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A PHONOLOGICAL SKETCH OF KOREN

Dissertation Submitted to Jawaharlal Nehru University in partitial fulfillment of the requirements for the award of the degree of

MASTER OF PHILOSOPHY





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SCHOOL OF LANGUAGE, LITERATURE & CULTURE STUDIES
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DEDICATION

TO APA AND ANU

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Lienjang Zeite

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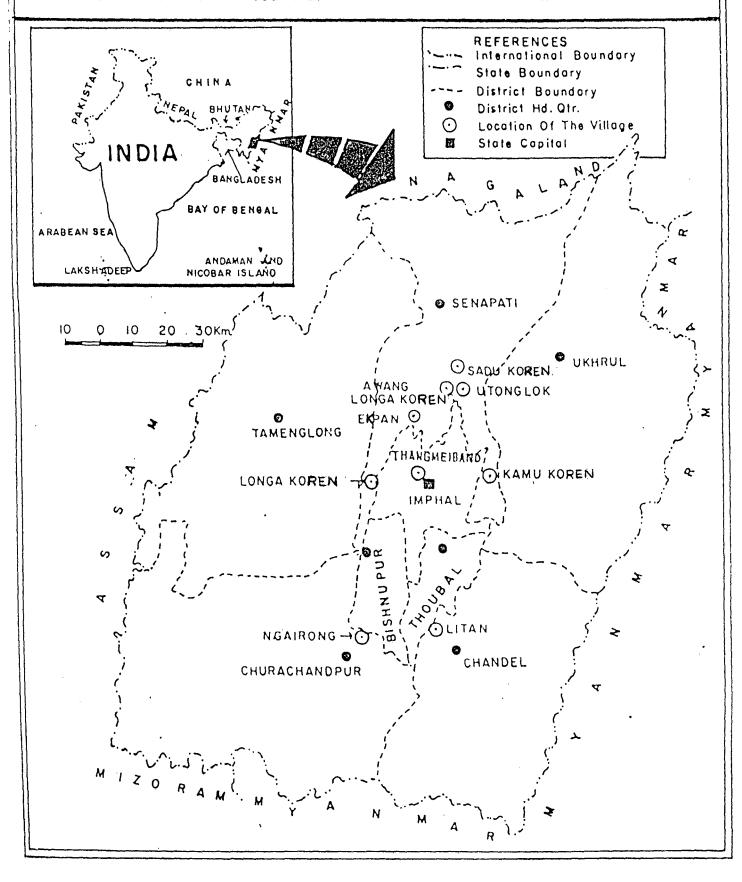
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MAP OF MANIPUR SHOWING THE KOREN INHABITED AREAS



Chapter 1

1.0 INTRODUCTION

1.1 The Koren Language:

"The gift of language is the single human, trait that marks us all genetically setting us apart from the rest of life."

- Lewis Thomas, The Lives of a Cell.

"Language is among many things - a system of communication, a tool for thought, a medium for self-expression, a social institution, a source of ethnic pride and political controversy. All normal human beings have at least one language, and it is difficult to imagine much significant social, intellectual, or artistic activity taking place in the absence of language. The centrality of language to virtually every aspect of human life gives each of us a reason to want to understand more about its nature and use."

Language in itself stores much more information in it than is apparent from its structure. It draws bridges across individuals, communities and nations. The power of language goes beyond the space and other far off things. The history of mankind, of past deeds, is recorded by language. Language, in recorded or oral forms has the building blocks to create information of the past, the present as well as the future. Above all, the identity of the community is denoted by the culture, which is expressed by the language.

So the importance of language in a society is indeed undeniable. The two are so entwined with each other but still give out ample space for the world to

W.O' Grady, J.Archibald, M. Aronoff and J. Rees – Miller: 'Contemporary Linguistics' An Introduction.,

^{4&}lt;sup>th</sup> edition. Bedford. Bedford/ St Martin's, 75 Arlington Street, Boston, MA 02116.2001. page 1.

express whether language determines culture of the societies or vice versa. The debate continues with many experts trying to place culture perception and ordering of the world on one side and cultures language on the other.

Despite being the main vehicle that rotates within the cultures, language change. And change is the only thing constant when it comes to language. The world is changing in such a fast pace that it affects the languages as a result of increasing world communication and the demise of language isolation. Due to such reasons, many societies are becoming concern as to maintain the language that was and is theirs as their real identity is woven with the language they use. The unique sets of traditions and cultures that are inherited from the forefathers are passed down to generation after generation. And it is required of the community to preserve what is solely theirs. It is possible to see language as a means of ordering culture in the areas of knowledge acquisition, societal roles, and power. Language also functions adaptively as a means of assimilating new ideas and technologies.

And especially when it comes to tribal languages, there is a sea change which is visible even in a span of 50/60 years, as most tribal languages don't have script of their own. So lack of written record to trace the origin as well as the preserved from of the language used during olden times. With the spread of modernization there arises the need to delve into the oral history to know more about the tribe, their past culture and the language. In such cases the existing oral history is the only reliable source to bank upon. The importance of language to a community is undeniable not only because much of the social and cultural behaviors is expressed by means of the spoken word but it is a mark of identity as well language labels each member his or her place within that society or community.

So, the importance of a language in a society is even more valuable if the language belongs to an indigenous community on the verge of losing the authenticity of the language. In a way, there is a threat to that society and can be passed off more or less as an endangered language that needs to be preserved.

1.2 Name and its Derivation:

The Koren language is almost unknown to linguistic scholarship. No attention has been given like many of the tribal languages in the country due to lack of awareness for detailed research as well as inadequate information on the language. The language is known as Koren as also the tribe. Grierson, wrote about the derivation of the name "Koireng", thus: "Kolhen" become "Kolren" which means tribe from the East (Kol-'east'; ren—'tribe'). The word somehow changes to Koren, the name which the tribe gave to itself, and 'Koireng', as they are known to outsiders as probably a Manipuri corruption of this name. The tribe is believed to have migrated from the south East Asian from the pre-historic times down to Manipur, India. "The Korens were referred to by earlier British writers who were administrators under the colonial British rule; John Shakespeare (1913) called them for Kolhen. Greirson also mentioned about the tribe in his *Linguistic Survey of India*". Despite being one of the oldest tribes in Manipur, the Korens remain one of the smallest tribe

1.3 Cultural Information:

Like most of the tribes in North-East India, the Korens, despite the absence of written literature have preserved a large number of traditional literature, mythology, legends, folktales and songs which are mostly not historical but could

¹ Kabui, Gangmumei: The Koirengs of Manipur, Published by the Koren Historical Research Committee, Imphal, Manipur, 1987, p. 1.

be regarded as the non-literate people's style of bequeathing history to posterity. It may be said that if history is the collective memory of a community, the Koren history is their traditions, folklore and songs. "According to Koren tradition, the supreme being or supreme father known as 'Pathien' is believed to be the creator of the universe, the earth and mankind. Pathien made two beings, male and female out of mud, gave them life and surfaced them out on the earth from subterranean region." As the legend continues, the emergence of eight clans is seen, which forms the name of the week as well. There are also claims of linguistic affinities between the Koren and Karen tribes of Myanmar which required further studies.

The Korens have a rich cultural heritage as manifested through their beautiful dance and rich music, their festivals and ceremonies, dress and customs and games and sports. Their love for beauty and life, their sense of color and refinements in their own style, their expression of joy at the changing seasons, on victory over enemies, hunting, raising stone megalithic are expressed in different forms of fine arts, music, dance and many sports, though small number, their rich culture has preserved their distinctive identity among the myriad of tribes as in this part of India.

Festivals to celebrate harvesting, coming of age, warding off diseases are an important part of their life. Various dance forms and traditional musical instruments, games and sports makes up a riot of colors in the canvas of their life. The mode of worshipping God was through a series of sacrifices rites and ceremonies. They believed in the one supreme God. However after the coming of Christianity, there occur some changes in the cultural as well as traditional front. The use of alcohol, sacrifices was not the norm to be followed by Christians.

¹ ibid. p. 3.

"Historical incident happened at Thangching in Manipur. The Korens were quite populous and came in contact with the Meities of Moirang. They fought against the Moirang king who was several times defeated by the Korens with the help of a sword with miraculous power. Later on, this king by a stratagem stole away the magic sword and the Korens were defeated. Then the king cursed to the Koren. Some believed that this resulted in diminishing population. But this is yet to be investigated."

1.4 Language: Situation and Position:

The Koren tribe of the North-East state of Manipur, India, is one such indigenous community which does not have any reliable written records to prefer to for information about the tribe as well as for further research. With the change of time, the value of the language within the Koren society is changing in the sense that the language has undergone is clearly visible in just 60/70 years gap. The old traditional folk songs, tales and certain ritual chants are unintelligible to the current generations. The Koren language spoken as of today is a diluted form of the original one.

The reasons for change in the language are mainly due to the amalgamation with other communities, especially with the Meities (Manipuries) as well as the influence of Christianity, of modernization and the new technologies. The issue of preserving language and exploring it is introduced to the importance of one's language and the various facades or significant features it has. As mentioned before, it becomes an issue of the society. And linguistics always increases the beauty of a language group. So a linguistic research is not only the answer to the

¹ Kabui, Gangmumei: The Koirengs of Manipur, Published by the Koren Historical Research Committee, Imphal, Manipur, 1987, p. 13.

language in detail but is also a way to study and bring out the significant features of the language which will benefit not only the speakers, society or community but will also be a contribution in the ever interesting and informative world of language and linguistics.

Here is where the need of an intensive study of the Koren language. because language has been the carrier of culture for a society based on oral tradition. From time immemorial, the folk songs and folk tales have been the only vehicle to preserve the cultural beliefs and practices of the tribe/community since there is no script of their own. And so, it is possible that with the passing of generation, socio-cultural norm and customs of the tribe will lose its authenticity unless an effort is taken to linguistically record the oral tradition into written materials which will be much more effective in cultural history that is very much embedded in the language.

When the whole situation draws upon a linguist, the urge to work on the issues becomes more or less a necessity. And as a speaker and member of the Koren tribe and being a student of Linguistics I can experience the urgency in exploring the language to bring out the essence of its unique features and stress upon bringing out what comprises the language which in turn is the reflection of the culture. Since the setting of Christianity and influences of other communities, there have been dramatical changes in the influence of Christianity, living in close proximity with the Meities and other communities had a huge impact in the change of language as the Korens had a close associate with them since the British regime. The change is a slow process but every time an elderly dies he carries away the valuable knowledge of the language and culture as they have not been recorded and it is at the risk of being lost forever. In fact, it is an endangered language of an indigenous tribe.

To the best of my knowledge, there is no systematic phonological and morphological study of the language. The Department of Linguistics at Manipur University has carried out individual post-graduate level studies on noun phrase, negation and question tags. A thorough structural account of the language needs to be done. The only existing literature words are a history of the Korens which has many irrelevant information, a few books of folk songs and tales. The language is in such a state that any linguistic research will be a building block for the community.

1.5 Speakers and Dialects:

Due to the scattered situation of the Koren community in different area of the state, it is very difficult to have the exact number of speakers and the census always features inaccurate numbers of speakers. Sometime it's a little too high and sometime it's less. Despite being one of the oldest tribe of the state, its population does not seem to grow that as fast as other communities. According to 2001 Census of India, the total population of Manipur state was 2,388,634 out of which only about 2000 were speakers of Koren¹. The current number of speakers is not available but others sources reveal a not so striking numbers of speakers.²

Rather than geographical conditions or locations, the dialect varies according to the villages the variation in the language is there, more or less, dialectal differences arises due to the existence of the villages alongside other village community. The difference in dialect is not that prominent. The degree of the difference is hardly seen as it sounds like words with just one meaning.

¹ Census of India 2001, Series 14, Manipur Provisional Population totals, Paper 1 of 2001, Directorate of Census Operation, Manipur.

² During the fieldwork carried out, the elders of the community estimated speakers to be more or less the same with the 2001 population census.

However, the speakers stick to their dialects, but do not apply to all the speakers in the village.

The following are some of the dialectal differences:

1. For the word 'bag'

Places

- a) Longa Korens [khoco]
- b) Kamu Korens [paitu]
- c) Other Korens [kho]
- 2. For the sentence 'when are you leaving'?

 Places
- a) Utonglok Korens [əŋtiké ce?iŋ?]
- b) Longa Korens [əntiké ce?inte?]
- c) Other Korens [əntiké cenite?]
- 3. For expressing surprise:

Places

- a) Sadu Korens [èbəi]
- b) Other Korens [ənù]
- c) Longa Korens [əjənù]

These are employed by speakers of particular places but do not necessarily apply to all the speakers of each place as there s always the case of exception. The example cited above is based on the understanding of subtle language variation, the Kamu Korens speak in a slow, elongated manner, while the Longa Korens put stress on every word that makes it sound a bit harsh to the ear. The differences are just dialectical differences.

1.6 The Distribution and Location:

At present, the Korens are distributed over settlements in Manipur state. India. They are Utonglok, Sadu Koireng Iril Mapal, kamu Koireng, Longa Koireng, Awang Longa Koireng in Senapati district, Tarung in Sadar hills. Lamphel Koireng colony at Imphal, Ngairong at Churachandpur district, and a couple or so households in Ekpan (Senapati district) and Litan district in Chandel district.

Other than Lamphel Koireng, the rest of the settlements are in the hilly areas or slopes of varying heights. The Korens live in small settlements. They are found distributed in four districts of Manipur (Senapati, Imphal, Churachandpur and Chandel. They reside permanently in their villages.

1.7 Scopes and Objectives:

This dissertation will basically deal with the phonological sketch of the language, including the segmental phonology, syllable structure, word-stress and also the distribution and realization of tone and intonation as the language is a tone one. This area is chosen for the research because through this topic, the language can be studied from the sound system as well as the word level.

1.8 Methodology:

The study would require methods that involve fieldworks, translation in Koren traditional approach. Fieldwork, to collect primary and secondary materials/data through interviews, audio recordings and questionnaires. For the

collection of data visiting of different villages and interviewing people from different age group is included, keeping in mind the changes and influences through religion, contact with other languages, mass media etc. adopting of PRAAT for difficulties in identification of phonetic features. The main method is the collection of linguistic corpus and data analysis and description. The work includes identification of sound systems (consonants, vowels, diphthongs, etc.) of the language. Labeling of linguistic corpus can't be done due to time constraint.

