GADDI syntax



Gaddi Syntax¹

*Authors: Prativa Chakraborty, Pinki Kumari, Preeti Kumari, Yangchen Roy, Vyom Sharma*²

Section Editors: Yangchen Roy & Vyom Sharma



This work is licensed under the Creative Commons Attribution 4.0 International License. To view a copy of this license, visit http://creativecommons.org/licenses/by/4.0/ or send a letter to Creative Commons, PO Box 1866, Mountain View, CA 94042, USA

Introduction

This piece is a compilation of the work done on the morpho-syntax and syntax of Gaddi. It has four sections, which discuss case, agreement, questions and negation.

<u>Section 1</u> is dedicated to illustrating the case markers and the environments that license them. Gaddi has the following cases: the nominative, the accusative, the dative, the ergative, the oblique, the subject-oblique and the ablative. Apart from the nominative case, which has no morphological representation, the accusative, dative and ablative are morphologically marked on the noun phrase. The ergative and the subject-oblique manifest themselves on the suppletive stems of simple noun phrases. When the noun phrase is complex (i.e. when it is a conjoined noun phrase or has a relative clause modifying it), however, these cases manifest themselves in the form of clitics that attach to the entire phrase. All case markers block the verb from agreeing with the noun phrase they are associated with.

<u>Section 2</u> discusses the verbal and nominal agreement systems. Agreement in Gaddi is seen between adjectives and the noun phrases they modify, between verbs and subjects, between verbs and direct objects, between verbs and indirect objects, and between noun phrases with the genitive case and the noun phrase(s) they modify. In its verbal agreement system, the language also has the scope for default agreement, which applies when both subject-verb agreement and object-verb agreement are blocked. Blocking of agreement between a noun phrase and the verb happens when the noun phrase has morphological case.

¹ Parts of sections 1 and 4 have been published as "Gaddi Case" (Roy & Chakraborty, 2017) and "Negation Markers in Gaddi" (Sharma, 2017) respectively in issue 2 of Volume 1 of the *Jadavpur Journal of Languages and Linguistics* (the issue dedicated to publishing proceedings of SCONLI 11), while this compiled work was being edited.

² In alphabetical order of last name

Questions, of the *wh* type, and polar ones are discussed in <u>Section 3</u>. Gaddi is a *wh* in-situ language, where the *wh* undergoes LF- or covert-movement. Yes/No questions are formed in two ways, one using a polar question particle, $k\varepsilon$, and the other using a rising intonation with a declarative. Gaddi does not show much variation from the *wh*-syntax of Hindi, which is described in detail by Dayal (1996). A *wh*-phrase inside an embedded finite clause always has narrow scope. Gaddi is a scope marking language. Extraction of *whs* is not permitted.

Negation and Negative Polarity Items are discussed in <u>Section 4</u>. Gaddi has four different negation markers: *na, ni, nathi,* and *mat^h. na/ni* is used to express sentential negation. *nathi* is the negative indicative mood marker, and *mat* is the negative imperative marker. *na* is the unmarked negation marker, while *ni* used in certain castes dialects. Sentences in all tenses, aspects and moods present in the language can be negated. The canonical word-order for sentential negation is when the negation marker is in the pre-verbal position. Negation can only have sentential scope. Constituent scope of negation is expressed by using paraphrasing using two negated sentences with contrastive constituents. In complex sentences, negation can raise to matrix clause. Strong and weak Negative Polarity Items exist in Gaddi. Many NPIs are formed with a focus particle $b^h i$ ('even'), which plays a role in how NPIs are licensed.

1. Case in Gaddi

1.1 The nominative case

In the imperfective and progressive aspects, subjects of intransitive and transitive verbs get morphologically unmarked nominative case. Below are examples of subject noun phrases with unmarked nominative case in the imperfective and progressive aspects. In examples (1a) and (1b), the verb is intransitive and transitive respectively.

(1)	(a)	dəbbu	skul	gənde	hin
		3.NOM3	school.ACC/DAT	go.IPFV	IND
		(PL) ⁴	(SGM)		PL
		'Children	go to school.'		

³ Abbreviations in Glosses: 1-First person, 2-Second person, 3-Third person, ABL-Ablative, ABS-Absolutive, ACC-Accusative, ADJ-Adjective, ADV-Adverb, AGR-Agreement, ASP-Aspect, AUX-Auxiliary, CAUS-Causative, COMP-Complementizer, COND-Conditional, COM-Comitative, DAT-Dative, DEM-Demonstrative, DET-Determiner, EM-Epistemic Mood, ERG-Ergative, F-Feminine, FE-Feminine-Gend, FUT-Future, GEN-Genitive, HAB-Habitual, IMP-Imperative, INCHO-Inchoative, IND-Indicative, INF-Infinitive, INS-Instrumental, IPFV-Imperfective, IRR-Irrealis, LOC-Locative, M-Masculine, MA-Masculine-Gend, MOD-Mood, Modality, Modal, NEG-Negation, NEUT-Neuter Gender, NOM-Nominative, OBJ-Object, OBL-Oblique, P-Person, PFV-Perfective, PL-Plural, PRF-Perfect, PRS-Present, PROG-Progressive, PST-Past, Q-Question word/particle, SBJV-Subjunctive, SG-Singular, TNS-Tense, VOC-Vocative

⁴ Sections 1 and 2 have dual-lined glosses. The first line has the semantic content and the function of the morpheme. The second line is exclusively dedicated to marking person, number and gender (PNG) agreement features. NG features within round braces, '()', refer to the number and gender features of nouns as they exist in the Gaddi lexicon. PNG features that are not with braces are the features that manifest as a result of agreement with the nominal features.

(b)	bəndər	roti k ^h əu ⁵	kərənda	ha
	monkey.NOM	roti eat	PROG	IND
	(SGM)	(SGF)	SGM	SG
	'A/the monkey	is eating a/the	e roti.'	

In the perfect and the perfective aspects, only subjects of intransitive verbs get unmarked nominative case. This is illustrated in (2a) and (2b) respectively.

(2)	(a)	SO	suture	hin	
		3.NOM	sleep.PRF	IND	
		(PL)	PL	PL	
		'they have sle	ept.'		
	(b)	bəra	hathi	na	məru
		big	elephant.NOM	NEG	die.PFV
		SGM	(SGM)		SGM
		'The big elepl	hant did not die	.'	

Subjects of unergative verbs, unaccusative verbs and predicative adjectives are also in the unmarked nominative. That the subject noun phrase has nominative case when the verb is an unergative, unaccusative or a predicative adjective is illustrated in (3a), (3b) and (3c) respectively:

(3)	(a)	radzib teru Rajiv.NOM swin (SGM) 'Rajiv swims.'	kərda n do.IPFV SGM	
	(b)	sisa bədzi Glass NOM break (SGM) 'The glass broke.'	gu go.PFV SG	
	(c)	sokhid3.NOMtire(SGM)So'He was tired.'	3i gət ^h ura go.PRF PST G	t ^h u SGM

1.2 The dative and the accusative

Masica (1991, p. 244) in its description of dative case markers in Indo Aryan, notes that – dʒo is the dative case marker in West Pahari (Mandeali, Chameali, Bharmauri, Bhadarwahi-Bhalesi). In Gaddi too, the dative case marker is -dʒo. All indirect objects

 $^{^{5}}$ Mehta (2016) says that -u and -i do not represent a gender agreement feature, since consistent agreement with a noun phrase (subject or objects) is not noted. Rather, these morphemes are said to represent the feature "Gend", a feature that has two values, masculine (MA) and feminine (FE).

(which are beneficiaries or goals) are obligatorily marked by the dative. [see (5a)]. So are experiencer subjects [see (4b) and (4c)].

(4)	(a)	səmme Shyam.ER((SGM) 'Shyam has	r G F (s giver	r əmma-dʒo Ram.OBL-DAT SGM) n a book to Ra	kita:b book.ACC (SGF) am.'	dituri give.PRF SGF	ha IND SG		
	(b)	pəŋkədʒa-c Pankaj.OBL (SGM) 'Pankaj ha coming to I	l30 DAT s bee Panka	bʰukə hunger (SGF) n feeling hu j)	ləguri feel.PRF SGF ıngry.' (Lit: Hı	ha IND SG unger is			
	(c)	mindʒo 1.DAT (SG) I will remen	ε this nber t	gəlla matter (SGF) his matter. (1	jad remember Lit: This matter	rεηi stay.IN SGF • will stay ir	F n my me	ha IND SG emory)	

Masica (1991, p. 239) notes that north Indo-Aryan languages (except Sinhala) do not have an accusative case. This refers to the fact that in Indo-Aryan languages, direct objects can be marked by the same case marker marking indirect objects i.e. the dative case marker, and there is no independent accusative case marker (unlike, for example, in Dravidian languages). What happens in Gaddi, while largely within the Indo-Aryan paradigm, is not exactly the same. While direct objects are marked by -dʒo, they may instead also be marked by another marker, -o [see (5)].

bottəl-o (5) 3-iven tebl-a putthi rəkkhi ha bottle-ACC table-OBL Ravi.ERG on.LOC keep.PFV IND (SGM)(SGM) (SGM) SGF SG 'Ravi kept the bottle on the table.'

Interestingly, indirect objects can never be marked by -o [see (7)]

(6)	* səmme	rəmma-o	kita:b	dituri	ha
	Shyam.ERG	Ram.OBL-DAT	book.ACC	give.PRF	IND
	(SGM)	(SGM)	(SGF)	SGF	SG
	'Shyam has giv	ren a book to Rar	n.'		

Gaddi exhibits Differential Object Marking (Bossong, 1985). Differential Object Marking (DOM), as defined by Aissen (2002) following Bossong (1991) refers to the phenomenon in some languages wherein some objects (and not others) are overtly marked by a case marker. As Aissen (2002, p. 3) says, "The higher in prominence a direct object, the more likely it is to be overtly casemarked". Prominence is assessed along the dimensions of animacy or/and definiteness. The animacy and definiteness scales are reproduced here from Aissen (2002, p. 3):

Animacy scale: Human > Animate > Inanimate

Definiteness scale: Personal pronoun > Proper name > Definite NP > Indefinite specific NP

> Non-specific NP

This means that if in a language a direct object of a particular rank can be case-marked, direct objects that rank higher than it can be case-marked but not those ranked lower than it.

Indo-Aryan languages typically show an interaction between both these scales. Aissen (2002) calls this two-dimensional DOM. For example, in Hindi, it says, both animate objects and inanimate objects can be case marked. But while only those inanimates that are definite can be case marked, amongst animates, both definite and indefinite humans (and some non-human animates) can be case marked. Also, for humans (and some non-human animates) case marking is obligatory while it is usually optional for inanimate.⁶

Both the animate and inanimate objects can be case marked in Gaddi. When the object is human it seems, it is obligatory to case mark it irrespective of it being definite or indefinite. This is illustrated in (7a) and (7b). In (7a), *dəbbu* is indefinite while in (7b) *dəbbu* is definite.

