

CHAPTER: V
USE OF SCRIPT AND PROCESS OF SCRIPT GRAMMAR IN
BODO LANGUAGE

5.1 Uses and applications of Bodo script

To write down the phonemes used by a particular language some letters are used which is called script and this may be of different types. Devanāgarī script is continuing to use to write Bodo language from 1975 to present days. So, this script is represented as Bodo script. In this chapter analysis is made from Structural perspectives of scripts in synchronic manner with the basic rules of Script grammar.

5.1.1 Bodo phonemes and its scripts

In Bodo there are six vowel phonemes i.e. / i, u, e, o, a / and Sixteen consonant phonemes i.e. / p^h, b, t^h, d, k^h, g, m, n, ŋ, s, z, h, r, l, w, y / of Segmental features. Devanāgarī script is being used to write these 22 phonemes.

5.1.1.1 Vowel phonemes and its scripts

Representation of / i, u, e, o, a / vowel phonemes in Devanāgarī script is presented in tabular form as follows:

Vowel Phonemes in IPA	Devanāgarī script of Vowel
/i/	इ
/u/	उ
/e/	ए
/o/	ओ
/a/	आ

Figure: 5.1

Except of these six pure vowel phonemes another two vowel phonemes ऐ /*ui*/ and औ /*uu*/ the combinations of two syllabic phonemes in a single syllable i.e. form of diphthongs are used. ऐ phoneme is articulated with the combination of ओ + इ two syllabic phonemes in a single impulse. औ phoneme is also articulated with the combination of ओ + उ two syllabic phonemes in a single impulse. It is observed that in Bodo language primary form of ऐ phoneme is not used in a word but its mātrā ऐ̄ is used in the medial and final position of a word. On the other hand, primary form of औ phoneme is used only in the initial position of a word and its mātrā औ̄ is used in the medial and final position of a word.

5.1.1.2 Consonant phonemes and its scripts

Representation of / p^h, b, t^h, d, k^h, g, m, n, ŋ, s, z, h, r, l, w, y / consonant phonemes in Devanāgarī script is presented in tabular form as follows:

Consonant Phonemes in IPA	Devanāgarī script of Consonant
/p ^h /	फ
/b/	ब
/t ^h /	थ
/d/	द
/k ^h /	ख
/g/	ग
/m/	म
/n/	न
/ŋ/	ङ
/s/	स
/z/	ज
/h/	ह
/r/	र
/l/	ल

/w/	व
/y/	य

Figure: 5.2

5.1.1.3 Uses of Semi-vowels

व /w/ and य /y/ are designate of Semi vowels of Segmental features and using its script has some specific manner in Bodo language. Except initial position both the consonants are used middle and final position of a word. If a word is open syllable, that means end with the vowel phonemes i.e. **इ, ए, आ, ऐ** and added ‘-आ’ suffix with them then due to gliding condition **य** consonant phoneme is occur as semi-vowel and mātrā ा of **आ** vowel is used. For example:

- इ :** अन्थाइ + आ = अन्थाया /ont^hai + a = ont^haya/ ‘rock is’
 खन्थाइ + आ = खन्थाया /k^hont^hai + a = k^hont^haya/ ‘poem is’
 माइ + आ = माया /mai + a = maya/ ‘paddy is’
 थुनलाइ + आ = थुनलाया /t^hunlai + a = t^hunlaya/ ‘literature is’
- ए :** बबे + आ = बबेया /bobe + a = bobeya/ ‘which one’
 बेजे + आ = बेजेया /beze + a = bezeya/ ‘knotty is’
 बेरे + आ = बेरेया /bere + a = bereya/ ‘bee is’
 नाब्ले + आ = नाब्लेया /nable + a = nableya/ ‘a woman with flat nose is’
- आ :** आदा + आ = आदाया /ada + a = adaya/ ‘elder brother is’
 खुगा + आ = खुगाया /k^huga + a = k^hugaya/ ‘mouth is’
 गुमा + आ = गुमाया /guma + a = gumaya/ ‘grasshopper is’
 दाउखा + आ = दाउखाया /dauk^ha + a = dauk^haya/ ‘crow is’
- ऐ :** दाउदै + आ = दाउदैया /daudui + a = dauduiya/ ‘egg is’
 फाथै + आ = फाथैया /p^hat^hui + a = p^hat^huiya/ ‘betel leaf is’
 मै + आ = मैया /mui + a = muiya/ ‘deer is’

जामफै + आ = जामफैया /zamp^hui + a = zamp^huiya/ ‘canal is’

If a word is open syllable with **उ, अ, औ** and added ‘-आ’, suffix with them then due to gliding condition **व** consonant phoneme is occur as semi-vowel and mātrā ा of **आ** vowel is used. For example:

उ : आगजु + आ = आगजुवा /agzu + a = agzuwa/ ‘implement is’

एमबु + आ = एमबुवा /embu + a = embuwa/ ‘frog is’

दैहु + आ = दैहुवा /d^huihu + a = d^huihuwa/ ‘pitcher is’

बानलु + आ = बानलुवा /banlu + a = banluwa/ ‘chilly is’

अ : खफ’ + आ = खफ’वा /k^hop^ho + a = k^hop^howa/ ‘vapour is’

गथ’ + आ = गथ’वा /got^ho + a = got^howa/ ‘child is’

न’ + आ = न’वा /no + a = nowa/ ‘house is’

बनथ’ + आ = बनथ’वा /bont^ho + a = bont^howa/ ‘a log is’

औ : आबौ + आ = आबौवा /abuu + a = abuuwa/ ‘grandfather is’

एमफौ + आ = एमफौवा /emp^huu + a = emp^huuwa/ ‘insect is’

थाइजौ + आ = थाइजौवा /t^haizuu + a = t^haizuuwa/ ‘mango is’

सिजौ + आ = सिजौवा /sizuu + a = sizuuwa/ ‘cactus is’

5.1.1.4 Changes of the script due to glide

Due to glide **इ, ए, आ** and **ऐ** vowels are replace with **य** Semi vowel in some conditions i.e. if ‘-आ’ suffix is added after a open syllable word, that means a word end with the **इ, ए, आ, ऐ** vowels then due to gliding condition **य** consonant is occur as semi-vowel and mātrā ा of **आ** vowel is used. Examples are same as presented above in the **Uses of Semi-vowels**.

In the same manner, **उ, अ** and **औ** vowels are replace with **व** Semi vowel in some conditions i.e. if ‘-आ’ suffix is added after a open syllable word, that means a word

end with the उ, अ, औ vowels then due to gliding condition व consonant is occur as semi-vowel and mātrā ा of आ vowel is used. Examples are the same as presented above in the Uses of Semi-vowels.

