplish muri-tal ped 4005: to finish, conclude, achieve, accomplish muri-tal ped 4005: to finish, conclude, achieve, accomplish muri-tal ped 4005: to finish, conclude, achieve, accomplish ped 504. pdf muri-tal ped 4005: to finish, conclude, achieve, accomplish ped 504. pdf muri-tal ped 4005: to finish, conclude, achieve, accomplish ped 504. pdf pe	200. மொய்	moy-ttal	DED.4025: to cover, enclose	CJB
DED.4005; to finish, conclude, achieve, accomplish muri-tal muri-tal DED.4005; to finish, conclude, achieve, accomplish muri-tal muri-tal DED.4080; to bend, lack in strenght, be gentle; to curve; MTL: to break off; to perish; to be ruined BZ	201. மொள்(ளு)	moļ(ļu)-tal	DED.4209: to take in a vessel, as water.	HH, BC
DED.4005; to finish, conclude, achieve, accomplish muri-tal muri-tal DED.4005; to finish, conclude, achieve, accomplish muri-tal muri-tal DED.4080; to bend, lack in strenght, be gentle; to curve; MTL: to break off; to perish; to be ruined BZ	202.முகி	muki-tal	DED.4005: to end, terminate, be finished	BZ
205. முறி muri-ttal DED: —; MTL: to break off, snap off; to ruin; to defeat BZ 206. வணிக்கு vananku-tal DED.4281: to bend, worship DED.431: to come, happen, come into being, be known, become clear BC 208. வலர் valar-ttal DED.431: to come, happen, come into being, be known, become clear BC 208. வலர் valar-ttal DED.4336: to slip, slide as in slippery places, err, commit a mistake, make an escape, be forgetful Ind 188 120. வளக்கு valar-ttal DED.4336: to slip, slide as in slippery places, err, commit a mistake, make an escape, be forgetful Ind 188 120. வளக்கு valar-ttal DED.4340: to grow, lenghten, be elongated, increase HH, BC 212. வளர் valar-ttal DED.4340: to cause to increase CJB 213. வளை valar-ttal DED.4340: to surround, hover around, walk around BZ 214. வளை valar-ttal DED.4384: to surround BZ 214. வளை valar-ttal DED.4384: to surround BZ 215. வர vā-ttal DED.4384: to surround BZ 217. வரர் vār-ttal DED.4372: to receive, take, buy, get, obtain [] BC 217. வரர் vār-ttal DED.4387: to pour; cast (as metal in a mould) to flow, trickle, overflow HH 218. வரகு vāru-tal DED.4392: to take by handfuls, take in a sweep scoop, take in or grasp with avidity, gather BC, CJB 220. விகவான viri-ttal DED.4419: to leave, quit, pat with, get rid of, abandon, forsake, let go, dispatch, send away Ind 188, BC 221. விடு viri-ttal DED.4448: to sell, put on sale, be sold HH, Ind 188, BC 225. விழு vilu-tal DED.4448: to sell, put on sale, be sold HH, Ind 188, BC 225. விழு vilu-tal DED.4448: to sell, seize, long for, covet, love GA/PB 224. வில் vill-tal DED.4457: to fall, fall down, descend, fall sick, be destroyed CJB 228. விவக்கு vill-tal DED.4457: to cut as with sword or axe, cut off, engrave, dig as a well BC 228. விவக்கு verl(lu)-tal DED.4522: to conquer, overcome, subdue; destroy, remove intr. excel CJB 229. வெக்கு verl(lu)-tal DED.4522: to become white or pale, dawn, become clear or manifes CJB		muki-ttal	DED.4005: to finish, conclude, achieve, accomplish	BZ
206. வணங்கு vaṇaṅku-tal DED	204. முறி	muri-tal	DED.4080: to bend, lack in strenght, be gentle; to curve; MTL: to break off; to perish; to be ruined	BZ
207. លក្ខ varu-tal DED.4311: to come, happen, come into being, be known, become clear 208. លទេស៊ី valar-ttal DED:—; MTL: to cause to increase; valar-tal: to grow HH 209. លក្ខស័ន្ធ valukku-tal DED.4336: to slip, slide as in slippery places, err, commit a mistake, make an escape, be forgetful Ind 188 210. លាក់ស៊ី valar-tal DED.4340: to grow, lenghten, be elongated, increase 211. លាក់ valar-tal DED.4340: to cause to increase 212. លាក់ valar-tal DED.4340: to cause to increase 213. លាក់ valar-tal DED.4340: to surround, hover around, walk around 214. លាក់ valar-tal DED.4384: to surround, hover around, walk around 215. លាក valar-tal DED.4372: to receive, take, buy, get, obtain [] 216. លាក់ vari-tal DED.4372: to receive, take, buy, get, obtain [] 217. លាក់ vari-tal DED.4372: to receive, take, buy, get, obtain [] 218. លាក់ vari-tal DED.4372: to to sake by handfuls, take in a sweep scoop, take in or grasp with avidity, gather BC, CJB 219. លាក់ vari-tal DED.4392: to take by handfuls, take in a sweep scoop, take in or grasp with avidity, gather BC, CJB 220. លាក់សាក់ viri-tal DED.4402: 4th intr. to be, exist 220. លាក់សាក់ viri-tal DED.4419: to leave, quit, pat with, get rid of, abandon, forsake, let go, dispatch, send away Ind 188, BC 223. លាក់សាក់ viri-tal DED.4448: to cause to expand, open, unfold -tal 4th intr expand CJB 223. លាក់សាក់ viri-tal DED.4448: to sell, put on sale, be sold 224. លាក់ viri-tal DED.4448: to sell, put on sale, be sold 225. លាក់សាក់ viri-tal DED.4449: to law, descend, fall sick, be destroyed 226. លាក់សាក់ virilu-tal DED.4459-50: to open out, expand, unfold as a blossom, crack, splitvi/ 227. លាក់ verti(lu)-tal DED.459: to be startled, perplexed, be frightened 228. លាក់សាក់ verti(lu)-tal DED.452: to become white or pale, dawn, become clear or manifes CJB	205. முறி	muri-ttal	DED: —; MTL: to break off, snap off; to ruin; to defeat	BZ