(7)	(a)	mei 1.ERG (SGM/F) 'I saw a bo	ek one oy.'	dəbbu-o boy.ACC (SGM)	d su S	ikkʰu ee.PFV 6GM		
	(b)	mei 1.ERG (SGM/F) 'I saw the	dəbbu- boy.AC (SGM) boy.'	0 C	dikk ^h u see.PFV SG.M	7		

However, definite human objects of verbs like 'see' in the perfective and perfect aspects are obligatorily unmarked, as shown in (8a) and (8b).

(8)	(a)	mindzo	sita	dikk ^h i
		1.DAT	Sita	see.PFV
		(SGM/F)	(SGF)	SGM
		'I saw Sita.'		
	(b)	*mindʒo	sita-o	dikk ^h i

⁶ DOM in Hindi:

(a)	inanimate definite N	P, optionally case	-marked		
	bətʃtʃe-ne	kita:b-(ko)	medz	pər	rək ^h -a
	child(M).OBL-ERG	book (F)-ACC	floor	LOC	keep-PFV.DEF
	'the child kept the bo	ook LOC the table'			-
(b)	inanimate indefinite	NP, cannot be cas	e marked	ł	
	bətʃtʃe-ne	kita:be	k ^h əridĩ		
	child.OBL-ERG	book.PL(F)	buy.PF\	/.PLF	
	'the child bought boo	oks'	2		
(c)	animate human NP, o	obligatorily case-r	narked		
	ma-ne	bətítíe-ko	zami:n	pər	bitʰa-(j)a
	mother.ERG	child-ACC	foor	LOC	sit.CAUS-PFV.DEF
	'the mother made th	e child sit on the f	loor'		

1.DATSita-ACCsee.PFV(SGM/F)(SGF)SG.F'I saw Sita.''I saw Sita.'

When the object is non-human accusative case marking is optional. If the object not marked with the accusative case, its interpretation is ambiguous between an indefinite reading and a definite reading. This is illustrated in (9) below:

(9) mẽi tasidʒo tʃɛntɛ diturɛ hin
1.ERG 3.DAT cloth give.PRF IND
SGM/F SGM/F (PL) PL PL
'I have given him/her clothes.' or
'I have given him/her the clothes.'

However, when a non-human object is marked by the accusative case, the only interpretation available is that of the definite [see (10)]

(10) mei **əlmari-o** dikk^hu I.ERG almirah.ACC see.PFV SGM/F (SGF) SGF 'I saw the almirah.'

The data collected for dative-accusative case was not done with special focus on DOM. DOM in Gaddi needs to be explored further and these initial claims verified with more data that is sensitive to DOM.

1.3 The ergative case

In the perfect and perfective aspects, subjects of transitive verbs get marked with the ergative case. The ergative is marked on a simple subject noun in the form of a suppletive stem of the noun. For example, 'sjam' with the ergative case is 'səmmɛ' [see (11)]. The following shows examples of sentences with ergative subject DPs.

(11)	səmme	rəmma-dzo	kəta:b	dituri	ha
	shyam.ERG	ram.OBL-ACC/DAT	book	give.PRF	IND
	(SGM)	(SGM)	(SGF)	SGF	SG
	'Shyam gav	e a/the book to Ram.'			

A complex subject, like one that is a conjoined noun phrase, is marked by the ergative case marker $-\epsilon$. This is illustrated in (12):

(12)	sveta etε pinki ε	mənprit-dzo	heru	ha
	Sweta and Pinki ERG	Manpreet-ACC/DAT	see.PFV	IND
	(PL)	(SGF)	SGM	SG
	'Sweta and Pinki saw I	Manpreet.'		

1.4 The subject-oblique case

1.4.1 The oblique form of noun phrases

Noun phrases that end in consonants appear in a suppletive oblique form (which ends in a vowel) when followed by a case marking suffix or postposition.

Noun phrase ending in a consonant	Oblique form of the Noun Phrase
bisal	bisalla pur
'Vishal'	Vishal.OBL LOC
	'on Vishal'
ram	rəmma-dzo
'Ram'	Ram.OBL-DAT
	'to Ram'
pʰul	p ^h ulla sogi
'flower'	flowers.OBL INS
	'with flowers'
kutr	kutta t ^h au
'dog'	dog.OBL ABL
	'from a/the dog'
seb	sebba-re
'apple'	apple.OBL-GEN
	'apple's'

Table 1: Oblique forms of noun phrases ending in consonants

(13a), (13b) and (13c) instantiate proper nouns ending in consonants that appear in the oblique when followed by a case marker or postposition.

(13)	(a)	sveta ete I	Pinki	inki ε dʰirdʒa -dʒo		dzo	heru	ha			
		Sweta and	l Pinki	ERG	Dheeraj-ACC/DAT		see.PFV		IND		
		(PL)			(SGF)		SGM		SG		
		'Sweta and	'Sweta and Pinki saw Dheeraj.'								
	(b)	samme		rəmme	a -dzo	kitab	deni		ha		
		Shyam.SUI	B OBL	Ram.C	BL-DAT	book	give.PFV	IND			
		(SGM)		(SGM)		(SGF)	SGF	SG			
		'Shyam wi	'Shyam will give a book to Ram.'								
	(c)	bagʰε	bisal	a	pur	həmla	kəru				
		tiger.ERG	Vish	al.OBL	on	athack	do.PFV				
		(SGM)	(SGN	1)			SGM				
		'A/The tiger attacked Vishal.'									

The following are examples of common nouns (marked in bold) in the suppletive form when followed by a case marker or post position [(14a) to (14c)].

(14)	(a)	kumare	kutte	thau	gend	lei
		Kumar.ERG	dog.OBL	ABL	ball	take.PFV

	(SGM)	(SGM)	(SGF)	SGF	
	'Kumar too	k a/the ł	oall from a/th	e dog.'		
(b)	lək∫mi	5	sebba-re	tukre	khaηε	hin
	Lakshmi.SU	BOBL a	apple.OBL-GE	N piece	eat.INF	IND
	(SGF)	(SGM)	PL	PL	PL
	'Lakshmi wi	ill eat the	e slices of a/tł	ie apple.'		
(c)	pʰulla	səgi	murti	sədzaji	geji	
	flower.OBL	with.INS	5 idol.ACC/DA	AT decorat	e go.PA	ASS
	(PL)		(SGF)	SGF	SG	
	'A/the idol	was deco	orated with flo	owers.'		

1.4.2 The case for the subject of events unrealized in time

Gaddi has a special case that marks the subject of events unrealized in time. When an event is unrealized in time, the subject noun phrase is a suppletive stem. This suppletive stem has the same form as the oblique form of the noun stem that is required when a case marker or postposition follows it. The suppletive noun phrase that is the subject of an event unrealized in time is marked with the subject-oblique case. Henceforth, the oblique form of the noun phrase in subject position will be referred to as the noun phrase with the subject oblique (Sub-Obl for short) case. The Sub-Obl blocks subject-verb agreement, as seen in (15a) and (15b).

(15)	(a)	rəmma d	utte	am		kʰaŋa	ha	
	Ram.SUB OBL tomorrow		mang	0	eat.INF	IND		
		(SGM)		(SGM)		SGM	SG	
		'Ram will eat mangoes tomorrow.'						
	(b)	samma	ramma-dz	0	kitab	deni	ha	
		Shyam.SUB OBL	Ram.OBL-I	DAT	book	give	IND	
		(SGM)	(SGM)		(SGF)	SGF	SG	
		'Shyam will give	a book to Ra	ım.'				

The subject noun phrase ending in a vowel is identical to its non-suppletive form, as (16) shows. It is also marked with Sub-Obl, and subject-verb agreement is blocked.

(16)	pudza	duthe	tei	t∫əlna	ha	
	Puja.SUB OBL	tomorrow	till	walk.INF	IND	
	(SGF)			SGM	SG	
	'Puja will leave	by tomorro	w'			

1.5 The ablative case

The ablative case, which is used in languages to indicate movement away from something (a location, person or inanimate object), is also found in Gaddi. It is also used to compare two noun phrases. There are four ablative case marking post positions, $t^{h}a\tilde{u}$, ho and $ha\tilde{u}$, all of which are found to be used interchangeably.

In Gaddi, the ablative is used to indicate movement (not necessarily literally) from one spatial location to another [see (17a), (17b) and (17c)].

(17)	(a)	bədʒɑr e baazar h (SGM) 'The mar	rti t here i rket is f	t °aũ from. A	ABL m here	du:r far ?	ha IND SG	
	(b)	so 3.NOM (SGM) 'He has c	skulla schoo ome fr	i tha l AB	t ũ L hool.'	iղa come. SGM	INF	ləgura do.PRF SGM
	(c)	dala branch.C (SGM) 'An/the a	BL A	zhaũ ABL ell froi	seb apple (SGM) m the t	peji fall.PF SGF ree.'	Ϋ́	

The ablative is also used to express movement (literal and discourse) from one temporal location to another. This is exemplified by (18).

(18)	e	t∫ɛnellɛ	sombara	thaũ	tuara	tək	dəsi	gənde	hin
	these	channels	Monday	ABL	Sunday	till	show.PASS	go.IPFV	IND
		(PL)						PL	PL
	'These channels air from Monday to Sunday.'						у.'		

1.6 The instrumental case

The instrumental case is used in languages to mark noun phrases used in the execution of an event. Gaddi has three instrumental case marking postpositions, each of which can be used for the others: *-te*, *-hoggi* and *-sogi*. (19a), (19b) and (19c) illustrate this case marker.

(19)	(a)	təsidze p ^h əl	t ^h uri	səgi	bəddu			
		3.ERG fruit	knife	with.INS	cut.PFV			
		SGM/F (SGM) SGF SGM						
		'She/ He cut t	he fruit	with the knife	,			
	(b)	p ^h ulla sə	gi n	nurti	sədzaji	geji		
		flower OBL wi	th INS id	IN ACC/DAT	decorate	ØO.		

flower.OBL with.INS idol.ACC/DAT decorate go.PASS (PL) (SGF) SGF SG 'A/the idol was decorated with flowers.'

(c)	dzendra tʃabi	səgi	kʰulda	ha				
	lock key	with.INS	open	IND				
	(SGM) (SGF)		SGM	SG				
	'Locks open with keys'							

1.7 The locative case

The locative case is used to mark the noun phrase that is the location of the event/state of being. Like the ablative and the instrumental, locative case markers are post positions; like pur [illustrated in (20a), (20b) and (20c)] and məndz [illustrated in (20d)].