1.9 Fieldwork and Data Collection:

First of all. data was collected in the form of a basic word list, which numbers more than 350 words. The data is enlarged by adding in some sentences and recordings of songs, stories and chants. For this collection, various Koren settlements were visited. Data was collected from places of complete Koren settlement like Sadu Koireng in Senapati district to Imphal area and as far as Litan where only a couple of Koren speaker households are there. The collection of data was done to keep in mind the historical facts that were passed down from generation to generation by choosing the elders as first priority informants. It was an enriching experience about the community which becomes more enchanting and interesting as the history unfolds. The beauty in unlocking the otherwise obscure to a younger age, by the old and experienced was indescribable. Most of the data, besides the songs and stories, are from my knowledge which comes without effort as a speaker. Only for historical information or accuracy of certain things need the help of elders and for comparative features from the younger generation. The journey through dusty narrow roads across the fields to the villages was another experience altogether.

Sometimes the sickness of an informative and experienced elder hampered the data collection. In such cases, I had to convince the elders from running away midway as they don't see the purpose to do a research. Then I also encountered a group, almost an entire village, claiming they no longer belong to the Koren community despite still speaking the same language and their reluctance to be associated with Koren was disheartening as they don't seem to stress much upon the importance of one's language which is one's identity. The problem of letting informants sit for a while when they feel they have better things to do. Then there was also the strain to grasp some old unfamiliar sounding words that sometimes have long explanation as well.

1.10 Data Analysis:

Analyzing and repetition of examples an umpteen times was very time consuming. Even as a speaker, when certain words or sounds are repeatedly uttered, the ascent does not come clear. The analysis of the data was also taxing as for every phoneme needs referring to the entire set of word list numerous times. Almost the entire way of analyzing involve running through the words list, searching for possible sounds that changes under some circumstances sometimes realizing that analysis takes lots of time even if one speaks the language. After sound systems for the minimal pairs as well as tone differences were done. A thorough study of the language was also done. Playing of the recorder for sounds and finally recording voice samples for determining the properties of phonemes and tones are simplified by the software PRAAT. And above all, nothing matches the ever analyzing of sounds and examples all the time and this is were the knowledge of linguistics becomes immensely useful.

Chapter 2

2.0 ABOUT THE LANGUAGE

2.1 The Language:

According to Grierson¹, the Koren language belongs to the Tibeto-Burman. Kuki-Chin group of languages. The Koren language shares many essential features with other languages like Aimol, Kharam and Hmar. The following properties of the language will show the foundation of the Koren language.

2.2 Some Impressionic Observations - Pronunciation:

The vowels and consonants are pronounced rather distinctly. Thus, $s \partial \hat{r}i$ - (seven); $\partial po:l$ - (blue); $l\partial mpi$ - (road); $kokm\tilde{a}i$ - (a sour fruit); $zuk^h\tilde{a}i$ - (alcohol), etc. but sometime consonants and vowels appears indistinctive as well. For example: $k\partial -nui$: or ki-nui: - (my mother), the vowel sound in the prefixes becomes barely audible sometime that it might perhaps be denoted by means of as ' ∂ ' or 'i' above the consonant 'k', thus, k^a-nui : or k^f-nui :.

The two consonants 'j' and 'j' are interchangeable most of the time. Thus, 'ja:n' or 'ja:n' both mean 'night'; sam ja:k or sam ja:k which means 'jaggery'. But the two phonemes are not always exchangeable for example; ∂Jer means 'to

¹ Grierson, G.A: Linguistic Survey of India, Vol. III, Part II, pp. 234-239, Delhi: Low Price Publications, 1994

fry' while a jer does nor mean anything, when a post position beginning with a vowel is added to a word ending in a vowel, there is usually a contraction. Thus, $\theta pa:n$ for $\theta pa:$ in which means 'by the father'. An euphonic 'j' is inserted after 'e:' and 'i', thus, $\theta ce:$ ja: - (going); leija: - (in the field). The word for "to come out' can be pronounced as 'su:wok', 'su:ok' and 'sok'. Double /m/ and /n/ are sometimes pronounced almost as single.

Thus its omak for ommak – (is not) and ∂nni : for ∂ni : - (they are). The sound /h/ seems to be rather faint in some instances in the second specimen; after a preceding /n/; thus, ∂n -o η -jei for ∂n -ho η -jei, (they have come). /n/ seems to be occasionally dropped in cases of someone or more than one person causing someone or something to do an action as in $\partial misuo$ for $\partial minsuo$ (to let go), ∂mit^hei for $\partial mint^hei$ (to let know) etc.

2.3 Morphological Structure:

Some general features of the morphological structure of Koren are discussed below.

2.3.1 Prefixes and suffixes:

Most suffixes are used in order to effect the infection of noun and verbs, the same are the case of prefixes. The letters are often used before verbs and their proper meaning cannot always be ascertained. Some prefixes seem to have a rather wide meaning.

Thus, the prefix ∂ , which usually seems to be identical with the possessive pronoun of the third, is used in the formation of nouns and adjectives. Thus, $\partial nei - (\text{rich}; \partial na:\underline{r} - (\text{nose}): \partial la:\underline{m} - (\text{dancing}): \partial la:\underline{k} - (\text{far})$. A prefix beginning with /k/ occurs in numeral and verbs; thus, kinni: - (two); $kint^him - (\text{three})$; kuruk - (six); $ke\underline{r}sem - (\text{to share})$; $ke\underline{r}mu: - (\text{to meet})$. The suffix $\underline{r}o$ is added to verbs when telling someone to do something, for example, $t^ho\underline{r}o - (\text{do it})$; $ce\underline{r}o - (\text{go})$; $om\underline{r}o - (\text{stay})$; $\underline{r}isumak\underline{r}o - (\text{don't wash})$; $inmak\underline{r}o - (\text{don't drink})$ etc. but the suffix $\underline{r}o$ will change to $\underline{r}u$ if its for plural, thus $t^hro\underline{r}u$, $ce\underline{r}u$, $om\underline{r}u$, risumkru, inmakru, etc.

2.3.2 Articles:

There are no articles. The numeral $k^hat - (one)$ is used as an indefinite article, and suffixes, demonstrative pronouns, and relative clauses supply the place of the definite article. Thus, $uik^hat - (one dog)$ or (a dog); $k^hatso - (the other one)$; $k^hathi - (this one)$.

2.3.3 Noun:

Nouns denoting relationship and parts of the body are usually preceded by a possessive pronoun. Thus, $kic \ni nu$: (daughter, literally, my daughter); $\ni ke - (leg, literally, his leg)$.

Gender is only apparent in the case of animate nouns. It is, when necessary, distinguished by means of suffixes, or in the case of human beings, also by using different words. Thus, kipa: - (my father); $k \ni nu$: - (my mother); $p \ni sal$ - (man); numei - (woman). 'Pa:' and 'nu:' are the usual suffixes in the case of human beings; thus, $c \ni pa$: - (son); $c \ni nu$: - (daughter). The usual suffixes is the vase of animals are $c \ni l$ and ta g for male and pi or l pi for female. Thus, $s \ni ko g$: l columns (horse); $s \ni kor \ni pi$ - (mare); $uit \ni q$ - (dog); uipi - (bitch).

2.3.4 Number:

There are two numbers, the singular and plural. When it is necessary to denote the plural some word meaning 'many', 'all' etc. is added. Thus, *ənaireŋkhua* – (all his younger siblings, *ənai*-'his younger sibling', *reŋk hua*-'all'); numeit əm inkuo – (woman many family, family with many woman).

2.3.5 Case:

The Nominative and Accusative do not take any suffix. 'ko' probably a demonstrative pronoun, is sometimes added to the noun in order to emphasize it. Thus, keiniko mé camauŋ — (we meat not eat/we don't eat meat). The suffix —in denoting the agent is usually added to the subject of a transitive verb. Thus, əpa:n ələl pumpaŋ əcapa: kini jieŋ asempekjei — (his father his property all his sons two to he divided gave/ his father divided his property and gave it to his two sons). The genitive is usually expressed by putting the governed before the governing word.

For example $\partial rie \eta ta \ kum \ \partial ni$ - (the year/the year of the poor); nipa: inna - (your father's house -in). A suffix ta: probably meaning 'belonging to', 'being', is sometimes added to the governed noun. Thus, $kipa:ta \ sel\acute{o} \ \partial suok \ hai$ - (my father's hired servants all). Other relations are expressed by means of postpositions. Such are: a: (in, to, on); in 'in'; kara - (from); $ku\eta nuoj \partial -$ - (under); le? - (together with, by means of); $maitie\eta$, $ma:tie\eta$ and $maiku\eta\grave{a}$ - (before); $nu\eta tie\eta$ and $nuktie\eta$ - (behind); $su\eta a$ - (in); $jei\eta$ -(to); $jie\eta a$ - (from), etc.

2.3.6 Adjectives:

 kodok – (very/best); for example: ∂sakodok nuhà – (beautiful very woman the). It does not actually means the best but it's a feeling incited by awe and wonder.

2.3.7 Numerals:

The numerals are given in the list of words. They follow the noun they qualify. They follow the noun they qualify. The ki/kin in kini/kinni – (two); $kint^hum$ – (three), etc. ce:n is another prefix used when the number applies to money. Thus, $ce:njk^hat$ – (one rupee); cenjrina – (five rupees). But this is used till $cei:nsomlei\ kuo$, i.e., nineteen rupees.

2.3.8 Pronouns:

Given below is a table for personal pronouns: -

Singular	kei – (I)	naŋ – (thou)	∂ma: - (he/she)			
	ka, ki – (my)	na, ni – (thy)	$\partial ma:$, a – (his			
			her)			
	keita: - (mine)	nəŋta: - (thine)	Əma:ta –			
			(his'/her)			

Plural	keini – (we)	nəŋni − (you)	<i>∂nmani</i> -(they)			
	keinita: - (our)	nəŋnita: - (your)	ənmanita: -			
			(their)			

Table 1. Personal pronouns of Koren.

Demonstrative pronouns such as ha: - (and), ko – (that) are often added to the personal pronouns in order to emphasis; thus, θ maha: - (him/her); θ nmaniko – (they). The objectives case may be formed by adding 'ci' to the verb; thus, nipemakci – (thou did not give me). The genitive is formed in the same way as with substantives or by means of the possessive pronouns. Thus, keinicon – (our word, of us); nanni sipa – (thou thy service, thy service); nimin – (thy name), etc.

a) Demonstrative pronouns – hi, hiwa: and hiwa hiko – (this); ha and hawa – (that). 'ko' is often added to nouns and pronouns. For example – naipaŋhai la:mko – (children dance, the children dance of children). In hawa:han ko – (thereupon) but hiwahinako means 'from here'.

b) Interrogative pronouns: k^h oimo and k^h oi jieni – (who?); aŋe and aŋmo – (what?); aŋsikmo and aŋsikeni – (why?); ijatmo and anjatmo – (how many?). Thus, k^h oihai ramme ani? – (whose land is it?); amiŋ aŋeni? – (what is his name?); kiwahi aŋmo niti? – (what do you call this? etc. ijatmo

contains another stem 'i': it means how much. A pronoun *tumo* (who?) may be inferred from *tunum* – (anyone).

c) Relative pronouns: There are no clear cut views of relative pronouns. Suffixes denote such sentences – hiwa in hi ani nikuma: kiniricok – (this house the last year I bought).

2.3.9 **Verbs**:

Verbs are conjugated on person and number by means of pronominal prefixes. The following occurs: /ka/ and /ki/ - (I); /kin/ - (we); /na/ and /ni/ - (thou); /nin/, /nina/ and /nini/ - (you); /a/ - (he/she/it); /an/ and /ana/ - (they). The final vowels in nina, nini, and ana are perhaps an inorganic vocalic sound inserted between concurrent consonants in order to make the pronunciation easier as well as to stress upon the person: ani —(it is/it was), is sometimes added, apparently in order to emphasis that the action really takes place. Thus, ənitiani — (he said it is, he said indeed); kini liŋ əni — (I-plant-it is, I plant it). Sometimes a suffix /a/ is added, for example, keiniko hawa: ramhan kinlei om a: - (we that place we stayed...); sapal kink a:rra:.. — (fence we put up...). But in these cases the sentences are expected to continue as the 'a:' at the end indicates that there is something that should follow it. The suffix of the past tense is jei, lei, suo, pet.

Thus, ki? en jei – (I see already/I have seen /I saw); kai la: ki lei t ho: - (I song sung); \ni ma: cuon t ho: suo \ni ni – (he worked already/ he already working);

buha $kic \partial pet$ – (the rice I ate all/ I ate the rice). Something very interesting is that all the words can be used in one sentence to denote an action of the past. Thus, $kinlei\ c\ \partial pet\ suo\ jei$ – (we had eaten finished). However, jei, lei, suo and pet can be used to dente the present time when the action is denoted as a completed or established fact. Thus, $n\partial sik\ kiti\ jei$ – (sick I have said/ I am about to get sick); $\partial maral\ \partial ni\ jei$ – (his guilty he is it/ it is his guilt).

A present definite and an imperfect are indicated by adding /om/ - (to be) to remain, to the principle verb. The principle verb takes the form of a participle or verbal noun. /om/ is apparently used as an impersonal verb. Thus, $\partial nsinna$: ∂n om – (they making they are/they are making).

The future is formed by adding *iŋ*, *sik*, and *roŋ*, which probably means 'will', 'going to', etc. conveying the force of a future or an imperative. To these forms are added the verbs /ni/ - (to be); ta:, te and ti – (to say/to do) etc. Thus, their khieking kite – (fruit plucking I will); wasuaŋing kita – (cooking I will); thirong kiti jei, (dying I said/ I am dying). The suffix of the imperative is ro or ru, and in the 1st person singular and plural rong and roi respectively. on inlang omroi - (sitting let us remain).

2.3.10 Particles:

The relative participle has been mentioned in connection with relative pronouns. Adverbial participles are formed by adding the postposition 'a:' thus, $\theta hoi\ ja:$ - (merrily/happily); $n\theta lei\ s\theta lei\ ja:$ - (without ill health or safety). The

same is used as a conjunctive participle, thus, ace jei ja: θ hoŋ nol – (he having been gonc again come).

