

Establishing the Thematic Structure and Investigating the most Prominent Theta Roles Used in Sindhi Language

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Abstract

This study focuses on the thematic structure of the Sindhi verbs to find theta roles in the Sindhi language. The study tries to answer the research questions; “What are the thematic structures of Sindhi verbs?” and “What are the prominent theta roles in the Sindhi language?” It examines the argument/thematic structure of Sindhi verbs and also finds the theta roles assigned by the Sindhi verbs to their arguments along with the most prominent theta roles used in the Sindhi language. The data come from the two interviews taken from two young native Sindhi speakers, which consist of 2 hours conversation having 1,669 sentences in natural spoken version of the Sindhi language. Towards the end, it has been found that the Sindhi language has certain theta roles which are assigned by the verbs to their arguments in sentences. Each verb phrase in our data is thus examined and studied in detail in terms of Argument/Thematic structure in order to find theta roles in Sindhi language. Thus, in this regard, each verb phrase (in a sentence) has been examined with the help of Carnie’s theoretical framework (Thematic Relation and Theta Roles: 2006) in order to find the prominent theta roles in the Sindhi language. The data have been examined and analysed on the basis of the Carnie’s theoretical framework. The study finds that the Sindhi language has all (09) theta roles which have been proposed by Carnie (2006). It has been found that six prominent theta roles out of nine are used prominently in Sindhi. The six prominent theta roles in Sindhi language are: *agent, theme, beneficiary, recipient, locative and goal*.

Keywords: Sindhi Language, Syntax, Semantics, Theta role/thematic relations, prominent theta roles

1. Introduction

Theta-role (θ -role) is a bundle of thematic relations associated with a particular argument (Carnie, 2006). The verb phrase in the following example has three arguments and five thematic relations associated with them.

- *Ali gave a gift to Peter.*

(*Ali* is an agent who is doing an action of giving a gift to *Peter*. It is also a source in the sentence; the context of the sentence shows that “a gift” goes from *Ali* to *Peter*. Thus, keeping this reason in mind, *Ali* is also a source in the above sentence. Theme of the sentence is “a gift” which undergoes an action of the sentence; it is being given to *Peter*. “*Peter*” is a person who receives a gift from *Ali*. *Peter* is therefore recipient of the gift in the sentence. *Peter* is also goal in the sentence; a gift comes from *Ali* to *Peter*. *Peter* is the termination or destination of the gift to reach. Thus, in this way the three arguments (*Ali*, *a gift* and *Peter*) have five theta roles in the above sentence).

Carnie (2006) defines Theta- Criterion as that Lexical information. According to his Theta-Criterion Theory each argument is assigned one and only one theta-role and each theta-role is assigned to one and only one argument.

Carnie says theta role is a semantic relation between the argument and the predicate (verb phrase). Through verb we can come to know what relations they have, and also how arguments are related to the predicate in the sentence.

Radford (2009) defines that the theta-roles are used to describe the semantic roles played by arguments in the sentences. We can illustrate this definition in the following examples:

- [The police] arrested [him]
(Agent) (Theme)

In this example the argument “the police” has the role of an agent who is doing an action of arresting “him”. The second argument “him” has the role of theme which undergoes an action of being arrested by the police. In this way the arguments have an agent and a theme theta relation with each other in the sentence.

Theta roles are the names of the participant roles associated with a predicate: the predicate may be a verb, an adjective, a preposition, or a noun. The participant is usually said to be an argument of the predicate.

1.1 Statement of the Problem

There is no proper work on Syntax of the Sindhi language (Fahmida, 2011; Sazia, 2009). On one hand, Sindhi language is known as the oldest and one of major languages of India and Pakistan in general and Sindh province in particular. We can find number of books on general grammar, phonology and morphology of Sindhi language. However, its major part which is syntax (structure) has been ignored or left behind all this while. We can find lot of work on Sindhi grammar in general but less or no work on syntax in particular. Writers like Stack (1849), Trump (1872), Munshi (1892) and Qaleech (1916) have generally talked about morphology, phonology, grammar and parts of speech of the Sindhi language. None of them and their followers has discussed about syntax of Sindhi language; either it had been ignored or these are the modern terms in language and at that time these were not well known to those writers/linguists. However; it is still being ignored by the present day writers (Memon, 1987; Shazia, 2009; Fahmida, 2010; Rahman, 2010; Jokhio, 2012). The aim of this study is to analyse verb phrase in Sindhi language in terms of Argument structure, Theta roles and the prominent theta roles used in the Sindhi language. Thus, this study attempts to analyse theta roles and the most prominent theta roles used in Sindhi language. It aims to see the structure of arguments (Noun phrases: subjects, objects and other nouns) in the Sindhi sentence, and also to see the thematic structure which shows thematic relations of theta roles.