(20)	(a)	butta:	pur	лk	ciŗi	ha			
		tree.OBL	LOC	one	bird	IND			
		(SGM)			(SGM)	SG			
		'There is a	birc	l on a/t	the tree'				
	(b)	pa:da		pur	ijũ	ha			
		mountain	.OBL	LOC	ice	IND			
		(SGM)			(SGM)	SG			
	'There is snow on the mountain'								
	(c)	əmba		pur	mək ^h ri	djuri	ha		
		mango.0I	3L	LOC	fly	sit.PRF	IND)	
		(SGM)			(SGF)	SGF	SG		
		'The fly has sat on a/the mango'							
	(d)	səŗka	mə	ndz	kutr	k ^h ərura		ha	
		road.OBL	LOO	2	dog	stand.PRF		IND	
		(SGM)			(SGM)	SGM		SG	
				1. 1	. 1 . 1	11			

'A/the dog is standing beside the road'

2 Agreement in Gaddi

2.1 Adjective-noun phrase agreement

2.1.1 Agreement with vowel ending adjectives

Adjectives, when ending in a vowel, agree in number and gender (in case of a singular subject) or just in number (in case of a plural subject) with the noun phrase they modify. This is true of both attributive and predicative adjectives.

The word final vowel of these adjectives is underspecified. Its specification is determined by the number and gender features of the noun phrase. For example, the adjectives *lammV, kalV, hukkV* (V= vowel), etc will be realised as *lamma, kala* and *hukka* when agreeing with a singular masculine noun phrase. This is illustrated in (21) where *kala* is

a predicative adjective agreeing with the masculine singular noun phrase *səndukə*.

(21)	mera	səndukə	ka:la	ha			
	1.GEN	box	black	IND			
	SGM	SG(M)	SGM	SG			
	'My box	'My box is black.'					

When agreeing with a singular feminine noun phrase they will be realised as *ləmmi*, *kali* and *hukki*. This is exemplified in (22), where the predicative adjective *ləmmi* agrees with the singular feminine noun *nəkə*.

(22)	seri	nəkə	ləmmi	ha			
	3.GEN	nose	long	IND			
	SGF	(SGF)	SGF	SG			
	'He/She has a long nose.'						

They manifest as *lamme, kale* and *hukke* when modifying a plural noun phrase. This is instantiated in (23).

(23) uddərnə **hukke** hin Cloth dry IND (PL) PL PL 'The clothes are dry.'

Attributive adjectives too agree with the noun phrase they modify [see (24a) and (24b)].

(24)	(a)	0	lutstsa	nikka	ha
		3.NOM	rascal	boy	IND
		SG	SGM	SG(M)	SG
		'He is a ras	cal'		

(b)	mei	təsidzo	bəre	bhare	kitaba	dit ^h ure	hin
	1.ERG	you.DAT	very	heavy	book.ACC/I	DAT give.PRF	IND
	SG	SG	PL	PL	(PL)	PL	PL
	'I have	e given him	heavy b	oooks'			

When more than one adjective (predicative or attributive) ending in a vowel modifies a DP, all the adjective agree in either number and gender or just number with the noun phrase. This is illustrated with attributive adjectives in (25a) and (25b).

(25)	(a)	SO	ək	bəda	tʰula	gubru	ha	
		3.NOM	one	big	fat	boy	IND	
		SG		SGM	SGM	(SGM)	SG	
		'He is a	very	fat boy'				
	(b)	SO	ək	ləmmi	t∫ədį	moți	kuli	ha
		3.NOM	one	tall	broad	fat	girl	IND
		SG		SGF	SGF	SGF	(SGF)	SG
		'She is a	a fat g	girl'				

2.1.2 Agreement with consonant ending adjectives

Adjectives that end in consonants (both predicative and attributive) show no agreement with the noun phrase they modify. (26) illustrates this using attributive adjectives.

(26)	SO	əkə	suſil	tʰεĮ	ləmma	dəbbu	ha
	3.NOM	one	healthy	cute	tall	boy	IND
	SGM					(SGM)	SG
	'He is a cut	e, healt	thy and ta	all boy	,		

2.2 Noun phrase-genitive case marker agreement

In nominal noun phrases that are marked with the genitive case, the genitive case marker agrees in number and gender with the noun phrase that it modified. This is illustrated in (27a), (27b) and (27c), where the noun phrases in question are singular masculine, singular feminine and plural respectively.

(27)	(a)	inde d	e∫a -ra		na	bharət	ha
		3.GEN co	ountry.0	BL-GEN	l nam	ie bharat	IND
		PL (S	GF)-SGM	[(SGN	1) SGM	SG
		'Our county	is called	Bharat	,		
	(b)	Ramma- ri	kətab	mutti	bʰundi	ha	
		Ram-GEN	book	big	happer	n IND	
		(SGM)-SGF	(SGF)	SGF	SGF	SG	
		'Ram's book	is large'				
	(c)	hat ^h i- re	kən	m	u <u>tt</u> .e	b ^h unde	hin
		elephant-GE	N ear	big		be.IPFV	IND
		SGM-PL	(PL)	PL		PL	PL
		'The elephar	it's ears a	are larg	e'		

2.3 Verb Agreement

Gaddi verbs/mood markers show number, gender and honorificity agreement. There is no person agreement in Gaddi. As discussed in Mehta (2016), there seems to be a hierarchy of agreement in Gaddi, with number overriding gender, and honorificity overriding both Number and Gender⁷.

Gender<Number< Honorificity

This implies that when a noun phrase with which a verb/mood marker agrees encodes singularity, the feminine/masculine gender agreement exponents manifest on the verb. If the noun phrase encodes plurality, the gender agreement exponent no longer

⁷ The phrases "number, gender, honorificty", and "number and honorificity" used throughout this subsection, encodes this aspect of Gaddi agreement

manifests on the verb, and only the plural agreement exponent is seen. If the noun phrase encodes honorificity, neither gender, nor number are manifested on the verb, and only honorificity is. The honorific feature has the same exponential value as that of the plural in Gaddi.

Verbs/mood markers may only agree with those noun phrases that do not have an overt morphological case marker attached to them. This implies that dative subjects, which manifest with experiencer predicates, and ergative subjects, which manifest in the perfect tense and the perfective aspect, block the verb/mood marker from agreeing with them.

2.3.1 Agreement in the indicative mood

In the imperfective aspect, if the subject is in the nominative case, the verb, irrespective of transitivity, agrees with the subject in gender, number and honorificity. The indicative mood marker ⁸, agrees only in number and honorificity with the subject. This is exemplified in (28a), (28b) and (28c), where the subjects are singular masculine, singular feminine and plural respectively.

(28)	(a)	rədzib	k ^h aηa		k ^h ənda	ha				
		Rajib.NOM	food.A	ACC/DAT	eat.IPFV	IND				
		SG(M)	SGM		SGM	SG				
		'Rajiv eats food.'								
	(b)	sak∫i	sku:l	gəndi	ha					
		Sakshi.NOM	school	go.IPFV	IND					
		(SGF)		SGF	SG					
		'Sakshi goes to school.'								
	(c)	dəbbu s	ku:l	gənde	hin					
		boy.NOM s	chool	go.IPFV	IND					
		(PL)		PL	PL					
		'Boys go to school.'								

In the progressive aspect, if the subject is in the nominative case, there is free variation between the Gend feature values MA (manifested as -u) and FE (manifested as -i) on the main verb⁹. The light verb, kərənd- $a/i/\epsilon$, encoding the progressive aspect, agrees in number, gender and honorificity with the subject. The indicative mood marker agrees with the subject only in number and honorificity. This is exemplified in examples (29a), (29b) and (29c).

(29)	(a)	bandər	roti	kʰəu	kərənda	ha	
		monkey.NOM	roti	eat.MA	do.PROG		IND

⁸ pronounced optionally

⁹ In the progressive aspect, the transitivity of the verb has no bearing on agreement.

	(SGM)		(SGF)			SC	М			SG
	'the m	onkey	is eating	g rotis'						
(b)	sita	pəkku	Ire	amma		kʰә	u	kərə	ndi	ha
	Sita	ripen	ed	mango.(OBL	eat	.MA	do.Pl	ROG	IND
	(SGF)			(SGF)				SGF		SG
(c)	sita	ətɛ	ram	amma	kʰəι	1	kərənd	е	hin	
	Sita	and	Ram	mango	eat.	MA	do.PRO	G	IND	
		(PL)		(SGM)			PL		PL	

In the inchoative aspect, if the subject is in the nominative, the main verb in the infinitive form agrees in gender, number and honorificity with the subject. The verb $l \partial g$ -, is found in the same form that it appears in in the perfect ($l \partial g uri/a/\epsilon$), and, like the main verb, agrees in gender, number and honorificity with the subject. The indicative mood marker, as with the above two Aspects, agrees only in number and honorificity.

(30)	(a)	υο	g ^h ar-o		gaŋa	ləgura	ha		
		she.NC	M home-A	CC/DAT.	go.IN	F INCHO	IND		
		(SGF)	(SGM)		SG	SGM	SG		
		'She is	going home	,					
	(b)	mutti	bεη	hɛlke		bʰai.dʒo	sulana	ləgura	e hin
		big	sister	small.0	BL	brother.ACC	cause sleep.INF	INCH	O IND
		SGF	(SGF.HON)			(SGM)		HON	HON
		'The ol	lder sister is	putting	the lit	tle brother to	sleep'		
	(c)	ai	pətr	likhne	a	ləgure			
		1.NOM	letter	write	.INF	PROG			
		(PL)	(SGM)			PL			
		'We ar	e writing a le	etter'					

In the perfective aspect, when the verb is intransitive it has the Gend feature MA or FE in free variation (when the subject is singular) or shows plural agreement (when the subject is plural). The indicative mood marker agrees in number and honorificity with the subject. This is illustrated in (31a), (31b) and (31c).

(31)	(a)	bəţa big SGM 'The bi	hat ^h i eleph (SGM) ig elepl	na ant NEG) hant did	məru die.MA.PFV SG not die'	
	(b)	mək ^h ri fly (SGF)		na NEG	məri die.FE.PFV SG	
	(c)	'The fl serε	y did n pεr	ot die' bʰədʒi	gε	hin

3.GEN	leg	break	go.PFV	IND
PL	(PL)		PL	PL
'His/he	r leg l	has brok	en'	

When the verb is transitive, subject marking by ergative case leads to subject-verb agreement being blocked. Transitive verbs (including the light verb) in the perfective aspect have the Gend feature MA or FE in free variation (when the object is singular or plural), or may agree in number with the object when the object is plural. The indicative case marker agrees in number and honorificity with the subject. See examples (32a), (32b) and (32c) for an exemplification.

(32)	(a)	tei	pət	ſ	lik ^h u		ha			
		2.ERG	letter		write.M/	A.PFV	IND			
		SGM/F	(SG	м)	SG	SG				
		'You wrote a letter'								
	(b)	ridzvane		əpղi	uŋgli	bədi	lei			
		Rizwan.E	ERG	REFI	. finger	cut.MA	take.PFV			
		SGM		SGF	(SGF)	SG	SGF			
		'Rizwan cut his finger'								
	(c)	sitɛ	ku	t ^h ε	here					
		sita.ERG	do	g.OBL	see.PFV	T				
		(SGF)	(PL)		PL					
		'Sita saw	dogs	;'						

When the verb is transitive and the object receives morphological accusative case, the verb shows no agreement, and receives the Gend feature value MA or FE in free variation. The indicative mood marker gets default agreement, which is masculine. This is shown in (33a) and (33b).