5.1.1.5 Script used for loan words

As men are a social animal borrowing is a natural practice among them. Lone word is nothing but a word which is used through borrowing from some other languages. Through the acceptability of its speakers loan words assimilated into one language to another language. Following are the list of some borrowing loan words from other neighboring languages in Bodo language and literature. These are occurs conveniently in day-to-day oral communication as well as written communication.

i. Lone words from Sanskrit language

<u>Sanskrit origin</u>	<u>Bodo</u>	<u>Glosses</u>
आसन /āšana/	आसन /ason/	‘seat’
आश्रम /āśrama/	आश्रम /asrom/	‘hermitage or monastery’
माया /māyā/	माया /maya/	‘maya’
लक्ष्मी /lakṣmī/	लक्ष्मी /lokk ^h i/	‘goddess of wealth’
बुद्धि: /buddhih/	बुद्धि /buddi/	‘knowledge’
जाति: /jātih/	जाति /zati/	‘caste’

From the above examples of borrowing words from Sanskrit language, it is observed that ी mātrā of ई vowel and श्र, क्ष, त consonants are not available as well as not articulated in Bodo language but these are used in writing the loan words. It is also observed and to be stated that during the time of articulation, ी mātrā of long ई is articulated as ि mātrā of short इ, श्र as स, क्ष as ख and त as थ correspondingly in Bodo language.

ii. **Lone words from Assamese language**

<u>Assamese origin</u>	<u>Bodo</u>	<u>Glosses</u>
বেমাৰ/bemar/	बेराम /beram/	‘disease’
জন্ম/zonmo/	जनोम /zunum/	‘birth’
বছৰ /bosor/	बोसोर /busur/	‘year’
ধাৰ /d ^h ar/	दाहार /dahar/	‘loan’
সত্য /sotyo/	सैथो /sui ^h u/	‘true’
ভূত /b ^h ut/	बुहुत /buhut/	‘ghost’

From the above examples of borrowing words from Assamese, it is observed that **ত** consonant is not occur and not articulated in Bodo language but it is used in writing the loan words. Conveniently **ত** is articulated as **थ** in this language.

iii. **Lone words from Bengali language**

<u>Bengali origin</u>	<u>Bodo</u>	<u>Glosses</u>
পায়েল /payel/	पायेल /payel/	‘toe ring’
নিমকী /nimki/	निमकी /nimki/	‘sweet meat’
রসোগোলা /rosogolla/	रसंगला /rosogolla/	‘sweet meat’
বোবা /boba/	बंबा /boba/	‘dumb’
মুড়ি /muri/	मुरि /muri/	‘puffed rice’
বানান /banan/	बानान /banan/	‘spelling’

From the above examples of borrowing words from Bengali language, it is observed that **ী** mātrā of **ই** vowel as well as **প**, **ক** consonants are not available as well as not articulated in Bodo language but these are used in writing the loan words. These are articulated conveniently for mode of articulation **ী** mātrā of long **ই** is articulated as **ि** mātrā of short **इ**, **প** as **फ** and **ক** as **ख** in Bodo language.

iv. **Lone words from English language**

<u>English origin</u>	<u>Bodo</u>	<u>Glosses</u>
Office /office/	अपिस /opis/	‘office’
Cup /cup/	काप /kap/	‘cup’
School /school/	इसकुल /iskul/	‘school’
Glass /glass/	ग्लास /glass/	‘glass’
Plastic /plastic/	प्लासतिक /plastik/	‘plastic’
Police /police/	पुलिस /pulis/	‘police’

Here, in these examples of borrowing words from English language, it is observed that **प, क, त** consonants are not occurs or not articulated in Bodo language but these are used in writing the loan words. For mode of articulation these are articulated as their articulated consonants, like **प** as **फ**, **क** as **ख** and **त** as **थ**.

v. **Lone words from Japanese language**

<u>Japanese origin</u>	<u>Bodo</u>	<u>Glosses</u>
C ^h a /c ^h a/	चा /sa/	‘tea’
Tsunami /tsunami/	चुनामि /sunami/	‘tsunami’
Rikisha /rikisha/	रिकसा /riksa/	‘Rickshaw’

Here, in these examples of borrowing words from Japanese language, it is observed that **च, क** are the consonants which are not articulated or not occurs in Bodo language but these are used in writing the loan words. **च** is articulated as **स** and **क** is articulated as **ख** conveniently for manner of articulation.

vi. **Lone words from Chinese language**

<u>Chinese origin</u>	<u>Bodo</u>	<u>Glosses</u>
C ^h ao.mein /C ^h ao.mein/	चाउमिन /C ^h aumin/	‘Chaomienn’
Litchi /litc ^h i/	लिसु~लेसु /Lisu~lesu/	‘Litchi’

Here, in these examples of borrowing words from Chinese language, it is observed that च consonant is not occur as well as not articulated in Bodo language but it is used in writing the loan words. Coveniently च is articulated as स in Bodo language.

vii. **Lone words from Arabic language**

<u>Arabic origin</u>	<u>Bodo</u>	<u>Glosses</u>
khabar /k ^h abar/	खबर /k ^h obor/	‘news’
khālī /k ^h ālī/	खालि /k ^h ali/	‘empty’
tārīkh /tārīk ^h /	तारिख /tarik ^h /	‘date’
naql /naql/	नकल /nokol/	‘fake’
baqīy /baqīy/	बाकी /baki/	‘remaining’
ilākah /ilākah/	एलेका /eleka/	‘area’

From the examples of borrowing Arabic words from Arabic language, it is observed that ी mātrā of ई vowel and त, क consonants are not articulated in Bodo language but these are used in writing the loan words. It is also observed and to be stated that during the time of articulation, due to mode of articulation ी mātrā of long ई is articulated as ि mātrā of short इ, त as थ and क is articulated as ख correspondingly in Bodo language.

viii. **Lone words from Portuguese language**

<u>Portuguese origin</u>	<u>Bodo</u>	<u>Glosses</u>
chave /c ^h ave/	चाबि /c ^h abi/	‘key’
fita /fita/	फिता /p ^h ita/	‘lace or ribbon’
varanda /varanda/	बारेनदा /barena/	‘verandah’

salada /salada/	सालाद /salad/	‘salad’
couve /couve/	कपि /kopi/	‘cabbage or cauliflower’
ananás /ananás/	आनारस /anaros/	‘pineapple’

From the above examples of borrowing words from Portuguese language, it is observed that **च, त, क, प** consonants are not articulated in Bodo language but these are used in writing the loan words. Conveniently for the mode of articulation, **च** is articulated as **स**, **त** is articulated as **थ**, **क** is articulated as **ख** and **प** is articulated as **फ**.

ix. Lone words from Persian language

<u>Persian origin</u>	<u>Bodo</u>	<u>Glosses</u>
āynah /āynah/	आयना /ayna/	‘mirror’
ārām /ārām/	आराम /aram/	‘comfort’
garm /garm/	गरम /gorom/	‘hot’
jāegāh /jāegāh/	जायगा /jayga/	‘place’
pardah /pardah/	पर्दा /porda/	‘curtain’
hindū /hindū/	हिन्दु /hindu/	‘hindu’

Here, in these examples of borrowing words from Persian language, it is observed that **प** consonant is not available as well as not articulated in Bodo language but it is used during the time of writing loan words. For mode of articulation, **प** is articulated as **फ** in Bodo language.

