MALAYALAM PHONETIC READER

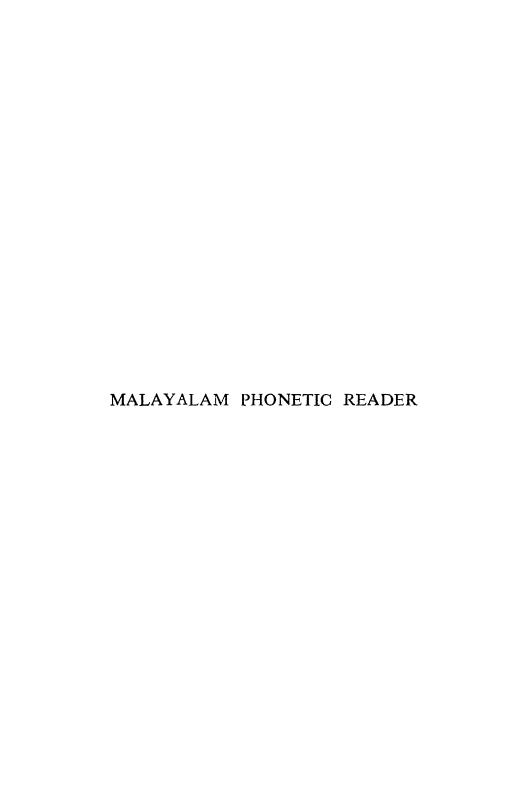
B. SYAMALA KUMARI

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CENTRAL INSTITUTE OF INDIAN LANGUAGES
MYSORE-6

CATALOGUED



CENTRAL INSTITUTE OF INDIAN LANGUAGES PHONETIC READER SERIES-2

Editor
H. S. BILIGIRI

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B. SYAMALA KUMARI



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Foreword

The Central Institute of Indian Languages was set up on the 17th July, 1969 with a view to assisting and co-ordinating the development of Indian Languages. The Institute was charged with the responsibility of serving as a nucleus to bring together all the research and literary out-put from the various linguistic streams to a common head and narrowing the gap between basic research and developmental research in the fields of languages and linguistics in India.

The Institute and its four regional centres are thus engaged in research and teaching which lends to the publication of a wideranging variety of materials. Materials designed for teaching / learning at different levels and suited to specific needs is one of the major areas of interest in its series of publications. Basic research relating to the acquisition of language and study of language in its manifold psycho-social relations constitute another broad range of its interest. These materials will include materials produced by the members of the staff of the Central Institute of Indian Languages and its Regional Language Centres and associated scholars from Universities and Institutions both Indian and Foreign.

The Central Institute of Indian Languages has initiated the Phonetic Reader Series in Indian languages with a view to presenting the range of Phonetic variation obtaining in this sub-continent and demonstrating the closeness of languages on the basis of Phonetic patterning. These Readers are biased towards learning the sound systems of languages. Thus it is hoped that this series will be of interest to both scholars who are interested in Phonetic studies and to practical learners of languages who wish to make a beginning in their language study.

The language instructors in our Regional Language Centres who had to produce the instructional material while teaching intensive courses of $5\frac{1}{2}$ hours a day deserve to be treated with sympathy. Through their dedicated work these young scholars have made contributions which will go a long way in the emotional integration of the country. If this series even partially fulfils its objectives then our efforts will be amply rewarded.

Central Institute of Indian Languages

Manasagangotri, Mysore-6

22nd March 1972

D. P. PATTANAYAK

Director

Acquisition of a good pronunciation forms an important part of language learning, especially so if the learner if expected to teach the language he has learnt, to others. Firstly, the learner must acquire the capacity to recognise readily without any error the various speech sounds occurring in the language he is learning. Secondly, he must acquire the capacity to produce them with the help of his own vocal organs. Thirdly, he must acquire the capacity to produce the individual speech sounds he has learnt in sequences. In addition to these three skills, which may be sufficient to gain a good pronunciation, the learner, depending on his needs, has to get a mastery over the orthography of the language he is learning. This involves developing automatic associations between written forms and speech sounds.

The phonetic readers in this series have been designed with the above points in view. They are mainly intended to meet the needs of teachers who receive training in an Indian language other than their mother-tongue at the Regional Language Centres of the Central Institute of Indian Languages. These teachers are expected not only to learn the languages in question but also be able to teach it to their students when they return home.

Each reader consists of a brief exposition about the organs of speech and their functions. It also introduces some technical terms. Then each speech sound is described in detail giving the movements of the vocal organs. Each description is rounded off by the technical term for that sound. Certain sounds which may prove difficult to persons with certain language backgrounds are emphasised. The readers also contain drills for practice. A brief phonemic statement which meaningfully groups the sounds described in the preceding sections is also appended. A statement

about the correspondences between the phonemes of the language studied and the letters used in the conventional orthography comes at the end.

These readers have been tried out on two batches of teacher-trainees and have been revised in the light of experience that has been gained. It may be too much to claim that they are perfect. There are lacunae still to be filled up. The most conspicious of these is the lack of any information on intonation. Suggestions for improvement are welcome and will be incorporated in the subsequent editions.

Though it is true that certain features of pronunciation can only be learnt with the aid of a teacher, the utility of such readers cannot be underestimated. It is hoped that these readers will be useful to even persons other than those for whom they are specifically intended.

H. S. BILIGIRI

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It is with a sense of gratitude that I wish to thank Dr. D. P. Pattanayak, Director, Central Institute of Indian Languages for extending his kind help and encouragement in allstages of the preparation of this Reader.

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My thanks are due to Dr. U. P. Upadhyaya, Principal, Southern Regional Language Centre for the useful discussions I had with him regarding the form and presentation of this Reader.

I also wish to express my grateful acknowledgement to my husband Mr. K. V. Srinivasan, Lecturer in Linguistics, Maharaja's College, Mysore, who has read this Phonetic Reader whenever it was rewritten for further improvements and gave invaluable suggestions for the accurate description of various sounds described.

Thanks are also due to Shri H. L. N. Bharati for seeing this book through the press and to Shri V. B. Satyan of the Kapila Power Press, Nanjangud, for the neat printing.

B. SYAMALA KUMARI

Contents

Fo	reword		•••	•
Pr	eface			vi
Αc	knowledgi	ment		i>
1.	Speech o	rgans	•••	1
2.	Malayala	am sounds	•••	5
	2.1.	Vowels	•••	5
	2.2.	Consonants	•••	11
	2.2.1.	Stops	•••	11
	2.2.2.	Nasals	•••	22
	2.2.3.	Fricatives	•••	24
	2.2.4.	Laterals	•••	26
	2.2.5.	Flap and trills	•••	27
	2.2.6.	Frictionless continuants		28
3.	Appendic	ees		31
	3.1.	Appendix-1 - Contrasting pairs for drill	•••	31
	3.1.2.	Consonants	•••	38
	3.1.2.1.	Stops	•••	38
	3.1.2.3.	Laterals	•••	41
	3.1.2.4.	Flap and trill	•••	43
	3.1.2.5.	Continuants	•••	43
	3.1.3.	Some more words for drill	•••	43
	3.2.	A note on phonemics of Malayalam	•••	48
	3.2.1.	Vowels	•••	48
	3.2.2.	Consonants	•••	48
	2 7 2	Dhanamia inventory		50

1. Speech Organs

- 0. The aim of this reader is to introduce the Malayalam sound, to any non Malayali learner of the language (with special reference to the speakers of Indo-Aryan languages) and help him acquire an acceptable pronunciation of these sounds. For this purpose, the nature and distribution of sounds are described in simple words without going into the minute details of their different shades
- 0.1. This reader has three sections. The first one deals with the organs of speech involved in the production of sounds and a few technical terms connected with it. The second section is the reader proper which describes the nature and distribution of Malayalam sounds in simple non-technical terms with illustrative examples. The third section contains three appendices. Appendix-I is a list of contrastive pairs for the purpose of drilling. Appendix-II sheds some light on the phonemic outline of the language. Appendix-III gives in brief, a phoneme-grapheme correspondence.

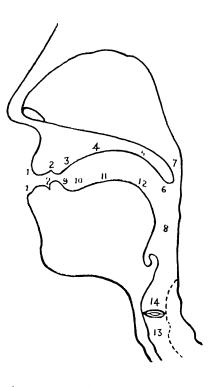
1.1. Speech Organs

The speech organs involved in the production of various sounds are the following. For convenience they are divided into two: movable and relatively stationary. Movable organs are termed as articulators and stationary organs are the points of articulation. In the production of different sounds, articulators touch or approach the points of articulation. This process is known as articulation. Lower lip and tongue are the two active articulators. The upper lip, roof of the mouth and the gum just behind the upper teeth known as alveolar ridge are the important

points of articulation. For the sake of ready reference and easiness of description the tongue is arbitrarily divided into the tip, the front and the back. Likewise the roof of the mouth is divided into the alveo palatal, hard palate and soft palate regions. The soft palate is also known as the velum. This velum continues down in the back to a little cone of flesh called the uvula which hangs free in the back of the mouth.

The diagram showing the organs of speech is given below:

- 1 Lips
- 2 Teeth
- 3 Teeth ridge
- 4 Hard palate
- 5 Soft palate
- 6 Uvula
- 7 Nasal passage
- 8 Pharynx
- 9 Tip of tongue
- 10 Blade of tongue
- 11 Front of tongue
- 12 Back of tongue
- 13 Larynx
- 14 Vocal cords



1.2 An important factor to be noted in the production of sounds is the process of voicing. The larynx in the throat contains two lip like elastic membranes which can be drawn close or pulled apart when air passes through them. When a sound is produced if the lip like structures are drawn close and they vibrate producing a buzzing noice technically called the voice, the

particular sound is termed as a voiced sound. A sound produced the accompanying vibration of the vocal cords is a voiceless sound. without

1.3. The various sounds produced by the human speech organs are mainly devided into two: vowels and consonants, In the production of a vowel sound the tongue and the lip play an important role by their action of modifying the air passage in the oral cavity. The air stream coming from the lungs is allowed to go out without any obstruction in the mouth. On the other hand a consonant is a sound in whose production the air passage is obstructed in any one of the following manners.

Any articulator can press against a point of articulation to close the air stream for a moment and then can be released to produce a *stop* sound.