(33)	(a)	Site a Sita.ERG a (SGF) (S 'Sita saw th	əlmari-o almirah-ACC/DAT SGF) ne almirah.'	dikkʰu see.MA.PRF	ha IND SG	
	(b)	minak∫iɛ Meenakshi (SGF) 'Meenaksh	kumar ete sa i.ERG Kumar and s (PL) ii saw Kumar and S	k∫i-dʒo Sakshi-ACC/DAT Sakshi'	heru 5 see.MA.PFV	ha IND SG

In events unrealised in time (events possible in the future, wishes, conditional statements etc), the subject is marked by the subject-oblique case. The verb when intransitive shows default (singular masculine) agreement in the infinitive form. The indicative mood marker too has default singular agreement. This is shown in (34).

	tfəlna ha	dut ^h ϵ	mənprite	(34)
--	-----------	-----------------------------	----------	------

Manpreet-SUB OBL	tomorrow	walk.IN	IF IND
(SGF)		SGM	SG
'Manpreet will leave	tomorrow'		

When the verb is transitive, and the direct object is not marked by any morphological case, the verb agrees with it. The verb in the infinitive agrees in gender, number and honorificity with the object. The indicative mood marker agrees with the direct object in number and honorificity [as shown in (35)].

(35)	samme	rəmma-dzo	kitab	deni	ha				
	Shyam-SUB OBL	Ram-DAT	book	give.INF	IND				
	(SGM)	(SGM)	(SGF)	SGF	SG				
	'Shyam will give a book to Ram'								

2.3.2 Agreement in the epistemic mood

The epistemic mood in Gaddi is expressed by attaching -// to the be verb, followed by the gender, number and honorificity agreement features. The following are example sentences from Mehta (2016) exemplifying the agreement features on the verb [see examples (36a) and (36b)].

(36)	(a)	bhai	kε	kərda	holla		part of example
		brothe	r what.Q	do.IPFV	be.EM		(1.28), p. 21
		(SGM)		SGM	SGM		
		'What v					
	(b)	əgər	bərkha	b ^h ulli			part of example
		if	rain	be.EM			(1.29), p. 22
			(SGF)	(SGF)			
		ta	su	g ^h ərε	hi	rena	
		then	we	house.LOC	only	stay.INF	
			(PL)			SGM	
		'If it ra	ins tomorr	our wo will l	aa at ham	o'	

'If it rains tomorrow, we will be at home

2.3.3 Agreement in the imperative mood

In the imperative mood, the verb is in a form distinct from that of all other moods. While it shows no gender agreement feature, it might inflect for number/honorificity agreement, although data specific to this was not elicited. (37) exemplifies the agreement on the verb when the subject is second person singular.

(37) andər-ou gət∫c^h inside-LOC go.IMP SG 'Go inside!'

2.3.4 Agreement in the past tense

The Gaddi past tense marker is $t^{h}-u/t^{h}-i/t^{h}-ije$. This marker agrees in gender, number and

honorificity with the noun phrase in question, when the verb is in the imperfective aspect, progressive aspect or inchoative aspect.

In the imperfective aspect in the past tense, both the verb (irrespective of transitivity) and the past tense marker agree with the subject in number, gender and honorificity. This is illustrated in (38a), (38b) and (38c). The verb is intransitive in the first two and transitive in the last one.

(38)	(a)	ram	skulladzo	gən	da t ^h u				
		3.ram.NOM	school.AC	C/DAT go.II	PFV PST				
		(SGM)		SG	SGM				
		'Ram used to	o go to schoo	l'					
	(b)	so rodz	skullc	ıdzo	gaŋdi	tʰi			
		3NOM ever	yday schoo	ol.ACC/DAT	go.IPFV	PST			
		(SGF)			SGF	SGF			
		'She used to go to school every day'							
	(c)	tuhe	məc ^h əli	k¹and€	tʰije				
		2.NOM	fish	eat.IPFV	PST				
		PL	SGF	PL	PL				
		'You used to	eat fish'						

In the progressive aspect in the past tense, if the subject is in the nominative case, there is free variation between the Gend feature values MA (manifested as -u) and FE (manifested as -i) on the main verb¹⁰. The light verb, kərənd- $\alpha/i/\epsilon$, encoding the progressive aspect, and the past tense marker agree in number, gender and honorificity with the subject. Examples (39a) and (39b) are instantiations of agreement in the progressive where the verb is intransitive.

(39)	(a)	mere	həttʰa	thaũ	k ^h u:n	рғи	kərənda	thu
		1.GEN.OBL	hand.OBL	ABL	blood	flow	do.IPFV	PST
		SGM	(SGM)		(SGM)		SGM	SGM
	(b)	rukk ^h a	thaũ	pəttər	реи	kərənd	ε t ^h	ije
		branch.OBL	ABL	leaves	flow	do.IPFV	V I	PST
		(SGF)		(PL)		PL		PL

In the inchoative aspect, if the subject is in the nominative, the main verb is in the infinitive form. The verb $l \partial g$ -, is found in the same form that it appears in in the perfect $(l \partial g ur - i/ - a/ - \varepsilon)$, and, agrees in gender, number and honorificity with the subject. The past tense marker agrees only in number and honorificity with the subject.

(40)	(a)	so	g ^h ar-o	gaŋa	ləgura	thu
		3.NON	/ home-ACC/DAT	go.INF	PROG	PST

 $^{^{\}scriptscriptstyle 10}$ In the progressive aspect, the transitivity of the verb has no bearing on agreement.

	(SGM) (SG	GM)			SGM		S	GΜ
	'He was go	oing home'						
(b)	urmila	k ^h ana k	^h ana	1	əguri	thi		
	3.NOM	food	eat.INF	7	PROG		PS	ST
	(SGF)	(SGM)			SGF		SG	F
	'Urmila wa	as eating (/	the) foc	od'				
(c)	[kə∫i∫ etɛ	ləlit]	kʰaŋa	kʰaŋa	ləgur	ε	tʰije	
	3.NOM		food	eat.INF	PROG		PST	
	(PL)		(SGM)		PL		PL	
	'Kashish a	nd Lalit wa	s eating	(/the) f	food'			

2.2.6 Agreement in the perfect tense

In the perfect of the present, when the verb is intransitive, the subject receives nominative case. The verb agrees with the subject in gender, number and honorificity. The indicative mood marker agrees with the subject in number and honorificity. This is seen in (41a), (41b) and (41c), where the verbs are intransitive and the subjects are singular masculine, singular feminine and plural respectively. (41a) has a light verb $g \partial t^h ura$, and it is this that agrees in singular number and masculine gender with *mera per*.

(41)	(a)	mera 1.GEN SGM (: 'My leg	per leg SGM) is brok	badzi break cen'	gəcʰur go.PRF SGM	a SG	ha IND
	(b)	meri 1.GEN SGF 'My fing	uŋli finger (SGF) ger is b	badzi break break	gəc ^h u go.PR SGF	ıci F	
	(c)	so 3.NOM (PL) 'they ha	ave sle	suture sleep.Pl PL pt'	RF	hin IND PL	

When the verb is transitive, the subject noun phrase receives ergative case and thus the verb does not agree with the subject. The verb agrees in gender, number and honorificity with the object noun phrase, provided the object does not receive morphological accusative case. The indicative mood marker too agrees with the object, but only in number. For example, in (42a) below, *likhura* agrees with the object *patr*, not with the subject *tei*. Similarly, in (42b) and (42c), *paruri* and *diture* agree with the objects *kitab* and *chente* respectively.

(42)	(a)	tei	pətr		lik¤ura	likhura			
		2.ERG	letter		write.P	RF	IND		
			(SGM	()	SGM		SG		
		'you have written a/the letter'							
	(b)	mĩ	kitab	pərur	i	ha			
		1.ERG book	c read.	PRF	IND				
		SG (SGF) SGF	SG					
		'I have read	a/the b	ook'					
	(c)	mẽi təsic	lzo c ^h	εntε	diture		hin		
		1.ERG 3.DA	AT cl	othes	give.PR	.F	IND		
		SGM/F SGN	<i>И</i> /F (Р	L)	PL		PL		
		'I have given him/her clothes'							

When the verb is transitive and the object has accusative morphological case, agreement with the object is blocked. The verb, in this case has default masculine singular agreement. The indicative mood marker gets default singular agreement. This means that the number and gender features of neither the subject nor the object are of any consequence to the agreement features of the verb and the mood marker. This is exemplified in (43) where both the subject and the object are feminine, but the verb has masculine agreement.

(43) sveta etε pinki ε mənprit-dʒo herura ha (Roy & Sweta and Pinki ERG Manpreet-ACC/DAT see.PRF IND Chakraborty, 2017)
 (PL) (SGF) SGM SG 'Sweta and Pinki saw Manpreet'

In the perfect of the past, intransitive verbs and the past tense marker agree with the subject in gender, number and honorificity [see (44a), (44b) and (44c)].

(44)	(a)	SO	k ^h idʒi	gət	hura	thu		
		3.NOM	tire	go.l	PRF	PST	1	
		(SGM)	SGM		SGN	Λ		
		'He hac	'He had become tired'					
	(b)	SO	k ^h ic	lzi g	gət ^h uri		t ^h i	
		3.NOM	tire	Ę	go.PRF		PST	
		(SGF)		5	SGF		SGF	
		'She ha	'She had become tired'					
	(c)	SO	k ^h	idzi	gətʰuɾ	з.	tʰije	
		3.NOM	tii	re	go.PR	F	PST	
		(PL)			PL		PL	
		'They h	nad bec	come	e tired'			

Like in the present, there is object agreement when the verb is transitive. Here, both the verb and the past tense marker agree in gender, number and honorificity with the object, as in (45a)-(45c).

(45)	(a)	sit ^h ε	əkʰbar	pərura	thu	
		1.ERG	newspaper	read.PRF	PST	
		(SGF)	(M)	SGF	SGF	
		'Sita had read	the newspap	per'		
	(b)	ramme	kitab pəru	ıri	thi	
		1.ERG	book read	.PRF	PST	
		(SG.M)	(F) SGF		SGF	
		'Ram had read	l the book'			
	(c)	mẽi tasidzo	o t∫ente	diture	tʰije	
		1.ERG 3.DAT	cloth	give.PRF	PST	
		SGM/F SGM/H	7	(PL) I	PL	PL
		'I had given h	im/her cloth	les'		

If the verb is transitive and both the subject and the object receive morphological case (i.e. the subject receives ergative case and the object accusative.), the verb and the past tense marker get default singular masculine agreement, as illustrated in (46).

(46)	site	SO	kuri-o	he	erura	thu
	Sita.ERG	that	girl-ACC/DAT	se	e.PRF	PST
	(SGF)		(SGF)	SC	БМ	SGM
	'Sita had	seen tł	nat girl '			

3. Questions in Gaddi

3.1 Polar (Yes/No) questions in Gaddi

Polar questions in Gaddi are formed either with just a rising intonation on the declarative [as in (87)] or with the polar question particle $k\varepsilon$ [see (47b)].