208. வலர் valar-ttal DED: —; MTL: to cause to increase; valar-tal: to grow HH 209. வழுக்கு valuku-tal DED.4336: to slip, slide as in slippery places, err, commit a mistake, make an escape, be forgetful Ind 188 DED.4346: valar-tal DED.4340: to grow, lenghten, be elongated, increase HH, BC 212. வளர் valar-tal DED.4340: to cause to increase CJB 213. வணை valar-tal DED.4384: to surround, hover around, walk around BZ 214. வணை valai-tal DED.4384: to surround, hover around, walk around BZ 215. வர vā-tal DED.4384: to surround hover around, walk around BZ 215. வர vā-tal DED.4372: to receive, take, buy, get, obtain [] BC 217. வரர் vār-ttal DED.4372: to receive, take, buy, get, obtain [] BC 218. வரஞ் vāru-tal DED.4372: to receive, take, buy, get, obtain [] BC 219. வரழ் vāru-tal DED.4392: to take by handfuls, take in a sweep scoop, take in or grasp with avidity, gather DED.4392: to take by handfuls, take in a sweep scoop, take in or grasp with avidity, gather DED.4402: 4th intr. to be, exist CJB 220. விகவான viu-tal DED.4402: 4th intr. to be, exist CJB 221. விடு vitu-tal DED.4419: to leave, quit, pat with, get rid of, abandon, forsake, let go, dispatch, send away Ind 188, BC 221. விடு vitu-tal DED.4438: to cause to expand, open, unfold -tal 4th intr expand CJB 223. விடும்பு virumpu-tal DED.4448: to wish, desire, long for, covet, love GA/PB 224. வில் vil-tal DED.4448: to sell, put on sale, be sold HH, Ind 188, BC 225. விடி vilu-tal DED.4459-50: to open out, expand, unfold as a blossom, crack, splitvil CJB 227. வெட்டு vettu-tal DED.4459-50: to open out, expand, unfold as a blossom, crack, splitvil CJB 227. வெட்டு vettu-tal DED.4459: to be startled, perplexed, be frightened CJB 228. வெளுன் vetlu(lu)-tal DED.4522: to conquer, overcome, subdue; destroy, removel intr. excel CJB 230. வெளு vellu-ttal DED.4524: to become white or pale, dawn, become clear or manifes CJB 230. வெளு	206. வணங்கு	vaṇaṅku-tal	DED.4281: to bend, worship	НН, СЈВ
209. வழுக்கு valukku-tal pDED.4336: to slip, slide as in slippery places, err, commit a mistake, make an escape, be forgetful pBC pDD:—; MTL:— 211. வளர் valar-tal DED.4340: to grow, lenghten, be elongated, increase HH, BC pDD.4340: to grow, lenghten, be elongated, increase CJB pDD.4340: to cause to increase CJB pDD.4340: to cause to increase CJB pDD.4340: to surround, hover around, walk around BZ pDD.4341: tal pDD.4348: to surround pDD.4349: to come pDD.4349: to come pDD.4349: to come pDD.4349: to take, buy, get, obtain [] pDD.4349: to take by handfuls, take in a sweep scoop, take in or grasp with avidity, gather pDD.4402: 4th intr. to be, exist DDD.4402: 4th	207. வரு	varu-tal	DED.4311: to come, happen, come into being, be known, become clear	BC
210.வளக்கு valar-tal DED; MTL:	208. வலர்	valar-ttal	DED: —; MTL: to cause to increase; <i>valar-tal</i> : to grow	HH
211. வளர் valar-tal DED.4340: to grow, lenghten, be elongated, increase CJB 212. வளர் valar-ttal DED.4340: to cause to increase CJB 213. வளை valar-ttal DED.4384: to surround, hover around, walk around BZ 214. வளை valar-ttal DED.4384: to surround BZ 215. வர vā-tal DED: —; MTL: to come HH 216. வளங்கு vānku-tal DED.4372: to receive, take, buy, get, obtain [] BC 217. வரர் vār-ttal DED.4372: to receive, take, buy, get, obtain [] BC 218. வரர் vār-ttal DED.4387: to pour; cast (as metal in a mould) to flow, trickle, overflow HH 218. வரரு vāru-tal DED.4392: to take by handfuls, take in a sweep scoop, take in or grasp with avidity, gather BC, CJB 219. வரழ் vāltal DED.4402: 4th intr. to be, exist CJB 220. விசுவரசி vicuvāci-ttal DED.—; MTL: one who has faith in God HH, Ind 188, BC 221. விடு vitu-tal DED.4419: to leave, quit, pat with, get rid of, abandon, forsake, let go, dispatch, send away Ind 188, GA/PB 222. விடு viru-tal DED.4443: to cause to expand, open, unfold -tal 4th intr expand CJB 223. விரும்பு virumpu-tal DED.4443: to sell, put on sale, be sold HH, Ind 188, BC 224. வில் vil-tal DED.4443: to sell, put on sale, be sold HH, Ind 188, BC 225. விழு vilu-tal DED.4457: to fall, fall down, descend, fall sick, be destroyed CJB 226. விள்ளு viru-tal DED.4507: to cut as with sword or axe, cut off, engrave, dig as a well BC 228. வெருன் verul([u)-tal DED.4519: to be startled, perplexed, be frightened CJB 229. வெல்(லு) vel(lu)-tal DED.4522: to conquer, overcome, subdue; destroy, removel intr. excel CJB 230. வெளு velu-ttal DED.4524: to become white or pale, dawn, become clear or manifes CJB	209. வழுக்கு	va <u>l</u> ukku-tal	DED.4336: to slip, slide as in slippery places, err, commit a mistake, make an escape, be forgetful	Ind 188
212. வளர் valar-ttal DED.4340: to cause to increase CJB 213. வளை valai-tal DED.4384: to surround, hover around, walk around BZ 214. வளை valai-ttal DED.4384: to surround BZ 215. வர vā-tal DED.—; MTL: to come HH 216. வாங்கு vāṇku-tal DED.4372: to receive, take, buy, get, obtain [] 217. வார் vār-ttal DED.4387: to pour; cast (as metal in a mould) to flow, trickle, overflow HH 218. வாரு vāru-tal DED.4392: to take by handfuls, take in a sweep scoop, take in or grasp with avidity, gather BC, CJB 219. வாழ் vāltal DED.4492: to take by handfuls, take in a sweep scoop, take in or grasp with avidity, gather BC, CJB 220. விசுவாரி vicuvāci-ttal DED. 4402: 4th intr. to be, exist CJB 220. விசுவாரி vitu-tal DED.4419: to leave, quit, pat with, get rid of, abandon, forsake, let go, dispatch, send away Ind 188, GA/PB 221. விரி viri-ttal DED.4419: to leave, quit, pat with, get rid of, abandon, forsake, let go, dispatch, send away Ind 188, GA/PB 223. விரும்பு viri-ttal DED.44438: to cause to expand, open, unfold -tal 4th intr expand CJB 224. வில் vil-tal DED.4443: to wish, desire, long for, covet, love GA/PB 224. வில் vil-tal DED.4448: to sell, put on sale, be sold HH, Ind 188, BC 225. விமு vilu-tal DED.4457: to fall, fall down, descend, fall sick, be destroyed CJB 226. விள்ளு vilu-tal DED.4507: to cut as with sword or axe, cut off, engrave, dig as a well 227. வெட்டு vettu-tal DED.4519: to be startled, perplexed, be frightened 228. வெருன் verul(u)-tal DED.4522: to conquer, overcome, subdue; destroy, remove intr. excel CB, CJB 230. வெளு velu-ttal DED.4524: to become white or pale, dawn, become clear or manifes CJB	210. வளக்கு	vaļakku-?	DED:—; MTL: —	BC