In passive voice, not all the sentences that are possible in English cannot be applied. But the language does have passive voice, thus:—

- Active voice η aito η in mizu: at h at (cat the rat killed)
- Passive voice mizuha $\eta aito: \eta in at^h at$ (the rat cat by killed)
- Active voice mirikipin əma: əndei (everyone he they like)
- Passive voice *\text{\tilde{\text{\te}\text{\texi}\text{\text{\text{\text{\text{\text{\text{\text{\texi}\texit{\texitilex{\texi{\texi}\tint{\texitilex{\texi{\texi{\texi{\texi\tilie\tintet{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{*

Compound verbs are freely formed in order to modify the meaning of the principal verb. Thus, $\partial sem\ pekjei$ – (he divided gave); $\partial ho\eta\ ki:rjei$ – (he came he returned/he came back); $\partial nho\eta\ ce$ – (they came-went/they went). There are prefixes that denotes motion towards, example, $hei\ t'^ak$ – (to send); $hei\ en$ – (to look); $hei\ he\ ro$: – (to throw), etc. lei does not give a clear meaning when used alone but in sentences like $lei\ se\ ro$ – (ahead you go/you go ahead); $lei\ t\partial n\ ru$: – {ahead cut you (pl), you (pl) go ahead and cut (something)}. The prefix look forms causatives, for example. look lo



'ni' can be combined with other prefixes such as /ri/ in ni ri cok (to buy): ni ri kel - {(you) to buy}, etc. with transitive verbs - əniti əni - (he-said-it is/he said indeed); ənisem əni - (he distributed it is/he distributed). wa: is a verb meaning 'to go', 'to come'. It is often prefixed to other verbs and conveys the idea of motion, example, əwa a?oŋ - (he came he sit/he came and sit): wacen laŋ rilro - (go you and say/tell-you go and tell). juoŋ indicates 'to go and...' example, juoŋ cenlaŋ hoŋro - (come-go and come-here/you go and come back-here); juoŋ ca ro - (go/come and eat). Desiderative are formed by adding nuom. to wish, example, theitui ki in nuom - (juice I drink want); me kicə nuom me - (I feel like cating meat). Potentiality is denoted by adding thei. thus, keiko bu sauŋthei məlin - (I am food cook know I not/I don't know how to cook). cuan tho thei mak w: - (work do know not them). suom means together, example, tho suom roi - {do together we/let's do (the work) together}.

The negative particles are mak and $m \ni 2u$, $m \ni 2u\eta$. Thus, $nim \ni k$ – (is not/no); $nipem \ni k$ ci – (you give-not-to me); keiniko $c \ni ma$ 2 $u\eta$ – {we are cat not /we don't eat (something)}. Reduplication of the verb can also be seen, example, $nipepek \ ro$ – (you give please/please give it).

The word order is subject, object and verb. The indirect object always follows the direct one, example, $seri: n \ reipa: r \ \partial k \ hek - (Seri flower she plucked)$.

Chapter 3

3.0 SEGMENTAL PHONOLOGY OF KOREN.

3.1 Phonemes:

The following consonants and vowels are what constitute the Koren segmental speech sounds:-

3.1.1.1 Consonant phonemes:

There are twenty-six consonant phonemes in Koren, excluding two borrowed phonemes /g/ and /f/. The following phonetic symbols are those used in the IPA (International Phonetic Association).

3.1.1.2 Consonant chart:

Articulatio n Place→ Manner↓	Bilal		Labio- dental	Dent	al	Alveol	- 1	Post- alveolar	Palatal		Velar		Glottal
Stop	p p ^h	b		t t ^h	d				С	Ĵ	k k ^h	(g)	?
Nasal		m					n			ŋ		ŋ	
Trill							r						
Fricative			(f)			S	z	S					h
Approx.		W								J			
Lat.Approx						1							

The parentheses for (g) and (f) indicate their marginal status.

3.1.1.3 Phonetic Distribution of Consonants:

- a) [th] can be replaced by the aspirated [th] when used in sentences that are uttered with more speed than uttering normal words. For example, /thoro?/
 'do it' becomes /thoro? kiti/ 'do it I say'. The difference is not that viable, but while uttering the tip of the tongue touched the alveolar ridge in the sentence level and the back of the teeth at the word level. It is too vague to label it as an allophone of [th] because it happens unconsciously and not in all cases that involves the said phoneme [th]. More or less it is the speed of the utterance that determinate it.
- b) [t], [d], [th] are pronounced differently from dental sounds. The Koren [t], [d], and [th] are dental in nature and not alveolar. But the tip of the tongue touches the back of the teeth slighter than a proper dental manner. But when emphasizing on the word having these phonemes the presence if the tongue increases.
- c) [ŋ] velar nasal is pronounced in the same way as the English [ŋ] as in sing [siŋ]. But the difference between the two is that in English (or for that matter in Hindi too) it does not occur in the word initial position whereas in Koren, it is free to occur in all the three position, initially, medially and finally.

- d) [n] nasal is an interesting feature and has a restricted occurrence in the Koren language. The phoneme occurs in onomatopoeic words or in describing certain sounds, action or nature of something. It is often reduplicated to emphasize the sound or action. Reduplicating indicates the occurrence of the sound or action more than once. For example, [neppep] means 'graceful or fluid' in movement, while [nep] means the same but the movement is done once. More examples are: nonnon 'cries of cat': nennen 'melodious voice of a person or a bird or bell' which is not loud and is a bit far away but quite audible. The phoneme occurs in initial position and medial position only.
- e) [r] in Koren is uttered more prominently, i.e. the front part of the tongue vibrates more than the English [r]. For example, [mertha] 'wings'; [ner] 'lip, etc. The air passed over the raised tongue tip and allowing it to vibrate.

3.1.1.4 Minimal pairs for consonants:

A number of minimal pairs that demonstrate consonant contrasts for Koren are given below:-

- 1) /p/ and /b/
 - a) [pù] 'grandpa'

[bù]- 'cooked rice'

b) [əpa:n] - 'scabies'

[əba:n] - 'arm'

- 2) /t/ and /d/
 - a) [tomsik]- 'lesser'[domsik]- 'to lift'
 - b) [ətèt] 'to keep'[ədet] 'strong/durable'
- 3) c/ and J/
 - a) [cincin] 'swaying of something silky'[jinjin] 'fluid movement of something'
 - a) [əcer] 'sprout'

 [ə jer] 'fry, sauté'
- 4) /m/ and /n/
 - a) [mé:l] 'looks'[né:l] 'sand'
 - b) [amaŋ] 'lost'[anaŋ] 'slow'
 - c) [əmú] 'to see/saw'
 [ənu] 'mother'
- 5) /n/ and /ŋ/
 - a) [ná:] 'leaf (banana)'
 [ŋá:] 'fish'

- b) [kellon] 'to pass' [kellon] 'open'
- 6) /m/ and $/\eta/$
 - a) [əmom] 'bud (flower)'

 [əmon] 'his/her/its behind'
 - b) [əmà:] 'he/she' [əŋà:] 'his/her fish'
- 7) $\frac{1}{2}$ and $\frac{1}{2}$
 - a) [lé?] 'and'[lét] 'baby burp'
 - b) [?insik] 'to be drank' [tinsik] 'to be hit'
- 8) $/\int/$ and /
 - a) [ə∫uaŋ] 'he see'[əJuaŋ] 'to fly'
 - b) [ə∫ùm] 'his/her wooden mortar'[ə∫úm] 'pointed'
- 9) $/\int/$ and /j/

[əʃúaŋ] – 'he/ she cooks'
[əjùaŋ] – 'he/ she comes'

10) /l/ and /r/

- a) [lèm] 'way/road'[rèm] 'extinct'
- b) [əʃiŋ] 'to plant'
 [əʃiŋ] 'alive'

11) /c/ and /k/

- a) [əcòŋ] 'handle'[əkòl] 'embrace'
- b) [əcem] 'his/her knife'
 [əkem] 'its husk (of grains)'

12) /c/ and / \int

- a) [əcim] 'crumbling in bits'[əʃim] 'sliding in big amount'
- b) [cùansik] 'to weed out'[ʃùansik] 'to get the pot down from the fire'
- 13) /c/ and /k/
 - a) [coknəsik] 'for stirring'[koknəsik] 'for wrapping'

3.1.1.5 Distribution of Consonants:

Environment of the distribution of consonants within the word are given below:-

Sl.n	Consonants	Initials	Medial	Final
0.				
1	/p/	pé:k	әра:r	әрор
		(give)	(flower)	(wound)
2	/b/	bé:l	cabé:l	

One added feature about the pairs /c/ and /t/ is that there exist two action with similar but yet different meaning, that is,

cokkelet - scooping out something in a place

tokkelet - digging out something in a place

The above examples are the minimal pairs that exist in the Koren language. It can be seen from the examples that it established the existence of a minimal pair for a set of two segments; it may be assume that those two segments contrast or are distinctive. Segment that contrast with each other in a particular language are said to belong to separate phonemes (contrastive phonological units) of that above language. Thus, all the consonants in the above examples belong to separate phonemes in Koren since all of them are contrastive in the language.

		(pot)	(teapot)	
3	/p ^h /	p ^h ek	əp ^h ie <u>r</u>	
		(a fruit)	(to braid)	
4	/ <u>t</u> /	tiŋ	nita:	mo:t
		(back)	(yours)	(banana)
5	/d/	derna	əndeŋ	
		(prayer)	(chutney)	
6	/th/	t ^h in	ài̯tʰíːŋ	
		(wood)	(ginger)	
7	/c/	con	ramcan	
		(language)	(forest)	
8	/3/	Jalmun	әјіе	
		(bed)	(pattern)	
9	/k/	ké:l	rika:	cá:k
		(goat)	(necklace)	(food)
10	/g/	gəməla	gəŋga	
		(flowerpot)	(ganga)	
11	/k ^h /	k ^h uo	meik ^h o:	
		(village)	(smoke)	
12	/?/	?em	leilə?ai	le?
		(green)	(medicine)	(with)
13	/m/	mercá:	mitmul	əmon
		(chilli)	(eyelash)	(bud)
14	/n/	numéi:	kinní	won
				(belly)

1		(female/woman) ,	(two)	
15	/n/	netnet	рођрођ	
<u> </u>		(sound made by insect)	(cat cries)	
16	/ŋ/	ŋaitò:ŋ	dèŋká:	əboŋ
		(cat)	(money)	(short)
17	/ <u>r</u> /	rumèn	kerda:i	ner
		(dream)	(play)	(lips)
18	/f/	futbol	ofis	
		(football)	(office)	
19	/s/	sari	niŋsiet	
		(seven)	(love)	
20	/z/	zu:	əzi:k	
		(alcohol)	(tender shoots)	
21	/5/	∫ump ^h ai	∫á:ŋ∫à:n	
1		(cloud)	(mosquito)	
22	/h/	há?	cahù:m	
		(tooth)	(husk)	
23	/w/	wa:ncuŋ	hiwah	
		(sky)	(this)	
24	/j/	jà:mma	aja:m	
		(slowly)	(creeper)	
25	/1/	lu:	ənlená	kedill
		(head)	(necklace)	(heel)

g and f sounds in Koren occur in borrowed words such as 'gam - 'gum' and futbol - football' etc. in the speech of the younger generation but sometimes older generation pronounced the two phonemes as /k/ and /ph/-for example. /kam/ as in 'gum' or phutbol/ for 'football' or ophis/ for 'office', etc. And the -bol/ in 'futbol can also be replaced by /-buol' as in 'futbuol/.

3.1.1.6 Generalization about Consonants:

- i) Aspirated phonemes do not occur in word final but extensively in initial and media positions.
- ii) [g] does not have an original place in Koren. So in typical Koren pronunciation, which the elders above 60 years still used to replace [g] is the velar voiceless [k]. That is for the two alphabets [k] and [g], there is only one sound [k] (but these does not apply to the younger generation as they pronounced the [g] sound as it is, still that occurs in borrowed words only). So old informants pronounced [g] as [k] in Hindi words such as {gulab} rose i.e. as kulap (in this word the change in final phoneme is due to un-occurrence of [b] in the final position in Koren language). Even intervocally, it is pronounced as [k] only e.g. [qaηqa] becomes [kaηka].
- iii) The fricatives [s]. [z], [ʃ], [h] fricatives, the dental plosive [d], the continuant [w], the voiced bilabial plosive [b], the voiceless palatal plosive [c] are not found to occur in the word final position. The plosive

[p], [k] [?], the lateral [l], nasals [m], [n], [n] occurs initially, medially

and finally.

iv) [?] occurs in the word initial, medial and final. But it mainly occurs

before or often a vowel. For example, [?om] - 'there is': [?em], [le?] -

'with' [ha:?] - 'tooth', etc.

v) [z] and $\int \int occurs rarely in the language and are always preceded or$

followed by vowels. Thus, [zeini] - 'tueday', [ʃa:ŋʃa:ŋ]

3.1.2 Vowel phonemes:

Vowels are sonorous, syllabic sounds made with the vocal tract more open

than it is for consonants and glide articulations. Different vowel sounds are

produced by varying the placement of the body of the tongue and shaping of the

lips. The shape of the vocal tract can be further altered by protruding the lips to

produce rounded vowels, or by lowering the velum to produce nasal vowels.

Finally vowels may be tense or lax, depending on the degree of vocal tract

constriction during their articulation. There are eleven vowels in Koren.

Vowels: /ə/, /i/, /e/, /a/, /o/,/u/

/i:/, /e:/, /a:/, /o:/, /u:/

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3.1.2.1 Vowel chart- Monophthongs:

	Front	Central	Back
Close	i	t	u
	i i:		u:
Mid-close	e		О
	e:		o:
Mid-open		Э	
Open	1	a a:	

3.1.2.2. Diphthongs:

The Koren vowels can be divided into two major types – vowels and diphthongs. Simple vowels do not show a noticeable change in quality during their articulation. Diphthongs are vowels that exhibit a change in quality within a single syllable. Koren diphthongs show changes in quality that are due to tongue movement away from the initial vowel articulation toward a glide position.

Diphthongs –There are twelve (12) diphthongs in Koren, /uo/, /ou/, /ei/, /ie/, /ai/, /ia/, /uə/, /əu/, /iu/, /ui/, /oi/, /io/.