(47)	(a)	tuse		khana		k ^h əi	liju
		You.N	IOM.2SGM	food.S	GF	eat.SGF	take.M.PFV
		'Have	you eaten?'				
	(b)	kε	tuse	ədz	əkhbar		pəŗi
		PQ	you.NOM.SGF	today	newsp	aper.SGF	read.PFV.SGF
		'Did y	ou read the new	vspaper	today?	,	

3.2. Wh-questions in Gaddi

3.2.1 Gaddi in the typology of 'wh-' languages

The following are the *wh*-words in Gaddi:

- Argument *wh: kuŋ* 'who', *kɛ* 'what', *kəs* 'which'
- Adjunct *wh-: kijẽ* 'how', *kədi* 'where', *kəjo* 'why', *kəŋe* 'when'

The syntax of interrogatives classifies languages into two types, as follows. There are

languages like English, in which the question particle occurs clause-initially, as shown in (48a). There is overt movement of the wh—phrase from the position it originates to the front of clause (see 48b).

(48) (a) English (Dayal, 1996) What did Lisi buy? (b) $[_{CP}$ what $_i [_{IP}$ Lisi buy $t_i]]$

Now, among the languages with overt *wh*—movement there is a further distinction between languages that have both LF and S-structure movement (like English) and languages that only have only S-structure movement (Like Romanian). The following is an example from Romanian and English, reproduced from Dayal (1996).

(49)	(a) who _i t	i has se	en v	what?	(English)					
	(b) *who	(b) *who _i what _j t _i has seen t _j ?					(English)			
	(c) Cine _i	cej	t_{i}	а	vazut	t _j ?	(Romanian)			
	who	what		has	seen					
	(d) $[_{CP}$ what _i who _i $[t_i$ has seen t_i]]						(LF of English and Romanian)			

In English, in a question with multiple *wh*s, only one *wh* moves to the spec CP position at S-structure, while both of them move to the spec CP at LF for interpretation. A sentence like (49c) would be incorrect in English where both the *wh* moves to the clause initial position at the S-structure. However, Romanian is one such language where both the *wh*s have to move to the spec CP positions at S-structure. This suggests that Romanian only has S-structure movement or the overt movement of *wh*-phrase in all its *wh* constructions.

There are other kinds of languages like Hindi [see example (50)] and Chinese [Example (51)] in which the wh-phrase remains in-situ and does not move to the clause initial position at the S-structure. In these languages, movement happens only covertly at LF, thus providing the semantic content but not the form.

(50)	(a)	ram.ne		seb	kha	ori:da
		Ram.ER	G	apple	e boi	ıght
		'Ram bo	ught	apple	s'	
	(b)	ram.ne	kjo	a	k ^h əri:do	a?
		Ram.ER	G wł	ıat	bought	t
		'What d	id Ra	m buy	?'	
	(c)	[_{cp} what _i	[_{ip} Ra	m buy	/ t _i]]	(the LF structure)
(51)	(a)	Lisi	mai-	le	sheme	
		Lisi	boug	ht	what	
		'What d	id Lis	i buy'	?'	

Now we attempt to see where Gaddi fits in the typology of *wh*–languages.

(52)	(a)	rəmme	bədzdzi	k ^h əriddu.
		Ram.M.ERG	sweet(F)	buy.M.PFV

'Ram bought sweets'

(b)	rəmme	kε	k ^h əriddu
	Ram.M.ERG	what	buy.M.PFV
	'What did Ra	m buy?'	
(c)	$[_{cp}$ what _i $[_{ip}$ Ra	m buy t	[]] (the LF structure)

As is evident from example (52), Gaddi also has covert *wh*-movement and thus falls under the same category as Hindi and Chinese, i.e., Gaddi is a *wh*-in-situ language.

There is a further distinction among the wh-in-situ languages like Hindi and Chinese. Hindi [example (53a)] allows fronting of the wh-phrase, whereas Chinese [example (53b)] does not allow fronting of wh-:

- (53) (a) kja ram-ne k^həri:da What Ram.M.ERG buy.PFV 'What has Ram bought?'
 (b) *sheme Lisi mai-le
 - what Lisi bought 'What did Lisi buy?'

Gaddi, like Hindi, seems to permit the fronting of the *wh*-phrase, as shown in (54).

(54) **k**ɛ rəmm-e k^həriddu what Ram.M-ERG buy.PFV 'What has Ram bought?'

3.2.2 Wh-phrases in the nominative, ergative, accusative and dative

The following is a description of *wh*-phrases in the various cases.

(55) wh- with nominative case

(56)

(a)	kuη	kriket	k ^h elu	kərda	ha
	who.M/F	cricket.M	play.M.PFV	do.M.IMPFV	IND
	'Who is playi	ng cricket?'			
(b)	kuη	a:			
	who.M/F.NO	M cor	ne.M/F.PFV		
	'Who came?'				
(c)	κυη α:	thu			
	who come	.M/F PA	ST		
	'Who had cor	ne?'			
(d)	kuη	i:na			
	who.M/F	come.M/F	.INF		
	'Who will cor	ne?'			
<i>wh-</i> w	vith ergative ca	se			
(a)	kuni	əmb	k ^h əu		
	who.M.ERG/1	F mango.M	eat.M.PFV		
	'Who ate the	mango?'			

(57) *wh* with accusative case

(a)	rəmme	kε	k ^h əu
	Ram.M.ERG	what	eat.M.PFV
	'What did Rar	n eat?'	

- (b) rəmme **kun** edu Ram.M.ERG who.M/F.ACC/DAT see.M.PFV 'Whom did Ram see?'
- (58) *wh* with dative case

(a)	ramme	kəssijo	pʰul	dit ^h ta
	Ram.M.ERG	who.DAT.N	1/F flower.F	give.M.PFV
	'Whom did R	am give the f	lower to?'	

The following [(59a) and (59b)] are examples of wh-adjunct phrases.

(59)	(a)	ərdzunne Arjun.M.ERG 'How did Arju	kəmja Karana.GEN n hit Karan's eye?'	hə̃k ^h -r J.Meye(M	i)-GEN.M	kijẽ how	maru hit.M.PFV
	(b)	ərdzunne Arjun.M.ERG 'Why did Arju	kərna.dzo Karan.M.ACC/DAT n hit Karan?'	kəjo why	maru hit.M.PF	V	

3.2.3 Scope of wh-

Gaddi is a scope marking language, which means that we cannot obtain a direct question reading out of a finite complement clause without using a scope-marking *wh-*. Without this-marker, a *wh*-phrase in an embedded finite clause will always have narrow scope.

(60) ram dʒaŋda ha [dʒe sitε kε kʰəu]
 Ram.M.NOM know.IMM.PFV IND that Sita.ERG.F what eat.PFV
 'Ram knows what Sita ate.'

The only possible reading that we can get from sentence (60) is an indirect question reading i.e. 'Ram knows what Sita ate.' These are not questions (i.e. they do not generate alternatives that can be potential values for the *wh*-phrase). Thus, in order to get a direct question reading from a finite complement clause, there are two known ways, extraction and scope marking.

Extraction is the strategy of extracting the *wh*-phrase out of the finite complement clause and placing it in the clause initial position in order to get a direct question reading. For example, the extraction out of (103) would result in the example in (61).

Gaddi speakers did not provide a structure with this kind of extraction for a direct

question reading. Instead, they used a scope marker to give wide scope to an embedded *wh*-inside a finite complement clause, as the one in (62).

(62) ram kε dʒaŋda ha [dʒe si:tʰa kε kʰaŋa] Ram.M.NOM what know.IMM.PFV IND COMP Sita.NOM.F what eat.INF Intended: 'What does Ram know? What will Sita eat?'

In the above sentence, the *wh*-phrase in the matrix clause is what gives a direct question reading out of a finite complement clause. This matrix *wh*—phrase is known as a scope marker which does not have semantic content but it is there to give a wide scope reading to the embedded *wh*-

A few more examples serve to illustrate the point. In these, we first check the scope of wh—phrases inside an embedded clause first without the scope marker and then with the scope marker. These questions will be followed by their answers because answers can best illustrate the scope of the wh—phrase.

In what follows, we consider wh-phrases embedded with verbs that can take both interrogative and declarative complements.

(63)	dzan-	'know'								
	(a)	ram	dzənda	ha	dze	kuղi				
		Ram.M.NOM	know.IMM.PF	V	IND	COMP	who.M	.ERG/F		
		badzdzi	k ^h əi							
		sweet.F	eat.PFV.F							
		'Ram knows who ate the sweet.'								
	(b)	ram	kε	dzand	a		ha	dze		
		Ram.M.NOM	what	know.IMM.PFV			IND	COMP		
		kuŋ-i	badzdzi k ^h əi							
		who.M.ERG/F sweet.F eat.PFV.F								
		Intended: 'What does Ram know? who ate the sweet?'								
	Ans	ram	dzanda		ha	je	si:tt ^h e			
		Ram.M.NOM	know.IMM.PF	V	IND	COMP	Sita.ER	lG.F		
		badzdzi	k ^h əi							
		sweet	eat.PFV.F							
		'Ram knows that Sita ate the sweet.'								

Wh-phrases in clauses with verbs that can take only declarative complement clauses.

(64) *sotſtſi-'think'*

(a) sotſtſi kərda ram ha dze ərdzun think.PFV do.IMPFV Arjun.NOM that Ram.NOM IND kərna.dzo kədi marŋa Karan.ACC/DAT when hit.INF Intended: 'Ram thinks about when will Arjun hit Karan.'

(b)	ram	kε	sot∫t∫i		kərda		ha	dze
	Ram.NOM	what	think.I	PFV	do.IMI	PFV	IND	that
	ərdzun	kərna-dz	0	kədi	marŋa			
	Arjun.NOM	Karan-A	CC/DAT	when	hit.INF	7		
	Intended: 'V	Nhat does	s Ram tł	nink? w	hen wil	l Arjun	hit Kara	an?'
Ans	ram	sot∫t∫i		kərda		ha	dze	ərdzun
	Ram.NOM	think.	PFV	do.IMI	PFV	IND	that	Arjun.NOM
	kərna.dzo		ddut ^h t	8		тагца	?	
	Karan.ACC/	'DAT	tomor	row	hit.INF	7		
	'Ram thinks that Arjun will hit Karan tomorrow.'							

Wh-phrases in clauses with verbs that only take interrogative complement clauses.

- (65) $putft^hi$ -'ask'
 - (a) si:ta putſtʰi kərdi ha dʒe kɛ bʰua
 Sita.NOM.F ask.PFV.F do.IMPFV.F IND COMP what happen.PFV
 'Sita is asking what happened.'
 - (b) si:ta kε putſtʰi kərddi ha dʒe kε Sita.NOM.F what ask.PFV.F do.IMPFV.F IND COMP what bʰua happen.PFV

Intended: 'What is Sita asking? what happened?'

si:ta put∫c^hi kərddi ha aksident Ans.dze ask.PFV.F do.IMPFV.F accident Sita.NOM.F IND that bhua happen.PFV 'Sita is asking if an accident happened.