The air current can be forced to squeeze through a narrow constriction resulting in a hissing noice producing the *fricative* sound.

By closing the median line of the air channel either partially or completely but leaving a free passage on either side of the articulator producing a *lateral* sound.

By making a single or succession of taps with the articulator against the point of articulation producing a flap or trill sound.

1.4. Back part of the velum can move against the back of the nasal cavity to create a closure so that air does not come through the nose. When this is opened air comes through the nasal passage producing a nasal or nasalised sound.

2. Malayalam Sounds

2.1. Vowels

From the point of view of a learner the vowel sounds to be familiar with are the following seven sounds. Out of these, five vowels have short-long distinction. Of the remaining two, one is always short and the other is always long. In this description these twelve vowel sounds are represented as i, ii, e, ee, a, aa, o, oo, u, uu, U and æ

2.1.1. [i]

During the production of this sound, the lips are spread. The front part of the tongue moves towards the front part of the palate thus obtaining the maximum height still avoiding any friction. The soft palate is raised so that no air comes through the nasal passage. The vocal cords also vibrate producing voice. It occurs initially, medially and finally. When it occurs initially, this is always preceded by a shade of the sound [y] technically known as an onglide of [y]. In such situations, first it starts from the position of [y] in which the mid part of the tongue moves towards the palate, but soon it changes that position and moves to the front to produce [i]. This vowel sound [i] is called the short, unrounded, high, front yowel.

y _{illa}	'no, not'	kiţţu	'to get'	kari	'soot'
y işţam	'like'	kaţţil .	'cot'	ciri	'smile'
y itRa	'this much'	tiriyu	'turn'	vari	'row'

2.1.2. [ii]

This sound is pronounced in the same way as [i] i.e. the tongue height and the lip position are same with the maximum height and maximum lip spreading. But this sound has got more duration. In its production the soft palate is raised and the vocal cords vibrate. It occurs in all the three positions, i.e., initially, medially and finally. In the initial position this has also an onglide of [y]. This is the long, unrounded, high, front vowel.

y _{iicca}	'house fly'	kiiri	'mongoose'	tii	'fire'
y _{iiţţi}	'rose wood'	mii <u>n</u>	'fish'	nii	'you' Sg.
y _{iiyal}	'an insect'	tiiram	'shore'	chii	'an excla- mation of contempt'
y iiśvara <u>n</u>	'God'	jiirakam	'cumin seed'		
y jiñja	'fibre'	piili	'eye lash'		

2.1.3.* [e]

While producing this sound the lower jaw is lowered a little so that the mouth is half closed and the front part of the tongue is raised towards the alveolar ridge. But the tongue height is not as much as it is for the production of [i]. During its production soft palate is raised and there is vibration of vocal cords. This sound occurs initially, medially and finally. In the initial position, like [i] this sound also has a shade of [y]. This is called the short unrounded, mid, front vowel.

^{*} Sounds marked in this way indicate that those are the probable areas of difficulties to a speaker of an Indo-Aryan Language.

y _{ela}	'leaf'	keţţi	'tied'	ni <u>n</u> ne	ʻyou' (obj)
^y ellaam	'everything'	peţţi	'box'	avide	'there'
y _{era}	'worm'	veţţi	'cut'	avare	'them'
yeppool	'when'	resam	ʻjuicc	avane	'him'
y eṅgil	if'	veral	'finger'	avale	'her'

2.1.4. [ec]

This sound is produced like [e] with all its articulatory characteristics. The only notable difference is that it has longer duration. This occurs in the initial, medial, and final positions. In the initial position it has an onglide of [y] like the previous sounds [i], [ii] and [e]. It is known as the long, unrounded, mid, front yowel.

y eelam	'cardamom'	keețțu	'heard'	avanee	'he only'
^y eennu	'to sob'	vceţţa	'hunting'	amm e c	'mother!' (voc)
y _{eeņi}	'ladder'	peedi	'fear'		
^y eeRi	'increased'	veela	ʻjob'		
^y eela	'field'	peena	'pen'		

2.1.5. [a]

While producing this sound, the mouth is open and the lips are neutral in position. The movement of the tongue is relaxed and the tongue is as low as possible. While producing this sound the velum is raised and there is vibration of vocal cords. This occurs Initially, medially and finally. The descriptive label for this sound is short, low, back vowel.

amma	'mother'	mala	ʻmountain	koḍa	ʻumbrella
acchan	'father'	maņam	'smell'	toḍa	'thigh'
ara	'half'	vala	'net'	poka	'smok e '
avide	'there'	vara	'line'	aņa	'dam'
ala	'wave'	taram	'short'	paśa	'gum'

2.1.6. [aa]

In the production of this sound the mouth is open and the lips are neutral as for the production of [a]. But the tongue position is lower and backer than [a]. The raising of the velum and the vibration of vocal cords are just like as they are for other vowels. This has got more duration than [a]. It occurs in all the three positions *i.e.*, initially, medially and finally. The descriptive label for this sound is long, low back vowel.

aama	'tortoise'	paal	'milk'	mahaa	'great'
aana	'elephant'	kaal	'leg'	acchaa	'father!' (voc.)
aaśa	'hope'	maala	'garland	vaa	'come'
aayi	'became'	vaal	'tail'	taa	'give'
aaḍu	'to swing'	caaram	'ash'		

2.1.7. *[o]

In the production of this sound, the lips are somewhat rounded. The back part of the tongue raises towards the soft palate. The tongue height is little lower than that for [e]. The soft palate is raised and the vocal cords vibrate. It occures only initially and medially. When it occurs initially, this sound has an onglide of [w] i.e., during its production the tongue starts to produce a fronter sound like [w] but soon retracts back and produces the sound [o]. This sound is described as the short, mid,back, rounded vowel.

woruma	'unity'	kola	'murder'
w oppam	'together'	pokkam	'height'

w _{oţţakam}	'camel'	toţţi	'bucket'
woru	'one'	moțța	'shaven head'
woraa1	'one person'	polla	'hollow'

2.1.8. [00]

This sound is produced in the same way as [0] but it has got a longer duration. This occurs in the initial, medial and final positions. In the initial position just like its shorter counterpart this too has an onglide of [w]. This sound is described as the long, mid, back, rounded vowel.

woodi	ʻran'	poole	'like'	poo	ʻgoʻ
w _{ooḍa}	'gutter'	tooḍa	ʻan ornament'	avanoo	'is he?'
w _{oola}	'palam leaf'	koora	'a fish'	cinoo	'some- where'
w oonam	'a festival'	coora	'blood'		
wooram	'coast'	mool	'daught e r'		

2.1.9. [u]

In the production of this sound the lips are completely rounded. The back-most part of the tongue is raised towards the soft palate much higher than that for [o] or [c]. The air does not come through the nasal cavity because of the raising of velum. This sound is accompanied by the vibration of the vocal cords. It occurs initially, medially and finally. In the initial position this sound also has onglide of [w] like the mid-back vowels [o] and [oo]. The descriptive label for this sound is short, high, back, rounded vowel.

wumma	'kiss'	tuppi	'spat'	kuru	'se e d'
wucca	'after-noon'	kuţţi	'child'	pu <u>l</u> u	'worm'
w uttaram	'answer'	kuṭṭa	'basket'	varu	'to came'
w ural	'mortar'	puRam	'page'	vannu	'came'
w u <u>nn</u> am	'aim'	kuļi	'bath'	kaṇḍu	'saw'

2.1.10. [uu]

This sound is the longer counterpart of [u]. The lip and the tongue position, the initial onglide of [w], everything is same as for [u] but this has longer duration. The raising of the soft palate and the vibration of the vocal cords are there during the production of this vowel sound also. It occurs initially, medially and finally.

w uuham	'guess'	kuura	'roof'	varuu	'please come'
wuuma	'dumb'	duuram	distance	manuu	'Manu' (voc.)
wuula <u>n</u>	'fox'	cuural	'cane'		
w uuțțu	'to feed'	muula	'corner'		
w _{uunnu}	'to support'	cuul	'broom-stick	.,	

2.1.11. [U]

During the production of this sound the lips are spread. The back of the tongue is raised towards the soft palate as in the production of [u] but a little lower. The soft palate is raised and there is vibration of vocal cords. It does not occur in the initial position. In the medial position it is in free-variation with [u]. Finally it is in contrast with [u]. The descriptive label for this sound is short, high, back, unrounded vowel.

irupatU / irUpatU 'twenty' naalU 'four'
karuttU / karUttU 'strength teekkU 'teak' teekku 'to rub'
toluttU / tolUttU 'cow shed' vaakkU 'word'
vakkU 'edge' vakku 'to place'

2.1.12. [æ]

While producing this sound the lips are neutral. The front part of the tongue moves forwards. The tongue is as low as it is for the production of the sound [a]. This has got more duration than the short vowels [i], [e], [a], [o| and [u] but not as long as the long vowels [ii], [ee], [aa], [oo] and [uu]. The soft palate is raised and vocal cords vibrate. It occurs in the medial position in some of the loan words from English. The descriptive label for this sound is long, low, front vowel.

kæmaRa	'camera'
bæţţU	'bat'
kæra <u>t</u> tU	'carrot'
bæṅgU	'bank'
mæ jik	'magic'

2.2. Consonants

The various consonat sounds in Malayalam are grouped under different heads on the basis of their manners of articulation.