213. வளை vaļai-tal DED.4384: to surround, hover around, walk around BZ 214. வளை vaļai-ttal DED.4384: to surround BZ 215. வா vā-tal DED: —; MTL: to come HH 216. வாங்கு vānku-tal DED.4372: to receive, take, buy, get, obtain [] BC 217. வார் vār-ttal DED.4372: to receive, take, buy, get, obtain [] BC 218. வாரு vār-ttal DED.4387: to pour; cast (as metal in a mould) to flow, trickle, overflow HH 218. வாரு vār-ttal DED.4387: to pour; cast (as metal in a mould) to flow, trickle, overflow HH 218. வாரு vār-ttal DED.4392: to take by handfuls, take in a sweep scoop, take in or grasp with avidity, gather BC, CJB 219. வரும் vāltal DED.4402: 4th intr. to be, exist CJB 220. விசுவாசி vicuvāci-ttal DED.—; MTL: one who has faith in God HH, Ind 188, BC 221. விடு viiu-tal DED.4419: to leave, quit, pat with, get rid of, abandon, forsake, let go, dispatch, send away Ind 188, GA/PB 222. விரி viir-ttal DED.4438: to cause to expand, open, unfold -tal 4th intr expand CJB 223. விரும்பு virumpu-tal DED.4438: to wish, desire, long for, covet, love GA/PB 224. வில் vilu-tal DED.4448: to sell, put on sale, be sold HH, Ind 188, BC 225. விழு viļu-tal DED.4457: to fall, fall down, descend, fall sick, be destroyed CJB 226. வின்ஞு viļu-tal DED.4507: to cut as with sword or axe, cut off, engrave, dig as a well BC 228. வெருன் vertu(lu)-tal DED.4519: to be startled, perplexed, be frightened CJB 229. வெல்(லு) vel(lu)-tal DED.4522: to conquer, overcome, subdue; destroy, remove intr. excel CB, CJB 230. வெளு	211. வளர்	vaļar-tal	DED.4340: to grow, lenghten, be elongated, increase	HH, BC
214. வளை valai-ttal DED.4384: to surround BZ 215. வா vā-tal DED: —; MTL: to come HHH 216. வாங்கு vānku-tal DED.4372: to receive, take, buy, get, obtain [] BC 217. வார் vār-ttal DED.4387: to pour; cast (as metal in a mould) to flow, trickle, overflow HH 218. வாரு vār-ttal DED.4387: to pour; cast (as metal in a mould) to flow, trickle, overflow HH 218. வாரு vāru-tal DED.4392: to take by handfuls, take in a sweep scoop, take in or grasp with avidity, gather BC, CJB 219. வாழ் vāltal DED.4402: 4th intr. to be, exist 220. விசுவாசி vicuvāci-ttal DED.—; MTL: one who has faith in God HH, Ind 188, BC 221. விடு viru-tal DED.4419: to leave, quit, pat with, get rid of, abandon, forsake, let go, dispatch, send away Ind 188, GA/PB 222. விரி viri-ttal DED.4448: to cause to expand, open, unfold -tal 4th intr expand CJB 223. விரும்பு virumpu-tal DED.4443: to wish, desire, long for, covet, love GA/PB 224. வில் vil-tal DED.4448: to sell, put on sale, be sold HH, Ind 188, BC 225. விழு vi_lu-tal DED.4457: to fall, fall down, descend, fall sick, be destroyed CJB 226. விள்ளு vi u-tal DED.4459-50: to open out, expand, unfold as a blossom, crack, splitvil CJB 227. வெட்டு vettu-tal DED.4507: to cut as with sword or axe, cut off, engrave, dig as a well BC 228. வெள்ள verul(u)-tal DED.4519: to be startled, perplexed, be frightened CJB 229. வெல்(லு) velu-ttal DED.4522: to conquer, overcome, subdue; destroy, remove intr. excel CB, CJB 230. வெளு velu-ttal DED.4524: to become white or pale, dawn, become clear or manifes CJB	212. வளர்	vaļar-ttal	DED.4340: to cause to increase	CJB
215.வா vā-tal DED:—; MTL: to come 216.வாங்கு vānku-tal DED.4372: to receive, take, buy, get, obtain [] BC 217.வார் vār-ttal DED.4387: to pour; cast (as metal in a mould) to flow, trickle, overflow HH 218.வாரு vāru-tal DED.4392: to take by handfuls, take in a sweep scoop, take in or grasp with avidity, gather BC, CJB 219.வாழ் vāl_tal DED.4402: 4th intr. to be, exist CJB 220.விசுவாசி vicuvāci-ttal DED.—; MTL: one who has faith in God HH, Ind 188, BC 221.விடு vitu-tal DED.4419: to leave, quit, pat with, get rid of, abandon, forsake, let go, dispatch, send away Ind 188, GA/PB 222.விரி viri-ttal DED.4438: to cause to expand, open, unfold -tal 4th intr expand CJB 223.விரும்பு virumpu-tal DED.4443: to wish, desire, long for, covet, love GA/PB 224.வில் vil-tal DED.4448: to sell, put on sale, be sold HH, Ind 188, BC 225.விழு vilu-tal DED.4457: to fall, fall down, descend, fall sick, be destroyed CJB 226.விள்ளு villu-tal DED.4459-50: to open out, expand, unfold as a blossom, crack, splitvil CJB 227.வெட்டு vettu-tal DED.4519: to be startled, perplexed, be frightened CJB 228.வெளுன் verul([u)-tal DED.4522: to conquer, overcome, subdue; destroy, remove intr. excel CB, CJB 230.வெளு velu-ttal DED.4524: to become white or pale, dawn, become clear or manifes CJB	213. ഖണെ	vaļai-tal	DED.4384: to surround, hover around, walk around	BZ
216. வாங்குvānku-talDED.4372: to receive, take, buy, get, obtain []BC217. வார்vār-ttalDED.4387: to pour; cast (as metal in a mould) to flow, trickle, overflowHH218. வாருvāru-talDED.4392: to take by handfuls, take in a sweep scoop, take in or grasp with avidity, gatherBC, CJB219. வாழ்vāl-talDED.4402: 4th intr. to be, existCJB220. விசுவாகிvicuvāci-ttalDED.—; MTL: one who has faith in GodHH, Ind 188, BC221. விருvitu-talDED.4419: to leave, quit, pat with, get rid of, abandon, forsake, let go, dispatch, send awayInd 188, GA/PB222. விரிviri-ttalDED.4438: to cause to expand, open, unfold -tal 4th intr expandCJB223. விரும்புvirumpu-talDED.4443: to wish, desire, long for, covet, loveGA/PB224. வில்vil-talDED.4443: to wish, desire, long for, covet, loveGA/PB225. விழுvilu-talDED.4457: to fall, fall down, descend, fall sick, be destroyedCJB225. விழுvilu-talDED.4457: to fall, fall down, descend, fall sick, be destroyedCJB227. வெட்டுvettu-talDED.4507: to cut as with sword or axe, cut off, engrave, dig as a wellBC228. வெருன்vertu-talDED.4507: to be startled, perplexed, be frightenedCJB229. வெல்(லு)vel(lu)-talDED.4522: to conquer, overcome, subdue; destroy, remove intr. excelCB, CJB230. வெளுvelu-ttalDED.4524: to become white or pale, dawn, become clear or manifesCJB	214. ഖണെ	vaļai-ttal	DED.4384: to surround	BZ