So far, we have seen that Gaddi uses scope marker for embedded question clauses, but we have only tested our data with one embedded *wh*—phrase. In Gaddi, as in Hindi, with multiple *wh*—phrases in the embedded clause, only one scope marker is employed..

(66)	(a)	ram	kε	dzanda	ha	dze	kuη	kε
		Ram.M.NOM	what	know.IMM.PF	V IND	that	who.M/F.NOM	what
		k ^h aηa						
		eat.M.INF						
(Intended 'Wh	at does	Ram know? wh	o will	eat wh	at?'	
	(b)	ram	dzand	a ha	dze ə	kk dəb	bu ice cream t	33
		Ram.M.NOM	know.	IMPFV IND	that c	one bo	y ice cream a	ınd
		ekk dəbbu	chocol	ate k ^h ana				
		one boy	chocola	te eat.M.INF				
		'Ram knows	that o	ne boy will e	at ice-	cream	and one boy	will eat
		chocolate.'						

Therefore, we see that we only need one matrix scope marker, which has to be 'what' and

it can have as many numbers of embedded wh—phrases in the complement clauses of any type. So far, we have noticed the similarities between Hindi and Gaddi both of which are a wh- in-situ and scope marking language, but now we will look at the difference between Gaddi and Hindi scope marking.

In a language like Hindi, when the matrix *wh*—phrase is used clause initially, the matrix *wh*—phrase has wide scope and the result is a polar question (meaning that the wh-phrase in this case is not actually a wh-phrase but rather a polar question particle) which can only be the value of the matrix *wh*- and not the embedded *wh*—phrase. But when similar constructions were made in Gaddi and were verified with speakers, wide scope of the matrix *wh*- was rejected and, rather, it was the embedded *wh*—phrase that has wide scope. Following are the examples supporting this claim:

(67) kε dzaŋda ram ha dze kuη-i Ram.M.NOM know.IMM.PFV IND COMP who.M.ERG/F what badzdzi kʰəi sweet.F eat.PFV.F Intended: 'What does Ram know? who ate the sweet?' dzanda Ans.ram ha je si:tt^he badzdzi Ram.M.NOM know.IMM.PFV Sita.ERG.F sweet.F IND COMP kʰəi eat.PFV.F 'Ram knows that Sita ate the sweet.'

3.3 Scrambling of wh-phrases

As mentioned before, fronting of a *wh*—phrase is not movement but simply scrambling. It will be shown here that *wh*-phrase scrambling is allowed in Gaddi, and scrambling the *wh*-phrase in the matrix clause does not change the interpretation of the sentence.

(68)	(a)	kuη	palə	mpur	go		
		Who.M/F.NO	M Pala	mpur	go.M/F.PFV		
		'Who went to	'Who went to Palampur?'				
	Ans-	ram	paləmpur	go			
		Ram.M.NOM	Palampur	go.M.I	PFV		
		'Ram went to	'Ram went to Palampur'				
	(b)	paləmpur	kuŋ	go			
		Palampur	who.M.NOM	1 go.M/	F.PFV		
		'Who went to	Palampur?'				
	Ans-	ram	paləmpur	go			
		Ram.M.NOM	Palampur	go.M.I	PFV		
		'Ram went to	Palampur'				
	(c)	paləmpur	go	kuŋ			
		Palampur	go.M/F.PFV	who.N	1/F.NOM		
		'Who went to	Palampur?'				

	Ans-	ram pa		paləmp	our	go		
		Ram.M.	NOM	Palampur		go.M.PFV		
		'Ram w	Ram went to Palampur'					
(69)	(a)	ram		kε	k ^h aηa			
		Ram.M.	NOM	what	eat.M.I	NF		
		'What w	vill Ran	n eat?'				
	Ans-	ram		bha:th	kʰaŋa.			
		Ram.M.	NOM	rice.M	eat.M.I	NF		
		'Ram w	ill eat r	rice.'				
	(b)	kε	ram		k ^h aηa			
		what	Ram.M	.NOM	eat.M.I	NF		
		'What w	vill Ran	n eat?'				
	Ans-	ram		bha:th	khana			
		Ram.NO	DM	rice	eat.INF	2		
		'Ram w	ill eat 1	rice.'				
		hã:	ram		khana			
		yes	Ram.N	ОМ	eat.INF	2		
		'Yes, Ra	am will	l eat'				

In the data above, we see that in (69b), when the *wh*-phrase is in the clause initial position, the clause is ambiguous between a *wh*-question and a polar question, as shown by the answers to these questions. This suggests that there are two Gaddi $k\varepsilon$ s. One, is the *wh* $k\varepsilon$ and the other the polar $k\varepsilon$. With $k\varepsilon$ in the clause initial position, intonation disambiguates the clause as either a polar question or a wh-question. This is similar to Hindi (Bhatt & Dayal, 2014).

Let us now look at scrambling two *whs*.

(70)	(a)	kun	kεηe	gana	
		who.M/F.NOM	when	go.M/F.INF	
		'who went when?'			
	(b)	κεηε κυη		gana	
		when who.M/F.NOI	М	go.M/F.INF	
		'who went when?'			

From the above examples, it is clear that when there are two wh-phrases in the matrix clause, the order of the wh-phrases does not interfere with the interpretation of the sentence.

3.4 Interaction between wh-scope and quantifier scope

Let us look at the scope of matrix universal quantifiers like 'all' and 'every', and wh–phrases inside the finite complement clause.

(71) A student read every book

This sentence (71) has two meanings here:

- (i) There is one student who has read all the books.
- (ii) All the books have been read by a student, who may not be the same but different student.

Therefore, this sentence is ambiguous and has two logical forms: *There is a student x, such that for every book y, x read y* and *for every book y, there is a student x such that x read y.* The two meanings depend on which quantifier takes wide scope at LF.

(72)	(a)	səbb ^h i dəbbue	kəssi.dzo	edu					
		Every boy.M.ERG	who.M/F.ACC/DAT	see.M.PFV					
		'Whom did every boy	v see?'						
	Ans-	səbb ^h i dəbbue	kudi.dzo	edu					
		Every boy.M.ERG	girl.F.ACC/DAT	see.M.PFV					
		'Every boy saw some	'Every boy saw some girl.' (For some girl x, every boy saw x)						
	(b)	səbb ^h i dəbbue	kəss-kəss.dzo	edu					
		Every boy.M.ERG	who-who.M/F.ACC/I	DAT see.PFV					
	Ans-	səbb ^h i dəbbue	rəmma te	∫jəmma.dʒo					
		Every boy.M.ERG	Ram.M.ACC/DAT and	l Shyam.M.ACC/DAT					
		edu							
		see.M.PFV							
		'some boy saw Ram a	'some boy saw Ram and some boy saw Shyam (every boy saw someone or						
		the other)'							

The LF of (72a) will be: *There is a girl y, such that for every boy x, x saw y.* And the LF of (72b) will be: *For every boy x, there is some person y, such that x saw y.*

(72b) above, needs some explanation as Gaddi uses a process, that is also used by many South Asian languages, called reduplication. This means that in order for the quantifier to have wide scope, there has to be reduplication of the wh—phrase. Otherwise, in a sentence with a single wh—phrase, the quantifier has narrow scope. This phenomenon is different from English, since in English the same syntactic structure is ambiguous between two logical forms. In Gaddi, however, the narrow and wide scope readings of the quantifier depend on two different syntactic structures. This explanation becomes quite clear with the answer given to these two questions. The same results hold for sentences with quantifier in the matrix clause and embedded wh—phrase in a finite complement clause and with quantifier in the embedded complement clause.

4. Negation and Negative Polarity Items (NPIs) in Gaddi

According to Zeijlstra (2013), every instance of sentential negation must be expressed by some negatively marked, overt element, with variation lying only in the type, position and number of such markers. We call such structures as negation markers.

4.1 Negation markers in Gaddi

Gaddi has four different negation markers: $/n\alpha/$, /ni/, $/nat^hi/$, and /mat/, as exemplified in the sentences from (73a) to (73e).

(73)	(a)	ram	paləmpur-o		na	ίηα			
		Ram.NOM	paləmpur-AC	C/DAT	NEG	come.INF			
		'Ram will not	'Ram will not come to paləmpur'						
	(b)	ram	kʰəɾɑ	gubru:	ni	ha			
		Ram.NOM	good.SGM	boy	NEG	IND			
		'Ram is not a	good boy'						
	(c)	ram	kʰəɾa	gubru:	nətʰi				
	(d)	Ram.NOM	good.SGM	boy	NEG.	IND			
		'Ram is not a	'Ram is not a good boy'						
	(e)	a:ndər-əu	mət ^h	gət∫c ^h					
		in-LOC	NEG.PHB	go.IMF)				
		'don't go insi	de!'						

4.2 Negation and word order

The preverbal position is the most natural word order position for the negation marker:

(74)	(a)	ram po		paləm	oaləmpur-o		ίηα			
		Ram.E	RG	Palam	pur-ACC/DAT	NEG	come.	INF		
		'Ram v	'Ram will not come to Palampur'							
	(b)	na	ina		ram	paləm	pur-o			
		NEG	come.	INF	Ram.ERG	Palam	pur-AC	C/DAT		
		'Ram v	'Ram will not come to Palampur'							
	(c)	* ram		paləm	pur-o	ina		na/ni		
		Ram.E	RG	Palam	pur-ACC/DAT	come.	INF	NEG		
		'Ram v	'Ram will not come to Palampur'							
	(d)	ram		na	paləmpur-o		iŋa			
		Ram.E	RG	NEG	Palampur-AC	C/DAT	come.	INF		
		'Ram v	'Ram will not come to Palampur'							
	(e)	na/ni	ram	paləm	pur-o	iŋa				
		NEG	Ram	Palam	pur-ACC/DAT	come.	INF			
		'Ram v	'Ram will not come to Palampur'							
	(f)	rəmm	а	paləm	pur-o		iŋa			
		Ram.C)BL	Palam	Palampur-ACC/DAT/DAT		come.	FUT		
		'Will F	Ram cor	ne to Pa	lampur?'					
	Ans-	ram		paləm	pur-o		na	ina		
		Ram.C)BL	Palam	- pur-ACC/DAT/	DAT	NEG	come.FUT		
		'Ram v	'Ram will not come to Palampur.'							

(74a) is the most natural word order for native speakers. Example (74c) proves that NegP in Gaddi is above VP.

4.3 Negation in the clause

In a sentence in present, the negation marker precedes the mood marker.

(75)	(a)	ram	kʰərɑ		gubru	ha	
		Ram.NOM	good.(SGM)	boy	IND	
		'Ram is a good	l boy.'				
	(b)	ram	khəra	gubru		na	ha
		Ram.NOM	good	boy.(So	GM)	NEG	IND
		'Ram is not a g	good bo	y'			

In (75) above, the negation marker precedes the indicative mood marker *ha*. In place of *na ha* in all the above sentences, the use of the indicative inflected form nat^hi is also an option, as is evident from example (76).