2.2.1. Stops

2.2.1.1. [p]

The air coming from the lungs without carrying any vibration of the vocal cords is completely stopped for a moment by pressing the lower lip against the upper lip. The soft palate is raised so that no air passes through the nose. When the lips are released, the air escapes from the mouth producing an explosive sound. This sound occurs initially, medially with length and in clusters.

peţţi	'box'	kappal	'ship'
peena	'pen'	tuppal	'spitting'
paţţi	'dog'	kuppi	'bottle'
pattU	'ten'	kopRa	'dry coconut'
pRaaņi	'creature'	svop <u>n</u> am	'dream'

2.2.1.2. [P]

The lower lip presses against the upper lip to make a closure, but the closure is not tight so that a little air escapes even before plosion. There is weak vibration of the vocal cords. But there is no passage of air through the nasal cavity. This sound occurs only between vowels. It is called weakly voiced bilabial fricativised stop.

paaPam	ʻsin'
aPaayam	'danger'
aParan	'the other man
śaaPam	'curse'
kooPam	'anger'

2.2.1.3. [ph]

The air streams coming from the lungs which carries no vibration of the vocal cords is stopped by pressing the lower lip against upper lip as in the production of [p]. But the parting of the lips creating the plosion takes place with strong force so that a puff of air accompanies. This is known as aspiration, and the sound thus produced is an aspirated sound. During the production of this sound the soft palate is raised to close the entry

of air into the nasal passage. This [ph] occurs initially and medially in loanwords from Sanskrit. The descriptive label for this sound is voiceless, aspirated, bilabial stop.

phalam	'result'	kapham	'phlegm'
phaliTam	ʻjoke'	aapharaṇam	'ornament'
pharani	ʻjar'		
phayam	'tear'		
phaaram	'weight'		

2.2.1.4. [b]

The air current coming from the lungs which carries the vibration of the vocal cords is stopped for a moment and then released making a plosion. This stoping is caused by pressing the lower lip against the upper lip. During its production no air comes through the nasal passage. This occurs initially and mediaily. It is called the voiced bilabial stop.

belam	'strength'	kambu	'stick'	,
baabu	'a name'	tumbi	'beetle'	
bimbam	'image'	cembu	'copper'	

2.2.1.5. [t]

During the production of this sound the tip of the tongue firmly presses against the back of the upper front teeth in such a way that no air escapes. The soft palate is raised and vocal cords do not vibrate. The tongue tip is released producing a plosion. This sound occurs initially medially with length and in clusters. It is known as the voiceless, dental stop.

t aţţi	'knock e d'	tatta	'parrot'
tendi	'beggar'	cattu	'died'

tuuņU	ʻpillar'	patti	'hood of the snake'
taram	'sort'	raatRi	'night'
tRaaņi	'ability'	maatRam	'only'

2.2.1.6. *[T]

During the production of this sound the tongue tip presses against the back of the upper teeth as in the production of [t]. But a little air escapes even before plosion because the contact of the articulator with the point of articulation is not tight. The soft palate is raised and there is weak vibration of the vocal cords. This sound occurs between yowels and in clusters after y.

paaTi	'half'
paTi	'a grafted plant
caTi	'deceit'
раТа	'foam'
koyTu	'harvested'
neyTu	'weaved'
peyTu	'showered'

2.2.1.7. [th]

This is an aspirated sound like [ph] during whose production a puff of air accompanies the plosion. The tongue tip presses against the back of the front teeth and blocks the air for a moment and releases it with force. The soft palate is raised and there is no vibration of the vocal cords. This occurs initially and medially in loan words from Sanskrit. This sound is called the voiceless aspirated dental stop.

thaṇam	'money'	retham	'chariot'
thaaraalam	'liberal'	katha	'story'

2.2.1.8. [d]

During the production of this sound the tongue tip presses against the back of the upper teeth to make a closure as it for the production of [t]. But there is vibration of the vocal cords and so the air obstructed carries voice. The soft palate is raised to prevent the entry of air into the nasal cavity. When the contact is released resulting in a plosion this sound is produced. This occurs initially and medially. It is called voiced dental stop.

deya	'kindness'	maryaada	'gentlemanliness'
duuram	'distance'	pandU	'ball'
doośa	'rice-cake'	aadyam	'first of all'
daa <u>n</u> am	'gift'	sammaRdam	'pressure'

2.2.1.9. *[t]

In producing this sound the tongue tip is tightly pressed against the alveolar ridge behind the upper teeth and the lateral margins of the tongue are in contact with the teeth and gums in such a way as to form a tight closure. The soft palate is raised and there is no vibration of the vocal cords. When the stoppage is released this plosive sound is produced. This sound occurs only in between vowels and that too with length. It is known as the voiceless alveolar stop.

kaaţţU	'wind'
paaţţa	'cockroach
paaţţu	'to winnow'
maaţţam	'change'
kayaţţam	'progress, promotion'

2.2.1.10. [d]

This sound is produced in the same way as [t] by making a contact of the tongue tip against the alveolar ridge. The

difference in the manner of production from that of [t] is that there is vibration of the vocal cords. The soft palate being raised allows no entry of air into the nasal cavity. This occurs only in clusters and that too after the homorganic nasal. This is described as the voiced alveolar stop.

acchande	'father's'
ende	'my'
ninde	'your'

2.2.1.11. [t]

To produce this sound the tongue tip is curled so that its underneath portion points upwards and touches against alveopalatal region or the hard palate itself to close the air stream. The vocal cords do not vibrate and no air comes through the nasal cavity because of the raising of velum. When the contact is released a plosive sound is produced. This occurs initially, medially with length and clusters. This is known as the voiceless retroflex stop.

ţ Re yin	'train'	paţţi	'dog'
ţșiiņam	'tiredness'	vaţti	'bas ke t'
ţṣema	'patience'	iṣṭam	'like'
ţṣaamam	'famine'	kaţşi	'party'
ţṣeyam	'tuberculosis'	paţṣi	'bird'

2.2.1.12. [th]

This sound is produced in the same manner as [t] with the curling of the tongue tip and making a contact with the alveopalatal or palatal region. When the contact is released resulting in plosion, a puff of air accompanies it as in the case of [ph] or [th]. This aspiration makes it different from [t]. This sound also is produced while there is no vibration of the vocal cords. The soft palate being raised does not allow the entry of air into the nasal cavity. This

occurs only medially and that too in loan words from Sanskrit. This is known as voiceless aspirated retroflex stop.

paaṭham	'lesson'
kaṭhiṇam	'difficult'
kaṭhaara	'dagger'
viţţhi	'fool'

2.2.1.13. [d]

It is another plosive sound produced in the same way as [t]. But it is different from [t] in the aspect of voice. During its production the vocal cords vibrate. The soft palate is raised as in the production of all stop sounds. It occurs initially and medially. This is described as voiced retroflex stop.

deppi	'small box'	oodu	'to run'
dookţaR	'doctor'	paaḍam	'field'
₫Raama	'drama'	kaṇḍu	'saw'
		vaṇḍU	'bee'

2.2.1.14. [c]

In its production the mid part of the tongue is placed in broad and firm contact with the hard palate. The margins of the tongue are in contact with the teeth and the gums laterally. The breath carrying no vibration of vocal cords is then released. A plosive sound is thus obtained, when no air passes through the nasal cavity. This occurs initially, medially with length and in clusters. It is described as the voiceless palatal stop.

сігі	'smile'	pacca	'green'
ceyTu	'did'	koccu	'litttle'
cattu	'died'	puucca	'cat'

ciitta	'bad'	niścayam	'decision'
ciițți	'cotton cloth'	vRiścikam	'a malayalam month'

2.2.1.15. *[C]

The point of articulation as well as the manner for the production of this sound is the same as for [c]. But the contact of the blade of the tongue with the palate is not firm so that a little air comes out before plosion. There is weak vibration of the vocal cords also. The soft palate is raised allowing no entry of air into the nasal cavity. This sound occurs in between vowels and it is described as weakly voiced palatal fricativised stop.

paaCakam	'cooking'
vaaCakam	'sentence'
aalooCana	'thought, proposal
viCaaram	'thought'
pariCayam	'acquaintance'

2.2.1.16. [ch]

This sound is produced in the manner as that of [c]. The point of articulation is also same. But the plosion takes place with an accompanying puff of air making it an aspirated sound. This occurs initially and medially in loan words from Sanskrit. It is called the voiceless aspirated stop.

chaaya	'shade'	acchan	'fath e r'
		sveeccha	'one's own desire'

2.2.1.17. [j]

This sound is also produced with the same tongue position and in the same manner as that of [c]. But the breath which is stopped carries vibration of the vocal cords. The soft palate is raised as

in the production of all stop sounds allowing no entry of air into the nasal cavity. This sound occurs initially and medially tand is described as the voiced palatal stop.

jaaTi	'caste'	puu ja	'worship'
iaaTakam	'horoscope'	haajaR	'attendence'
jeyam	'victory'	haRji	'petition'
jenmam	'birth'	añju	'fine'
		lejja	'shyness'

2.2.1.18. [k] In the production of this sound, the back of the tongue is raised and it makes contact with the soft palate making a closure of the air current. The soft palate is raised so that no air escapes through the nasal passage. The compressed air is let out when the tongue is released making an explosive sound. During the production of this sound, the vocal cords do not vibrate. This sound occurs initially, medially with length and in clusters.

kala	'weed'	tookku	ʻgun'
kaala	'ox'	pokku	'to raise'
kara	'bank, land'	cakka	jack fruit'
kala	'art'	vakku	'edge'
kRimi	'worm'	rektam	'blood'
kRemam	'order'	śakti	'strength

2.2.1.19. *[K]

(

This sound is produced by making the tongue to have a contact with the soft palate, holding the air current for a moment as in the production of [K]. But the contact is not as tight as it is for the production of [k]. So a little air escapes even before plosion as in the production of [P], [T] and [C]. Besides, there is weak vibration of the vocal cords. But the soft palate remains raised

This sound occurs in between vowels and in medial clusters after [y] and [l]. This is known as the weakly voiced velar fricativised stop.

paKal	'day time'	ceyKa	'doing'
poKa	'smoke'	poyKa	'tank'
aKam	'inside'	nalKu	'to give'
paKa	'revenge'		
pa Kuti	'half'		

2.2.1.20. [kh]

During the production of this sound, the back of the tongue presses against the soft palate. But the plosion takes with the accompanying puff of air, as in the production of [ph], [th] and [ch]. The vocal cords do not vibrate and the soft palate raises to prevent the entry of air into the nasal cavity. This, like the other aspirated stops occurs initially and medially in loan words from Sanskrit. This is described as the voiceless aspirated velar stop.

khanam	'weight'	meekham	'cloud'
kha <u>n</u> i	'mine'	nakham	'nail'
khyaaTi	'fame'	aakhaaTam	'stroke'

2.2.1.21.