3.1.2.3 Minimal pairs for vowels:

- b) e and e:

 [ənem] teheap*

 [əne:m] tsoft;
- c) /a/ and /a:/
 [əna] 'its leaf'
 [əna:] 'sick'
- d) /u/ and /u:/[əmu] 'seed'[əmú:] 'to see'
- e) /o/ and /o:/
 [ərol] 'to insert'
 [əro:l] 'glottis'
- f) /∂/ and /a/[∂l∂l] 'burden'[∂lal] 'guilty'
- g) /i/ and /e/
 [insik] 'to drink'
 [ensik] 'to see'
- h) /o/ and /u/
 [əro] 'to roast'

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[əru] - 'seed'
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i) /a/ and /o/[əpar] – 'to bloom'[əpor] – 'over saturated'
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k) /ə/ and /u/
$$[t^h \ni sik] - \text{`to pluck down'}$$

$$[t^h u sik] - \text{`to rot'}$$

[omro[- *stay*

3.1.2.4 Minimal pairs of diphthongs:

1	uo	toul	outside
	ou	roumro?	should burn
2	ei	mei	fire
	ie	niŋsiet	love

3	ai	ai	crab
	ia	ətia	he/she said
4	uƏ	kuər	ear
	əu	məuŋ	shape
5	iu	mium	man also
	ui	rui	rope
6	oi	moi	doll/bride
	io	kioŋ	pineapple

- In the pronunciation of the diphthongs [ei], [ie], a natural sound of /J/ is realized between the two segments of each of the two segments of each of the diphthongs, making them sound like [eji], [ije]. The /J/ is optional.
- Three vowel glides -Apart from diphthongs Koren has three forms of pure three vowel glides -

/uoi/, /uia/ and /uəi/

1.	uəi	neinuəi	earth	atuəi	to wipe
2.	via	ruiak ^h ət	hundred	úiətiə?	a vegetable
3.	uoi	moiruoi	wedding	muoida	flour
		k ^h uoini:ŋ	honey	citruoi	danger

3.1.2.5 <u>Distribution of Vowels</u>:

Si no.	Vowels	Initials	Medial	Final
1	Э	əla:m	wə?ak	əcə
		(dance)	(crow)	(exclamation mark)
2	e	esél	əsen	əke
		(to tease)	(red)	(leg)
3	a	ai	əra	əma
		(crab)	(its fruit)	(him/her)
4	i	inn	rimhoi	riki
	; ;	(house)	(aroma)	(horm)
5	0	oŋ	kolkái	mitcó
		(sit)	(sweet potato)	(blind)
6	u	upa	zupi	ərù
		(elders)	(coconut)	(seed)
7	e:	e:lwar	əse:m	me:
		(outshine)	(blow)	(meat)
8	a:	ar:si	səmja:k	əsà:
		(star)	(juggery)	(thick)
9	i:	i:te	asi:n	ni:
		(nothing)	(small)	(sun)
10	0:	o:ineŋ	әсо:р	əlò:
		(tender/soft)	(wet)	(to earn)
11	u:	u:m	əhu:m	əmu:
		(gourd)	(husk)	(he/she saw)

In the distribution of vowels in words, they occur in the initial, medial and final, without any restrictions and that applies to even the elongated forms of the vowels. But this does not occur in the distribution of all Koren diphthongs.