1.2 Related Literature about Sindhi Verbs

Verb plays a crucial role in a sentence; they show an action of a sentence. Verbs show what the subject and object are doing in the sentence. Verbs are called body of sentence. Jokhio (2011) defines Sindhi verb that anything which tells or shows something, any action, state or condition of someone in the sentence that is called a verb. Jokhio (2012) divides the Sindhi verbs into two types; main verbs and to be or auxiliary verbs. Main verbs are further divided into regular and irregular verbs and auxiliary verbs, which are further divided into free auxiliaries and linking auxiliaries. However, Qaleech (2006) says the Sindhi verbs have been derived from imperative form. He says Sindhi imperatives are Sindhi nouns but they do the function of verb and hence many other verb forms are derived from the imperative that is why they are called base forms in the Sindhi language. He further says nominative, accusative and state cases of noun are also derived from the imperatives. Bheerumal (1985) defines irregular verbs are those whose objects do not come/link directly in the sentences. Arshad (1986) says that regular verbs are those verbs which are derived from infinitives by adding suffixes “yo= ۽ or yal= ۽”.

Sindhi verbs have been divided into intransitive verbs and transitive verbs, and these are further classified into sub parts (See Khoso, 2005; Rashidi, 2007; Chano, 2011; Dada, 2010; Jokhio 2012; Jokhio, 2013; Qaleech, 2006; Bheerumal, 1985 & Allana, 2010.) Jokhio (2012) says that Sindhi verbs need to be studied and carried out at M.Phil. or PhD level so that it could be studied in detail.

1.3 Related Studies on Argument Structure

Luuk E. (2009) argues that the predicate/argument structure of natural language is much more complex than that of first order predicate logic. He says language has fossils and according to Jackendoff (1999) language has five fossils; by language fossils he means to say language structural features. He finds that linguistic predicate/ argument structure has universal approach in natural language syntax. He says that linguistic arguments are universally marked by determiners, possessors and word order constraints, while linguistic predicates are universally marked by the tense, mood, aspect, voice and also word order constraints. Besides, Verhoeven E. (2014) studies thematic prominence and animacy asymmetries cross linguistically in four heterogeneous languages namely Greek, German, Chinese and Turkish. According to him and others (Jackendoff, 1987, Grimshaw, 1990; Dik, 1978; Lavin and Rappaport, 2005), agent theta roles are higher than others because of the animacy effects. Towards the end, he finds that the experiencer-first effects are observed in Greek and German but not in Turkish and Chinese. He concludes that animacy effects in arguments are not universally accepted; they differ from language to language.

On the other hand, Harley H. (2012) studies external arguments (subjects) and the Mirror Principle. He asks two research questions: 1) what are arguments? 2) How are they suppressed? According to Mirror Principle (Baker, 1985), morphological derivations are syntactic derivations; meaning that morphology leads to syntax. He says applied arguments come structurally between external and internal arguments. These arguments are beneficiaries and always come with ditransitive verbs; can be seen in the Hiaki language. The causative verbs introduce external arguments in Hiaki, and applicative morphemes introduce internal arguments. According to Rude (1996), applied arguments are structurally lower than external arguments, and structurally higher than internal arguments in a sentence. (See also, Holmerg A. & Roberts I. 2012; Kratzer, 1996; Simpson A., Choudhury A. ; Meno M. 2013 & Marantz A., 2012).

1.4 Related studies on Hierarchy of theta roles

Bierwisch M. (2006) studies the thematic roles and their universal, particular and idiosyncratic aspects. He says arguments are placed hierarchically in different languages. Theta roles are assigned according to the structure of expressions and theta roles can also be content based. His hierarchy of the theta roles is: Agent > Recipient >

Experiencer/Goal > Instrument > Patient/Theme > Place. William E. (1987), however, says that there are three species of theta role assignment namely internal theta role assignment, external theta role assignment and predication. External arguments are subjects, internal arguments are objects and predication is the action in the sentence. He introduces the concept of Implicit Arguments which are not assigned any theta roles in the sentence. (See also Willits J. A., D'Mello S. K., Duran N. D. & Olney A., 2007)

Hovav M. R. (2004), on the other hand, studies the thematic hierarchies which he says is a ranking of a set of semantic roles. He says there are problems in the thematic hierarchies, because it is not universal; different writers give different hierarchies.