In addition to above mentioned velar stops, another palatalised velar stop occurs with length in between vowels. This is represented as [kk <]. This sound is pronounced like [k] but during its articulation the tongue touches the hindmost part of the palate instead of the soft palate as in the case of the production of [k]. This is also a voiceless stop sound during whose production there is no vibration of the vocal cords. No air current escapes through the nasal cavity to nasalise it. This is

distinct from the [k] sound produced with length in intervocal position. The examples given below show the difference between [kk] and [kk <] making differences in meaning.

vakkU	'cdge'	vakkU ('put'
teekkU	'teak'	teekk ^{<} U	'rub'
vikkU	'stammering'	vikkU	'sell'

2.2.1.22. [g]

During the production of this sound the back part of the tongue makes contact with the soft palate as in the production of [k]. But the air current held up by the stoppage carries vibration of the vocal cords. The soft palate is raised stopping the escape of air through the nasal passage. This sound occurs initially and medially. The descriptive label for this sound is voiced velar stop.

geTi	'direction'	veegam	'speed'
gusti	'wrestling'	paṅgu	'shar e '
giiTam	'song'	vaRgam	'race'

2.2.1.23.

It is to be noted that the voiced stops b. d, d, j and g do not have their aspirated counterparts bh, dh, dh, jh and gh like the voiceless stops. The voiced aspirated sounds of Sanskrit loans are either deaspirated or devoiced in Malayalam.

bhaar> phaaram / baaram	'weight'
bhaaryaa > phaarya / baarya	'wife'
dhan > thanam / danam	'wealth'
madhur > mathuram / maduram	'weight'

2.2.2. Nasals

2.2.2.1. [m]

In the production of this sound the lips are firmly pressed against each other so that there is no escape of air stream for a while. The soft palate is lowered and the air comes freely through the nasal cavity. The vocal cords are vibrated. This occurs in the initial, medial and final positions. The descriptive label for this sound is bilabial nasal.

mala	'mountain'	cuma	'cough	nakham	'nail'
mattU	'churning rod'	aama	'tortoise'	koļam	'pond'
$ma\underline{n}as\boldsymbol{U}$	'mind'	amma	'mother'	kalam	'pot'
maṇṇU	'soil'	cembu	'copper'	samayam	'time'
maavU	'mango tree'	tumbi	'beetle'	koopam	'anger'

2.2.2.2. [n]

During the production of this sound the tip of the tongue touches the back of the upper front teeth. The soft palate is lowered so that air escapes through the nasal passage. Vocal cords vibrate. It occurs in the initial and medial position.

nammal	'we' (incl)	muunnU	'three'
nalla	'good'	panni	ʻpig'
naadU	'country'	vannu	'came'

2.2.2.3. [<u>n</u>]

In the production of this sound the tip of the tongue firmly presses against the alveolar ridge to block the air passage. The soft palate is lowered allowing the air to pass through the nasal cavity. The vocal cords vibrate. This occurs in the medial and final positions. This is the alveolar nasal.

aaga	'elephant'	ava <u>n</u>	'he'
pani	'fever'	accha <u>n</u>	'father'
kanni	a malayalam month' unmarried girl	maa <u>n</u>	'deer'

2.2.2.4. [n]

In the production of this sound the tongue tip is curled back and it touches the palate thereby making a closure of the air passage. The soft palate is lowered letting the air into the nasal cavity. The vocal cords vibrate. This sound occurs in the medial position. It is the retroflex nasal.

paņam	'money'	maṇṇU	'sand'
kaaņu	'to see'	puṇṇU	'sore'
maṇam	'smell'	kaṇṇU	'eye'
coṇa	'smartness'	coṇṇaambU	'lime'

2.2.2.5. [\tilde{n}]

In the production of this nasal sound, the mid part of the tongue touches the hard palate closing the air flow for a while. The soft palate is lowered and the air comes through the nose. The vocal cords vibrate. This occurs in the initial and medial positions. Medially it occurs only with length or with homoorganic stop i.e., [i]. This is known as the palatal nasal.

ñaa <u>n</u>	'I'	pañjaara	'sugar'
ñaṇḍU	'crab'	añju	'five'
ñaayaR	'Sunday'	mañña	'yellow'
ñaaRa	'a tree'	kuññU	'baby'
ñaṅṅaļ	'we' (excl)	sañji	'bag'

2.2.2.6. [n]

During the production of this sound the mouth is completely blocked by raising the back of the tongue to touch the front part of the soft palate. The soft palate is lowered so that air can pass through the nose. The vocal cords vibrate. It occurs medially with lenth or in clusters. It is called the velar nasal.

maanna	'mango'	panti	'row'
teeñña	'coconut'	paṅgU	'share'
taṅṅu	'to halt'	vaṅgU	'hole'

2.2.3. Fricatives

2.2.3.1. [f]

During the production of this sound, the lower lip touches the back of the upper teeth but does not make a closure to block the air stream. Through the passage in between, the air forces its way making a hissing sound. The soft palate is raised and the vocal cords do not vibrate. This sound occurs initially and medially in loan words from English. This is voiceless labiodental fricative.

'fæ <u>n</u> '	'fan'	aafiisU	'office'
fooņ	'phone'	aafiisaR	'officer'
f iisU	'fees'		

2.2.3.2. [s]

During the production of this sound the blade of the tongue approches the alveolar ridge allowing the air to squeeze out producing a hissing noise. The soft palate is raised and the vocal cords do not vibrate. This sound occurs initially and medially. It is called the voiceless blade alveolar fricative.

sammatam	'consent'	maasam	'month'
sammaanam	'gift'	vayasU	'age'
saari	'sari'	vastu	'property'

2.2.3 3. [s]

The tip of the tongue curls back and reaches towards the hard palate leaving space for the air to squeeze out. The soft palate is raised and the vocal cords do not vibrate. The air squeezes out producing a hissing sound. This occurs in the initial and medial position. It is called the voiceless retroflex nasal.

şaappu	'shop'	vaRşam	'year'
şaşţi	'sixth'	kaṣṭam	'difficult'
		kaşaayam	'decoction'
		viṣam	'poison'
		paţși	'bird'

2.2.3.4. [ś]

During the production of this sound the mid part of tongue is raised towards the front part of the palate allowing the air to squeeze through in between producing the hissing sound. The sides of the tongue are in firm contact with the teeth and gum preventing the lateral escape of the air. The passage between the tongue and the palate is a little broader than that for [s]. The soft palate is raised and there is no vibration of the vocal cords. This sound occurs in the initial and medial position. It is called the voiceless palatal fricative.

śakti	'strength'	paśa	ʻgum'
śakunam	'omen'	vaśam	'side'
śalyam	'trouble'	vaaśi	'obstinacy'
śa <u>n</u> i	'sa t urn	viśappu	'hunger'

2.2,3.5. [h]

In its production the mouth is kept as in the production of any vowel. The air stream is then squeezed out in friction. The soft palate is raised. The vocal cords vibrate. It occurs in the initial and medial position and is called the voiced glottal fricative.

haaram	'garland'	mahaa	'great'
haajaR	'attendance'	graham	'planet'
haRji	'complaint'	palahaaram	'snacks'

2.2.4. Laterals

2.2.4.1. [1]

In the production of this sound the tip of the tongue is placed on the teeth ridge in such a way that there is complete blockage of air in the middle of the mouth but air is let out through the sides of the tongue. The soft palate is raised. The vocal cords vibrate. This sound occurs in the initial, medial and final positions. It is called the voiced alveolar lateral.

lookam	'world'	veela	ʻjob'	paal	'milk'
liila	'game'	vala	'net'	vaal	'tail'
leelam	'auction'	tala	'head'	mutal	'capital'

2.2.4.2. *[1]

For the production of this sound the tongue tip is curled back and it touches the palate closing the air passage but lets the air stream out through the sides of the tongue. The soft palate is raised. The vocal cords vibrate. This sound occurs in the initial, medial and final positions. The initial occurance is limited only to one word. This sound is called the voiced retroflex nasal.

2.2.4.3. *[1]

For producing this sound the tongue tip is curled back and it reaches towards the palate making a partial closure. The air is let out through the sides as well as over the tongue, with slight friction. The soft palate is raised and the vocal cords vibrate. This sound occurs medially. It is called the voiced retroflexed palatal fricativised lateral.

ma <u>l</u> a	'rain'
vaala	'plantains'
kuli	ʻpit'
pa <u>l</u> m	'fruit'
pulam	'worm'

2.2.5. Flap and trill

2.2.5.1. [r]

For producing this sound the tongue touches the alveolar ridge for a single tap. The rest of the tongue is low and during the tap it is laterally contracted. The soft palate is raised. The vocal cord vibrates. It occurs initially and medially. It is called as the voiced alveolar flap.

raatRi	'night'	kari	'soot'
rektam	'blood'	vari	'line'
roomam	'hair'	ciri	'smile'
		graamam	'village'

2.2.5.2. *[R]

In the production of this sound the tip of the tongue makes rapid vibrations against the alveolar ridge. The soft palate is raised to prevent the escape of air through the nasal cavity. The vocal cords vibrate. This occurs in the initial, medial and final positions. It is called as the voiced alveolar trill.