3.1.2.6 Generalization on vowels:

- 1. All the Koren vowels have two forms, i.e. short and long, for example, [əra] 'its fruit'; [a:rsi] 'star'.
- 2. The vowel[ə] is used extensively before words in the language which can mean to possess, confirm, indicative express emotions and indicate seconds and third person singular as well, for example [anci] 'he/shc/it has'; [acer] 'it sprouts'; [alla?e], [anu:] 'surprised or shocked expression; [anijei] 'it is'.
- 3. Only the change of vowels can also give different meaning in a word. For example,

```
əpir – 'uneven edge'

əper – 'to kick'

əpor – 'over saturated'

əpər – 'frills/flare'

əpar – 'to bloom'
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3.1.2.6 One Morphophonological Feature:

When two vowel come together in morpheme boundary –

- a) DELETION: one vowel gets dropped, i.e, v # # v -> vFor example, [\ni na ani] -> [\ni nani] 'he is unwell'
 - [əru ara:n] -> [ərura:n] 'bones and others'
- b) EPENTHESIS: glide is inserted, i.e. v # # v [j] vFor example, $[\exists pi \exists pu] - [\exists pij \exists pu] - [\exists prij \exists pu]$

3.1.2.7 **Vowel Symbolism:**

One of the most interesting features of Koren, as of some other languages of the Tibeto-Burman family, is that it has a wealth of words for close distinction of things by changing the vowels; the degree of the thing described can change. This phenomenon appears in many things, from describing different stages of flowers, of texture, state, taste, length, height, oiliness, ways of cutting, patterns, colours, and many others. Even within a category, it can be further sub-divided into different sections. This phenomenon is an example of the importance of expressing culture through language. It also reveals the rich tapestry of the language woven with vivid descriptions regarding various actions or states of things, the way nature and the surroundings are observed at close range that resulted in rich use of vowels. Not only this, the language has various words that reflect many unique features of the Koren culture and tradition, with the keeping of detailed behaviour of the thing that is close to the speakers and in employing the vowels as vehicle to categorize the world around. And it is overwhelming to

know that the language is structured in such a way as to unearth interesting linguistics features. The following examples will highlight the role of vowel in the language in determining the various ways of expressing something. The whole concept of using which vowel to use where is rather predictable but not always.

Emphasis on flower:

A. The budding stage:

- a) amombit a newly emerged bud and small
- b) amombet a slightly better formed bud than before
- c) amombot a half formed bud, not properly formed
- d) amombut a fully formed bud about to bloom
- e) amombiel a shapely formed bud and small
- f) amombuol a bigger shapely formed bud
- g) amomsir many small tight buds in clusters
- h) amomser many better formed buds in clusters
- i) amomsor many half formed buds in clusters but un-uniform
- j) amomsur many full formed buds in clusters
- k) amomci:m clusters of newly formed buds
- 1) amomcu:m clusters of bigger formed buds
- m) amomci:t many small tightly closed buds
- n) amomce:t many small better formed buds
- o) amomco:t many small not fully formed buds
- p) amomcu:t many fully formed buds in clusters
- q) amomhit forming out of small newly buds

- r) amomhet forming out of a small bud
- s) amomhot forming out of a bud unknowingly or of a sudden
- t) amomhut forming out of well formed buds

B. Flowering stage:

- a) əpa:r un-fully bloomed big flower
- b) əpa:r in perfectly formed smaller flower
- c) $\ni pa:\underline{r} p^h it a$ perfectly formed small flower
- d) θ pa:r phet a small newly bloomed flower
- e) $\exists pa:\underline{r} \ p^hot-newly \ bloomed not that fully formed$
- f) əpa:r p^hut big newly bloomed flower.
- g) əpa:r bit a recently opened bloom
- h) əpa:r bet a recent slightly opening bloom
- i) əpa:r bot a half opened bloom
- i) əpa:r but a big recently opened bloom
- k) əpa:r ien a properly medium sized bloom
- l) $\partial pa:r$ bom a bunch, cluster or bough of flowers
- m) əbombəlikapa:r heavily laden bough of flowers

Not only are these descriptions but there more to describe the colours of the blooms, the shades and degree of the smell produced etc. Some examples are as follows:

- a) əpa:r cékp^hit small but distinct white bloom
- b) əpa:r báŋvùr big white bloom]

- c) əpa:rrimhitti strong and distinct fragrance of the flower
- d) əparrimhutti blooms with fragrance spread wider

Apart from these examples, still more can be added but one thing which can be seen clearly is the role of certain vowels that gives out certain meanings, thus, the vowel, [i] express the sense of smallness, the vowel [e], with slightly a degree more than the small, vowel [o] is related with something that is not properly formed or not that impressive, while vowel [u] is related with something with big and visible. These uses of vowels extend to the description or the state of existence or action of other things as well, for example, softness of things or person:

- a) ənempir small and soft
- b) ənemper soft
- c) ənempor soft and unhealthy
- d) ənempur big and too soft
- e) ənémdim, ənémci:t small and soft/supple
- f) ənémdèm, ənémce:t slightly soft and supple
- g) ənémdòm, ənémco:t soft or supple
- h) ənémdùm, ənémcu:t too soft or supple

C. Roundness of things:

- a) $\theta = \sin \theta$ and round
- b) əcenlèl slightly small and round
- c) əcenlòl round but unappealing
- d) əcenlùl big and round

The use diphthongs indicates shape as well, for example,

- e) əcenbiel shapely and small
- f) əcenbuol shapely and big

D. Crack or split:

- a) θ kekrak the crack or split is slightly big
- b) θ kikrak the crack or split is small
- c) əkekre:k short small crack or split
- d) \ni kikre:k shorter small crack or split

Here the changes of vowel happen in the second syllable.

E. Oiliness:

- a) ∂t^h aidek slightly greasy
- b) əthaiduk greasy
- c) θ thaisir -oily
- d) θ thaiser a bit oily
- e) ∂t^h aisor oily and not that appealing
- f) $\partial t^h aisur very oily$

F. Length [mainly clothes]:

- a) acualpir small and long
- b) acualper slightly long
- c) acualpor long and un-appealing
- d) acualpur very long

G. Dryness:

1	əca:rbir	
2	əca:rber	These degrees of dryness is due to lack of
3	əca:rbor	moisture and resulted from excessive heat, can
4	əca:rbur	be leaves, soil, etc.
1	əreibir	
2	əreiber	Dryness can be a result of prolonged exposure heat or sunlight and also done for other purpose.
3	əreibor	For example, smoking meat for storage, etc.
4	əreibur	
1	əhu:lbir	
2	əhu:ber	Dryness referring to something that was wet and is aired or spread out or heated. Something
3	əhu:bor	that was wet before as in clothes, etc.
4	əhu:rbur	

H. Ways of cutting:

- a) ətuktən to cut it off
- b) \Rightarrow tuk lek to cut into bits
- c) tuk kelek to curve out by cutting
- d) ətuk t^heir to clear an area by cutting
- e) ətuk ŋal to cut down an area bare
- f) ətuk noi to cut into pulp

- g) $\partial tuk \ Jum to cut sharp edges$
- h) θ tuk cier cut by leaving marks
- i) \exists tuk boŋ cut it short
- j) θ tuk k^hiek to cut it down
- k) θ tuk k^h ur scooping out by cutting
- 1) \exists tuk k^huor making a depression by cutting
- m) ətuk sət to cut down with strikes

The above forms might be a different way of expressing the various forms of cutting. Here the pattern does not follow the usual vowels [i], [e], [o] and [u], because all the suffixes does not allow except examples like in (b) [atuklek], which can allow [atuklok] – 'cut off a bit' and [atukluk] – 'cut off a chunk', but [atuklik] is not used.

The whole thing can be a way of highlighting the numerous semantic categories, its use in giving cultural features that is people's interests in flowers, natures and the attention paid to almost everyway of describing a thing or an action. In forming the words the lexical features are given importance as well as the function of those words with the use of certain vowels in the language to convey messages.

3.1.2.8 Free variations:

There are some cases of vowel variation sometimes, for example: pu:r, po:r – talkative

bu:r. bo:r -- cover/ shell

Here both the vowel /u:/ and /o:/ can be used with no effect on the meaning of the two words.

3.2 Allophones:

3.2.1 Consonants:

- item has the sense of emphasis, and a vowel follows or precedes it, for example, [ahuat] 'to scratch', [tuihip] 'cold water', [ahai:l] 'to burn'; [he?] 'throw', etc. the condition is pragmatic and not grammatically or phonologically conditioned. And [h] occurs elsewhere, for example, [kihe] 'turn'; [hawaha] 'that', etc. the [h] is pronounced as [h] in normal sense of speaking when emphasis is not given to the item.
- ii. The voiced fricative consonant [] has an allophone [j] which can be interchanged with each other in use, except in some cases, it gives out a different meaning, for example, []an], []an] 'night'; [a]um], [a]um] 'pointed (as in objects)'; [a]in], [a]in] 'crack' etc. but in some words when the two phonemes are interchanged they give out different meanings, thus, [a]ati] 'his/her community' and []jati] 'its paining'. The /]/ and /]/ are two different phonemes.

- iii. The fricatives labio-dental [v] is the allophone of [w]. The two phonemes can be interchanged, especially in emphasizing the word that contains [w], [v] is used. Thus, [wen] and [ven] means 'today'; [awom] and [avom] means 'black'. But native speaker prefer to use [vur] for 'snow' instead of [wur] or [avoi] for 'flesh' instead of [awoi]; [wa:ncuŋ] for 'sky' instead of [va:ncuŋ], and [hawahan] for 'there' instead of [havahan] even if both the pronunciation are acceptable.
- iv. The fricative /z/ has two allophones, that is, /z/ and /ʒ/. For example, in front of diphthong, /z/ can be replaced by the long /ʒ/ as in [əzuaŋ] and [əʒuaŋ] both refers to 'flying'.

3.2.2 **<u>Vowels:</u>**

The vowels have common allophones. All the eleven vowels have the nasalized allophones when they are preceded by the nasals /m/, /n/, /n/, and /n/.

Nasalization of a vowel before a nasal consonant is caused by speakers anticipating the lowering of the velum in advance of a nasal segment the result is that the preceding segment takes on the nasality of the following consonants as in [khēŋ] – 'plate'. The Koren language has this type of assimilation that is termed as regressive assimilation, since the nasalization is, in effect moving backward to a preceding segment. The presence progressive assimilation can be seen in the language since the nasality moves forward from the nasal consonant into the

vowel. This results from not immediately raising the velum after the production of a nasal stop. Some examples are given bellow:

 $[n\tilde{e}:l]$ – sand

[mi:] - person

[nã:] - fish

[mul] – fur or hair.

3.3 **Syllable structure:**

3.3.1 Canonical Syllable structure:

(C)(C)V(C)

Illustration of possible syllable structure:

Monosyllabic words:	V	ò	yes
	CV	la	song
	VC	u:m	gourd
·	CVC	ban	arm
	CCVC	kreŋ	falling sound
	CVV	mei	fire
Disyllabic words:	CVCV	sari	seven
	VCVC	oŋor	sit still
	VCV	ite	nothing
	CVCCVC	ramcaŋ	forest

	CVCVC	wa?ak	crow
	VCCVC	ink ^h ar	door
	VCVC	aithi:ŋ	ginger
	CVCCV	t ^h ièmpu	priest
Trisyllabic words:	CVCCVCCV	t ^h iemmincu	teach
	VCVCCVC	əka:rrə'?	sometimes
	VCVCVC	ət ^h eidaŋ	remember
	CVCVCVC	sonəsut	goldsmith
	CVCCVCVC	kinnisu:n	double
	CVCVCCVC	k ^h oma:ksa:m	curse
	CVCVCV	səmja:kbəŋ	sugar
	CVCVCCV	sabəkkai	lion
	VCVCV	ənumei	wife
	VCCVCV	ənmani	they
Tetrasyllable	CVVCCVCCVCV	t ^h iemmincupu	teacher
	VCVCCVCV	əji:ŋnisuo	everyday
	CVCVCVCVV	serinutui	milk
	VCCVCVCVC	ənlenə?eŋ	green vegetable

Koren language is basically monosyllabic. The division of utterance into syllable is not always predictable in this language. In case of disyllabic and polysyllabic words seen, most of them appear to be compound words. For

example. [sabakkai] (sa-animal, bak-hair, kai-long). These structures are the ones found in the collected basic words data. Even from these examples it is clearly visible that there are a great number of syllables.

Initial consonant cluster is absent in the Koren word system, but it occurs in borrowed words only or in onomatopoeic words, thus, [bras] from English 'brush' which is interpreted as toothbrush in Koren. Other examples are [klas] for 'class'; [bron] for 'brown' etc. but the typical Koren speaker who is above 55/60 years or illiterate will pronounced with the addition of the existing vowel in between the consonant cluster. Thus, [kalas] – 'class'; [boron] – 'brown'; [pelet] – 'plate' etc.

3.4 Geminate consonants:

Geminate is the combination of two identical consonants in a cluster form. In Koren, the geminate clusters are:-

1	īī	arritui	eggs
2	nn	kinni	two
3	pp	apoppá	its wounded
4	mm	nemmák	expensive/costly
5	11	kellet	turn
6	kk	sabəkkai	lion
7	tt	kuttin	nail
8	ŋŋ	caŋŋok	stiff

The generalization of the above examples is that geminate consonants occur only word medially between vowels.

3.5 Consonant Non-Geminate Clusters:

There is absence of consonant clusters in word initial and final position in the language. However, there is an exception in formation of onomatopoeic words, for example, 'kriŋkriŋ' for the sound of bell, 'kloikloi' for a rolling object, etc. (the cluster usually comprise of /k/ with /r/ or /l/. Consonant clusters occur only in word medial position.

3.6 Permissible Consonant Clusters (Word Medial):

$\downarrow \rightarrow$	p	b	ţ	ď	С	Э	k	k ^h	S	h	S	1	r	w	ŋ	p ^h	th	n	m	n
p	pp														-			pn		
b																				
t	<u>tp</u>		ţţ		tc		kk	tk ^h					tr							
ġ								₫k ^h												
С																				
Ĵ																				
k		kb	kţ						ks			kl								
k ^h																				
S						sJ														
z																				
3										h?										
h															 					
S																				
Ī												11								
r		rb	rţ	rd	rc		rk		rs	rh			rr	rw	rŋ				rm	
w																				
ŋ			ŋt				ŋk	ŋkʰ	ŋs	ŋh	ŋS	ŋl			ŋŋ			ŋn	ŋm	
p ^h											-									
t ^h			-																mt ^h	
n '		nb	nţ	nd	nc	-			ns			nl					nt ^h	nn	nm	
m	mp		mţt		mc											mp ^h	mn		mm	
'n																				ηŋ

Generalization of the above consonant clusters shows no clustering of [z], [t] and [t] with any other consonants. There is absence of three consonant clusters.

3.7 Word stress:

In my utterance, some vowels are perceived as more prominent than others. Syllabic segments perceived as relatively more prominent are stressed. "Stress is a lower term for the combined effects of pitch, loudness, and length- the result of which perceived prominence." In general. Koren stressed vowels are higher in pitch, longer, and louder than unstressed ones. But exceptions are three as well. Koren being a tone language does not change the pitch level or contour of tones to mark stress. So relative prominence is marked by exaggerating the vowel length or pitch contour. The symbols / */ for primary stress / / for secondary stress or stresses. In Koren language, the placement of stress occurs word-filnally. For example, [waiwidkhu] – 'dust', and [əruəthei] – 'husband'.

/la:ŋsik/ - 'to make noise'.

/tha:sik/ - the water to be filled'.

/wa:nrðm/ - 'heaven'.

¹ W. O Grady, T. Archibald, M. Aronoff and J. Rees-Miller, *Contemporary Linguistics*, 4th Edition, Bedford, Boston, 2001, p. 42.

Chapter 4

4.0 TONE AND INTONATION

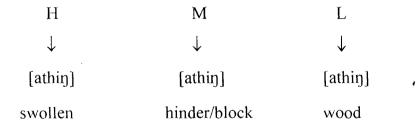
4.1 Tone in Language:

Speakers of any language have the ability to control the level of pitch of the utterance. They are able to do this by controlling the tension of the vocal folds and the amount of air that passes through the glottis. The combination of tense vocal folds and greater air pressure results in higher voice pitch on vowels and sonorant consonants, while less tense vocal folds and lower air pressure results in lower voice pitch. This controlled pitch movement found in human language can be of two kinds; tone and intonation.