From the overall examples of loanwords, it is clearly observed that scripts of vowels and consonants which are not articulated and used by this language are also used infrequently during the time of writing loanwords.

5.2 Systematic study of Bodo script with Script grammar

Script Grammar is the grammar about script. “It refers to the behavior pattern of the writing system of a given language.”¹ Swarna Prabha Chainary linguist of Bodo language has mentioned that “Script grammar is a unique characteristic of Indian languages directly based on phonetics.”² Script grammar deals with the history of the script and language. It also deals with the rules ordering of the characters within the syllable, Description of the syllabic clusters, Collation order of the characters like lexical, dictionary sorting order, syllabic structure, statistical frequencies of vowels, consonants, clusters of a language.

India is a diverse country with four major language families i.e. Indo-Aryan, Tibeto-Burman, Dravidian and Munda. As stated by Census of India 2001, there are more than 6616 language in India and more than 20,000 dialects having been identified by SIL report. Among this languages and dialects a set of 22 scheduled languages have been identified as officially, educationally, as well as government levels. These languages are progressing in designing Script grammar. Bodo language is also one of them. As per as writing system of India is concerned, it is identified in two major families i.e. Brahmi based writing system, and Perso-Arabic based writing system.

Devanāgarī script is belongs to the Brahmi family. A large number of Indian languages used Devanāgarī script. Bodo language has suitably emended the Devanāgarī alphabet for their needs and requirements by adding or deleting characters. As for example ’ mark is used to represent the Mātrā of short mid back rounded vowel **ꯀ** /o/ in Bodo.

¹ © GIST GROUP. C-DAC: Script Grammar: A Manual, p. 3.

² Chainary, Swarna Prabha: Language technology and Boro language (research paper), Research Journal of the Department of Bodo, 2016, p. 8.

The classification of Brahmi family in 'Nagari Sangam' (92 issue, 2001), mouthpiece of Nagari Lipi Parishadas relevant to the Devanāgarī script is presented in chart as follows:

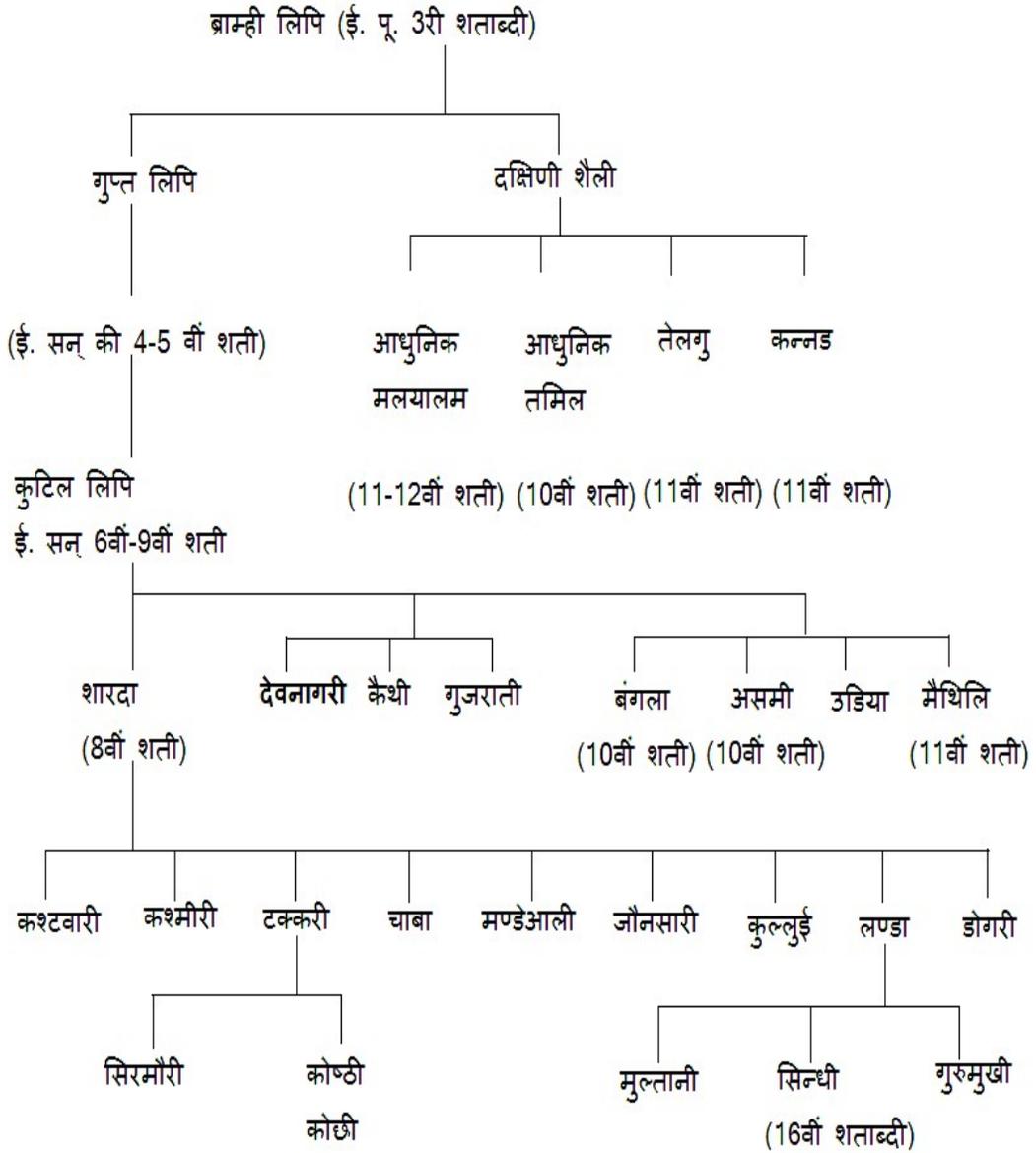


Figure: 5.3

(Extracted from 'Nagari Sangam', Page No. 29)

5.2.1 Syllable structure in Script grammar

In Script grammar syllable structure means uses of vowels and consonants as vowel syllables and consonant syllables.

Vowel syllable is of two types:

- i. Pure vowels.
Examples of Pure vowels: **अ, आ, इ, ई** etc.
- ii. A vowel followed by a modifier. Modifier may be Chandrabindu/ Anunasika ँ, Anuswar ं or a Visarga ः.
Examples of vowel followed by modifiers: **अँ, आँ, इः** etc.

Consonant syllable is of five types:

- i. A full consonant having an inherent vowel.
As for examples: in Devanāgarī **ग/ga/, द/da/, न/na/, ब/ba/** etc.
: in Bodo **ग/go/, द/do/, न/no/, ब/bo/** etc.
- ii. A consonant followed by a mātrā i.e. the inherent vowel substituted by another vowel.
As for examples: **का/ka/, गि/gi/, जो/zu/, जौ/zuu/** etc.
- iii. A consonant followed by a modifier
As for examples: **कः/kaH/** etc.
- iv. A consonant followed by a mātrā and a modifier
As for examples: **गुं/gũ/, हुः/huH/** etc.
- v. A consonant cluster
As for examples: **क्क/kka/, क्खा/kk^hā/, त्दं/tdā/** etc.