- a. Agt > Th/Pat > G/S/L (Baker 1997)
- b. Agt > Exp > Th (Belletti & Rizzi 1988)
- c. Agt > Ben > Rec/Exp > Inst > Th/Pat > L (Bresnan & Kanerva 1988)
- d. Agt > Pat > Rec > Ben > Inst > L > Temp > (Dik 1978)
- e. Agt > Exp > Inst > Pat > G/S/L > Time (Fillmore 1971)
- f. Agt > Dat/Ben > Pat > L > Inst/Assoc > Mann (Givon 1984)
- g. Act > Pat/Ben > Th > G/S/L > Ben (Jackendoff 1990)
- h. Agt > Eff > Exp > L > Th > Pat (Van Valin 1990)

It can be seen that all of the above writers/linguists propose different hierarchy of the theta roles. The prominence of theta roles differs from language to language. According to Dowty (1991:572), semantic elements help realize the arguments and assign the theta roles to them accordingly. He rejects the Fillmore's well-known subject selection paradigm. He concludes that each thematic hierarchy is worthy as it contributes to the knowledge regarding theta roles and their hierarchy/prominence. Like Panini's semantic roles, Fillmore's (1968) 'deep cases' are basis for thematic roles in modern linguistics. Regarding the hierarchy of roles, Fillmore (1968:33) says 'If there is an A, it becomes the subject; otherwise if there is an 'I', it becomes the object; otherwise the subject is O. Jakendoff's (1972) hierarchy is different from that of Fillmore:

agent > beneficiary > recipient/experiencer > instrument > theme > location

One argument can have more than one theta roles (Jackendoff, 1990:59). Agents are not arguments of verbs; they are external arguments (see Kratzer, 1996).

Thematic relations relate situation to their participants; they show relation between participants and situations, and they are interface between syntax and semantics (Davis A. R. 2009). They are also called the relational notions which label arguments and predicates; they show relation between participants/arguments and events (Chierchia, 1984). Thematic hierarchy means prominence of the theta roles which ultimately leads to the syntactic prominence. There is no fixed hierarchy of thematic roles (see Fillmore, 1977; Jackendoff, 1987; Levin & Rappaport Hovav, 2005; Grimshaw, 1990; William, 1994; Dowty, 1991). Baker M. C. (1996) studies the thematic relations and the syntactic structure. He says there are external and internal arguments in an expression. English language takes Agents as subjects and Patients as objects; and subjects are higher than objects. English has some verbs which take only one argument, others take two arguments, and there are some verbs like 'give' which take three arguments. Baker gives the thematic hierarchy proposed by Larson (1988: 382):

Agent > Theme > Goal > Obliques (manner, location, time, ...)

However, Baker suggests creating a new thematic hierarchy which has universal approach to all languages. Baker says Theme theta role is higher than Goal theta role, and thus he rejects the Grimshaw's (1990) theory of thematic hierarchy where she places Theme lower than Goal. He concludes that thematic roles are semantic roles, while aspectual roles are completing events of the verbs.

1.5 Thematic Relation and Theta Roles

One way of encoding selectional restrictions is through the use of what are called *thematic relations*. These are particular semantic terms that are used to describe the role that the argument plays with respect to the argument. This section describes some common thematic relations (this list is by no means exhaustive, and the particular definitions are not universally accepted).

The initiator or doer of an action is called the **agent**. In the following sentences, *Ryan* and *Michael* are agents.

Agents are most frequently subjects, but they can also appear in other position.

Arguments that feel or perceive events are called **experiencers**.

Experiencers can appear in a number of argument positions including subject and object:

Entities that undergo actions, are moved, experienced or perceived are called **themes**.

The entity towards which motion takes place is called a **goal**. Goals may involve abstract motion:

There is a special kind of goal called **recipient**. Recipients only occur with verbs that denote a change of possession:

The opposite of a goal is the **source**. This is the entity from which a motion takes place:

The place where the action occurs is called the **location**:

The object with which an action is performed is called the **instrument**:

Finally, the one for whose benefit an event took place is called the **beneficiary**:

Notice that any given DP can have more than one thematic relation. In the following sentence, the DP *Jason* bears the thematic relations of agent and source (at the very least).

- *Jason* gave the books to Anna.

There is not a one-to-one relationship between thematic relations and arguments. However, linguists have a special construct called a **theta role** (or θ role), that does map one-to-one with arguments. Theta roles are bundles of thematic relations that cluster on one argument. In (15) above, *Jason* gets two thematic relations (agent and source), but only one theta role (the one that contains the agent and source thematic relations).