vār-ttal DED.4387: to pour; cast (as metal in a mould) to flow, trickle, overflow Vāru-tal vāru-tal DED.4392: to take by handfuls, take in a sweep scoop, take in or grasp with avidity, gather BC, CJB 219. வாழ் vāltal DED.4402: 4th intr. to be, exist CJB 220. விசுவாசி vicuvāci-ttal DED: —; MTL: one who has faith in God HH, Ind 188, BC 221. விடு vitu-tal DED.4419: to leave, quit, pat with, get rid of, abandon, forsake, let go, dispatch, send away Ind 188, GA/PB 222. விரி viri-ttal DED.4438: to cause to expand, open, unfold -tal 4th intr expand CJB 223. விரும்பு virumpu-tal DED.4443: to wish, desire, long for, covet, love GA/PB 224. வில் vil-tal DED.4448: to sell, put on sale, be sold HH, Ind 188, BC 225. விழு vilu-tal DED.4457: to fall, fall down, descend, fall sick, be destroyed CJB 226. விள்ளு villu-tal DED.4459-50: to open out, expand, unfold as a blossom, crack, splitvil CJB 227. வெட்டு vettu-tal DED.4519: to be startled, perplexed, be frightened CJB 228. வெருள் verul(u)-tal DED.4522: to conquer, overcome, subdue; destroy, remove intr. excel CB, CJB 230. வெளு velu-ttal DED.4524: to become white or pale, dawn, become clear or manifes CJB	215. வா	vā-tal	DED: —; MTL: to come	HH
218. வாரு vāru-tal DED.4392: to take by handfuls, take in a sweep scoop, take in or grasp with avidity, gather 219. வரழ் vāl-tal DED.4402: 4th intr. to be, exist CJB 220. விசுவாசி vicuvāci-ttal DED: —; MTL: one who has faith in God HH, Ind 188, BC 221. விடு vitu-tal DED.4419: to leave, quit, pat with, get rid of, abandon, forsake, let go, dispatch, send away Ind 188, GA/PB 222. விரி viri-ttal DED.4438: to cause to expand, open, unfold -tal 4th intr expand CJB 223. விரும்பு virumpu-tal DED.4443: to wish, desire, long for, covet, love GA/PB 224. வில் vil-tal DED.4448: to sell, put on sale, be sold HH, Ind 188, BC 225. விழு vilu-tal DED.4457: to fall, fall down, descend, fall sick, be destroyed CJB 226. விள்ளு villu-tal DED.4597: to open out, expand, unfold as a blossom, crack, splitvil CJB 227. வெட்டு vettu-tal DED.4507: to cut as with sword or axe, cut off, engrave, dig as a well BC 228. வெருள் verul(lu)-tal DED.4519: to be startled, perplexed, be frightened CJB 229. வெல்(லு) vel(lu)-tal DED.4522: to conquer, overcome, subdue; destroy, remove intr. excel CB, CJB 230. வெளு velu-ttal DED.4524: to become white or pale, dawn, become clear or manifes CJB	216. வாங்கு	vāṅku-tal	DED.4372: to receive, take, buy, get, obtain []	BC
219. வாழ் vāl-tal DED.4402: 4th intr. to be, exist CJB 220. விசுவாகி vicuvāci-ttal DED: —; MTL: one who has faith in God HH, Ind 188, BC 221. விடு vițu-tal DED.4419: to leave, quit, pat with, get rid of, abandon, forsake, let go, dispatch, send away Ind 188, GA/PB 222. விரி viri-ttal DED.4438: to cause to expand, open, unfold -tal 4th intr expand CJB 223. விரும்பு virumpu-tal DED.4443: to wish, desire, long for, covet, love GA/PB 224. வில் vil-tal DED.4448: to sell, put on sale, be sold HH, Ind 188, BC 225. விழு vilu-tal DED.4457: to fall, fall down, descend, fall sick, be destroyed CJB 226. விள்ளு villu-tal DED.4459-50: to open out, expand, unfold as a blossom, crack, splitvil CJB 227. வெட்டு vețtu-tal DED.4507: to cut as with sword or axe, cut off, engrave, dig as a well BC 228. வெருள் verul([u)-tal DED.4519: to be startled, perplexed, be frightened CJB 229. வெல்(லு) vel(lu)-tal DED.4522: to conquer, overcome, subdue; destroy, remove intr. excel CB, CJB 230. வெளு veļu-ttal DED.4524: to become white or pale, dawn, become clear or manifes CJB	217. வார்	vār-ttal	DED.4387: to pour; cast (as metal in a mould) to flow, trickle, overflow	HH
220. விசுவாசிvicuvāci-ttalDED: —; MTL: one who has faith in GodHH, Ind 188, BC221. விடுviţu-talDED.4419: to leave, quit, pat with, get rid of, abandon, forsake, let go, dispatch, send awayInd 188, GA/PB222. விரிviri-ttalDED.4438: to cause to expand, open, unfold -tal 4th intr expandCJB223. விரும்புvirumpu-talDED.4443: to wish, desire, long for, covet, loveGA/PB224. வில்vil-talDED.4448: to sell, put on sale, be soldHH, Ind 188, BC225. விழுviu-talDED.4457: to fall, fall down, descend, fall sick, be destroyedCJB226. விள்ளுvillu-talDED.4459-50: to open out, expand, unfold as a blossom, crack, splitvilCJB227. வெட்டுveṭṭu-talDED.4507: to cut as with sword or axe, cut off, engrave, dig as a wellBC228. வெருள்verul(u)-talDED.4519: to be startled, perplexed, be frightenedCJB229. வெல்(லு)vel(u)-talDED.4522: to conquer, overcome, subdue; destroy, remove intr. excelCB, CJB230. வெளுvelu-ttalDED.4524: to become white or pale, dawn, become clear or manifesCJB	218. வாரு	vāru-tal	DED.4392: to take by handfuls, take in a sweep scoop, take in or grasp with avidity, gather	BC, CJB