This chapter will deal wit the formation of tone and its function in the Koren language. The chapter will show the importance of tone in the language and its significance in Koren word meaning. Being a tone language, this part of the study describes some, but by no means all, of the various aspects of Koren tone, along with difficulties involved in their analysis. The main object is to bring out the key features of the tone system in the language. The attempt to show a basic organizational difference and existence of the tone on the action of gliding – tone and level – tone of the Koren language is of the advances in the field proposed in this section.

4.2 Basic Characteristics of the Language:

"A language is said to have tone or be a tone language when differences in word meaning are signaled by differences in pitch." Or a tone language may be defined as a language having lexically significant, contrastive, but relative pitch on each syllable. Pitch on forms in tone languages functions very differently from the movement of pitch in a non-tone language. When a speaker of English says "a cat?" with a rising pitch, the word 'cat' does not mean anything different from the same form pronounced on a different pitch level or with a different pitch contour. In contrast, when a speaker of a tone language such as Koren pronounces the form [amal] with a falling pitch [amal], it means 'grain or pieces', but when the same form is pronounced with a rising pitch [amal], the meaning is 'to pick off corns from corncob, chilies from the plant or small fruits, etc.' There is no parallel to anything like this in non-tone languages such as English. In fact, Koren language show tones at certain pitch levels. It has tones head at high, mid, and low pitch levels. In the examples below the upper cases letters H, M, and L stand for high, kid, and low tones respectively. An auto-segmental notation is formed as an association line, is drawn from the letters to the vowel links the segments with their tones:-



Tone languages can be divided broadly into two types:- "Level tones that signal meaning differences are called register tones: two or three register tones are the norm in most of the world's register- tone languages, though four have been

¹ W. O'Grady, J. Archibald, M. Aronoff and J. R. Miller. Contemporary Linguistics. IV Edition. Bedford, Boston: 2001.p 38

reported for Mazatec, a language spoken in Mexico. A single tone may be associated with more than one syllabic element; in Koren also there are certain polysyllabic forms that show the sane tone on each syllable (here, the diacritic ['] indicates a high tone and the diacritic ['] indicates a low tone) —

High tone and low-tone words in Koren:

pépá:r - cheap and quality clothes shops

zùkhà - local brewed alcohol

əleitho – farming/he did

Auto-segmental notation and association lines can be used to represent the tone or characteristic of an entire form. The single underlying tone unit is associated with all vowels.



"In some languages, tones change pitch on single syllabic elements. Moving pitches that signal-meaning differences are called contour tones. In Mandarin, both register and contour tones are heard." For examples:-



¹Keneth L. Pike – *Tone Languages*. The University of Michigan, Michigan:1948. p. 1. ² Ibid. p.2



Although, tones may seem exotic to native speakers of Western Europe and other non-tonal languages, they are not uncommon but very widespread in world languages. According to Pike, "The languages of Southeastern Asia (China, Burma, Indo-China, Siam) are largely tonal, as ate the languages of Africa, west of Ethiopia and south of the Sahara (Sudanic, Bantu, Bushman, and the Hottentot groups). In North America, various tone languages are found in Southwestern Mexico (Mixteco, Mazateco, Amuzgo, Chatino, Chinanteco, Chocho, Cuicateco, Otomi, Ilapaneco, Irique, and Zapoteco) and the United States (Navho, Apache, and others)." Intone languages the pitch contrasts or significant pitch differences entail one pitch being kept different or separated from another in the immediate context. Two level pitches may contrast by one of them being relatively higher than the other. On the other hand, a rising pitch may contrast with a falling pitch or one rising pitch with a second pitch which, relatively, rises higher. Tone languages have a major characteristic in common: it is the relative height of their tonemes (the contrastive lexical units of sounds are phonemes, or, in tonal analysis, tonemes) or their actual pitch, which is pertinent to their linguistic analysis. A man and a woman may both use the same tonemes, even though they speak on different general levels of pitch. Either of them may retain the same tonemes while lowering or raising the voice in general, since it is the relative pitch of syllables within the immediate context that constitutes the essence of tonemic contrast.

Each syllable of a tone language carries at least one significant pitch unit. Most frequently, there is a one-to-one correlation between the number of syllables and the number of tonemes in any specific utterance. Korem tends to be of this

¹ Keneth L. Pike – *Tone Languages*. The University of Michigan, Michigan: 1948.p 2

type: in the word [athin] — swollen, instanced before, there are two syllables may have more than one toneme. Tone languages may have monosyllabic or dissyllabic (or trisyllabic). Tone languages are by no means all alike in the kinds of tonemes they utilize or in the function of these tonemes in their grammatical systems. One of the most striking differences exists between those systems which arte comprised largely of level tonemes and those whose tonemes are mostly of a gliding type. Koren falls under the level toneme or within the limits of perception, the pitch of a syllable does not rise or fall during its production. While in a gliding toneme, during the pronunciation of the syllable on which it occurs there is a perceptible rise or fall, or some combination of rise and fall, such as rising-falling or falling-rising. A language has restricted number of pitch contrasts or registers between level tonemes. The number of permitted registers in Koren is about three in numbers.

4.2.1 Lexically Significant Pitch:

Significant pitch distinguishes the meaning of utterances. Lexically, pitch distinguishes the meaning of words. Pitch is also significant in English, but in English, the semantic differential applies to the phrase as a whole constituting a shade of meaning rather than a dictionary or lexical meaning. For this reason, English is not a tone language even though it utilizes significant pitch, since a tone language must have pitch that is both significant and lexical. For example- in Koren, [mai] means 'pumpkin', but [mai] means 'face', and the only difference between them is that the first word ends in a high pitched vowel cluster and the second word ends in a low pitched one.

4.2.2 Contrastive Pitch:

By a contrast there is a difference from one thing to another within a functional system. As within the system of English [p] is different from or contrasts with [b] as seen in [pin] and [bin]; the contrastive lexical units of sounds are phonemes or can be known as 'tonemes' in tonal analysis according to Pike. In tone languages, the pitch contrasts or significant pitch differences is being kept different or separated from another pitch in the immediate context. There is contrast in two level pitches with one of them being relatively higher than the other. Contrast between a rising pitch with a falling one, or a rising pitch with a second pitch which rise higher than the former.

4.2.3 Relative Pitch:

The languages have a major characteristic in common; it is the relative height of their tonemes, not their actual pitch, which is pertinent to their linguistic analysis. The important feature is the relative height of a syllable in relation to preceding ad following syllables. The relationship of one specific syllable to the other syllable in the specific syllable is important. A man and a woman may both use the same tonemes even though they speak on different general levels of pitch. Either of the may retain the same tonemes, wile lowering or rising the voice in general, since it is the relative pitch of syllables within the immediate context that constitute the essence of tonemic contrast.

4.2.4 Syllable Pitch:

As mentioned earlier, each syllable of a tone language carries at least one significant pitch unit. Most frequently, there is a one to one correlation between the number of syllable and the number of tonemes in any specific utterances.

Koren tends to be of this type: in the word [cacam]—'tea without sugar', are two syllables and two tonemes. "However, a syllable may have more than one tonemes in some language."

4.2.5 Level Pitch Register System:

No tone languages are alike in the kinds of tonemes they utilize, or in the function of these tonemes in their grammatical systems. The striking differences that exist between those tonemes are comprised largely of level tonemes and those whose tonemes are mostly of gliding types.

A level toneme is one in which within the limits of limits of perception, the pitch of a syllable does not rise or fall during its production.

A gliding toneme is one in which during the pronunciation of the syllable on which it occurs there is a perceptible rise or fall or some combination of rise and fall, such as rising-falling or falling-rising. The manner of level-gliding distinction may affect a tonal system is indicated in the following:

4.2.5 Number of Register:

When a language has a small, restricted, number of pitch contrasts between level tonemes, these contrastive levels can be termed as registers. The number of permitted registers in various languages seems to be limited to two or three.

¹ Keneth L. Pike – Tone Languages. The University of Michigan, Michigan: 1948.

4.3 Tones in Koren:

The most distinctive feature of the Koren tone is that it has a two-pattern tone system. And there are three main level tones namely mid-high 2, mid 3 and low 4. Besides this, there is one more tone which is high 1 and does not occur in abundance. It also rarely occurs in monosyllabic words and it is usually preceded or followed by low 4 tone syllable.

For example;

4.3.1 Pitch pattern:

4.3.1.1 Noun:

Monosyllable	<u>Disyllable</u>	Polysyllable
a:r (chicken)	Jalmun (bed)	copibut (boiled cabbage)
2	4 2	2 3 4
u:m (gourd)	a:rsi (stare)	cəmpərəkuŋ (lime tree)
3	2 4	3 3 2 4

ən (vegetable)	incoir (backyard)	ləmkcipu (leader)
4	4 3	4 4 2
mit (eye)	motko:r (banana pe	el) ocekphit sparkling
3	4 2	3 2 2

4.3.1.2 Verbs:

Disyllable	Polysyllable
əca:k (eat)	ənui ja (amuse)
3 4	3 4 2
əla:m (dance)	risuthier (clean)
3 2	3 3 3
əmu (see)	cokjelduk (mix)
3 3	4 2 4
?in (sleep)	k ^h omrepsik (gather)
4 3	2 4 3

Monosyllable verbs do not exist on their own but takes a suffix when written as a word.

4.3.1.3 Adjectives:

Disyllable	polysyllable
əsa (good)	əwa:rpeŋ (bright)
3 4	3 2 4
melsət (good looking/beautiful)	edairel (cool)
2 4	3 2 4
əbəŋ (white)	əjinmhul (dark)
3 2	3 2 4
cenlul (round)	əseijon (tall)
2 4	3 3 4

4.3.2 Tone in syllable:

Monosyllable	2
	3
	4
Disyllable	2 4
	3 2
	3 3
	3 4
	4 2

	4 3
Polysyllable	2 3 4
	2 4 3
	3 2 2
	3 2 4
	3 4 2
	3 3 3
	3 3 2 4
	4 4 2
	4 2 4

4.3.3 For tones concerning syllables with diphthongs:

Monosyllable	disyllable	polysyllable
ui (dog)	maibuo (pumpkin leat	tuolp ^h ietna
4	3 4 3 4	3 2 3 4 2
lei (tongue)	neinuoi (earth)	moiruoibuca:k (wedding feast)
3 4	3 4 3 4	3 4 3 2 3 3
suoŋ (cook)	ja:mp ^h uoŋ (jackfruit)	pət ^h ienoi (believer)

3 2 3 3 2 3 4

In the examples above, may of the diphthongs usually have mid to high rise or mid to low fall. In case of three vowel clusters, instead of three distinct tone only two toes are realized as the middle vowel closely follows the first.

4.3.4 Tones and their changes:

When a Koren word or syllable is uttered aloud, the sound produced consists of not only the consonants and the vowels but also a tone. But for a syllable ort tone word occurring in a phrase or a sentence, the tone is often replaced by another tone. The original tone and those which takes its place ate allotones of one toneme.

Each tone has its shape ort feature. This consists of two elements, pitch and glide. 'Pitch' indicates whether the tone is high or low or mid. And 'glide' means the rises or falls. The pitch here is relative in the sense that every individual has his/her range of voice.

4.3.4.1 Monosyllable:

The pitch of an individual's voice range ca be divided into:

- a) high
- b) mid high
- c) mid
- d) low

The four naming tones in the Koren language may be described as follows:

- a) tone 1, high—it starts from mid high and rises to high, e.g. [piŋ] height of anger
- b) tone 2. mid high it starts from mid and rises to mid-high, e.g [wa:] bird
- c) tone 3. mid it starts somewhere a bit lower than mid and from mid it ends between and mid and low, e.g [som] 'ten'
- d) tone 4, low it starts about mid-low and falls to low. [bel] 'stung'

4.3.4.2 Disyllables:

a) Toneme 1 becomes 2 when followed by 2. remains high when preceded or followed by toneme 4. and it changes to toneme 2 when preceded or followed by toneme 3 or 1.

For example;

b) Toneme 2 remains high if preceded by tonemes 3 and 4, it changes to 4 if preceded by 2 and it remain as it is even if preceded or followed by 1. For example;

$$2+2 \rightarrow 24$$
 [a:r cak] - 'chicken'

$$3:2 \rightarrow 3.2$$
 [thin con] - 'branch'
 $4:2 \rightarrow 4.2$ [dan ka:] - 'money'
 $2:3 \rightarrow 2.3$ [a:r si] 'star'
 $2:4 \rightarrow 2.4$ [wa:Hul] - 'shine'
 $2:2^{1} \rightarrow 2.2$ [a:r a:r] - 'chicken to chicken'

c) Toneme 3 remains the same when preceded by 2, 43, 1, 3, it changes to toneme 2 when followed by the tone 4 when it is reduplicated.

For example;

d) The toneme 4 remains unchanged except when the same syllable is reduplicated, the second syllable becomes slightly lower than the first one.

For example;

$$4 + 4^3 \rightarrow 4 \ 4^4 \ [an an] - 'curry to curry'$$

$$[ui ui] - 'dog to dog'$$

¹ In the case of reduplication, the tones remain same.

⁻ Ibid..

³ Ibid.

⁴ Slightly lower than the low tone 4

4.3.4.3 Polysyllable:

In polysyllabic words, tone variation is not clearly predictable.

For example;

$$3+3+2 \rightarrow 4\ 2\ 2\ [səmk^hitna] - `hairband`$$
 $2+3+2 \rightarrow 4\ 2\ 2\ [a:rritui] - `egg`$
 $3+3+2+2 \rightarrow 4\ 3\ 22\ mei əl cep na] - `tong`$
 $3+4+2 \rightarrow 2\ 4\ [nai\ pan\ don] - `child`$
 $4+2+4 \rightarrow 3\ 2\ 4\ [wai\ wid\ k^hu] - `dust`$
 $3+2+2 \rightarrow 4\ 2\ 2\ [kut\ ca:m\ bel] - `pot\ for\ washing\ hand`$
 $3+4+4 \rightarrow 3\ 4\ 2\ [thei\ can\ kun] - `wild\ fig\ tree`$
 $4+2+3 \rightarrow 4\ 3\ 2\ [sum\ phai\ ji:n] - `cloudy`$

4.3.5 **Phonological Status**:

Tone functions on three main levels besides the one level which occurs rarely. For the case of reference, tones are numbered from 1 to 4 (high to low) but for the pitch pattern only three are being used and here kid-high is replaced by high to avoid complications as is easier to read. Every syllable bears at least one or two of the four level tones and glides, which can readily be analyzed as combination of the level tones, are not uncommon. It is not problematic to find minimal pairs of three words but minimal quadruplets do not exist.

Examples of lexical tonal contrasts level tones:

Word	tone	gloss

əkəl	2	climb
	3	strain
	4	latch
t ^h iŋ	2	shake off
	3	hinder /stop
	4	wood
Bel	2	pot
	3	smear
	4	string
əncəm	2	they are simple
	3	their opinion
	4	mustard
əcum	2	correct
	3	slow
	4	distant
əŋir	2	he/she/it stands
	3	to stand
	4	his/her/its way of standing
toŋ	2	a smaller variety
	4	to receive
əbək	2	messy/tangled

	4	hair
Budu	2	fond of rice
	4	foolish

4.3.6 Reduplication:

Reduplication of a word is abundant in Koren. When a word is reduplicated the tones on the syllables do not change, in general.

For examples:

inkil inkək – 'nook and corner of the house'

3 3 3 3

bubel anbel - 'pots and all'

3 2 3 2

thinkun lunkun - 'trees and plants'

4 4 4 4

However, in the examples below, the tone changes but for all these forms the tone level is the same.

For examples:

Parent form	duplicated form
ənei (rich)	əninei (richer)
3 4	3 4 3
əhoi (nice)	əhihoi (nicer)
3 4	3 2 3
əva:r (bright)	əviva:r (brighter)
3 2	3 2 3