5.2.2 Main domains in Script Grammar

There are some main domains which are discussed in Script Grammar of a language.

Bodo Script Grammar is also consists following three main domains:

- i. Basic symbols
- ii. Mātrā combination and
- iii. Cluster

5.2.2.1 Basic symbols

Basic symbol contains

1. Consonant set
2. Vowel set
3. Mātrā
4. Diacritics
5. Allographs
6. Punctuation markers
7. Numerals/ Digits

5.2.2.1.1 Consonant set

In Script Grammar, consonant set included both valid and invalid all types of consonants. Valid consonant means consonants which are articulated as well as occur in original Bodo words and invalid consonant means consonants which are occurs during the time of writing loan words.

Consonant set is presented in tabular chart as follows:

क	ख	ग	घ	ङ
च	छ	ज	झ	ञ
ट	ठ	ड	ढ	ण
त	थ	द	ध	न
प	फ	ब	भ	म
य	र	ल	व	
श	ष	स	ह	

Figure: 5.4

From the tabular chart of Consonant set it is observed that sixteen consonant, i.e. **ख, ग, ङ, ज, थ, द, न, फ, ब, म, य, र, ल, व, स, ह** are valid consonants and seventeen consonant, i.e. **क, घ, च, छ, झ, ञ, ट, ठ, ड, ढ, ण, त, ध, प, भ, श, ष** are invalid consonants in Bodo language. Invalid consonants are used to write loan words.

5.2.2.1.2 Vowel set

There are total 11 vowels in Devanāgarī script. In Script Grammar, vowel set means both valid and invalid all types of vowels. This means vowels used to write original Bodo words as well as loan words.

Vowel set is presented in tabular chart as follows:

अ	आ	इ	ई
उ	ऊ	ऋ	
ए	ऐ	ओ	औ

Figure: 5.5

From the above tabular chart it is observed that अ, आ, इ, उ, ए, ओ six pure vowels and the form of diphthong vowels ऐ, औ are valid and ई, ऊ, ऋ three vowels are invalid vowels in Bodo language. Invalid vowels are used to write loan words.

5.2.2.1.3 Mātrā

Each vowel has its secondary form which is used with combining consonant. This secondary form is known as mātrā. The articulation of vowel and its mātrā are same but shapes are different. In Bodo valid vowel mātrās are always occurs in medial and final position of a word in cluster form. Invalid vowel mātrās are used to write loan words. Examples are presented in tabular chart as follows:

i. Valid vowel Mātrās

Vowels in IPA	Vowels in Devanāgarī script	Mātrā
/i/	इ	ि
/u/	ओ	ो
/u/	उ	ु
/e/	ए	े
/o/	अ	’
/a/	आ	ा

Figure: 5.6

ii. Valid Diphthong Mātrās

Diphthong Vowels in IPA	Vowels in Devanāgarī script	Matra
/ui/	ऐ	ै
/uu/	औ	ौ

Figure: 5.7

iii. Invalid vowel Mātrās

Vowels in IPA	Vowels in Devanāgarī script	Matra
/i/	ई	ी
/u/	ऊ	ू
/ri/	ऋ	ृ

Figure: 5.8

5.2.2.1.3.1 Description and distribution of Valid Vowel Mātrās

Valid Vowel mātrās of Bodo language is occur only in the medial and final position of a word. They never occur in the initial position of a word.

ि /i/ : Mātrā of short high front un-rounded vowel, occur in the medial and final position of a word. For example:

Initial	Medial	Final
—	गिलिर /gilir/ ‘heavy’	आइनासि /ainasi/ ‘offensive smelling’
—	खुन्धिया /k ^h unt ^h ia/ ‘post’	जानजि /zansi/ ‘waist’
—	दिडा /diḍa/ ‘boat’	दावबायारि /dawbayari/ ‘traveller’
—	बिजाब /bizab/ ‘book’	फालांगि /p ^h alangi/ ‘business’

ो /u/ : Mātrā of short high back un-rounded vowel, occur in the medial and final position of a word. For example:

Initial	Medial	Final
—	जोमै /zumui/ ‘cloud’	सोमोन्दो /sumunduu/ ‘relation’
—	फोलेर /p ^h uler/ ‘descendent’	हांखो /haṅk ^h u/ ‘script’

—	आगोमा / <i>aguma</i> / ‘one’s own’	गांसो / <i>gaṅsu</i> / ‘grass’
—	मोसा / <i>musa</i> / ‘to dance’	मैसो / <i>muisu</i> / ‘buffalo’

◌ /u/ : Mātrā of short high back rounded vowel , occur in the medial and final position of a word. For example:

Initial	Medial	Final
—	सुजुगिरि / <i>suzugiri</i> / ‘editor’	हारिमु / <i>harimu</i> / ‘culture’
—	उखुम / <i>uk^hum</i> / ‘roof of a house’	एमबु / <i>embu</i> / ‘frog’
—	इयुन / <i>iyun</i> / ‘future’	खाबु / <i>k^habu</i> / ‘chance, trick’
—	गुमा / <i>guma</i> / ‘grasshopper’	हान्यु / <i>hant^hu</i> / ‘knee’

◌ /e/ : Mātrā of short mid front un-rounded vowel, occur in the medial and final position of a word. For example:

Initial	Medial	Final
—	मेजेम / <i>mezem</i> / ‘fat’	लेफे / <i>lep^he</i> / ‘flabby, soft’
—	हायेन / <i>hayen</i> / ‘plain area’	थुंगे / <i>t^hunge</i> / ‘to end’
—	हेफाजाब / <i>hep^hazab</i> / ‘co-operation’	थौले / <i>t^huule</i> / ‘shallow’
—	जोबथेसालि / <i>zubl^hesali</i> / ‘prison’	खौसे / <i>k^huuse</i> / ‘unity’

◌ /o/ : In Bodo language ’ mark is used to represent the mātrā of short mid back rounded vowel. It is occur in the medial and final position of a word. For example:

Initial	Medial	Final
—	सल'बाथा / <i>solobat^ha</i> / ‘fable’	एरख' / <i>erk^ho</i> / ‘to pick out’
—	आर'ज / <i>aroz</i> / ‘prayer’	बर' / <i>boro</i> / ‘the Boros’
—	खर'सा / <i>k^hrosa</i> / ‘head of bed’	खफ' / <i>k^hop^ho</i> / ‘vapour’
—	आस'खान्दा / <i>asok^handa</i> / ‘incomplete’	साम' / <i>samo</i> / ‘snail’

◌**᱁** /a/ : Mātrā of short low central un-rounded vowel, used in the medial and final position of a word. For example:

Initial	Medial	Final
—	खान्थि /k ^h ant ^h i/ ‘rule, custom’	जिउमा /ziuma/ ‘soul’
—	सालाइ /salai/ ‘tongue’	अमा /oma/ ‘pig’
—	थांखि /t ^h aŋk ^h i/ ‘aim’	सिख्ला /sik ^h la/ ‘young girl’
—	गामि /gami/ ‘village’	फिरफिला /p ^h irp ^h ila/ ‘flag’

5.2.2.1.3.2 Description and distribution of Valid Diphthong Mātrās

There are two diphthongs used in Bodo language and its Mātrās always occur only the position of medial and final of the word.