221. விடுviţu-talDED.4419: to leave, quit, pat with, get rid of, abandon, forsake, let go, dispatch, send awayInd 188, GA/PB222. விரிviri-ttalDED.4438: to cause to expand, open, unfold -tal 4th intr expandCJB223. விரும்புvirumpu-talDED.4443: to wish, desire, long for, covet, loveGA/PB224. வில்vil-talDED.4448: to sell, put on sale, be soldHH, Ind 188, BC225. விழுvilu-talDED.4457: to fall, fall down, descend, fall sick, be destroyedCJB226. விள்ளுvilļu-talDED.4459-50: to open out, expand, unfold as a blossom, crack, splitviļCJB227. வெட்டுvetţu-talDED.4507: to cut as with sword or axe, cut off, engrave, dig as a wellBC228. வெருள்verul(ļu)-talDED.4519: to be startled, perplexed, be frightenedCJB229. வெல்(லு)vel(lu)-talDED.4522: to conquer, overcome, subdue; destroy, remove intr. excelCB, CJB230. வெளுveļu-ttalDED.4524: to become white or pale, dawn, become clear or manifesCJB	219. வாழ்	vā <u>l</u> -tal	DED.4402: 4th intr. to be, exist	CJB
222. விரி viri-ttal DED.4438: to cause to expand, open, unfold -tal 4th intr expand CJB 223. விரும்பு virumpu-tal DED.4443: to wish, desire, long for, covet, love GA/PB 224. வில் vil-tal DED.4448: to sell, put on sale, be sold HH, Ind 188, BC 225. விழு vilu-tal DED.4457: to fall, fall down, descend, fall sick, be destroyed CJB 226. விள்ளு villu-tal DED.4459-50: to open out, expand, unfold as a blossom, crack, splitvil CJB 227. வெட்டு vețu-tal DED.4507: to cut as with sword or axe, cut off, engrave, dig as a well BC 228. வெருள் verul(lu)-tal DED.4519: to be startled, perplexed, be frightened CJB 229. வெல்(லு) vel(ul)-tal DED.4522: to conquer, overcome, subdue; destroy, remove intr. excel CB, CJB 230. வெளு velu-ttal DED.4524: to become white or pale, dawn, become clear or manifes CJB	220. விசுவாசி	vicuvāci-ttal	DED: —; MTL: one who has faith in God	HH, Ind 188, BC
223. விரும்பு virumpu-tal DED.4443: to wish, desire, long for, covet, love 224. வில் vil-tal DED.4448: to sell, put on sale, be sold 225. விழு vilu-tal DED.4457: to fall, fall down, descend, fall sick, be destroyed 226. விள்ளு villu-tal DED.4459-50: to open out, expand, unfold as a blossom, crack, splitvil 227. வெட்டு vettu-tal DED.4507: to cut as with sword or axe, cut off, engrave, dig as a well 228. வெருள் verul(lu)-tal DED.4519: to be startled, perplexed, be frightened 229. வெல்(லு) vel(ul)-tal DED.4522: to conquer, overcome, subdue; destroy, remove intr. excel 230. வெளு velu-ttal DED.4524: to become white or pale, dawn, become clear or manifes CJB	221. விடு	vițu-tal	DED.4419: to leave, quit, pat with, get rid of, abandon, forsake, let go, dispatch, send away	Ind 188, GA/PB
224. வில்vil-talDED.4448: to sell, put on sale, be soldHH, Ind 188, BC225. விழுvilu-talDED.4457: to fall, fall down, descend, fall sick, be destroyedCJB226. விள்ளுvillu-talDED.4459-50: to open out, expand, unfold as a blossom, crack, splitvilCJB227. வெட்டுvettu-talDED.4507: to cut as with sword or axe, cut off, engrave, dig as a wellBC228. வெருள்verul(lu)-talDED.4519: to be startled, perplexed, be frightenedCJB229. வெல்(லு)vel(lu)-talDED.4522: to conquer, overcome, subdue; destroy, remove intr. excelCB, CJB230. வெளுvelu-ttalDED.4524: to become white or pale, dawn, become clear or manifesCJB	222. விரி	viri-ttal	DED.4438: to cause to expand, open, unfold -tal 4th intr expand	CJB
225. விழு vilu-tal DED.4457: to fall, fall down, descend, fall sick, be destroyed CJB 226. விள்ளு villu-tal DED.4459-50: to open out, expand, unfold as a blossom, crack, splitvil CJB 227. வெட்டு vettu-tal DED.4507: to cut as with sword or axe, cut off, engrave, dig as a well BC 228. வெருள் verul(lu)-tal DED.4519: to be startled, perplexed, be frightened CJB 229. வெல்(லு) vel(lu)-tal DED.4522: to conquer, overcome, subdue; destroy, remove intr. excel CB, CJB 230. வெளு velu-ttal DED.4524: to become white or pale, dawn, become clear or manifes CJB	223. விரும்பு	virumpu-tal	DED.4443: to wish, desire, long for, covet, love	GA/PB
226. விள்ளு villu-tal DED.4459-50: to open out, expand, unfold as a blossom, crack, splitvil CJB 227. வெட்டு vettu-tal DED.4507: to cut as with sword or axe, cut off, engrave, dig as a well BC 228. வெருள் verul(lu)-tal DED.4519: to be startled, perplexed, be frightened CJB 229. வெல்(லு) vel(lu)-tal DED.4522: to conquer, overcome, subdue; destroy, remove intr. excel CB, CJB 230. வெளு velu-ttal DED.4524: to become white or pale, dawn, become clear or manifes CJB	224. வில்	vil-tal	DED.4448: to sell, put on sale, be sold	HH, Ind 188, BC
227. வெட்டு vettu-tal DED.4507: to cut as with sword or axe, cut off, engrave, dig as a well 228. வெருள் verul(lu)-tal DED.4519: to be startled, perplexed, be frightened CJB 229. வெல்(லு) vel(lu)-tal DED.4522: to conquer, overcome, subdue; destroy, remove intr. excel CB, CJB 230. வெளு velu-ttal DED.4524: to become white or pale, dawn, become clear or manifes CJB	225. விழு	vi <u>l</u> u-tal		CJB
228. வெருள்verul(lu)-talDED.4519: to be startled, perplexed, be frightenedCJB229. வெல்(லு)vel(lu)-talDED.4522: to conquer, overcome, subdue; destroy, remove intr. excelCB, CJB230. வெளுvelu-ttalDED.4524: to become white or pale, dawn, become clear or manifesCJB	226. விள்ளு	viḷḷu-tal		
229. ചെയ്യ്ര vel(lu)-tal DED.4522: to conquer, overcome, subdue; destroy, remove intr. excel CB, CJB 230. ചെണ്ട velu-ttal DED.4524: to become white or pale, dawn, become clear or manifes CJB	227.வெட்டு	veṭṭu-tal	DED.4507: to cut as with sword or axe, cut off, engrave, dig as a well	
230. ົດລາຜັງ velu-ttal DED.4524: to become white or pale, dawn, become clear or manifes CJB	228.வெருள்	veruļ(ļu)-tal	DED.4519: to be startled, perplexed, be frightened	CJB
	229. வெல்(லு)	vel(lu)-tal		•
231. ເພື່ອ vē-tal DED.4540: to burn, be hot, be scorched, be boiled, cooked BC, CJB	230. வெளு	veļu-ttal		
	231. வே	vē-tal	DED.4540: to burn, be hot, be scorched, be boiled, cooked	BC, CJB