(76)	ram	k ^h əra	gubru	nət ^h i
	Ram.NOM	good.SGM	boy(SGM)	NEG.IND
	'Ram is not a	good boy'		

The negative marker precedes the past tense auxiliary verb [see (77b)]:

(77)	(a)	ram	ram		khəra			thu
		Ram.N	NOM	good.S	GM	boy(SC	GM)	PST.SGM
		'Ram	was a go	od boy'				
	(b)	ram	k ^h əra		gubru	na	thu	
		Ram	good.S	GM	boy	NEG	PST.SG	бM
		'Ram was not a good boy'						

Negation in the context of future tense is similar to its context in the present and past tenses in terms of its position in the sentence.

(78)	(a)	rahula	kʰana	na k ^h ana		
		rahul.OBL	food	eat.IN	F	
		'Rahul will e	at the fo	od'		
	(b)	rahula	k ^h ana	na	khana	
		rahul.OBL	food	NEG	eat.INF	

'Rahul will not eat the food'

In the perfect in Gaddi, the negative marker precedes either the main verb, or is between the main verb and past tense auxiliary.

(79)	(a)	ram ∫	imla-dzo	na	gəch	ura	(ha)	
		Ram.NOM S	Shimla-ACC/DAT	. NEG	go.M	I.PRF	(IND)	
		'Ram has no	ot gone to Shimla	,				
	(b)	ram	∫imla-dʒo		na	gəc ^h u	ra	t ^h u
		Ram.NOM	Shimla-ACC/I	DAT.	NEG	go.M.	PRF	PST.SGM
		'Ram had no	ot gone to Shimla	ı'				
	(c)	ram ∫i	imla-dzo	gəc ^h ur	a	na	thu	

	Ram.NOM Sł	nimla-ACC/DAT go.M.	NEG	PST		
	'Ram had no					
(d)	ram	∫imla-dʒo	na	gəc ^h ur	a	b ^h uŋa
	Ram.NOM	Shimla-ACC/DAT	NEG	go.PRI	2	PRESUM
	'Ram will not have gone to Shimla'					

4.4. Negation and aspect

In the imperfective aspect, the negation marker precedes the main verb. The indicative marker ha is optional in the indefinite aspect in present tense. But when negation is introduced, ha is barred, as is evident from example (80b). In the indefinite past, however, t^hu and negation can co-exist [see example (80d)].

(80)	(a)	ram	∫imla-dʒo		gənda		(ha)			
		Ram.NOM	Shimla ACC/DAT		go.IPF	V	(IND)			
		'Ram goes to Shimla'								
	(b)	ram	∫imla-dʒo		na	gənda		(*ha)		
		Ram.NOM	Shimla-ACC/DAT		NEG	go.IPFV		(IND)		
		'Ram does not go to Shimla'								
	(c)	ram	∫imla	dzo		gənda		t ^h u		
		Ram.NOM	Shimla ACC/D		AT go.IPFV		V	PST.SGM		
		'Ram use to g	'Ram use to go to Shimla'							
	(d)	ram	∫imla-dʒo		na	gənda		t ^h u		
		Ram.NOM	Shimla-ACC/I	DAT	NEG	go.IPF	V	PST.SGM		
		'Ram used to not go to Shimla'								
	(e)	ram	∫imla-dʒo		gənda		bʰuղa			
		Ram.NOM	Shimla-ACC/I	DAT	go.IPF	V	PRESU	М		
		'Ram may usu	ually go to Shin	nla'						
	(f)	ram	∫imla-dʒo		na	gənda		bʰuղa		
		Ram.NOM	Shimla-ACC/I	DAT	NEG	go.IPF	V	PRESUM		
		'Ram may not	'Ram may not usually go to Shimla							

As far as the interaction of the progressive aspect and negation is concerned, the negation marker may either precede the main verb, or it may directly precede the auxiliary verb that marks the progressive aspect [see (81a) to (81d)].

(81)	(a)	ram	∫imla-dʒo	na	t∫əlu	kərda			
		Ram.NOM	Shimla-ACC/DAT	NEG	walk	do.PROC	Ĵ		
		'Ram is not §	going to Shimla'						
	(b)	ram	∫imla-dʒo	t∫əlu	na	kərda			
		Ram.NOM	Shimla-ACC/DAT	walk	NEG	do.PROC	Ĵ		
		'Ram is not §	'Ram is not going to Shimla'						
	(c)	ram	∫imla-dʒo	na	t∫əlu	kərda	t ^h u		
		Ram.NOM	Shimla-ACC/DAT	NEG	walk o	lo.PROG	PST.SGM		

'Ram was not going to Shimla'

(d)	ram	∫imla-dzo	na	gəchi	kərda	bʰuղa
	Ram.NOM	Shimla-ACC/DAT	NEG	go	do.PROG	PRESUM
	'Ram will not	t be going to Shimla'				

4.5. Negation and mood in Gaddi

When an imperative sentence is negated, it is said to be a prohibitive sentence. In Gaddi a prohibitive can be represented by the negation marker mat^h [as shown in (82b)].

(82)	(a)	a:ndər-ou	gət∫cʰ	
		inside-LOC	go.IMP	
		'go inside!'		
	(b)	a:nddər-ou	mət ^h	gət∫c ^h
		inside-LOC	NEG.PHB	go.IMP
		'don't go insi	ide!'	

The indicative marker in Gaddi is *ha*. It is present in all present tense copula sentences. It is optional in the imperfective aspect in the present tense. But when negation is introduced, this optional *ha* disappears. There is also the inflected indicative form of negation, *nat*^{*h*}*hi*.

(83) ram kʰəra gubru **nətʰi** ram good boy NEG.IND 'Ram is not a good boy.'

In the subjunctive mood, negation immediately precedes the subjunctive form of the verb in the clause.

(84)sitha tſandi ha ∫imla-d30 ki ram na qəcha need IND COMP ram.NOM Shimla-ACC/DAT Sita NEG go.SUBJ Hindi: sitha tʃahthi hɛ ki ram ʃimla na a:e (definitely subjunctive in Hindi) 'Sita wishes that Ram may not go to Shimla.'

Gaddi has presumptive mood, where we are certain that the action will take place, although it has not taken place yet. The marker for presumptive mood is $b^{h}una$, which also expresses future tense in many cases. The negation marker precedes the main verb [see (85a), (85b) and (85c)]. But the negation marker never occurs between the main verb and $b^{h}una$ (i.e. immediately preceding $b^{h}una$), as exemplified in (85d). This is similar to how negation interacts with the indicative mood marker, *ha*.

(85)	(a)	ram	∫imla-dʒo	na	gəndo	L	bhuna
		ram.NOM 'Ram might i	Shimla-ACC/DAT not go to Shimla.'	NEG	go.IPF	Ϋ́V	PRESUM
	(b)	ram ram.NOM 'Ram might :	∫imlα-dʒo Shimla-ACC/DAT not be going to Shimla	na NEG	gəc ^h i go	b ^հ uղa PRESU	JM

GADDI SYNTAX

(c)	ram	∫imla-dʒo	na	gəc ^h ura		bʰuղa
	ram.NOM	Shimla-ACC/DAT	NEG	go.M.	PRF	PRESUM
	'Ram might n	ot have gone to Shiml	a.'			
(d)	* ram	∫imla-d30	gənda	L	na	bhuna
	ram.NOM	Shimla-ACC/DAT	go.IPF	'V	NEG	PRESUM
	Intended: 'Ra	m might not go to Shi	mla.'			

Examples showing positioning for negation marker in conditional and counterfactual sentences are given below. In examples (86d) and (86e), as with $b^{h}una$, the negation marker cannot come between the main verb and mood marker $b^{h}olla$.

(86)	(a)	rəmm	a ∫imlε-dzo		na	gana	ta	tes		
		ram.0	BL Shimla.OBL	-ACC	NEG	go.INF	ther	1 3SG.	ERG	
		bədza	ra-dzo		gana					
		marke	et.OBL-ACC/DA	Т		go.INF				
		ʻ(if) r	am does not	go to	Shimla,	then	he w	vill go	to the	market.'
	(b)	əgər	ram ∫i	mlɛ-dʒo	C	na	gənd	a	t ^h u,	
		if	ram.NOM S	himla.C	BL-ACC	NEG	go.IP	FV	PST.S	SGM
		ta	SO	bədza	ra-dzo		gənd	a	thu	
		then	3SG.NOM	marke	et.OBL-A	СС	go.IP	FV	PST.S	SGM
		ʻif ra	m did not ş	go to	Shimla,	then	he	went	to the	market.'
	(c)	əgər	ram	∫imlε-	dzo		na	go		
		if	ram.nom	Shimla	a.OBL-LO	C	NEG	go.P	FV	
		ta	tes	bədza	ra-dzo		gana			
		then	3SG.ERG	marke	et.OBL-L	OC	go.IN	F		
		ʻif ra	m has not	gone	to Shin	nla, he	e wil	l go	to the	market'
	(d)	əgər	ram	∫imlε-	dzo		na	t∫əlu	ıra	b ^h olla,
		if	ram.NOM	Shimla	a.OBL-LO	C	NEG	walk	k.PRF	CF
		ta	SO	bədza	ra-dzo		t∫əlur	a	bhung	a
		then	3SG.ERG	marke	et.OBL-L	OC	walk.	PRF	PRES	UM
		ʻif ran	n were not be	going	to Shim	la, the	n he r	night	have go	ne to the
		marke	eť'							
	(e)	əgər	ram	∫imlε-	dzo		na	gəch	ura	b ^h olla,
		if	ram.NOM	Shimla	a.OBL-LO	C	NEG	go.P	RF	CF
		ta	SO	bədza	ra-dzo		gəc ^h u	Ira	bhung	a
		then	3SG.ERG	marke	et.OBL-L	OC	go.PR	RF	PRES	UM
		ʻif ran	n were gone to	Shimla,	then he	might	have §	gone to	o the ma	rkeť

As illustrated in the examples below, negation markers in Gaddi can precede as well as

follow the main verb in the presence of the modal verbs *səkղa* 'can' and *pɛղa* 'must'.

səkna 'can'

(87)	(a)	ram	∫imlε-dʒo	na	gəchi	səkda			
		Ram.NOM	Shimla.OBL-LOC	NEG	go	can.IP	FV		
		'Ram cannot	go to Shimla.'						
	(b)	ram	∫imlε-dʒo	gəchi	na	səkda			
		Ram.NOM	Shimla.OBL-LOC	go	NEG	can.IP	FV		
		'Ram cannot	go to Shimla.'						
репа	'must'								
(88)	(a)	ram	∫imlɛ-dʒo	na	gana		pjeo		
		Ram.NOM	Shimla.OBL-LOC	NEG	go.INF		must		
		'Ram did not have to go to Shimla/it was not must for rom to have gone							
		to Shimla.'	C				C		
	(b)	ram	∫imlε-dzo gana		na	pjeo			
		Ram.NOM	Shimla.OBL-LOC	go.INF	7	NEG	must		
		'Ram did not	have to go to Shimla/	it was n	ot must	for ran	n to have gone		
		to Shimla.'	-				-		
	(c)	rəmma	∫imlε-dʒo	na	gana	ρεηα			

'it is not must for Ram to go to Shimla.'
(d) rəmma ∫imlε-dʒo gaŋa na pɛŋa ram.OBL Shimla.OBL-LOC go.INF NEG must.INF
'it is not must for Ram to go to Shimla.'