◌**ᱡ** /ui/: long, used in the medial and final position of a word. For example:

Initial	Medial	Final
—	गैया /guiya/ ‘nil, absent’	आबै /abuui/ ‘grandmother’
—	दैहु /duihu/ ‘pitcher’	बेरेमोदै /beremuduui/ ‘honey’
—	सैमा /suima/ ‘dog’	मोदै /muuduui/ ‘tears’
—	मैया /muiya/ ‘yesterday’	जोमै /zumui/ ‘cloud’

◌**ᱢ** /uu/: long, used in the medial and final position of a word. For example:

Initial	Medial	Final
—	खौरां /k ^h uuraŋ/ ‘news’	सानथौ /sant ^h uu/ ‘philosophy’
—	गौथुम /guut ^h um/ ‘public gathering’	बाथौ /bat ^h uu/ ‘traditional religion of Bodos’
—	खौमोन /k ^h uumuun/ ‘oral arithmetic’	एमफौ /emp ^h uu/ ‘worm, insect’
—	सानजौफु /sanzuup ^h u/ ‘noon, midday’	आबौ /abuu/ ‘grandfather’

5.2.2.1.3.3 Active or Displaced Catenator

The mātrā which is placed to the left of the consonant with which it concatenates is Active or Displaced Catenator. Generally in Brahmi based scripts Vowel mātrās also known as catenators are written in linear order from left to right. It is observed that in

On the other hand, if **ड** is occur with other clusters of the word then in place of **ड** its **ँ** Diacritic mark is occur and if the **-आ** suffix is added with **ँ** Diacritic mark then its primary form **ड** is occur. Such as:

ँ + आ : गन्धं+आ= गन्धडा (nose is)

ँ + आ : मोखां+आ= मोखाडा (face is) etc.

Primary form **ड** is occurring only in the medial position of the word. It has no occurrences in initial and final position of the word. On the other hand, Diacritic mark **ँ** occur only two position of the word i.e. Medial and Final. It has no occurrences in the initial position of the word. An occurrence of Diacritic mark **ँ** is given below with examples:

Initial	Medial	Final
—	नालेखर /naleṅk ^h or/ ‘coconut’	सिफुं /sip ^h uṅ/ ‘a bamboo flute’
—	फालांगि /p ^h alaṅgi/ ‘business’	हायजे /hayzeṅ/ ‘ginger’
—	बारहुंखा /barhuṅk ^h a/ ‘storm’	मोजां /muzaṅ/ ‘good’
—	थुलुंगा /t ^h uluṅga/ ‘inspiration’	बिफां /bip ^h aṅ/ ‘tree’

5.2.2.1.5 Allograph

The variant form or shape of a letter used in the writing system is Allograph in script grammar. Generally Devanāgarī script has only one allograph found in consonant **र**.

There are three different shapes of Allograph used for consonant **र**, i.e.

- i. **Top rafar**, used on top of a letter in  form.

Examples of Top rafar: फँ, बँ, रँ, दँ, खँ, गँ, सँ, जँ, हँ etc.

- ii. **Side rakar**, used on left side of a letter in  form.

Examples of Side rakar: फ्र, ब्र, ध्र, द्र, ख्र, ग्र, स्र, ज्र, ह्र etc.

- iii. **Bottom rakar**, used on below of a letter in  hanging or stacked form.

Examples of Bottom rakar: छ्र, ट्र, ठ्र, ड्र, ढ्र etc.

An occurrence of **Top rafar** Allograph is presented below in tabular chart with examples:

Consonants + consonant र = Top rafar Allograph	Medial position of the word	Word in IPA	Glosses
फ + र = फ्र	दोफ्रो-दोफ्रो	/duɾp ^h u-duɾp ^h u/	‘pulsitation’
ख + र = ख्र	थख्रा	/t ^h ork ^h a/	‘one kind of Bodo musical instrument made by bamboo’
ग + र = गर्	बेर्ग	/bergo/	‘having large prominent eyes’
स + र = सर्	दोस्रोँन	/duɾsun/	‘having pimples on lips after sick’
ज + र = ज्र	गार्जा	/garza/	‘a community worship of the Bodos’
	नार्जारि	/narzari/	‘a title of Bodo people’
	नार्जि	/narzi/	‘the preserved dried leaves of jute’
ल + र = ल्र	गार्ला	/garla/	‘cane’

Figure: 5.10

An occurrence of **Side rakar** Allograph is presented below in tabular chart with examples:

Consonants + consonant र = Side rakar Allograph	Medial position of the word	Word in IPA	Glosses
फ + र = फ्र	अफ्रि	/op ^h ri/	‘rice malt’
	खफ्रि	/k ^h op ^h ri/	‘Bodo bamboo-made hat used as umbrella’
	साफ्रे	/sap ^h re/	‘to twist’
	निफ्राय	/nip ^h ray/	‘from’
ब + र = ब्र	एमब्रा	/embra/	‘to persist’
	खुमब्रा	/khumbra/	‘pumpkin’
	हाब्रु	/habru/	‘mud’
	लेब्रा	/lebra/	‘left handed’
थ + र = थ्र	थनथ्र	/t ^h ont ^h ro/	‘to shrink’
	बाथ्रा	/bat ^h ra/	‘word’
	सानथ्रि	/sant ^h ri/	‘soldier’
	गुनथुथ्रि	/gunt ^h ut ^h ri/	‘lip of a pig’
द + र = द्र	दद्र	/dodro/	‘inactive’
	हाद्रि	/hadri/	‘dust’
	सोद्रोमा	/sudruma/	‘member’
	गुनद्रा	/gundra/	‘particles, broken pieces’
ख + र = ख्र	अखां	/ok ^h raj/	‘sky’
	ओख्रि	/wɳk ^h ri/	‘curry’
	खांखाइ	/k ^h aŋk ^h rai/	‘crab’
	गोख्रों	/guok ^h ruŋ/	‘strong’

ग + र = ग्र	गुग्रा	/gugra/	‘asthma’
	थुंग्रि	/t ^h uŋgri/	‘sword’
	बांग्रि	/baŋgri/	‘earthquake’
	बैग्रि	/buiŋgri/	‘plum’
स + र = स्र	खानस्रि	/k ^h ansri/	‘earthworm’
	उदांस्रि	/udaŋsri/	‘independence’
	दाउस्रि	/dausri/	‘martin’
	सानस्रि	/sansri/	‘to swim’
ज + र = ज्र	खुज्राब	/k ^h uzrab/	‘to jerk and drop’
	जिनज्रि	/zinzri/	‘chain’
	दै-बाज्रुम	/dui-bazrum/	‘waterfall’
	गाज्रि	/gazri/	‘bad’
ह + र = ह्र	लहायनाय	/lohraynay/	‘to get dried’
	बह्रा	/bohra/	‘fruit juice in maximum’
	बायह्रा	/bayhra/	‘of the outside’
	दाह्रा	/dahra/	‘mat’

Figure: 5.11

It is observed that **Top rafar** and **Side rakar** shape i.e. ^ˆ and / of **र** Allograph are occurs only by consonants. Both are not occurs by vowels and semi-vowels. In Bodo language, occurrences of Top rafar and Side rakar shape of **र** Allograph is in medial position of the word only. Both have no occurrences in initial and final position of the word.