RoodU	·'road'	kaRi	'curry'	kayaR	'rope'
Roțți	'bread'	taRi	'loom'	payaR	'pulses'
Raaņi	'queen'	coRi	'itches'	ñaayaR	'Sunday'
		kaRpuuram	'camphor'		
		vaRgam	'race'		
		aaRti	'desire'		
		maRdam	'pressure'		

2.2.6. Frictionless continuants

2.2.6.1. [v]

In producing this sound, the lower lip touches the back of the upper front teeth and in that position air is let out chiefly through the sides without any friction. The soft palate is raised. The vocal cords vibrate. It occurs initially and medially. It is called the voiced labiodental frictionless continuant.

vannu	'came'	avan	'he'
vara	'line'	kavı	'poet'
va <u>t</u> ti	'dried up'	covva	'Tuesday, Mars'

2.2.6.2. [y]

For the production of this sound the mid part of the tongue raises and nearly touches the palate but the air escapes without any friction, through the sides as well as above the tongue. The

MALAYALAM SOUNDS

soft palate is raised. The vocal cords vibrate. This occurs initially, medially and finally. It is called the voiced palatal frictionless continuant.

yendRam	'machine'	paayal	'moss'	kay	'hand'
yoogam	'luck'	kayaR	'rope'	ney	'ghee'
vooiikku	'to agree'	ceyyu	to do'		

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3. Appendices

3.1. Appendix 1—Contrasting pairs for drill

3.1.1. Vowels

i a n d ii			
y _{iri}	'sit'	y _{iiRa<u>n</u>}	'wet'
y _{iḍu}	'put'	^y iiḍU	'mortgage'
miTi	'limit'	miiTe	'above'
piḍi	'handle'	biiḍi	'beedi'
ciţţi	'chit'	ciiţţi	'cotton'
maTi	'enough'	tii	'fire'
pani	'fever'	nii	'you' (sg)
i and e			
y innU	'today`	y ennU	'which day'
y ippool	'now'	y eppool	'when'
y _{iţţu}	'put'	^y eṭṭU	'eight'
kiţţi	'got'	keţţi	'tied'
ciţţi	'chit'	ceţţi	'a surname'
pa <u>n</u> i	'fever'	avane	'him'
ii and ee			
y _{iinda}	'a fruit'	eendu	'to limp'

tiiram	'shore'	teerU	'chariot'
tii	'fire'	atee	'that itself'
i and a			
y _{innU}	'today'	annU	'that day'
^y ippool	'now'	appool	'then'
y ivide	'here'	avide	'there'
y innane	'this way	annane	'that way'
kiţţi	'got'	kaţţi	'thickness'
piḍi	'handle'	paḍi	'step'
cirikku	'to smile'	carikku	'to tilt'
eli	'rat'	ela	'leaf'
paali	'a language'	paala	'a tree'
ii and aa			
y iirU	'lice'	aarU	'who'
^y iiśvara <u>n</u>	'God'	aasvaasam	'relief'
kiilU	'tar'	kaalU	'leg'
viira <u>n</u>	'brave man'	vaaram	'week'
viițți	'returned'	vaațți	'dried up'
e ḍii	'the term of a	eḍaa	'the term of
	address for female		address for male
	singular'		singular'
i and o			
y _{iinn} U	'today'	wonnU	'one'
y _{iru}	'two'	w _{oru}	'one'

kiţţi	'got'	koţţi	'knocked'
piḍi	'handle'	poḍi	'dust'
ii and oo			
y iirU	'lice'	w oorU	613141
			'acidity in water'
^y i i Rpam	'dampness'	w _{ooRma}	'memory'
^y iiyal	ʻa fly'	w _{oov} U	'an outlet'
tiiram	'shore'	tooran	'a dish'
kiira	'a plant'	koora	'a fish'
tii	'fire'	аТоо	'is that'
i and u			
		w .	
y iruţţi	'darken e d'	w _{uruţţi}	'rolled'
y _{ippam}	'now'	w uppu	'salt'
y _{ima}	'eyelash'	w _{uma}	'a name'
kiţţi	'got'	kuţţi	'child'
cirikku	'to smile'	curukku	'to brief'
e and ee			
y _{ela}	61 - 62	y c ela	(0.11)
	'leaf'		'field'
y _{ettu}	'to reach'	y eettan	'a plantain'
cela	'few'	ceela	'sari'
vela	'price'	veela	'work'
avane	'him'	avanee	'he only'

e and a			
y _{ennu}	'which day'	annu	'that day'
yeppool	'when'	appool	'then'
y _{evide}	'where'	avide	'there'
keţţi	'tied'	kaţţi	'thickness'
peţţi	'box'	paţţi	'dog'
cețți	'a surname'	cațți	'pot'
vețți	'cut'	vațți	'basket'
avane	'him'	pana	'palmyra tree'
ee and aa			
^y eela	'field'	aala	'blacksmith's workshop'
^y eeRi	'increased'	aaRi	'cooled'
keeRi	'climbed'	kaaRi	'spat with noise'
peedi	'fear'	paadi	'sang'
aTee	'that itself'	аТаа	'there, yonder'
e and o			
y ennu	'which day'	w onnu	'one'

yeri 'hot taste' Woru 'one'
yeruma 'she buffalo' Woruma 'unity'

vela 'price' kola 'murder'

ee and oo

y_{eela} 'field' woola 'palm leaf'
y_{eelam} 'cardamom' woola<u>n</u> 'a curry'

ceela	'sari'	coola	'sha de '
peerU	'name'	poorU	'fight'
teetta	'projection'	too <u>t</u> ta	'(he) who failed'
avanee	'he only'	avanoo	'is he?'
e and u			
y _{eraţţi}	'double'	w _{uruţţi}	'rolled'
y ellU	'sesame'	wullU	'mind'
y edukku	'to take'	w uḍukku	'to wear'
keţţi	'tied'	kuţţi	'child'
ceera	'sna ke '	cuura	'a fish'
avanee	'he only'	manuu	'Manu' (voc)
a and aa			
aņa	'dam'	aaņa	'swearing'
amma	'mother'	aama	'tortoise'
ala	'wave'	aala	'blacksmith's workshop'
kalam	'pot'	kaalam	'time, season'
kala	'weed'	kaala	'ox'
vaļa	'bangle'	vaaļa	'a fish'
taļam	'hall'	taalam	'rhythm'
раТа	'foam'	aTaa	'there, yonder'
a and o			
aruma	'bet'	w oruma	'unity'
annU	'that day'	wonnU	'one'

50			
kannU	'calf, young one'	konnu	'killed'
kallU	'stone'	kollu	'kill'
•			
aa and oo			
aarU	'who'	w _{oor} U	'acidity in water'
aala	'blacksmith's workshop`	w oola	'palm leaf'
paalU	'milk'	poole	'like'
taaram	'star'	toora <u>n</u>	ʻa dish'
caala	'a place'	coola	'shade'
paara	'crowbar'	poora	'not sufficient'
kaara	'a fish'	koora	'a fish'
a Taa	'there, yonder'	аТоо	'is that'?
a and u			
a and u			
amma	'mother'	wumma	'kiss'
ala	'wave'	w _{ula}	'oven, fireplace'
adukku	'to approach'	^W uḍuk k u	'to wear'
kaţţi	'thickness'	kuţţi	'child'
caţţi	'pot'	cuţţi	'locket'
aa and uu			
aama	'tortoise'	wuma	'dumb'
aana	'elephant'	wuu <u>n</u> U	'gum'
kaara	'a fish'	kuura	'roof'

caal 'channel' cuul 'broom stick'

o and u			
wocca	'noise'	wucca	'afternoon'
w onnU	'one'	w u <u>nn</u> am	'aim'
woraal	'one person'	w _{uru]u}	'to roll'
toppi	'hat'	tuppi	'spat'
koţţi	'knocked'	kuţţi	'child'
coțți	'became lean'	cuţţi	'locket'
o and oo			
woppam	'together'	wooRma	'memory'
$^{\mathrm{w}}$ or $^{\mathrm{U}}$	'one'	w _{oor} U	'acidity in water'
toppi	'hat'	tooppU	'grove'
koţţu	'to knock'	kooţţU	'coat'
toţţi	'bucket'	tooţţi	'scavanger'
u and uu			
w _{uma}	'a name'	w uuma	'dumb'
w unnam	ʻaim'	w uu <u>n</u> am	'dificiency'
kuru	'seed'	kuura	'roof'
puRam	'page'	puuram	'a star'
kuppi	'bottle'	kuuppi	'folded'
curam	'tunnel, pass'	cuura	'a fish'
u and U			
teek k u	'to rub'	teekkU	'teak'
vakku	'to place'	vakkU	'edge'
iḍu	'to put'	iḍU	'put' (singular imperative)

i, e, a, o and u

y innU	y ennU	w annU	wonnU	w u <u>nn</u> am
kiţţi	keţţi	kaţţi	koţţi	kuţţi
ciţţi	ceţţi	cațți	coţţi	cuțți
	peţţi	paţţi	poţţi	
		taţţi	toțți	

3.1.2. Consonants

3.1.2.1. Stops

p and b			
paalam	'bridge'	baala <u>n</u>	'boy'
paala	'a tree'	baala	'girl'
paava	'doll'	baava	'a name'
p and t			
pappa	'a name'	tatta	'parrot'
pala	'many'	tala	'head'
paalam	'bridge'	taalam	'plate'
paRa	'tell'	taRa	'floor'
paaRaavU	'guard'	taaRaavU	'duck'
paali	ʻa language'	taali	'the ornament which forms the symbol of marri- age for Hindus'
paTi	'grafted plant'	tavi	'laddle'
kuppi	'bottle'	kutti	'pierced'
p and t			
tappi	'searched'	va <u>t</u> <u>t</u> i	'dried up'
tuppi	'spat'	cuţţi	'revolved'
kuppi	'bottle'	kuţţi	'stump'

p and t appam vaapaa	'cake' 'father'	caţţam caaţţa	'rule' 'whip'
p and c			
pattU	'ten'	cattu	'died'
расса	'green'	cappa	'uneven'
p and k			
pallU	'tooth'	tallU	'beating'
pappa	'name'	takka	'suitable'
appam	'cake'	akkam	'number'
t and t			
patti	'hood'	pa <u>t</u> ti	'stuck'
pattal	'sticking'	vaţţal	'fried eatable'
t and t			
patti	'h o od'	paţţi	'dog'
katti	'knife'	kaţţi	'thickness'
t and c			
taccu	'stitched'	tatta	'parrot'
cattu	'died'	pacca	'green'
tinnu	'ate'	cinni	'scattered'
takka	'suitable'	cakka	'jack fruit'
t and k			
takka	'suitable'	kakka	'shell'
раТа	'foam'	раКа	'revenge'

c and k

caakkU 'sac' kaaccu 'to warm'

vaaccU 'watch' vaakkU 'word'

Nasals

3.1.2.2.

m and n

maaman 'uncle' naamam 'name'

pammi 'stealthily' panni 'pig'

kammi 'deficiency' kannU 'calf'

m and n

aama 'tortoise' aana 'elephant'

tammil 'in between' tannil 'in oneself'

vaamam 'left' vaanam 'sky'

taamasam 'delay' paanakam 'drink'

m and p

aama 'tortoise' aana 'swearing'

koomaram 'devil dancer' caanakam 'cowdung'

amma 'mother' anni 'squirrel'

kammi 'deficiency' kanni 'link'

m, n and n

aama aana aana

m, n and ñ

pammi paññi paññi

m and n

aama 'tortoise' maanna 'mango'