vai-tal

¹ When the Tamil example does not have a corresponding Portuguese gloss or if the meaning is uncertain, the English translation is written into round brackets.

² I am inclined to read HH's transcription as *etu-tal* rather than *etyu-tal* despite the Portuguese translation allowing both readings.

³ Both Vermeer (1982: 156) and Hein & Rajam (2013: 135) provide the following forms for the reading of *cath*. The former interprets it as *kār* 'to be vigilant', while the latter as *kārka* 'to watch over'. According to Hein & Rajam the same form is also found in Henriques' *Flos Sanctorum* (1586) as well as in Henriques' *Doctrina Christam em Lingua Malauar Tamul. Tambirān vaṇakkam* printed in Quilon (1578: 9, e.g. *kāttu*).

⁴ Not listed in Vermeer (1982).

⁵ Vermeer (1982: 164) translates this form as 'to pass a sentence', while Hein & Rajam (2013: 136) translate it as 'to render'.

⁶ In Veermer (1982: 159) the corresponding form for *etuva* is 'to be adapted'.

⁷ Hein & Rajam (2013: 147) gives 'to be seech' as a translation for the Portuguese *rogar*.

⁸ This is a dubious form that does not allow the identification of a Tamil correspondent. However, considering Henriques' transliteration criteria, I would be inclined to read it as parrumarrukirēn, even though this does not resolve the problem.

⁹ Henriques does not provide the Portuguese translation for this verb and Vermeer (1982: 162) does not give any correspondence, while Hein & Rajam (2013: 149) translate it as 'to become familiar with; to practice', without, however, giving the correspondent Tamil verb. The solutions here are different. Considering two other Portuguese manuscripts: MS Ind 188 (approx. 17th cent.) and AP (MS 50 [ex MS 34], fol. M-34-220, Right column, line 6) respectively, one finds: *palukiratu* glossed as *multiplicarse* 'to multiply', we can take it as *pal(u)ku* (5th). We would exclude *palu-ttal* (11th) not only because it does not correspond to Henriques' transliteration but also because it would not fit within the class that Henriques is describing.

¹⁰ In AP (MS 50 [ex MS 34], fol. M-34-174, Right column, line 23) one finds mollukiratu: tirar agoa com naso. Ite' em algumas partes ourinar. Satiamangalão மொண்டென. [take water with the nose. Also in some parts it means to urinate. Satiamangalão]. Satiamangalão was a Jesuit province nearby Madurai. See also Hein & Rajam (2013: 165 – footnote 330).

¹¹ In AP (MS 50 [ex MS 34], fol. M-34-244, Right column, line 11) one finds *pelukiratu: cagar* [to defecate]. See also Hein & Rajam (2013: 165 – footnote 329).

¹² neruRRen may correspond to neruttukiratu: embrulharse (to get confused, to mix the sense of a word with another one) found in AP (MS 50 [ex MS 34], fol. M-34-198, Left column, line 19).

¹³ This meaning is found in AP (MS 50 [ex MS 34], fol. M-34-168, Left column, line 2), although the first meaning is 'to graze'.

¹⁴ In Vermeer (1982: 164) the corresponding meaning is 'to abuse, revile', in Hein & Rajam (2013: 176) it is 'to dishonour'. We have taken it as 'to curse' according to the meaning found in AP (MS 50 [ex MS 34], fol. M-34-425, Right column, line 14): *vaikiratu: chamar ruinidades* [to call ruins].

¹⁵ One possible solution for this form would be *peru-tal* as it is found in Vermeer (1982: 1639) who, however, translates *peru* as 'to experience, be affected' (DED.3622: to get), Hein & Rajam (2013: 185) give *perukiṛāṇ* as 'I give birth', while in AP (MS 50 [ex MS 34], fol. M-34-246, Left column, line 8) one finds *perukiṛatu: encherse* [to fill], (MS 50 [ex MS 34], fol. M-34-246, Left column, line 10) *pēṛukiṛatu: arrencarse, dizem caixars* [pluck up; they say crates]; *kāṛruppōukiṛatu: ventar, assoprar do vento pendadu* [blow, blow from the ? wind]. According to the *Corpus Lexicográfico do Português* (henceforth, CLP) the term *pairo*, which is part of Henriques' translation, is a nautical term 'andar ao pairo. Ad ventos incertos vela'. It remains a dubious form.

¹⁶ Hein & Rajam (2013: 194) translate it as 'to behold'.

¹⁷ The first conjugation in MS 188 includes all the verbs ending in -ikki-; -aikki; -yakki; as well as verbs ending in -ākkiṛēṇ.

¹⁸ The meaning in the 16th cent. for the word *agastarse* is: *stomachor*, *aris*, *Indignar-se*, *encolerizar se*, *enfadar-se*, *saepe sine casu*, *interdum dat. vel accus. ut: Mihi stomachatus est*, *agastou-se contra mim. Omnia stomachatur*, *de tudo se enfada* [to be indignant, to be angry, to be upset, often without a case, sometimes with dative or accusative: it annoyed me, he got upset with me, he got bored of everything] (in Obra Velez, Index totius artis, 1599?, de António Velez (1545–1509), cf. CLP at http://clp.dlc.ua.pt/DICIweb/default.asp?url=Concordancias).

¹⁹ In AP (Ms 50 [ex MS 34], fol. Ms34-M- 248, Left column, line 26) the meaning for *pila* is: *fortalecerse*, *tomar força* [to strengthen, to take strength].

The second conjugation in MS 188 includes verbs which have u, ra, or $r\bar{a}$ and form the preterite in ten. Exceptions to the second conjugation given in MS 188 are ten in t

²¹ The third conjugation in MS 188 includes verbs ending in -kirēn or -yiṭukirēn or -aikirēn, and in the preterite they have -(n)den and the future -ven. The exception are those verbs that have the preterite in -ten and that are not preceded by n: eykirēn, tirar frechas [to shoot arrows] (1st); koykirēn, colhar [to pluck] (1st); ceykirēn, fazer [to do] (1st); neykirēn - tiver panes (?) [to have clothes?] (1st); vaikirēn - chamar mindade (?) [to call ruins] (1st).

²² The fourth conjugation in MS 188 includes verbs ending in -luki $\underline{r}\underline{e}\underline{n}$, -lu $\underline{r}\underline{e}\underline{n}$ that have l, \underline{n} , or r before - $ki\underline{r}\underline{e}\underline{n}$. They form the preterite in - $e\underline{n}\underline{r}\underline{e}\underline{n}$ with the $\underline{r}u$, r, lu.