Side rakar does not occur by this language with the valid consonants, i.e. म + र = म्र, न + र = न्र, ड + र = ड्र, र + र = र्र, ल + र = ल्र, व + र = व्र, य + र = य्र.

Bottom rakar is invalid allograph in Bodo Script grammar. It has no occurrences in Bodo basic words but during the time of using loan words [^] this shape of **ꯃ** Allograph is used by this language.

5.2.2.1.6 Punctuation markers

The symbols which are indicate the structure and organization of written language is punctuation marker. Intonation and pauses are observed by punctuation markers while reading aloud. Punctuation markers used in Bodo language are almost same to Latin sets i.e. , ; : ? ! “ ” ‘ ’ - / () [] { }. But it is observed that in case of full-stop, it has some variation. In Bodo, instead of full-stop symbol small dot ‘ . ’ they used the danda represented by one small straight vertical line equal to ‘ | ’ .

5.2.2.1.7 Numerals/ Digits

Numeral is that symbol which is stands for a number. Numerals or Digits used in Bodo language are similar to Latino-Arabic set i.e. 0 1 2 3 4 5 6 7 8 9.

5.2.2.2 Mātrā combination

In Script grammar Matra combination is of three type's i.e.

- i. CM : Consonant + Mātrā
- ii. CMD : Consonant + Mātrā + Diacritic (Anuswar)
- iii. CMD : Consonant + Mātrā + Diacritic (Chandrabindu)

In Bodo Script grammar CM: Consonant + Mātrā and CMD: Consonant + Mātrā + Diacritic (Anuswar) is valid Mātrā combination.

It is observed that CMD: Consonant + Mātrā + Diacritic (Chandrabindu) Mātrā combination is invalid in this language. This combination occurs during the time of writing loan words only.

Examples of Valid and Invalid Mātrā combinations are presented as follows in tabular chart:

i. CM : Consonant+Mātrā

Mātrā (Valid/Invalid) ↓	Valid consonant ↓
	ख ग ङ ज थ द न फ ब म य र ल व स ह
ा	खा गा डा जा था दा ना फा बा मा या रा ला वा सा हा
ि	खि गि डि जि थि दि नि फि बि मि यि रि लि वि सि हि
ी	खी गी डी जी थी दी नी फी बी मी यी री ली वी सी ही
ु	खु गु ङु जु थु दु नु फु बु मु यु रु लु वु सु हु
ू	खू गू ङू जू थू दू नू फू बू मू यू रू लू वू सू हू
ृ	खृ गृ ङृ जृ थृ दृ नृ फृ बृ मृ यू रृ लृ वृ सू हृ
े	खे गे डे जे थे दे ने फे बे मे ये रे ले वे से हे
ै	खै गै डै जै थे दै नै फै बै मै यै रै लै वै सै है
ो	खो गो डो जो थो दो नो फो बो मो यो रो लो वो सो हो
ौ	खौ गौ डौ जौ थौ दौ नौ फौ बौ मौ यौ रौ लौ वौ सौ हौ

Figure: 5.12

ii. CMD : Consonant+Mātrā+Diacritic (Anuswar)

Mātrā+ Anuswar (Valid/Invalid) ↓	Valid consonant ↓
	ख ग ङ ज थ द न फ ब म य र ल व स ह
◌ं	खं गं ङं जं थं दं नं फं बं मं यं रं लं वं सं हं
◌ा+◌ं	खां गां ङां जां थां दां नां फां बां मां यां रां लां वां सां हां
◌ि+◌ं	खिं गिं ङिं जिं थिं दिं निं फिं बिं मिं यिं रिं लिं विं सिं हिं
◌ी+◌ं	खीं गीं ङीं जीं थीं दीं नीं फीं बीं मीं यीं रीं लीं वीं सीं हीं
◌ु+◌ं	खुं गुं ङुं जुं थुं दुं नुं फुं बुं मुं युं रुं लुं वुं सुं हुं
◌ू+◌ं	खूं गूं ङूं जूं थूं दूं नूं फूं बूं मूं यूं रूं लूं वूं सूं हूं
◌ृ+◌ं	खृं गृं ङृं जृं थृं दृं नृं फृं बृं मृं यूं रृं लृं वृं सृं हं
◌े+◌ं	खें गें ङें जें थें दें नें फें बें में यें रें लें वें सें हें
◌ै+◌ं	खैं गैं ङैं जैं थैं दें नैं फैं बैं में यैं रैं लैं वैं सैं हैं
◌ो+◌ं	खों गों ङों जों थों दों नों फों बों मों यों रों लों वों सों हों
◌ौ+◌ं	खौं गौं ङौं जों थौं दौं नौं फौं बौं मौं यौं रौं लौं वौं सौं हौं

Figure: 5.13

iii. CMD : Consonant+Mātrā+Diacritic (Chandrabindu)

Mātrā+ Chandrabindu (Valid/Invalid)	Valid consonant ↓
↓	ख ग ङ ज थ द न फ ब म य र ल व स ह
◌ं	खँ गँ ङँ जँ थँ दँ नँ फँ बँ मँ यँ रँ लँ वँ सँ हँ
◌ां	खाँ गाँ ङाँ जाँ थाँ दाँ नाँ फाँ बाँ माँ याँ राँ लाँ वाँ साँ हाँ
◌िं	खिँ गिँ ङिँ जिँ थिँ दिँ निँ फिँ बिँ मिँ यिँ रिँ लिँ विँ सिँ हिँ
◌ीं	खीं गीं ङीं जीं थीं दीं नीं फीं बीं मीं यीं रीं लीं वीं सीं हीं
◌ुं	खुँ गुँ ङुँ जुँ थुँ दुँ नुँ फुँ बुँ मुँ युँ रुँ लुँ वुँ सुँ हुँ
◌ूँ	खूँ गूँ ङूँ जूँ थूँ दूँ नूँ फूँ बूँ मूँ यूँ रूँ लूँ वूँ सूँ हूँ
◌ृं	ख्रूँ ग्रूँ ङ्रूँ ज्रूँ थ्रूँ द्रूँ न्रूँ फ्रूँ ब्रूँ म्रूँ य्रूँ र्रूँ ल्रूँ व्रूँ स्रूँ ह्रूँ
◌ेँ	खेँ गेँ ङेँ जेँ थेँ देँ नेँ फेँ बेँ मेँ येँ रेँ लेँ वेँ सेँ हेँ
◌ैँ	खेँ गेँ ङेँ जेँ थेँ देँ नेँ फेँ बेँ मेँ येँ रेँ लेँ वेँ सेँ हेँ
◌ोँ	खोँ गोँ ङोँ जोँ थोँ दोँ नोँ फोँ बोँ मोँ योँ रोँ लोँ वोँ सोँ होँ
◌ौँ	खौँ गौँ ङौँ जौँ थौँ दौँ नौँ फौँ बौँ मौँ यौँ रौँ लौँ वौँ सौँ हौँ

Figure: 5.14

5.2.2.3 Cluster

Cluster is also one of the most important parts of Script grammar. It is a group of two or more consonants that appear together in a word without intervening vowel between them. Two types of clusters are found in the Script grammar of Bodo language i.e.