APPENDIX 41

n and ñ			
nammal	'we' (incl)	ñaṅṅaļ	'we' (excl)
ñ and n			
maññal	'turmeric'	mańńal	'dimness'
mm, nn, <u>nn</u>	, nn, nn and nn		
kammi	kannU ka <u>nn</u> i	kaņņi	kaññi manni
'deficiency'	'calf' 'a month'	'link'	'gruel' 'faded'
3.1.2.3. Lat	erals		
l and 1			
kali	'anger'	kali	'game'
kala	'art'	kaļa	'weed'
tala	'head'	taļa	'anklet'
talam	'surface'	talam	'hall'
vala	'net'	vaļa	'bangle'
paalam	'bridge'	paalam	'rail'
kaalam	'season'	kaalan	'a curry'
vaal	'tail'	vaal	'sword'
aval	'beaten rice'	aval	'she'
1 and 1			
mala	'mountain'	mala	'rain'
vali	'to pull'	vali	'path'
toli	'skin'	to <u>l</u> i	'kick'
palam	'a measure'	palam	'fruit'
kali	'anger'	ka <u>l</u> i	'a measurement of length'

aala	'blaksmith's workship'	aa <u>l</u> am	'depth'
vaala	'a fish'	vaala	'plantain'
l and l			
vaaļa	'a fish'	vaala	ʻpla n tain'
coolam	'maize'	caa <u>l</u> i	'an insect'
paalam	'rail'	aalam	'depth'
kuļi	'bath'	kuli	ʻpit'
culi	'wrinkle'	culi	'whirl pool'
poliyu	'to be broken'	poilyu	'to drop off'
<i>l</i> , <i>!</i> and <u>/</u>			
kali	kaļi	ka <u>l</u> i	
vaalU	vaa l U	vaalU	
koolU	koolU	koola	
taalam	taalam	taale	
l and d			
k ulikku	'to bathe'	kudikku	'to drink'
polikku	'to destroy'	podikku	'to powder'
talikku	'to sprinkle'	tadikku	'to be fat'
<u>l</u> and d			
pa <u>l</u> am	'fruit'	paḍam	'picture'
va <u>l</u> i	'path'	vadi	'stick'
kali	'a measurement of length'	kadi	'bite'
cuulu	'to pierce'	cuuḍ U	'heat'

koola	'bribery'		kooḍ	i	'cro	re'
vaalu	'to live'		vaadı	ı	'to d	ry up'
3.1.2.4. Fl	ap and Trill					
kari	'soot'		kaRi		'curr	y'
tari	'dust'		taRi		ʻloon	n'
kara	'land'		kaRa		ʻstair	າ'
cori	'shower'		coRi		'itch	es'
ciri	'smile'		ciRi		ʻlip'	
paara	'crowbar'		paaR	a	ʻrocl	ς'
r, R, l, ! aı	nd <u>/</u>					
kari	kaRi	kali		kali		kļli
tari	taRi			tali		_
vaara	_	vaala		vaala		va <u>l</u> i
vara		vala		vaļa		va <u>l</u> a
paara	paaRa	paala		paala		paalU
3.1.2.5. Con	ntinuants					
v and y						
covva	'mars'		koyyu	l	'to h	arv e st'
oovU	'cutlet'		pooyi		'went	:'
3.1.3. Some	more words	for dril	1			
	Words of d	ifferent	canon	ical sha	apes	

1. CVCV

kaqi 'bite' kari 'coke' kara 'land' kaRa 'stain'

kaļi	'play'	kali	'anger'
kali	'roll of thread'	kiļi	'bird'
kili	'bag'	kuRi	'raffle'
cori	'shower'	coRi	'itches'
tala	'head'	tala	'anklet'
pani	'fever'	раџі	ʻjob'
paKa	'grudge'	роКа	'smoke'
ma la	'mountain'	mala	'rain'
vala	'net'	vala	'bangle'
śani	'saturn'	śeri	'right'
2. CVCCV			
kaññi	'gruel'	kaņņi	'link'
ka <u>n</u> ni	'name of a month'	kammi	'deficiency'
kallu	'stone'	kallu	'toddy'
kunnU	'hill'	kuññU	'baby'
canda	'market'	caņda	'quarrel'
taţţu	'hit'	taţţi	'frame'
tekkU	'south'	ten n U	'coconut tree'
pallU	'teeth'	pullU	'grass'
maññU	'snow'	mannU	'sand'
muţţa	'egg'	moţţa	'shaven head'
veņda	'ladies finger'	vaņdU	'bee'
ś ak ti	'strength'	śaţRu	'enemy'
3. CVVCV		-	-
kaa¢U	'forest'	coora	'blood'

k a alU	'leg'	cooRu	'rice'
k aa1a	'bull'	jaaTi	'caste'
kaasU	'money'	jiivi	'creature'
kiiśa	'pocket'	naa1U	'day'
kuuli	'wage'	naavU	'tongue'
cuudU	'heat'	paaRa	'rock'
kuura	'roof'	paara	'crowbar'
cuula	'kiln'	paava	'doll'
		puuvU	'flower'

4. CVCVCV

ka TakU	'door'	kaduva	'tiger'
karadi	'bear'	kaļavU	'theft'
kalivU	'ability'	celarU	'some people'
celavU	'expenditure'	tavaņa	'instalment'
ta K iḍU	'a piece of tiny metal'	pakuTi	'half'
paTivU	'practice'	valuTU	'right'
veRaKU	'firewood'		

5, CVVCCV

kaappi	'coffee'	paaţţU	'song'
kaaţţU	'wind'	paambU	'snake'
caaRjU	'charge'	puucca	'cat'
ciippU	'comb'	poottU	'buffalo'
teekkU	'teakwood'		
teenna	'coconut'		

_	~1	CI	NA
6.	Cγ	CV	IVI

'thrashing floor' 'pot' kalam kalam 'big room' 'sort' talam taram 'money' 'picture' paṇam padam 'winnownig 'tree' moRam maram basket'

7. CVCVCVM

jenanam 'birth' maranam 'death'
divasam 'day' dehanam 'burning digestion'
pakaram 'substitute' takaram 'tin'

8. CVVCVM

'a curry' kaalam 'season' kaala<u>n</u> 'ash' 'paint' caayam caaram 'whistle' 'maize' cuulam coolam daaham 'thirst' 'distance' duuram 'time' 'blue' neeram niilam 'prestige' 'month' maanam maasam 'profit' 'metal' laabam looham

9. CVCCVM

dukkham 'sorrow' nakham 'nail'
mokham 'face' meccam 'better'
vaṇṇam 'width' vallam 'basket out of lever'

10. CVCVCCU

kaRuppU 'black' naRukkU 'raffle' kuruppU 'sprout' nadUkkU 'middle'

cerippU	'slipper'	valakkU	'quarrel'
comappU	'red'	veļakkU	'lamp'
tanuppU	'cold'		
tarippU	'pairs'		
11 000			

11. CVCVC

kaḍal	'sea'	kayaR	'rope'
taṇal	'shade'	ka <u>n</u> al	'burning charcoal'
maka <u>n</u>	'son'	maka!	'daughter'
vayal	'field'	veyil	'heat of the sun'

12. CVCCVC

kappal	'ship'	kammal	'ear ornament'
ka ḷḷa n	'thief'	kallam	ʻlie'
kolla <u>n</u>	'blacksmith'	kollam	'year'
ñaṅṅaḷ	'we' (excl)	namma]	'we' (incl)

13. VCCV

w ucca	'afternoon'	w ucci	'peak of the head
eņņa	'oil'	ellU	'bone'
ețțU	'eight'	ennU	'which day'

14. VCVC	
ayal	'neighbourhood'
avaļ avaR	'she', } Distant demonstrative
ivan	'he'
ivaļ	'the' 'they' Proximate demonstrative
ivaR	'they'

15. VCVCCV

akattU	'inside'	akaţţU	'separate'
irippU	'sitting'	irumbU	'iron'
irunnu	'sat'	iraţţi	'doubl e '
urukkU	'steel'	erappU	'noise'
eRakkU	'unload'	ninakkU	'for you'
e <u>n</u> ikkU	'for me'		

3.2. A Note on the Phonemics of Malayalam

3.2.1. Vowels

Malayalam has eleven vowel phonemes, represented in this discussion as/i, ii, e, ee, a, aa, o, oo, u, uu / and /U/. The short vowels / i e, a, o/ and /u/ in the word final position are a little longer than in other environments. They have half long duration in those environments which is non-phonemic. In monosyllabic words, finally all vowels are long.

The short vowel /o/ does not occur in the word final position. The front vowels /i/ and /e/ and back vowels /o/ and /u/ have an onglide of /y/ and /w/ respectively in the word initial position. The low back vowel /a/ has an allophone [\ni] a central vowel in the medial position excepting the first syllable. This [\ni] does not occur with length. /U/ occurs in the medial position in free variation with /u/. Otherwise it occurs only word finally.

In addition to the above six vowels, there is a low front vowel [æ] which occurs with length in certain loan words from English. Its distribution is limited only to medial position.

3.2.2. Consonants

Consonants of Malayalam include 11 stops, 6 nasals, 4 fricatives, 3 laterals, 1 flap, 1 trill and 2 frictionless continuants. Of these, stops, nasals, 2 laterals and the continuants contrast

with length in the intervocal position. They are known as geminates.

Of the eleven stops ten are grouped into five pairs each with voiced and voiceless counterparts. The alveolar stop has no voiced counterpart. It has only a voiced allophone which occurs after homorganic nasal.

The voiceless stops /p c t k/ have a very lenis voiced fricativised allophone each. In the case of /p/ and /c/ this allophone occurs intervocally. With respect to /t/ this occurs in between vowels as well as in consonant clusters after /y/. The voiced fricativised allophone of /k/ occurs intervocally and also in consonant clusters after /l/ and /y/. All these allophones were represented in this reader with their corresponding capital letters [PTCK] respectively. All stop sounds occurring after homorganic nasals are considered as allophones of voiced stop phonemes.

In addition to the four fricatives $s \le l$ and h there is another labiodental voiceless fricative f which occurs in certain English loans. This is also given only a marginal status like the vowel phoneme l. All these fricatives except l are voiceless.