²³ For the translation of this word see Dalgado (1919: 140): bostear: v. t. é muito usado éste verbo na india Portuguesa, no sentido de 'barrar com bosta, embostar'. [it is largely used in Portuguese India, with the sense of to spread the cow's dung].

²⁴ The fifth conjugation in MS 188 includes verbs ending in -ukirēn or -irēn. They must not be preceded by i, l, and r, before u. They form the preterite in -inen, and the future in ven. The exceptions are: pūtukirēn, entrar [to enter] (13th); perukirēn, alcancar (see footnote 15); cuṭukirēn, queimar [to burn] (6th); viṭukirēn, deixar ou largar [to leave or to drop] (6th); iṭukirēn, meter [to place] (6th); paṭukirēn, padecer [to suffer] (6th); pōṭukirēn, bottar (?) (6th); toṭukirēn, tocar [to touch] (6th); kūppuṭukirēn, gritar ou fazer matinada [to shout or to reach morning] (6th). In this conjugation verbs ending in -ākkirēn and -ukkirēn and in -ṅkinēn are also included. They all form the past in nēn.

²⁵ MS Ind 188 does not provide a Portuguese gloss for this verb. However, I selected *aka<u>l</u>-tal* rather than *akal-tal* because the former fits within the class of verbs that the author of MS Ind 188 was describing.

²⁶ The first rule in BC includes verbs that form the present in *-icradu* and the past in *-ichen* or *-iten*. He says that the last form is used by poets and Brahmans. There are two exceptions: ceti(kku) [?], $n\bar{\imath}(kku)$ (11th), and nil (3rd). Other exception are related to the spoken variety. Considering the verb form given under this rule, it is possible to connect it with the verbs belonging to the 11th class (– $kki\underline{r}$ -/-tt-/-pp).

The second rule includes verbs forming the present in -igradu and the past in -ngen or -ten that are referred to as typical among poets and Brahmans. Therefore, one would expect verbs belonging to the 4th class (-ki<u>r</u>-/-nt-/-v-), however, this is not always the case.

²⁸ The third rule includes verbs forming the present in -acradu, the past in – nden, and the future in - p. They correspond to verbs of the 12th class (-kkir-/-nt-/-pp-). The only exceptions to this rule are represented by those active verbs that have 'n' in the neuter form, as happens in the 10th and 12th rules. Some examples are represented by: atakku (5th, causative); matakku (5th, causative); matakku (5th, causative). The verbs that should also be excluded from this rule are those that in front of a have a single consonant such as: nakku-tal (5th tr.); nākku (?); kakku-tal (5th tr.) and verbs such as valakku and manakku (mana?).

²⁹ The fourth rule includes verbs that form the present in -*óccradu*, the past in -*nden*, and the future in -*v*; as well as the verbs that form the present in -*óccradu*, the past in -*inen*, and the future in -*v*.

 $^{^{30}}$ The fifth rule includes verbs that form the present in *-ugradu*, the past in *-inen*, and the future in -v. This rule is applied without exception to all the verbs that in front of -u have -p(p), -tt, -v, -m, -c(c)-. BC includes here the verbs of the 5^{th} class ($-ki\underline{r}$ - $/-i\underline{n}$ -/-v-). The verb form $\bar{u}ttuk\underline{i}ratu$ creates some problems since $\bar{u}ttu$ is a noun meaning *blowing* while the verb form is $\bar{u}tu$ -tal. Consequently, another option would be to read this form as *ulattu* but even as such it remains a problem since it is not found either in DED or in MTL.

³¹ The sixth rule includes verbs that form the present in - *lukiratu*, the past in - *nten*, and the future in – v. Exceptions to this rule are the following verbs: arul(lu)- $tal(5^{th})$; $a\underline{l}u$ - $tal(1^{st})$ and those that geminate the $l\underline{l}$ with the exception of kol(lu)- $tal(2^{nd})$.

The seventh rule refers to verbs that form the present in - *lukiratu* and the past in -*nren*; the only exception given is represented by the verb *kellu-tal* (5th).

³³ Verbs which follow the eighth rule form the present in *-rukiratu*, the past in *-nden* and the future in *-v*. Exceptions to this rule are found in those verbs that follow the fifth rule such as $v\bar{a}ru$ -tal (5th) which BC translates as *ajustar com as maos o que cayo*; ou està no chão [to adjust by hand what fell down or what is on the floor]; taru(kku)-tal (5th) meaning *abaixarço* [to go down]; peru-tal (11th); karu(kku)-tal (5th); aru(kku)-tal (5th).

³⁴ Verbs that follow the ninth rule form the present in - $ti\bar{t}e\bar{t}$ and the future in -v. Exceptions to this rule are found in those verbs that form the past in - $ti\bar{t}$ such as $p\bar{o}tu$ -tal (5th), atu-tal (5th), vettu-tal (5th).

³⁵ Verbs that follow the tenth rule, belonging to the fifth class, form the present in - ngradu, the past in - inen and the future in -v. BC compares them to those verbs that follow the 12^{th} rule which he calls *neutre*. However, if the verbs have \underline{n} rather than \underline{n} as a final sound, they form the past in - $\underline{n}\underline{r}$ and the future in -p-, such as: $ti\underline{n}(\underline{n}\underline{u})$ -tal (8^{th}); $e\underline{n}(\underline{n}\underline{u})$ -tal (8^{th}).

³⁶ Verbs that follow the eleventh rule form the present in -rkiratu, the past in -ten, and the future in -p. Exceptions are represented by the following verbs: nil-tal (3rd); morkiratu (mol?).

³⁷ The twelfth rule includes the correspondent active forms of the tenth rule which forms the present in - $kki\underline{r}$, the past in $i\underline{n}\underline{e}\underline{n}$ and the future in -v such as: $a\underline{t}akku$ -tal (5th); $ma\underline{t}akku$ -tal (5th); $o\underline{t}ukku$ -tal (5th).

³⁸ The first rule includes verbs ending in *y*, *r*, *i*, *u*, *ai* that form the past in -ttēn. The only exception is represented by *irukkiratu* (Beschi 1738: 50-51, § 55; Mahon 1848: 44, § 55).

³⁹ Verbs in the second rule end in a and form the past in $and\bar{e}n$. Exceptions are monosyllabic verbs ending in -a that form the past in $-kkin\bar{e}n$ such as nakkiratu (5th) from nakkukiratu and kakkiratu and kakkiratu (5th) from kakkukiratu.

⁴⁰ In regard to this form CJB says: "You need not except however *maṇakkiratu*, although another has written, that it has *maṇakkirān̄*, which is not true: for it has, according to the general rule, *maṇantēn̄*". (Beschi 1738: 51, § 56; Mahon 1848: 44, § 56). It seems to me that he is referring to BC.