- i. CHC (Consonant + Halanta + Consonant)
- ii. CHCHC (Consonant + Halanta + Consonant + Halanta + Consonant)

Examples of Valid and Invalid Cluster combinations are presented in the following tabular chart:

i. CHC (Consonant + Halanta + Consonant)

Valid consonant ↓	Consonant + Halanta + Consonant (Valid/Invalid) ↓
	ख ग ङ ज थ द न फ ब म य र ल व स ह
C + ँ + ख	खख गख ङख जख थख दख नख फख बख मख यख रख लख वख सख हख स्ख ह्ख
C + ँ + ग	खा गा ङ्गा ज्जा थ्था द्दा न्ना फ्फा ब्बा म्मा य्या र्गर्ग ल्ला व्वा स्सा ह्हा
C + ँ + ङ	खङ्ग गङ्ग ङङ्ग जङ्ग थङ्ग दङ्ग नङ्ग फङ्ग बङ्ग मङ्ग यङ्ग रङ्ग लङ्ग वङ्ग स्ङ्ग ह्ङ्ग
C + ँ + ज	खज गज ङज ज्ज थ्ज द्ज न्ज फ्ज ब्ज म्ज य्ज र्ज ल्ज व्ज स्ज ह्ज
C + ँ + थ	ख्थ ग्थ ङ्थ ज्थ थ्थ द्थ न्थ फ्थ ब्थ म्थ य्थ र्थ ल्थ व्थ स्थ ह्थ

C+्+द	खद गद डद जद थद दद नद पद ब्द म्द यद र्द ल्द व्द स्त ह्द
C+्+न	ख्न ग्र ड्न ज्न थ्न द्न न्न फ्न ब्न म्न य्न र्न्न ल्न व्न स्त ह्न
C+्+फ	खफ गफ डफ जफ थफ दफ नफ पफ ब्फ म्फ यफ र्फ लफ वफ स्फ ह्फ
C+्+ब	खब् गब ड्ब ज्ब थ्ब द्ब न्ब फ्ब ब्ब म्ब य्ब र्ब ल्ब व्ब स्ब ह्ब
C+्+म	खम गम ड्म ज्म थ्म द्म न्म फ्म ब्म म्म य्म र्म ल्म व्म स्म ह्म
C+्+य	खय गय ड्य ज्य थ्य द्य न्य फ्य ब्य म्य य्य र्य ल्य व्य स्य ह्य
C+्+र	ख्र ग्र ड्र ज्र थ्र द्र न्र फ्र ब्र म्र य्र र्त्र ल्र व्र स्त्र ह्र
C+्+ल	खल गल ड्ल ज्ल थ्ल द्ल न्ल फ्ल ब्ल म्ल य्ल र्ल ल्ल व्ल स्ल ह्ल
C+्+व	खव गव ड्व ज्व थ्व द्व न्व फ्व ब्व म्व य्व र्व ल्व व्व स्व ह्व
C+्+स	खस गस ड्स ज्स थ्स द्स न्स फ्स ब्स म्स य्स र्स ल्स व्स स्स ह्स
C+्+ह	खह गह ड्ह ज्ह थ्ह द्ह न्ह फ्ह ब्ह म्ह य्ह र्ह ल्ह व्ह स्ह ह्ह

Figure: 5.15

ii. CHCHC (Consonant + Halanta + Consonant + Halanta + Consonant)

Valid consonant ↓	Consonant + Halanta + Consonant+ Halanta + Consonant (Valid/Invalid) ↓
	ख ग ङ ज थ द न फ ब म य र ल व स ह
C+्+ख+्+ह	ख्ख ग्ग ङ्ङ ज्ज थ्थ द्द न्न फ्फ ब्ब म्म य्य र्र ल्ल व्व स्स ह्ह ख्ख् ल्ख् व्ख् स्ख् ह्ख्
C+्+ग+्+स	खस गस ङस जस थस दस नस फस बस मस यस र्स लस वस सस ह्स
C+्+ङ+्+व	खङ्व गङ्व ङङ्व जङ्व थङ्व दङ्व नङ्व फङ्व बङ्व मङ्व यङ्व र्ङ्व लङ्व वङ्व सङ्व हङ्व
C+्+ज+्+ल	खल गल ङल जल थल दल नल फल बल मल यल र्ल ल्ल ल्लल व्ल स्ल ह्ल
C+्+थ+्+र	ख्थ ग्थ ङ्थ ज्थ थ्थ द्थ न्थ फ्थ ब्थ म्थ य्थ र्थ ल्थ व्थ स्थ ह्थ
C+्+द+्+य	ख्य ग्य ङ्य ज्य थ्य द्य न्य फ्य ब्य म्य य्य र्य ल्य व्य स्य ह्य
C+्+न+्+म	ख्म ग्म ङ्म ज्म थ्म द्म न्म फ्म ब्म म्म य्म र्म ल्म व्म स्म ह्म

C+्+फ+्+ब	खफ गफ इफ जफ थफ दफ नफ फफ बफ मफ यफ पर्व लफ वफ सफ हफ
C+्+ब+्+फ	खफ गफ इफ जफ थफ दफ नफ फफ बफ मफ खफ बर्क लफ वफ सफ हफ
C+्+म+्+न	खम गम इम जम थम दम नम फम बम मम यम म्रं लम वम स्म हम
C+्+य+्+द	खद गद इद जद थद दद नद फद बद मद यद र्दं लद वद सद हद
C+्+र+्+थ	खथ गथ इथ जथ थथ दथ नथ फथ बथ मथ ग्रथ र्थं लथ वथ सथ हथ
C+्+ल+्+ज	खज गज इज जज थज दज नज फज बज मज यज लर्ज लज वज सज हज
C+्+व+्+ड	खड गड इड जड थड दड नड फड बड मड यड वर्ड लड वड सड हड
C+्+स+्+ग	खसा गसा इसा जसा थसा दसा नसा फसा बसा मसा यसा सर्सा लसा वसा ससा हसा
C+्+ह+्+ख	खह गह इह जह थह दह नह फह बह मह यह वह र्हं लह वह सह हह

Figure: 5.16

5.2.2.3.1 Combination of Consonants

There are some basic rules in Script grammar regarding the combination of Consonants. As per rule in CHC combination first consonant is called dead or half consonant and second consonant is called full consonant. As for example in **ब + ् + ल** = **ब्ल** combination **ब** is dead or half consonant and **ल** is full consonant. Accordingly in CHCHC combination first and second consonants are come in dead or half consonant and third consonant is comes under full consonant. As for example in **स+्+ज+्+ल** = **स्जल** combination **स** and **ज** are dead or half consonant and **ल** is full consonant. In Script grammar, combination of Consonants exclusion of this rule is known as Deviants.