The tone change results from the insertion of a syllable in between the existing two syllables. And the reduplicated syllable always consists of the first consonant of the second existing syllable, followed by the vowel [i].

4.4 Intonation:

As humans' most sophisticated means of communication, the mode of language exploits numerous formal devices in order to get the meaning of the message across. When words are strung together, the resulting meaning of the whole structure is a function of the romantic properties of the individual lexical items and of the syntactic relations that hold among them. It is also a function of the linguistic and situational context in which the utterance is produced. When speech is uttered, the vocal organs are set into motion in order to generate the sound pattern that corresponds to the underlying linguistic elements. In this generation process the speaker does not merely articulate the successive speech sound that makes up an utterance, but simultaneously controls other vocal features such as loudness, tempo, rhythm, pitch, voice quality etc. The later variations do not shape the phonetic identity of the segmental speech-sounds., but construct a truly 'supra-segmental' or 'prosodic' layer in the sound pattern. The prosody of an utterance adds an expressive dimension to the communication process: by modifying the prosodic features the speaker can supplement his utterance with element of meaning that is not explicitly contained in its lexical and syntactic make-up. The added meaning must be taken in a brood sense as communicative information which can be widely interpreted as: I want this to be done; this is a polite request; I don't believe that; I don't mean what I say; I mean the opposite of what I say; I emphasize this world; etc.

Intonation is one prosodic feature, which can be defined as the ensemble of pitch variations in speech caused by the varying periodicity in the vibration of the vocal cords. The most fascinating and intriguing thing about language is that it functions so eminently well in human communication. Therefore the evident goal of linguistic analysis is to lay bare the properties of language that supports its communicative role in the speech community. Undoubtedly intonation is one of the vocal means that can be put to use in conveying a message from speaker to listener. One of the main concerns is to come to grip with the communicative value of intonation.

In some ways it resembles music not only in its physical basis but in other ways as well-both have ties with emotion. The chief difference is that music is an art form and it is highly elaborated; we insist on exact intervals an exact combination, and we play allsorts of imitative and imaginative tricks which melodies & rhythms .Language cannot afford that degree of originality, for it has to be conventional; it has more important business than transmitting feelings and this forces it to harness emotion in the service of meaning. It may be that the rising pitch on a question really reflects the speaker's inner uncertainty or his excitement or interest in getting an answer; but questions are a grammatical category & high or rising pitch is one way of telling them from statements.

The typical use of intonation in a language usually means one of two things: the total quality of the sound by which he can distinguish one dialect from another whether he understands what is being said or not, and the tone of voice to which he reacts more or less emotionally.

In the example below one can feel the different sensations one feels on hearing the same sentence spoken in three different ways:

- (a) Don't be angry
- (b) Don't be angry
- (c) Don't be angry

The first is soothing or pleading; the second is assertive-it imposes the speakers will and is the way commands are usually made; the third most likely to be explanatory-it could be in answer to "How can I react to this?"

Yet language is a multi-façade subject and even here things are not as simple as they seem. The soothing intonation maybe overruled by a warning look-the speaker may be expressing something else or trying to subdue an impatience urge etc.

Intonation, as whole compromises of factors like rhythm, pause, length. and stress as well as pitch- that combine to make the prosody of the language.

4.4.1.1 General Characteristics of Intonation:

1. Constituted by sequences of pitches-intonation contours:

Every sentence, every word, every syllable is given some pitch when it is spoken. Even a sound in isolation is produced by vibrations whose frequencies constitute its pitch. In a way-there are no pitch less sentences. Fluctuations in pitch occur in the sentences of all languages. The intricacy of pitch change & pattern of variation, rules of change can be blocked even though one speaks his language with little effort, their analysis is extremely difficult & may induce one to conclude that no actual organization or rules are present, but that people use pitches by whim and fancy.

2. Intonation Contours:

In each language, however the use of pitch fluctuations tends to become semi-standardized, or formalized so that all speakers of the language use basic pitch sequences in similar ways under similar circumstances. These somewhat abstracted characteristics sentence melodies may be called intonation contours. The characteristics of intonation can be rough divided into several types. Some contours may be completely colorless in meaning: they give to the listeners no implication to the speaker's attitude or feeling. The mechanical contours are important for learning a language since failure to use them distinguishes one with a bad accent.

Other intonation characteristics maybe affected or caused by the individual's psychological state-anger, happiness, excitement, age, sex, and so on. Change of pitch contour will change the meaning of the sentence: thus "what?" "what?!" are different.

3. Accompanied by shades of meaning:

One characteristic of intonation contours is the tremendous contour native power of their somewhat elusive meanings. Reaction is often seen in the intonation meanings than to the lexical ones. Meanings of intonation contours are largely of this type- the attitudes of the speaker. Most sentences or parts of sentences can be pronounced with several different intonation contours, according to the speaker's momentary feeling about the subject matter.

4. Compared to the tone of tone languages:

Two most important characteristics of intonation are (a) the distribution of its contours over phrases and (b) the addition of shades of meaning to phrases rather than the giving of lexical meaning to words. Both of these characteristics can be seen in contrast with a different type of pitch system in tone languages.

In tone languages the pitch of each syllable is basic to the word. Pitch contours are located on single syllables, not on groups of syllabus. Every syllable has a pitch which is determined by the nature of the word itself. The tones of tone languages with the consonants and vowels form the actual words themselves so that no word exists unless its phonemic tone exists along with its sounds. The tone contributes its share towards carrying the basic lexical meanings of words. Just as the substitution of [1] for [5] in Koren [lam] to [5am] and change the lexical meaning from "way" to "hair".

In addition to this lexical pitch, however tone language may have various types of pitches superimposed upon them. Thus, the general pitch of the voice may carry implications of anger, disgust, joy and so on.

4.4.1.2 Intonation in Koren:

Like other languages variation in pitch & contour define the meaning of the utterance as well as the subtle embedded, underlying meaning intended by the speaker is there. Following are some of the intonation examples in Koren.

1. Did you go for the wedding?

(a) moiruoi mo nice?

[question]

(b) moiruoi mo nice?

[used to express rebuke]

(c) moiruoi... mo nice?

[used to express hesitation]

(d) moiruoi mo nice...?

[used to express doubt]

2. Cook the pumpkin

(a) mai suoyro

[statement]

(b) mai suoyro

[emphasis on pumpkin]

(c) mai suoyro

[emphasis on cook]

(d) mai suoyro?

[question]

(e) mai suoyro.

[rebuke/authoritative]

(f) mai...suoyro.

[hesitant]

3. They went to catch crabs.

(a) ai cur ənce	[simple statement]
(b) ai cur ənce	[emphasis on crab]
(c) ai cur ənce	[emphasis on want]
(d) ai cur ənce?	[question]
(e) ai cur ənce	[authoritative]
(f) aionce	[hesitant]
(g) aicurence	[unpleasant/dismissive]

4.4.2 **Generalization**:

Generalization over the samples above, the dimension of meaning postulated are associated with the elements in contour variation.

- (a) Simple statement—final fall
- (b) Emphasis on noun rising noun syllables (front), final fall
- (c) 'emphasis on verb' high rising verb syllable (and)
- (d) 'Question' rising-falling-rising final
- (c) Authoritative/rebuke falling mid sentence, rising and falling final.
- (f) Hesitant -- breaks in between words, falling final
- (g) Unpleasant/dismissive pronounce together all the words in quick succession, falling final.

Most of the Koren speakers employ this method of expression in the intonation front. But it is not so rigid as un-liable to change as sometime a speaker can always adapt a style that deviates a bit from the norm to suit his own intention.

Chapter 5

5.0 CONCLUSION

Although the present dissertation has been written of Koren as spoken today, the language described in it is nor without the traits of speech of earlier generation. Even if Koren today has a small number of speakers or is undergoing a slow transformation, the indigenous language is still being routinely acquired by children as their first tongue. The language is the identity of the close knitted community, although open to change as in the case of a living language.

So this dissertation is an attempt to create some basic knowledge of an endangered language belonging to an indigenous community. Thus the importance of research from any front is the need of the hour as very little has been explored of the Koren community. The main aim and objective of this dissertation is to bring out the basic sound system of the language in terms of its phonemes, allophones their distribution, the syllable structure, word-stress, tone and intonation. Phonemes are the first step to study the linguistic features of the language. Only after such a study, will it be possible to study the language on other levels such as morphology, syntax and semantics.

As the language has not been investigated, it was found necessary to establish the basic sound system first, i. e. the consonants and vowels. For this work, the data collected during the fieldwork come in handy. The consonants and vowels were obtained from the basic words lists which were about three hundred (300).

There were lots of difficulties in writing about the language as a whole. The process was somewhat equal to writing a mini grammar of the language. It consumes a lot of time to analyze and took days to examine and come up with the correct forms. In the course of analyzing the sounds, many facts came up for discussion. Not all of them could be treated here. One striking feature of the language is the existence of describing the stages and properties of things by changing the vowels. In Koren language, a set of vowel is used to describe almost each and every state, may be the colour, thickness, way of an action etc. etc. there are also many other features of consonants and vowels that behaves differently from the rest of the examples. But it is not easy to pinpoint those features as the whole dissertation is a first of its kind for the language concerned, so it can be said that almost all the point as mentioned in the chapters before are important finds.

The chief purpose of this dissertation is not a critical analysis of the subject, but:

- 1) A simple approach to establish the existing sound system and tonal system of the language. A methodology based on available linguistic advance, and
- 2) The presentation of firsthand data on Koren language which represent a sound system of its own with its structural arrangements of linguistic tone. Specifically, the dissertation does not pretend to be a complete report on all the information of Koren tone that may exist- though it gives hints and is open ended for the future analysis. But the generalizations on Koren tones and sounds systems represented in this dissertation is culturally important as well.

Voice, purely as voice pays many parts in communication. It provides the overtones that are the raw material f vowels; determines the differences between certain consonants and certain others, it is what gives speech its power to ride over noise and carry long distances. Besides these roles- which, though they evolve

voice and hence tone, could almost as well be monotone – the fundamental pitch of the voice plays others that overlap in their physical manifestations like the motion of the sea, the ups and downs surface, identifying where one stops and another begins; to identify other phonetic events such as duration and loudness, that are associated with them, and relate each to some separate function in communication. The work is far from finished, but enough is known so that broad generalization is done.

Yet intonation is not as 'central' to communication as some of the other traits of language. If it were, we neither could understand someone who speak in monotone; and on so far as or comprehension of written language is due to its being a faithful reproduction of speech, we could not read. We therefore must be wary of giving it undue attention first because it is something new.

- 1. Tones pronounced in isolation behave differently fro those pronounced in connected speech. In connected speech they go through perturbation. This is usually governed by the position they occupy in the phrase or by the tonal environment. It may also be governed by grammatical structure, though this does not form part if the present inquiry.
- 2. Besides the four main tones in the Koren language, there are two glides, i. e. falling-rising and rising-falling.
- 3. Intonation in Koren language is superimposed in the sentence as a whole and it is this superimposed intonation that modifies that individual tones and not the tones themselves that decide the intonation of the sentences.

The research brought about many firsthand information regarding phonemes, tones, intonation and their conditions in Koren language. Following are some of the important findings:-

- 1. There are 25 (twenty five) consonants and eleven vowels, as well as 12 (twelve) diphthongs. The language is such that many sounds ca replace each other that sometime it's difficult to term the exact allophones of certain phonemes.
- 2. Phonemes like /n/, /f/ and g' occurs very rarely, this is, limited to onomatopoeic or borrowed words.
- 3. In the formation of tone also, the main tones numbered four but the high tone occurs very rarely.

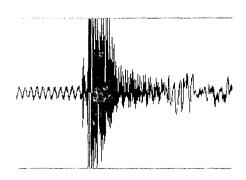
This dissertation was meant to highlight the linguistic features of an endangered tribe but also has left many thing unanswered when it comes to the finality of the finds as it is done for the first time and within a short and limited period. This still leaves the Koren language in a front where further research is needed very much.

Little is settled but much is illuminated. The main hope is that the reader will leave this writing with a deepened curiously about what goes on when he hears or produces a stream of fundamental pitch.

Appendixes

1.0 Picture Diagrams:

1.0.1 an



Time s F0 Hz

0.553889 --undefined--

0.563889 219.836752

0.573889 215.676280

0.583889 205.019851

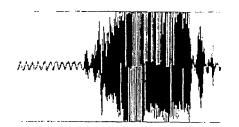
0.593889 201.503989

0.603889 198.767515

Minimum pitch - 191

Maximum pitch – 219 Difference – 28

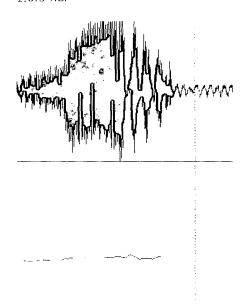
1.0.4 kuar



Time s F0 Hz 0.491474 237.251867 0.501474 235.013100 0.511474 232.986226 0.521474 232.568941 0.531474 231.961416 0.541474 231.278260 0.551474 231.191546 0.561474 232.132526 0.571474 234.449306 0.581474 235.673913 0.591474 235.865718 0.601474 234.330894 0.611474 232.270875 0.621474 230.248528 0.631474 228.357439 0.641474 230.678815 0.651474 233.653766 0.661474 233.932988 0.671474 233.580034 0.681474 234.101379 0.691474 233.720647 0.701474 232.705769 0.711474 231.562350 0.721474 229.291845 0.731474 230.628509 0.741474 233.147913 0.751474 234.923210 0.761474 235.418232