⁴¹ These verbs are included in the third rule to show the gemination in the present tense morpheme. However, as CJB states, these verbs, which have a long syllable, form the past in -kkiṇen. Exceptions are represented by the following forms: pūkkiṛatu whose past is pūttēṇ because, according to CJB, it is not abbreviated by syncope; kākkiṛatu (to watch over) whose past is kāttēṇ "they cannot be written, as from ignorance most of the Tamilians do= kārkkiṛatu cārcradu, for when written in this way means to cause a certain warmth of the tongue, such as pepper and similar things occasion, whence that warmth is called kāram, caram. Many verbs by syncope end in -kkiṛatu and in truth end in -kukiṛatu, all which, according to the rule which I shall presently give at number 50, have in the preterite -kkiṇṛēṇ. But these are generally verbs active from the neuter, which ends in -ṅkiṛatu. Thus, aṭaṅkiṛatu, to (be) shut > aṭakkukiṛatu > aṭakkiṛatu 'to shut' in active; oṭuṅkiṛatu 'to withdraw into a corner' > otukkukiṛatu > oṭukkiṛatu, 'to put into a corner'; naṭuṅkiṛatu, 'to tremble' > naṭu(kku)kiṛatu, 'to cause to tremble'; tīṅkiṛatu, 'to flee' > tīkkukiṛatu > tikkiṛatu, 'to put to flight'. All these have in the preterite kkiṇēṇ. There are other which of themselves ought to end in kkukiṛatu: cetu(kku)kkiṛatu 'to scrape up grass'; muṭu(kku)kkiṛatu (5th caus.) and pōkkiṛatu (5th caus.) and pōkkiṛatu (5th caus.).

⁴² The first rule includes verbs which have n in front of the -kiṛatu and form the preterite in kiṇēṇ such as vaṇkiṛatu 'to venerate', aṭaṅkiṛatu 'to shut in', iṭaṅkiṛatu 'to agree'. Other verbs under the first rule are those which have n before -kiṛatu and form the past in -ṭēṇ shortening the first syllable, such as unkiṛatu 'to devour', kāṇkiṛatu 'to see'. Finally, it also includes those verbs that have the consonant n in front of -kiṛatu that add -Ṭēṇ in the past, such as tiṇkiṛatu 'to devour', enkiṛatu 'to say' (Beschi 1738: 53, § 59; Mahon 1848: 45-46, § 59).

⁴³ The only exception to the second rule is represented by $\bar{\imath}\underline{n}uki\underline{r}atu$ which forms the preterite in $-\bar{\imath}\underline{n}\underline{r}\bar{e}\underline{n}$. However, if the verb ending in u is polysyllabic or monosyllabic but with a long vowel, the exceptions are represented by verbs such as $p\bar{o}tuki\underline{r}atu$ (6th) whose past is $p\bar{o}tt\bar{e}\underline{n}$, or $takuki\underline{r}atu$ (6th) whose past is $takk\bar{e}\underline{n}$; $patuki\underline{r}atu$ (6th) which forms the past in $patt\bar{e}\underline{n}$; $patuki\underline{r}atu$ (6th) which forms the past in $patt\bar{e}\underline{n}$; $patuki\underline{r}atu$ (6th) which forms the past in $patt\bar{e}\underline{n}$; $patuki\underline{r}atu$ (6th) which forms the past in $patt\bar{e}\underline{n}$; $patuki\underline{r}atu$ (6th) which forms the past in $patt\bar{e}\underline{n}$; $patuki\underline{r}atu$ (6th) which forms the past in $patt\bar{e}\underline{n}$. All these forms belong to the sixth class. Furthermore, $patuki\underline{r}atu$ (6th) and $putuki\underline{r}atu$ (6th) are exceptions since they have the past in $patt\bar{e}\underline{n}$; $patuki\underline{r}atu$ (6th) are exceptions since they have the past in $patt\bar{e}\underline{n}$; $patuki\underline{r}atu$ (6th) are exceptions since they have the past in $patt\bar{e}\underline{n}$; $patuki\underline{r}atu$ (6th) are exceptions since they have the past in $patt\bar{e}\underline{n}$; $patuki\underline{r}atu$ (6th) are exceptions since they have the past in $patt\bar{e}\underline{n}$; $patuki\underline{r}atu$ (6th) are exceptions since they have the past in $patt\bar{e}\underline{n}$; $patuki\underline{r}atu$ (6th) are exceptions $patuki\underline{r}atu$ (6th) are exceptions $patuki\underline{r}atu$ (6th) are exceptions $patuki\underline{r}atu$ (10th) are $patuki\underline{r}atu$ (10^t

⁴⁴ Exceptions to the first class of the third rule are represented by the following verbs for which the past form is also given: *aruļukiratu* (5th) which forms the past in *aruļinēn*; *viļļukiratu* (2nd) which forms the past in *vilļinēn* but also in *vinṭēn* and *koļļukiratu* (2nd) which always form the past in *konṭēn*.

⁴⁵ Exceptions to the second class of the third rule are represented by $v\bar{a}ruk\bar{i}ratu$ (5th) which forms the past in $v\bar{a}ri\underline{n}\bar{e}\underline{n}$ even though it also has $vant\bar{e}\underline{n}$; $taruki\underline{r}atu$ (5th) which forms the past in $tant\bar{e}\underline{n}$; and $tant\bar{e}\underline{n}$; and $tant\bar{e}\underline{n}$ which forms the past in $tant\bar{e}\underline{n}$; $taruki\underline{r}atu$ (1st) which forms the past in $tant\bar{e}\underline{n}$;

⁴⁶ An exception to the third class of the third rule is represented by the verb *collukiratu* (5th) which forms the past in *connēn*.

⁴⁷ Exceptions to the fourth class of the third rule are represented by the verbs vilukiratu (4th) which form the past in viluntēn and the verb mulu(ku)kiratu (11th) which forms the past in mulukkinēn.

⁴⁸ Exceptions to the fourth rule are represented by verbs such as *vaikiratu* (1st) which forms the past in *vaitēn*; *peykiratu* (1st) which forms the past in *peytēn*; *ceykiratu* (1st) which forms the past in *neytēn*; *ceykiratu* (1st) which forms th

⁴⁹ In BC this form is written as *āļu* as it is also found in AP (MS 50 [ex MS 34], fol. M-34-98, Right column, line 8): *governar* [to rule].

⁵⁰ In AP (MS 50 [ex MS 34], fol. M-34-285, Right column, line 20): *vomitar dos animais, ao homen se aplica se botar sangre pella boca* [vomiting of animals, it is applied to man if they shed blood by their mouth].

⁵¹ In AP (MS ⁵0 [ex MS 34], fol. M-34-258, Left column, line 28) the translation for this verb is *espojarse* that, according to <u>CLP</u>, is: *andarse roçando sobre a terra. pulverare se. plin. in pulvere volutari, ou se volutare.* § *espojarse com riso. lançarse, ou deixarse cahir no chaõ, bolindo com os pés, & remexendose com a força do rir* [walking scuffing / brushing along the land. Pulverize. Smack yourself with laughter. to launch oneself, or fall on the floor, kicking with one feets, & stir by force of laughter].