5.2.2.3.1.1 Deviants

The clusters which are departing from usual or accepted standards are called Deviants in Script grammar. Deviants do not follow the basic rules regarding the combination of Consonants. As for example in **ड + ् + ख** = **डख** and **द + ् + ग** = **द्ग** combinations dead or half consonant **ड, द** and full consonant **ख, ग** both are coming in full forms and it is deviants in Script grammar. Deviants are of two type's i.e.

- i. Single glyphs and
- ii. Stacked consonant

i. Single glyphs

In Script grammar glyph means specific shape, design or representation of a character and Single glyphs means the combined shape of two different consonants used as single consonant. Example of single glyphs is presented in tabular chart as follows:

Composing two different consonants	Single glyphs
क + ् + ष	क्ष
श + ् + र	श्र
ज + ् + त्र	ज्ञ
त + ् + र	त्र

Figure: 5.17

ii. **Stacked consonant**

When combination of two consonant is in the shape of hanging down of one consonant below the other then this type of Deviants is called stacked consonant in Script grammar. Example is presented in tabular chart as follows:

Composing two different consonants	Stacked consonant
द + ळ + द	द
ट + ळ + ट	ट
ठ + ळ + ठ	ठ
ठ + ळ + ठ	ठ

Figure: 5.18

5.3 Summing up

Since 1975 Devanāgarī script is being used to write Bodo language. Convenient scripts used for representing the letter have different types. Such as Basic set of characters along with the matra, diacritic and allograph are also being used. From the above analysis of script used in Bodo language with Script grammar, it is observed that the Bodo language is developing not only in the field of linguistics but also progressing in the field of designing Script grammar. Findings can be summarized with the following points:

- i. Script of **व** /w/ and **य** /y/ designate of Semi vowels has some specific manner in their uses. If a word is open syllable with **इ, ए, आ, ऐ** and added ‘-**आ**’ suffix then due to gliding condition **य** consonant is occur as semi-vowel and mātrā ा of **आ** vowel is used. On the other hand, if a word is open syllable with **उ, अ, औ** and added ‘-**आ**’, suffix then due to gliding **व** consonant is occur as semi-vowel and mātrā ा of **आ** vowel is used.
- ii. Sixteen consonant scripts, i.e. **ख, ग, ङ, ज, थ, द, न, फ, ब, म, य, र, ल, व, स, ह** are used to write Bodo basic vocabulary and **क, घ, च, छ, झ, ञ, ट, ठ, ड, ढ, ण, त, ध, प, भ, श, ष** are the scripts used for loan words in Bodo language.
- iii. It is observed that vowel like **ई** as represented by mātrā ी is not available as well as not articulated in Bodo language; but its uses is found in borrowing words. For example: लक्ष्मी /lokk^{hi}/ ‘goddess of wealth’, निमकी /nimki/ ‘sweet meat’ etc.
- iv. In Bodo Script Grammar there are three main domains i.e. Basic symbols, Mātrā combination and Cluster.
- v. Basic symbol of Bodo script grammar has Consonant set with sixteen valid consonants, i.e. **ख, ग, ङ, ज, थ, द, न, फ, ब, म, य, र, ल, व, स, ह** and seventeen invalid consonants, i.e. **क, घ, च, छ, झ, ञ, ट, ठ, ड, ढ, ण, त, ध, प, भ, श, ष**. In Vowel set **अ, आ, इ, उ, ए, ओ** six pure vowels along with diphthongs **ऐ, औ** are valid and **ई, ऊ, ऋ** are invalid vowels in Bodo language.

- vi. In Bodo ᱚ ᱛ ᱜ ᱝ ᱞ ᱟ ᱠ ᱡ ᱢ ᱣ ᱤ ᱥ ᱦ ᱧ ᱨ ᱩ ᱪ ᱫ ᱬ ᱭ ᱮ ᱯ ᱰ ᱱ ᱲ ᱳ ᱴ ᱵ ᱶ ᱷ ᱸ ᱹ are valid vowel mātrās, which are always occurs in medial and final position of a word in cluster form. Invalid vowel mātrās ᱚ ᱛ ᱜ ᱝ ᱞ ᱟ ᱠ ᱡ ᱢ ᱣ ᱤ ᱥ ᱦ ᱧ ᱨ ᱩ ᱪ ᱫ ᱬ ᱭ ᱮ ᱯ ᱰ ᱱ ᱲ ᱳ ᱴ ᱵ ᱶ ᱷ ᱸ ᱹ are used to write loan words.
- vii. The ᱚ Active or Displaced Catenator is commonly used in Bodo script grammar.
- viii. Anuswar ᱚ , Halanta ᱛ are valid and Chandrabindu/Anunasika ᱚ , Visarga ᱚ are invalid diacritics in Bodo Script grammar.
- ix. Top rafar and Side rakar shape i.e. ᱚ and ᱛ are valid allograph of ᱚ and Bottom rakar ᱚ is invalid allograph in Bodo Script grammar. Both valid allograph of ᱚ are occurs only by consonants and not occurs by vowels and semi-vowels.
- x. Top rafar and Side rakar is occur in medial position of the word only. Both have no occurrences in initial and final position of the word. On the other hand, Bottom rakar has occurrences during the time of writing loan words only.
- xi. Punctuation markers used in Bodo language are almost same to Latin sets i.e. , ; : ? ! “ ” ‘ ’ - / () [] $\text{\{}$ $\text{\}}$. But it is observed that in case of full-stop it has some variation. In Bodo instead of full-stop symbol small dot . they used the danda represented by one small straight vertical line equal to ᱚ .
- xii. Numerals or Digits used in Bodo language are similar to Latino-Arabic set i.e. 0 1 2 3 4 5 6 7 8 9.
- xiii. In Script grammar Mātrā combination is of three types. In which CM: Consonant + Mātrā and CMD: Consonant + Mātrā + Diacritic (Anuswar) is valid Mātrā combination and CMD: Consonant + Mātrā + Diacritic (Chandrabindu) Mātrā combination is invalid in Bodo Script grammar.
- xiv. In Bodo Script grammar Single glyphs i.e. ᱚ , ᱛ , ᱜ etc. and Stacked consonant ᱚ , ᱛ , ᱜ etc. are invalid consonant combination. These are used to write loan words only.