Minimum pitch - 228 Maximum - 258 Difference - 9

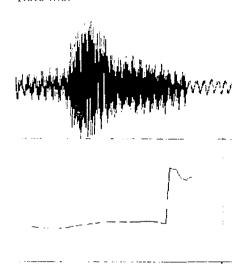
1.0.5 ner



Time_s F0_Hz 1.032336 216.776720 1.042336 220.052268 1.052336 220.531573 1.062336 222.790041 1.072336 222.591036 1.082336 221.778833 1.092336 222.934954 1.102336 224.355280 1.112336 224.780708 1.122336 224.222789 1.132336 224.064798 1.142336 224.997048 1.152336 227.069217 1.162336 229.137495 1.172336 230.318871 1.182336 232.059449 1.192336 233.692327 1.202336 233.759061 1.212336 232.242412 1.222336 231.534645

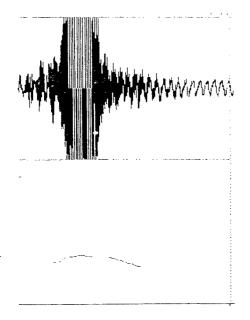
Minimum pitch - 216 Maximum pitch - 233 Difference - 17

1.0.6 moi



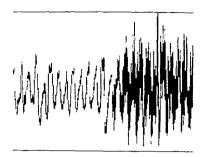
Time_s F0 Hz 0.490794 201.028107 0.500794 204.304731 0.510794 207.678396 0.520794 210.121238 0.530794 212.029925 0.540794 213.269871 0.550794 216.192806 0.560794 219.418048 0.570794 220.351551 0.580794 222.245791 0.590794 225.838213 0.600794 226.030314 0.610794 225.776954 0.620794 223.649443 0.630794 222.626561 0.640794 222.859752 0.650794 223.394759 0.660794 225.451221 0.670794 226.159033 0.680794 224.366467 0.690794 223.056249 0.700794 221.984853 0.710794 221.898544 0.720794 221.908728 0.730794 222.537663 0.740794 222.901393 0.750794 220.308853

Minimum pitch - 186 Maximum pitch - 226 Difference - 40



Time s F0 Hz 0.542574 205.253318 0.552574 207.693654 0.562574 208.852288 0.572574 209.396019 0.582574 210.005295 0.592574 210.791771 0.602574 211.397367 0.612574 211.891033 0.622574 211.888185 0.632574 211.811681 0.642574 212.556653 0.652574 212.996458 0.662574 213.092999 0.672574 212.965601 0.682574 211.353959 0.692574 210.215428 0.702574 210.689973 0.712574 210.493627 0.722574 209.612061 0.732574 208.384817 0.742574 206.940495

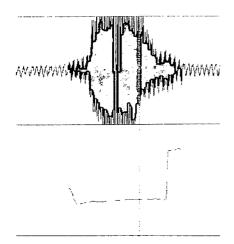
Minimum pitch - 201 Maximum pitch - 213 Difference - 12





Time s F0 Hz 0.454444 272.858004 0.464444 266.664554 0.474444 260.906574 0.484444 252.054348 0.494444 236.048177 0.504444 231.407829 0.514444 --undefined--0.524444 --undefined--0.534444 --undefined--218.930495 0.544444 0.554444 215.625592 0.564444 213.459972 0.574444 211.203433 0.584444 208.821822 0.594444 205.713106 0.604444 202.352705 0.614444 199.911783 0.624444 195.363089

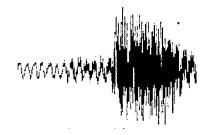
Minimum pitch - 195 Maximum pitch - 275 Difference - 77



Time_s F0_Hz 0.532766 217.923114 0.542766 219.171294 0.552766 220.729447 0.562766 222.537914 0.572766 222.595358 0.582766 223.288273 0.592766 224.362926 0.602766 225.000164 0.612766 227.712887 0.622766 231.601324 0.632766 234.015901 0.642766 235.123986 0.652766 235.142515 0.662766 235.197571 0.672766 235.122608 0.682766 235.135247 0.692766 234.979983 0.702766 234.935212 0.712766 235.281704 0.722766 235.725080 0.732766 235.410607 0.742766 235.965168 0.752766 238.021728 0.762766 238.398955 0.772766 238.794112 0.782766 239.170877 0.792766 238.662319 0.802766 241.260568 0.812766 242.344645

Minimum pitch - 225 Maximum pitch - 245 Difference - 20

1.0.10 mai 4



Time_s F0_Hz 0.452143 190.613948 0.462143 189.883609 0.472143 190.220425 0.482143 190.033738 0.492143 188.797086 0.502143 188.235355 0.512143 186.603489 0.522143 185.141995 0.532143 183.798419 0.542143 183.370660 0.552143 182.017460 0.562143 179.682867 0.572143 177.964489 0.582143 176.056244 0.592143 173.062095 0.602143 170.238276 0.612143 167.514724 0.622143 164.387286 0.632143 162.103581 0.642143 159.748917 0.652143 157.253218 0.662143 154.739655 0.672143 153.392099 0.682143 151.928888 0.692143 150.763546 0.702143 149.714320 0.712143 149.013103 0.722143 147.686602 0.732143 146.106193 0.742143 144.823884

Minimum pitch - 143 Maximum pitch - 190

1.1 Tone Analysis through PRAAT (Monosyllable):

- a) If [n] is preceded by a vowel the syllable take low tone
- b) If the syllable has a diphthong in between two consonants, the tone is usually mid
- c) If syllable ends in [r] preceded by a short vowel, it usually takes mid-high tone.
- d) If a consonant is followed by a diphthong with [i], it takes mid-high tone
- e) If a short vowel is between two consonants, it usually takes mid-tone
- f) If both the vowels in the diphthong are short vowels it usually takes low tone
- g) & h) in case of a syllable containing a diphthong with one long vowel followed a short one, it usually takes more than one tone which carries different meanings. For example, when /mai/ is mid tone it means 'pumpkin' and when it takes low tone it means 'face'.

This generalization is based on the data collected and that other possible conditions might be there.

LUKOREN LANGUAGE WORD LIST

1.1.1 WORD HS1 (A):

1	All	ərenk"uö
?	And	le?
3	[†] Animal	sa:
4	Ashes	meivan
5	At	jeŋ
6	Back	໌ ເທ <u>ົ</u>
7	Bad	saléi
8	* Bark	t ^b iŋkǵr
()	. Because	eja:rko?
10	Belly	won
11	Big	əlien
12	Bird	wá
13	Bite	əpèt
14	Black	∋won
15	Blood	t ^h i:
16	Blow	əsc:m
17	bone	saru:
18	Breast	əro:p
19	Breathe	p ^h u:k

20	Burn	əka:ŋ
21	Child	na:i
22	Claw	əhuot
23	Cloud	∫ump ^h ai
24	Come	wa:
25	Count	ətcl
26	Cut	?⊖?a:t (cut in to & fro motion),
		ətan (cut by striking),
		tuktən (cut by blows),
		rentən (cut with one go)
27	Day	k ^h owa:r
28	Die	ət ^h i:
29	Dig	ək ^h uor, əcei .akel
30	Dirty	əcok, əŋep, t ^h ieŋləi
31	Dog	ui
32	Drink	?iń(v), insik(n)
33	Dry	ərei, əca:r, əhu:l
34	Dull	t ^h aseit
35	Dust	wutk ^h u, wəiwidk ^h u
36	Cold	ədai, əhip, k ^h obu <u>r</u>
37	Ear	kuər
38	Earth	neinuəi
39	Eat	əca:k
40	Egg	a:rritui

41	Eye	mit
42	Fall	əta:
43	Far	əla:k
44	Fat/grease	əthai, arick
45	Father	pa
46	Fear	əci
47	Feather	a:rmul. wəmul
48	Few	əlek
49	Fight	kerwok, kersuəl, kerŋo, kerbuan
50	Fire	mei
51	Fish	ŋá
52	Five	riŋa:
53	Float	tonla:n
54	Flow	əta:, əta:n
55	Flower	reipa:r
56	Fly	mithei(n), azuán(v)
57	Fog	sump ^h aiji:n
58	foot	ké
59	Four	minli
60	Freeze	əp ^h am
61	Fruit	t ^h ei
62	Full	əsip
63	Give	әреk
64	Good	əsa:

$6\overline{5}$	Grass	lang
66	Green	?e:m
67	Guts	əril
68	Hair	bàk. sàm
69	Hand	kut
70	Не	әтара
71	Head	lú:
72	Hear	ənai
73	Heart	lún
74	Heavy	ərik
75	Here	wahin
76	Hit	əwuak
77	Hold/take	?o:, əlei
78	Horn	rikî
79	How	ອກອາງa
80	Hunt	əthat
81	Husband	ərvat ^h er
82	I	keĭ
83	Ice	vur
84	If	iŋkò
85	In	əsu:n, {.a? suffise with places}
86	Kill	ət ^h at
87	Knee	k ^h u:k

88	know	t ^h cidaŋ
89	Lake	pa:t
90	Laugh	ənui
91	Leaf	əbuo. nabuo
92	Left side	veitieŋ
93	Leg	ke
94	Lie(be in lying	əja:l, ətal
	position)	
95	Live	?om
96	Liver	ət ^h in
97	Long	əsei
98	Louse	ńk
99	Man/made	pasal
100	Many	ətam
101	Meat	mé, ətak, əvoi
102	Moon	t ^h a
103	Mother	nu:
104	mountain	ciŋ
105	mouth	bai
106	Name	miŋ
107	Narrow	əbik, əsi:n
108	Near	ənai
109	Neck	ri:ŋ
110	Now	ət ^h a <u>r</u>
111	Night	ja:n

112	Nose	nagr
113	Not	nimak
114	Old	əlui, ətar
115	One	k ^h at
116	Other	lamlak
117	Person	mi, mirin
118	Play	kerdai
119	Pull	əkei
120	Push	ənam
121	Rare	
122	Red	əsem
123	Right/correct	ədik
124	Right side	cantien
125	River	tuiduŋ
126	Road	lampi
127	Root	ridzuŋ, rijuŋ
128	Rope	rui
129	Rotten	əthú
130	Round	əcen
131	Rub	ətak, ənul
132	Salt	mici:
133	Sand	leiŋói
134	Say	əti, əril
135	Scratch	əhuat, əthai, əjiet
136	Sea	tuit ^h ampì

137	See	ອາກ໌ນ 1
138	Seed	əmù
139	Sew	əsúi
140	Sharp	əŋci
141	Short	əboŋ
142	Sing	lət ^h o
143	Sit	?on
144	Skin	wùn
145	Sky	wa:ncuŋ
146	Sleep	?in
147	Smell	əsi:n
148	Smell	ərim
149	Smoke	meikhu. əkhu(n). ajo:p(v)
150	Smooth	əni:l
151	Snake	ru:l
152	Snow	vur
153	Some	əlék
154	Spit	əcil (v), cil (n)
155	Split	əkhoi
156	Squeeze	əmet
157	Stab/pierce	əsun, ət ^h il, əwit
158	Stand	ອກູir
159	Star	ə:rsi

	Stick	mol
161	Stone	lùŋ
162	Straight	kerdiŋ. Əcúm
163	Suck	əjop
164	Sun	nî:
165	Swell	əpuor, əthiŋ
166	Swim	tuibuol
167	Tail	rumei
168	That	hawaha
169	There	wahan
170	They	anmani
171	Thick	əsà:, əthà:
172	Thin	əko:ŋ, areiy
173	Think	keṛṇai
174	This	hiwahi
175	Thou	nəŋ
176	Three	kint ^h um
177	Throw	ədeŋ, əhé, əvóːr
178	Tie	əkhit
179	Tongue	léi
180	Tooth	ha:, ha:?
181	Ггее	t ^h iŋkuŋ
182	Turn	kellet, kihe
183	Two	kinni
184	Vomit	əluó

185	Walk	მაა
186	Warm	əlum
187	Wash	ə∫o:m. risu:k
188	Water	tui
189	We	cini
190	Wet	Әсо:p
191	What	ənmo. əŋe
192	When	əŋtik
193	Where	honmò, honajć, honé
194	White	əbaŋ
195	Who	tu:mo, khoyé, khoimò
196	Wide	əpak. əpek
197	Wife	ənumci
198	Wind	p ^h áiwuò
199	Wing	mert ^h a
200	Wipe	ənu:l, ətuai
201	With	le?
202	Woman	numei
203	Woods	t ^h iŋhai, ramcàŋ
204	Worm	rumphù:r
205	Ye	naŋ
206	Year	kúm

1.1.2 WORD LIST (B):

1	Brother	náipà (younger). ú:pà (elder)
2	Clothing	puondier
3	Cook	əsuaŋ
4	Dance	əla:m
5	Eight	kiriet
6	Hundred	ruiakhat, ruŏik ^h at
7	Seven	sarı́
8	Shoot	əka:p
9	Sister	náinú (younger), ú:nù (elder)
10	Spear	t ^h al
11	Twenty	somńi
12	Work	cuan
13	Bindi	bindi
14	Flour	muoida
15	Dough	muoidəpolsa
16	Bun (hair)	sanıtúm
17	Banana	mo:t
18	Blouse	sóŋkòl
19	Book	larik
20	Brother's wife	ú:nù
21	Cat	ŋaitoŋ
22	Chili	mercá
23	Cold (ailment)	dainimet

24	Comb	samt ^h i
25	Copper	kuoṛi
26	Cough	kik ^h u:k
27	Crow	wə?ek
28	Cry	әсар
29	Dog	ui
30	Door/entrance	ink ^h a:r/ əlutná
31	Down	ənuoi
32	Drizzle	ruo Sirti
33	Earring	kuarkà:i, kuarbèt
34	Elephant	saipi
35	Eye-brow	mitmùl
36	Fever	k ^h abu:r
37	Finger	kutmal
38	Fish	ŋa
39	Flour (dry)	moida
40	Food	cá:k
41	Forest	ramcaŋ
42	Garlic	khaisó:n, kha:só:n
43	God	pat ^h ien, pumà
44	Goodness	pat ^h iennu
45	Gold	soná:
46	Grand father	pu
47	Grand mother	pi

48	Green vegetable	ənlena?eŋ
49	Hot	əlum
50	House	inn
51	Itch	ət ^h ək
52	Language	cóŋ
53	Lion	sabakkai
54	Lips	ner
55	Liquor	dʒú
56	Mango	t ^h eihai
57	Medicine	léila?ai
58	Milk	serinútùi
59	Mirror	men Siel
60	Money	dankà
61	Mosquito	∫a:n∫a:n
62	Mouse	Мізи
63	Nails	kuttin
64	Necklace	rika:
65	Oil	sariek
66	Onion .	tillò
67	Pain	əna
68	Peacock	vahuaŋ
69	Plait	əp ^h ie <u>r</u>
70	Pond	puk ^h ari
71	Potato	a:lu

72	Rice (cooked)	bu:
73	Rice (raw)	cacai
74	Round	əceŋ
75	Run	əta:n
76	Shawl	puănba:ŋ
77	Shirt	sónkòl
78	Sister's husband	ú:pà
79	Spectacles	a:no:t
80	Spices	maru mara:ŋ
81	Spoon/ladle	mik ^h e/k ^h etei
82	Sugar	samja:kbaŋ
83	Tasty	ənik, ətúi
84	Tea	cá:
85	Teeth	ha?hai
86	Thumb	kútpi
87	Turmeric	áièŋ
88	Ginger	ait ^h i:ŋ
89	Up	acuŋ
90	Village	k ^h ua

1.1.3 WORD LIST (C):

1	Abuse	ransán
2	Air .	p ^h aiwuo
3	Ant	sikŋi:r
4	Aroma	rimhoi
5	Bald	luté
6	Bathe [v. cause]	minbual
7	Bathing	əbual
8	Bathe	tuibual
9	Bazaar	p ^h ai
10	Begin	∂p ^h ut
11	Behind	ənuŋthieŋ
12	Blind	mitcó
13	Brass	kuəri
14	Brave	əra:t
15	Bull	sara:tcəl
16	Butterfly	belep
17	Buy	ricok
18	Cheap	ətem
19	Coconut	zúpi
20	Corpse	mit ^h iruak
21	Costly	əlú
22	Cry of 'x'	әсар
23	Curse	k ^h oma:ksa:m

24	Daily	əji:ŋnisuo
25	Danger	citruoi
26	Deaf	kuərset
27	Donkey	gada:
28	Double	kinnisun
29	Draught	ikaŋ
30	Earn	ata:1
31	End	ətorna
32	Enemy	?eŋsietpu
33	Farmer	leit ^h omi
34	Feed	amincak
35	Flood	tuilien
36	Front of	əmaikun
37	Goat	kel
38	Goldsmith	sonasut
39	Halves	əher
40	Hard	atat
41	Heels	kedil
42	Her	wanuta-
43	High	asa:ŋ
44	His	wapata
45	Honey	k ^h uoiniŋ
46	Horn	ariki
47	Hunger	wonca:m
48	III	ana/ŋamlei
49	Ironsmith	t ^h irsut

50	King/chief	ren/kulak
51	Landlord	leipuma
52	Lazy	t ^h asiet
53	Letter	cit ^h i
54	Lonely	kerhoron
55	Love	niŋsiet
56	Mad	əkiwe:t
57	Maize	meiteini:m
58	Memory	
59	Mine	kita/keita
60	Monkey	J 0:ŋ
61	Paint	ran
62	Pig	wók
63	Price	əmən
64	Priest	t ^h iempu
65	Read	apá
66	Remember	atheidaŋ/ajiet
67	Rice (crushed)	cakersuk
68	Rice (husk)	cəhum
69	Rice (paddy)	ca:ŋ
70	Rice (puffed)	bupok
71	Sell	әյио́г
72	Sheep	дò
73	Shop	tuka:l
74	Silver	dəŋka

75	Sometimes	aka:ma?
76	Sparrow	wacek
77	Sugar-cane	micú ·
78	Sweet potato	kolkái
79	Tailor	puonsúi
80	Teach	t ^h iemmincu
81	Teacher	t ^h iemmincupù
82	Thirst	ə <u>r</u> a:l
83	Tongs	ceicé/mei alcepna
84	Train	tre:n
85	Upside down	əlep ^h aləm/ale əkhup
86	War	ra:l .
87	Weave	əp ^h iĕ <u>r</u>
88	Well	ədam
89	Wheat	gehu:
90	Worship	əmò:k
91	Write	?i:
92	Yours	nita:

Bibliography:

Primary sources:

Bolinger, Dwight, Intonation. Middlesex, England: Penguin Books Ltd., 1972.

Goswami, G.C, Structure of Assamese, Guwahati: Dept. of Publication, University of Gauhati, 1982.

Kaji, Shigeki, ed., Cross-Linguistic Studies of Zonal Phenomena, Tokyo: Tokyo University of Foreign Studies, 2002-03.

Grierson, G. A, *Linguistics Survey of India*, Vol. III Part III. Delhi: Low Price Publication, Delhi: 1994

Pike, Keneth L, Tone Languages, Michigan: The University of Michigan, 1948.

Kabui, Gangmumei, *The koirengs of Manipur*, Manipur: Koren Historical Research Committee, Imphal, 1987

Secondary Sources:

Abbi, Anvita, A Manual of Linguistic Field work and Structures of Indian Language, (Leipzig) Germany: Lincon Europa, Freebadsts & Muenchen, 2001.

Anderson, Wallace L. and Norman C. Stageberg; *Introductory Readings on Linguistics*, New York: Holt, Rinchart and Winston, 1966.

Asher, R. E and Eugenie J. A. Handerson, *Towards a History of Phonetics*, Edinburgh: Edinburgh University Press, 1981.

Bhat, D.N.S, Sound Change, Delhi: Motilal Banarsidas Publishers Private Ltd, 2001.

Bickerton, Derek, Language and Species, Chicago: University of Chicago Press, 1990.

Carr, Philips, Phonology, London: Macmillan, 1993.

Catford, J.C, Fundamental Problems in Phonetics, Bloomington, IN: Indiana University Press, 1977.

Chapman, Raymond, *The Treatment of Sounds in Language and Literature*, London: Basil Blackwell Publisher Limited, 1984.

Chomskey, Naom and Halle M, *The Sound Pattern of English*, New York: Harper & Row, 1968.

Cuttenden, Allan, Intonation, Cambridge: Cambridge University Press, 1977.

Crystal, David, Dictionary of Linguistics and Phonetics, Oxford: Basil Blackwell, 1985.

Crystal, David, Cambridge Encyclopedia of the English Language, New York: Cambridge University Press, 1997.

Cole, Jennifer, Charles Kisseberth, *Prespectives in Phonology*, Centre for the Study of Language and Information, Leland Stanford Junior University, USA, 1994.

Fasold, R.A., The Sociolinguistics of Society, Oxford: Basil Blackwell, 1984.

Fasold, R.A, The Sociolinguistics of Language, Oxford: Basil Blackwell, 1990.

Fishman, J.A (Dil, A. S. ed.), *Language in Sociocultural Change*, Stanford: Stanford University Press, 1972.

Fromkin, V.A, Tone: A linguistic Survey, New York: Academic Press, 1978.

Fromkin, V, Robert Rodman, *An Introduction to Language*, Holt Rinehart and Winston Inc, The Dryden Press, 1998.

Fudge, Erik, English word-stress, U.K.: George Allen and Unwin (Publishers) Ltd., 1984.

Gimsom, A.C, An Introduction to the Pronunciation of English, London: Edward Arnold (Publishers) ltd., 1980.

O'Grady, W, J. Archibald, M. Aronoff and J. R. Miller. *Contemporary Linguistics*..Boston; Bedford /St.Martin'sBoston, 2001.

Gupta, R.S, Anvita Abbi and Kailash Aggarwal, Language and the State, New Delhi: Creative Books, 1995.

Hawkins, Peter, Introduction to Phonology, Essex: Anchor Brendon Ltd, 1984.

Hill, Leslie A, Stress and Intonation Step by Step, London: Oxford University Press, 1970.

Hyman, Larry M, *Phonology: Theory and Analysis*, New York: Holt, Rinehart and Winston, 1975.

Jones, Charles, A History of English Phnology, New York: Longman Inc., 1989

Kiparsky, Paul and Gilbert Youman, ed., *Phonetics and Phonology*, San Diago, California: Academic Press Inc., 1989.

Ladefoged, Peter, A Course in Phonetics, Toronto: Harcourt Brace Jovanovich, 1982.

Ladefoged, P and I. Maddison, *The Sounds of the World's Language*, Cambridge: Blackwell, 1995.

Lass, Roger, English Phonology and Phonological Studies, Cambridge: Cambridge University Press, 1976.

Maddieson, Ian, Patterns of Sounds, Cambridge: Cambridge University Press, 1984.

Natarajan, G. V, *Abujhmaria Grammar*, Mysore: Central Institute of Indian Languages, 1985.

Pullum, G.K and W.A Ladusaw, *Phonetic Symbol Guide*, Chicago: University of Chicago Press, 1986.

Sethi, Anjanee, Prosodic Phonomorphology, Delhi: Kalinga Publications, 1997.

Szpyra, Jolanta, *The Phonology-Morphology Interface*, Cornwall: T. J. Press (Padstow) Ltd., 1989.

Todd, Loreto, Modern Englishes: Pidgins and Creoles, Oxford: Basil Blackwell, 1984

Articles:

Morley, Stephen; "Tonal Change on the Tai Languages of Northeast India" in *Linguistics of Tibeto-Burman Area* (Vol. 28.2 Fall 2005), Tokyo: Research Centre for Linguistic Typology, La Kobe University, 2005.