Among the six nasals only /m/ occurs in all the three positions. $/\tilde{n}/$ and /n/ occur non-finally whereas $/\underline{n}/$ and /n/ occur non-initially. $/\hat{n}/$ occurs only medially either with length or in consonant clusters. All the nasals occur as geminates medially.

Out of the three laterals /l/ occurs in all the three environments i e., initially, medially and finally. /l/ mostly occurs in the medial and final positions. But a single occurrence of /l/ in the initial position is also noted. /l/ and /l/ have geminates intervocally. /l/ occurs only in the medial position.

The flap /r/ occurs non-finally but the trill /R/ occurs initially, medially and finally. Continuants /v/ and /y/ occur with length in the intervocal position. /v/ does not occur non-finally whereas /y/ occurs initially, medially and finally.

١

Regarding aspiration, in Malayalam, there is the distinction between voiceless aspirated and unaspirated sounds. The aspirated sounds occur in Sanskrit loans. But these are not given independent phonemic status considering the principle of economy. They can be considered as sequences of a stop +h. This is possible because there is no such cluster of a stop +h which will be in contrast with this aspirated stop in Malayalam. The voiced aspirated stops of Sanskrit words 'are pronounced either as voiceless aspirated sounds or as just voiced stops without aspiration. In other words, voiced aspirated sounds of Sanskrit may either be deaspirated or devoiced in Malayalam.

3.2.3. Phonemic Inventory

Consonants-28

	Bila- bial	Labio- dental	Dental	Alve- olar	Retro- flex	Palatal	Velar	Glottal
Stops	pb		td	ţ	ţḍ	сj	kg	
Nasals	m		a	<u>n</u>	ù	ñ	ń	
Frica- tives				s	ş	ś		h
Latera	ls			1	ļ	1		
Flaps				r				
Trill				R				
Frictio		v				у		

Marginal phonemes-2

/æ/ Low front vowel

/f/ Voiceless labiodental frictionless continuant

3.3. Phoneme-Grapheme Correspondence

3.3.1.

Malayalam script is broadly phonemic though in certain cases phonemes and graphemes may not correspond to each other exactly, resulting in an overlap for a learner. In total the graphemes are more in number (49) than the phonemes (39).

3.3.2.

Examining the phoneme-grapheme equivalents, we find that exact phoneme-grapheme equivalents are possible in the case of the following units. They are:

- 1. The ten vowels (five pairs of short and long vowels)
- 2. All the voiceless and voiced stops except the alveolar stop $/\frac{t}{L}$
- 3. The four nasals $/m \, \tilde{n} \, \tilde{n} /$
- 4. The laterals /111/
- 5. The flap and trill / r R /
- 6. The frictionless continuants / v y /

In the following instances however there is no one to one correspondance either because of the sharing of the same symbol by two phonemes or because of the availability of a separate symbol for a phoneme sequence which already has independent graphemes. The details are given below.

- 1. The alveolar stop is represented by the duplication of the symbol for the alveolar trill |R|
- 2. The dental and alveolar nasal phonemes share a common graphemic symbol.
- 3. The phonemic sequence /Ri/ or /Ru/ has an independent graphemic representations in conformity with the Devanagari script. This occurs in the case of Sanskrit loans only.

- 4. The phonemic sequences /ay/, /av/, /ph/, /bh/, /th/, /dh/, /th/, /ch/, /jh/, /ch/, /jh/, /kh/ and /gh/ have separate graphemes.
- 5. The short high unrounded vowel phoneme |U| does not have a corresponding grapheme. In the word final position it is represented by a diacritical mark put above the allograph of the grapheme corresponding to the vowel phoneme |u|. Medially it has the same symbol as for |u|.

3.3.3.

The marginal phonemes |x| and |f| are represented by the allograph of the grapheme corresponding to the phoneme |aa| and the grapheme representing the phonemic sequence of voiceless bilabial stop +h respectively.

3.3.4.

The geminated consonants are represented by the duplicated symbols of the respective consonants. The duplication is either complete or partial.

3.3.5.

Though the voiced retroflex stop phoneme has a corresponding grapheme, its occurrence in that way is very limited. Because in the intervocal position, in most of the words this is represented by the grapheme for /t/ the voiceless retroflex stop. This is always an area of confusion for the new learner.

3.3.6.

Out of the consonant phonemes /n n y R 1 1 1 which can occur even without a vowel in the medial or final positions have independent modified symbols. All consonants, if they are to be represented as unreleased i.e., pronounced without a vowel, a diacritical mark is put above the symbol representing the concerned consonant.

APPENDIX 53

3.3.7.

The graphemic representation of the sequence the dental nasal + any stop should be pronounced as the homorganic nasal + stop.

3.3.8.

The graphemic representation for the sequence a nasal + voiceless homorganic stop such as / nt, nt, nc / should be read as the nasal + homorganic voiced stop as / nd, nd, nj /.

3.3.9.

The symbol O of the orthography is to be read as /am/ when it is in the final position. Medially it represents either the phoneme /m/ or the homorganic nasal corresponding to the following stop.

3.3.10.

The dental or velar nasal+voiced stop cluster represented by the corresponding graphemes are either pronounced in the same way (i.e., nasal+voiced stop) or as nasal+nasal cluster.

3.3.11.

The graphemic representation with the graphemes for /k/ and /s/ are pronounced as /ts/ cluster. This occurs either word initially or word medially.

Note—Examples for all the statements made, are given in the illustrative chart which follows this note.



3.3.12.

Example chart for statements made in 3.3.2 to 3.3.11.

3.3.2.

8.
$$/n/$$
 and $/\underline{n}/$

3.3.3.

3.3.4.

3.3.5.

3.3.6.

$$/n/$$
 $/n/$ $/-R/$ $/-l/$ $/-l/$ $/p/$ $/t/$ $/l/$ $/y/$ etc. ൻ ൺ ർ ർ ർ പ് ത് $^\circ$ ഇ

3.3.7.

3.8.8.

3.3.9.

3.3.10.

3.3.11.

3.3.12.1.

Examples for phoneme-grapheme correspondence in detail

Phoneme or phoneme	Grapheme	Allographs	Exa Phonemically	mples Graphemica	Meaning ally
sequence 1	2	3	4	5	6
/i/		-1	iviḍe	ഇവിടെ	'here'
			ciri	ചിരി	'smile'
/ii/	ഈ	<u>—</u> ე	iicca	ഈച	'fly'
			viiti	വീതി	'width'
/e/	എ	o-	evide	എവിടെ	'where'
			keţţu	കെട്ട	'tie'
/ee/	ഏ	a	eelam	ഏലം	'cardamam'
			keeralam	കേരളം	'Kerala'
/a /	അ		amma	അമ്മ	'mother'
			kadala	കടല	'Bengal gram'
/ a a/	ആ	³	aana	ആ ന	'elephant'
			kaalam	കാലം	'season'
/a y/	ഐ	66-	aysvaryam	യ എശ പര്ദം	'prosperity'

_	n	
D	ŏ	

MALAYALAM PHONETIC READER

/ o /	ទ	ი — ა	oţţakam	ഒട്ടെകം	'camel'
			koti	കൊതി	'desire'
/0 0/	ഓ	c — p	ooḍu	၈ ၁န	'run'
			coora	ചോമ	'blood'
/u /	5	ა გე	umma	ഉ മ്മ	'kiss'
			kutira	കതിര	'horse'
			tuņi	<u>ത</u> ണി	'cloth'
			puRam	പുറം	'page'
			nuņa	അണ	ʻlic'
			varu	വത	'come'
/uu/	ഊ	ပ ၅	uuma	ഊമ	'dumb'
	ø	೨	kuura	<u>ക</u> ര	'roof'
		ŋ	tuuņ	<u>ത</u> ്രൺ	ʻpillar'
			puuram	പൂരം	'a star'
			nuul	ആൽ	'thread'
			ruupa	രൂപ	'rupee'
/ U /			pattU	പത്ത	'ten'
			maRukU	മറുക്	'mole'
			atU	ണഇ്	'that'
			cuurU	ചൃത്	'odour'
/av/	ፉ უ	ი — უ or —უ	kavtukam	കൗത്തുകം	'curiosity'
/ k /	•		kadala	കടല	'Bengal-gram'
			paka	പക	'revenge'
/ kh /	ഖ		kha <u>n</u> i	ഖനി	'mine'

APPENDIX

/ kk/	ക്ക	akkam	അകം	'number'
/ky/	ക്യ	vaakyam	വാക്യം	'sentence'
/kl/or/k	1/ ਢੰ	kliptam	ക്ലിപ്പം	'limited'
		kļaavU	ാവൃ്	'tin coating'
/kv/	LФ	pakvam	പകാം	'mature'
/ k ş/	æ₩	ţşiiņam	ക്ഷീണം	'tiredness'
/kRi/	ф	kRiși	കൃഷി	'agriculture'
/kR/	ტ	kRemam	ക്രമം	'order'
/g/	ഗ	gaa <u>n</u> am	ഗാനം	'song'
/gh/	ഘ	kha <u>n</u> am	ഘന∙	'weight'
/gn/	ഗ്ന	nagnam	സനം	'naked'
/gm/	(70)	yugmam	യിഡാം	'pair'
/gy/	ഗു	yoogyam	യോഗ്യം	'suitable'
/gr/	ဖ	graham	ഗ്രഹം	'planet'
/gRi/	ని	gRiham	ഗ്ര ഹം	'house'
/g1/	80	gļaa <u>n</u> i	ഗ്ലാനി	ʻgloom'
/ n n/	ह्या ३	maanna	മാങ്ങ	'mango'
/ c /	বা	caayam	ചായം	'paint'
/cc/	기	pacca	പ്ച	'green'
/ch/	ഛ	chaaya	ഛായ	'shade'
/cch/	3 7	acchan	അച്ഛൻ	'father'
/cy/	ച്യ	achyuta <u>n</u>	അചൃതൻ	'a name'
/j/	5 8	jaati	ജാതി	'caste'
/ j j /	85 8	majja	മൗങ	'lymph'
/ jv/	ßЛ	jvaram	8 700	'typhoid'