NEG

go.INF must.INF

Shimla.OBL-LOC

tʃahŋa 'need'

ram.OBL

While with the modal verbs above, the negation marker could be placed between the main verb and the inflected modal, rendering the same scopal relation as having it precede the main verb [see (87a) and (87b)], this is not possible with *tfahna* 'need'

(89)	(a)	premma-dzo	pʰəl	l na k ^h ana		t∫ahinda	
		prem.OBL-DAT	fruit	NEG	eat.INF	need.SGM	
		'Prem does not war	nt to eat f	fruit.'			
	(b)	* premma-dzo prem.obl-DAT	mət ^h a sweet	i kʰɑŋɑ eat.IN	na IF NEG	tʃahinda need.SGM	
		'Prem does not war	it to eat f	fruit.'			

In complex predicates, the negation marker can precede either the main verb or the light verb [see (90b) and (90c)], just as it could with the modal verbs sakna 'can' and pena 'must'.

(90)	(a)	rəmme	g ^h ər	cʰədd̯i		dithura		
		Ram.ERG	house	leave		give.SC	GM.PRF	
		'Ram left the	house.'					
	(b)	rəmmε	g ^h ər	na	cʰəddį		dithura	
		Ram.ERG	home	NEG	leave		give.SGM.PRF	

'Ram did not leave the house'

(c)	rəmme	g ^h ər	cʰəddi	na	dithura
	Ram.ERG	home	leave	NEG	give.SGM.PRF
	'Ram did not	leave the house	e'		

4.6 Other aspects

A DP cannot be negated in Gaddi and therefore a neither X nor Y type of sentence cannot be constructed. What we get instead is a sentence with sentential negation.

(91)	(a)	ram	$\text{at}^{h}\epsilon$	sitha	doe hi	əmm	na	k ^h andde
		ram.NOM	and	sita	both als	o mango	NEG	eat.IPFV
		'Neither F	Ram n	or Sita	eat man	goes'		

In negated sentences, negation cannot take scope over the adverb:

(92)	(a)	prem ut	gənda						
		Prem.NOM th	go.SG	M.IPFV					
		'Prem does not	t go there'						
	(b)	* prem	na ut ^h ijo	gənda	L				
		Prem.NOM	NEG there	go.SG	M.IPFV				
		Intended: "P	rem does not	go ther	e'				
(93)	(a)	prem gə î	ie- gəũe	na	t∫əluro	1		thu	
		Prem.NOM slo	wly-slowly	NEG	walk.F	PRF.SGN	1	PST	
		'Prem does not	t go there'						
	(b)	* prem	na gəũe-	-gəũe	t∫əluro	1		thu	
		Prem.NOM	NEG slowl	y-slowly	v walk.F	PRF.SGN	1	PST	
		Intended: 'Pre	m does not go	o there'					
(94)	(a)	premma	dutte	∫im	lε		dzo	na	gana
		Prem.SUB-OBL	. tomo	rrow Sł	nimla.01	3L	DAT	NEG	go.INF
		'Prem will not	go to Shimla	tomorro	ow.'				U
	(b)	premma	∫imlε		dzo	dut ^h e		na	qana
	. ,	Prem.SUB-OBL	. Shim	la.OBL	DAT	tomor	row	NEG	go.INF
		'Prem will not	go to Shimla	tomorro	ow.'				U
			0						

(95)	prem	bəde	tʰər̥e- tʰər̪e	kəm	na	kərda
	Prem.NO	M very	fast-fast	work	NEG	do.IPFV
	'Prem doe	esn't work	k very fast'			

For negation to scope over just the adverb, and not the entire clause, the speaker requires to give a contrastive context along with the sentence to imply this [see (96b)].

(96)	(a)	prem dzət-pət kəm na kərda (NEG always has sentential scope)
		Prem fast work NEG do.PROG
		'Prem does not work swiftly'
	<i></i> .	

(b) prem **dʒət-pət** kəm **na** kərda, (negation > adverb)

Prem	fast	work		NEG	do.PROG,
pər	kəski		oːri	kəri	dina
but	someon	e	other	do	give.FUT
'Prem	does not	do wo	rk swif	tly, bu	t someone else does'

If we look closely, (96b) are two sentences joined using the conjunction *pər.* So, it is still an instantiation of sentential negation. Constituent negation as shown in the following example is not possible.

(97)	(a)	* prem	na	dzət-pət	kəm	<u>kərda</u>
		Prem.	NEG	fast	work	do.PROG
		Intended:	'It is not I	Prem who d	loes the wor	rk swiftly'

To express the intended meaning, informants paraphrase as shown below:

(b)	premma		ra	kəm	kəski	oːri			
	Prem.	OBL	GEN.SGM	work(SGM)	someone	other			
	kəri	dena							
	do give.INF								
	'Prem'	's work	will be done	e by someone else'					

Hence, negation can only have sentential scope in Gaddi.

In sentences with VP ellipsis, the negation does not get elided along with the VP, suggesting that the NegP scopes over the VP.

(98)	ram	əm	na	k ^h ənda	$\text{at}^{h}\epsilon$	sitha	bhi	na
	ram.NON	1 mango	NEG	eat.IPFV	and	sita	even	neg
	'Ram doe	esn't eat mar	igoes ar	nd neither	does	Sita'		

4.7 NPIs in Gaddi

The following are the NPIs in Gaddi. As is evident from the examples below, most of them are compounds with *bhi* 'even'. *dʒəra b*^h*i* 'even *little*'

(99) sithα-dʒo krikeţ khelna dʒəra bhi khəra na ləgda
 Sita ACC/DAT cricket play.INF little even good NEG
 feel.SGM.IPFV
 'Sita does not like to play cricket at all.'

kəsi sit^hɛ b^hi 'with anyone'

(100) tεs kəsi sit^hε b^hi na mulna
 3SG any with even NEG meet.INF
 'She/he will not meet anyone'

koi b^hi 'anyone'

(101) premma sithe koi bhi $dz^hu:t^h$ **na** bəlli sakdda lie prem.OBL with any even NEG speak.CF can.SGM.IPFV * 'Anybody cannot lie to Prem'

kəddi b^hi 'never'

(102) * ram fimlε dʒo kəddi b^hi na gəc^hura
 ram Shimla.OBL LOC sometime even NEG go.SGM.PRF
 'Ram did not go to Shimla sometime'

əkkə b^hi 'even one'

(103) bəgri məndz **əkkə b**h**i** mənu **na** khərura field LOC one even man NEG stand.SGM.PRF 'not even one man stands in the field'

həlli təkər 'until now'

(104) premmε həlli təkər ſimlε dʒo na gəc^hura
 prem.ERG now until Shimla.OBL LOC NEG go.SGM.PRF
 'Prem has not gone to Shimla until now'

4.8.1 Negation raising (NEG raising) in complex sentences

A strong NPI can only be licensed by a negation marker same clause (Zeijlstra (2004, 2008)). To check for NEG raising, we can check if a strong NPI in the embedded clause is licensed by the negation marker in the matrix clause. If the negation in the matrix clause can license an NPI in the embedded clause, just as a negation in the embedded clause can, it means that the negation has the ability to raise from the embedded to the matrix clause.

The NPI $\partial kk\partial b^{h}i$ (even one) in Gaddi is a strong NPI and requires negation to be in the clause that it is in. We can see that the negation in the matrix clause can license the NPI in the embedded clause.

(105)	(a)	miŋdʒo	ləg	dda	ki		əkkə	b'ni	mənu
		1S.GEN	fee	l.IPFV	COMP		one	even	man
		na ina							
		NEG come.	INF						
		'I think tha	t not e	ven one m	an will o	come'			
	(b)	miŋdʒo	na	ləgdda	ki	əkkə	bhi	mənu	ina
		1S.GEN	NEG	feel.IPFV	COMP	one	even	man	come.INF
		'I don't thir	nk that	even one	man wil	l come'			

But,

(c) * miŋdʒo ləgdda ki **əkkə b**^hi mənu iŋa
 1S.GEN.m/f feel.IPFV COMP one even man come.INF
 Intended: 'I feel that even one man will come'

Therefore, NEG raising is evident in Gaddi.

References

- Bhasin, V. (2008). Gaddis' folk medicine: A source of healing. *Studies on Ethno-Medicine, 2*(1), 1-27.
- Bhatt, R., & Dayal, V. (2014, February). Polar kyaa: Y/n or speech act operator. In *Workshop on Non-Canonical Questions and Interface Issues, Kloster Hegne Universität Konstanz.*
- Bossong, G. (1985). Empirische Universalienforschung. Vol. 14. Narr.
- Bossong, G. (1991). Differential object marking in romance and beyond. In D. Wanner & D. Kibbee (Eds.), New Analyses in Romance Linguistics: Selected Papers from the XVIII Linguistic Symposium on Romance Languages (pp. 143-170). Amsterdam: John Benjamins.
- Cheng, L. L. S. (2009). Wh-in-situ, from the 1980s to Now. *Language and Linguistics Compass, 3*(3), 767-791.
- Dayal, V. (1996). Locality in WH quantification.
- Gaddi Community Himachal Pradesh. (n.d.). Retrieved from <u>http://www.discoveredindia.com/himachal-pradesh/gaddi-community-himachal-pradesh.htm</u>.
- Gaddi Community in India Home. (n.d.). Retrieved from <u>http://gabdika.com/</u>

Kumar, R. (2003) *The Syntax of Negation in Hindi*, Doctoral dissertation, University of Illinois-Urbana, Urbana-Champaign, Illinois.

- Mahajan, A. K. (1990) 'LF Conditions on Negative Polarity Licensing,' *Lingua* 80:4, 333–348.
- N. (n.d.). Gaddi tribes. Retrieved from http://www.indianmirror.com/tribes/gadditribe.html
- Mehta. Shreya. (2016). Verbal Inflection *in Gaddi: A Paradigm-Based Approach.* Jawaharlal Nehru University M.Phil. dissertation.
- Roy, Y., & Chakraborty, P. (2017). Gaddi case. *Jadavpur Journal of Languages and Linguistics*, *1*(2), 8-20.
- Zeijlstra, H. (2004) *Sentential negation and Negative Concord*. PhD Dissertation, University of Amsterdam.

GADDI SYNTAX

Zeijltra, H. (2013). Negation and Polarity. In M. Den Dikken (Ed.), *Cambridge handbook of generative syntax*, 793-826.