/ jh/	്			
/ jR/	(5)	vajRam	വള്ളം	'bimond'
/ n /	ഞ	ñaa <u>n</u>	ഞാൻ	'I'
$/ar{f n}ar{f n}/$	ഞ്ഞ	mauña	മത്തെ	'yellow'
/āc/	ച്ചെ	añjU	അച്ചു	'five'
/ <u>t</u> /	S	<u>t</u> eeppU	ടേപ്പ്	'tape'
		paḍa	പട	'army'
/ tt /	9	paţţi	പളി	'dog'
/ţR/	Ġ	ţReyi <u>n</u>	ടെയിൻ	'train'
/ ₫ /	w	deppi	ഡപ്പി	'box'
\q q \	₩	iḍḍa l i	ഇഡ്ഢലി	'idlis'
/ dh /	ഢ	muuṭhan	മൂഢൻ	'fool'
/ḍR/	ധ്ര	dRaama	ധ്രാമ	'drama'
/ ů /	ണ	paṇam	പണ∙	'money'
/ņņ/	m	kaṇṇi	കണ്ണി	ʻlink'
/n̞t̞/	ണ്ട	ceņḍa	ചെണ്ട	'drum'
/'nď/	ണ്ഡ	maṇḍalam	മണ്ഡലം	'field'
/t/	ത	taram	ത രം	'sort'
/tt/	ത്ത	tatta	തത്ത	'parrot'
/th/	ω	ratham	രഥം	'chariot'
/tR/	(9	raatRi	രാത്രി	'night'
/ty/	თკ	tyaagam	ത്യാഗം	'sacrifice'
/t v /	רש	tatvam	യ ര ാം	'principle'
/tm/	ത്മ	aatmaavU	ആത്മാവു്	'soul'
/ts/	സ	ulsaaham	ഉസാഹം	'enthusiasm'

/tbh/	ത്ഭ	ul p ha v am	ഉത്ഭവ	• 'source'
/d /	а	daa <u>n</u> am	ദാനം	'gift'
/dy/	ദ്യ	sadya	സദ്യ	'feast'
/dr/	ß	dravam	ദ്രവം	'solid'
/ddh/	(E)	buttha <u>n</u>	ബുദ്ധൻ	'Buddha
/dh/	ω	tha <u>n</u> am	ധനം	'wealth'
/n/	ന	nalla	നല്ല	'good'
/ <u>n</u> /	ന	pani	പനി	'fever'
/nn/	ന്ന	panni	പന്നി	'pig'
/ <u>n</u> n/	ന്ന	panna	പന്ന	'fern'
/ <u>n</u> m/	ന്മ	na <u>n</u> ma	നാന്മ	'virtue'
/nt/	ന്ത	candam	ചന്ത∙	'beauty'
/nd/	ന്ദ	indira	ഇന്ദ്രിര	'a name'
/ <u>n</u> y/	ന്യ	nyaayam	ന്യായം	'justice'
/nk/	85 0	paṅga	പങ്ക	'fan'
/ np /	മ്പ	cembU	ചെസു്	'copper'
/nR/	ന്റ	ende	എന്റെ	'mine'
/ <u>n</u> v/	m J	a <u>n</u> veeșa ņam	അവോഷം	'inquiry'
/p/	പ	pata	പത	'foam'
/ph/	ഫ	phalam	ഫല∙	'result'
/pp/	원	appam	അപ്പം	'cake'
/p <u>n</u> /	ብ <mark>ብ</mark>	svapnam	സപപ്പം	'dream'
/pR/	ଧ	pRaayam	പ്രായം	'age'
/ p y/	പൃ	kapyaaR	കപ്യാർ	'priest'

/p1/	ભ	pļaavU	പ്ലാവു്	'jack fruit tree'
/ b /	ബ	belam	ബലം	'strength'
/bh/	ഭ	phayam	ഭയം	'fear'
/br/	ബ	brahmaavU	ബ്രഹ്മാവു ്	'Brahma'
/pi/	ബ്ല	bļayḍU	ബ്ലയിഡ്	'blade'
/bd/	ബ്ബ	sa bda m	ശബ്ദം	'noise'
/bhy/	æડુ	asabhyam	അസഭ്യം	'uncultured'
/m/	മ	maram	മരം	'tree'
/mn/	A	nimnam	നിമ്ലം	'low'
/my/	മ്യ	saamyam	സാമ്യം	'resemblance'
/m1/	R	mļaanam	മ്ലാനം	'sad'
/mR/	@	taamRam	താമ്രം	'copper'
/צן	യ	paayasam	പായസം	'payas':
/у у /	921	vayya	വയ്യ	'unable'
/r/	o	resam	രസ∙	'juice'
/ry/	ი კ	kaaryam	കാര്യം	'matter'
/ 1/	ല	liila	ലീല	'name'
/11/	ម	nalla	നല്ല	'good'
/1/	<u> </u>	vaļa	വള	'bangle'
/11/	<u> </u>	kallam	കള്ള ം	'false'
/1/	y	mala	ወሕ	'rain'
/ v/	വ	vara	വര	'line'
/vv/	ÒЯ	covya	ചൊവ്വ	'mars'
/vy/	വൃ	vyaayaa m a	m വ്യായാമം	'exercise'
/vR/	വ	v R aṇam	വ്രണം	'sore'

APPENDIX

/s/	ശ	śeri	ശരി	'right'
/s̄s̄/	88	nis šee șa m	നിശ്ശേഷം	'completely'
/s v /	Lയ	svaasam	ംഗ്നപേര	'breath'
/sc/	രമാ	aascaryam	ആശ്ചര്യം	'wonder'
/§y/	ശ്യ	syaama	ശ്യാമ	'a name'
/sR/	ശ്ര	s Rii	ശ്രീ	'prosperity'
/\$1/	co	slookam	ദ്രോകം	'stanza'
/ṣ/	ags	mași	മഷി	'ink'
/st/	ભાુ	kaṣṭam	കഷ്യം	'difficulty'
/ṣṇ/	9 위	kaṣṇam	കസ്സ്	'piece'
/s/	സ	sammaa <u>n</u> am	സമ്മാന∙	'gift'
/ss/	₩	manassU	മനസ്സ്	'mind'
/st/	സ്ത	vastu	വസ്സ	'thing'
/s <u>n</u> /	₫3	sneeham	സ്സേഹം	'love'
/h/	ഹ	haaram	ഹാര∙	'garland'
/hy/	ഹൃ	sahya <u>n</u>	സ ഹ്യൻ	ʻsahya mountain'
/h <u>n</u> /	രന	cinnam	ചിഹ്നം	'symbol'
/R/	o	taRa	തറ	'road'
/Rk/	ർക്ക / ക്ക	taRkkam	തർക്കം/തക്ക	• 'dispute'
/Rp/	ಿజ∕జ	takaRpa <u>n</u>	തകർപ്പൻ/ തകപ്പൻ	'devastating'
/Rt/	ർ ത്തം / ത്ത	ooRtu	வைம் <u>ஹ</u> ை/ வை <u>ன்</u> ற	'remembered'

II PHONETIC READERS

- 1 Kannada Phonetic Reader
- 2 Malayalam Phonetic Reader
- 3 Tamil Phonetic Reader
- 4 Telugu Phonetic Reader
- 5 Assamese Phonetic Reader
- 6 Kashmiri Phonetic Reader
- 7 Punjabi Phonetic Reader
- 8 Sindhi Phonetic Reader
- 9 A Pidgin Language Phonetic Reader
- 10 Manipuri Phonetic Reader
- 11 Ao Naga Phonetic Reader
- 12 Angami Naga Phonetic Reader
- 13 Sema Naga Phonetic Reader
- 14 Tripuri Phonetic Reader
- 15 Thaadou-Kuki Phonetic Reader

III SCRIPT

- An Introduction to Tamil Script
- 2 An Introduction to Telugu Script

IV TEACHING MANUALS

- a) Basic and Intensive Courses
 - 1 An Intensive Course in Malayalam
 - 2 An Intensive Course in Telugu
 - 3 An Intensive Course in Tamil
 - 4 An Intensive Course in Kannada
 - 5 An Intensive Course in Punjabi
 - 6 An Intensive Course in Marathi
 - 7 An Intensive Course in Gujarati
 - 8 An Intensive Course in Sindhi
 - 9 An Intensive Course in Assamese

b) Intermediate Courses

- 1 An Intermediate Course in Malayalam
- 2 An Intermediate Course in Tamil
- 3 An Intermediate Course in Kannada
- 4 An Intermediate Course in Telugu
- 5 An Intermediate Course in Assamese
- 6 An Intermediate Course in Oriya
- 7 An Intermediate Course in Punjabi
- 8 An Intermediate Course in Marathi
- 9 An Intermediate Course in Gujarati

c) Advanced lessons/selections from literature

- 1 Advanced Course in Kannada
- 2 Advanced Course in Telugu
- 3 Advanced Course in Tamil
- 4 Advanced Course in Marathi
- 5 Advanced Course in Gujarati
- 6 Advanced Course in Malayalam

V READING SKILLS

- 1 Reading Skills Workbook in Kannada
- 2 Reading Skills Workbook in Marathi
- 3 Reading Skills Workbook in Tamil
- 4 Reading Skills Workbook in Hindi
- 5 Reading Skills Workbook in Assamese
- 6 Reading Skills Workbook in English
- 7 Teaching Efficient Reading
- 8 Pathana Kaushalamu (Abhyasa Dipika)
- 9 Pathana Kaushalamu (Pathya Dipika)

VI MISCELLANEOUS

- a) Bridge course
 - 1 Pre and Post Test (Kannada bridge course)
 - 2 Vyasanga Shikshaka (Kannada bridge course)

Parts 1 — 2

3 Vyasanga Shikshaka (Kannada bridge course)
Parts 3, 4 & 5

- b) Adalita Lekhana
- c) Others
 - 1 Vartavaha: Bulletin No. 1 to 10
 - 2 Language Teaching A selected Bibliography

VII CONFERENCES AND REPORTS

- National Conference on Dictionary Making in Indian Languages (25th, 26th, 27th and 28th March, 1970)
- 2 Conference of Heads of Tribal Research Bureaus/ Institutions, etc., in India (4th, 5th and 6th August, 1971)
- 3 Analytical Word-list-1 (ending-wise)

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