2. Methodology

This research work is a qualitative research (Creswell, 2004); it tries to explore the verbs and types of verbs in the Sindhi language. It will be explored to see the place/position, importance, function and relation of verb with other elements in the sentence. It will be seen how Sindhi verbs are formed and used in sentences. It has been attempted to see how Sindhi verbs assign theta-roles to their arguments. The processes and relations of Sindhi verbs will be explored with the help of Andrew Carnie's theory of Theta-roles (2006:221).

2.1 Research Design

The research design used in this research work is exploratory and descriptive (Creswell, 2004) and it uses qualitative method (Creswell, 2004). The natural Sindhi language (spoken/oral form) has been selected to study nature and function of the Sindhi verbs. This research design helped us study verbs, its types and the theta-roles assigned by the verbs to their arguments in Sindhi language. The argument structure of the Sindhi verbs has been established with the help of the Carnie's theoretical framework and the research design.

2.2 Data Collection

The research methodology comprises two parts; data collection and data analysis (Creswell, 2004). The current study analyses verb phrases in Sindhi language in terms of their argument structure, theta roles and particularly the most prominent theta roles used in Sindhi. The data for the study comes from the native Sindhi speakers who have Sindhi as their first language or mother tongue. The data have been collected through two informal interviews. Interviews have been taken from the two native Sindhi speakers. The researcher asked them questions informally regarding their different things in order to make them confident enough to speak more freely and frankly about their lives in a natural way. The questions were regarding their personal lives, education (from primary to university life), their current position and status, their family, their present life, previous life and future goals and intentions. The participants were given free atmosphere to speak freely in a natural way as if they were talking to each other without being noticed and recorded. There were two interviews and each interview was taken separately. The interview one comprised of (864) sentences in the (56) minutes and (49) seconds time. The second interview consisted (815) sentences in (45) minutes and (09) seconds time.

3. Data Analysis and Discussion

The data have been analysed with the help of Carnie's theoretical framework (Carnie, 2006), which is also used as analytical framework in the current study. It has been tried to explore the Sindhi verbs and its types and also to see their function, position and importance in the sentences. It has been attempted to see how Sindhi verbs assign different theta-roles (also called theta relations) to their arguments (NPs) in sentences. The argument structure of the Sindhi verbs has been established to see the theta-roles and the most prominent theta roles with Sindhi verbs.

3.1 Theta Roles/Thematic Relations in Sindhi

3.1.1 Agent

The examples (01) to (02) establish the Argument Structure of the verb and analyse the Agent theta roles assigned by the verbs to their arguments.

Example 01. ته اسان ان کي واپس مينتھن ڪرڻ چاهيون ٿا.

S. NO/ coding	Sentence Description	Sentence
M121	Sindhi in Arabic	ته اسان ان کي واپس مينتھن ڪرڻ چاهيون ٿا.
	Sindhi in Roman	Ta assan una khy wapas maintain karan tha chahyon.
	Transliteration	Ta=that; assan=we; una=it; khy=have; wapas=back; maintain=karan=to do; tha=agreement; chahyon=want.
	Translation	We want to maintain it back.
	Syntactic Analysis	(Subject: ان کي=assan=we, Object: اسان=una khy=it, Verb Phrase: مينتھن ڪرڻ=maintain karan chahyon tha=want to maintain, Adverbial Phrase: ته = ta = that, Adjective: واپس = wapis= back)

جي اء اسيسمينت ڪندو هوس Example 02.

S. NO/ coding	Sentence Description	Sentence
M192	Sindhi in Arabic	جي آء اسيسمينت ڪندو هوس.
	Sindhi in Roman	Ji aaon assessment kando hos.
	Transliteration	Ji=yes; aaon=I; assessment; kando=do; hos=was.
	Translation	Yes, I used to do assessment.
	Syntactic Analysis	(Subject: آء=aaon=I, Object: اسيسمينت=assessment, Verb Phrase: ڪندو هوس=kando hos=used to do)

The verb phrase in the above sentence is ميٿين ڪرڻ چاهيون ٿا=maintain karan chahyon tha=want to maintain". There are two arguments in the sentence (01) اسان=assan=we and اُن کي=una khy=it". The argument "اسان=assan=we" is the subject of the sentence which is a first person plural pronoun and has a masculine gender. It is used at the place of a proper noun (persons or people) and it has capability to do action in the sentence. We can therefore say that it is subject or agent of the sentence which performs an action of maintaining something or doing something in the sentence, and it has an agentive thematic relation in the sentence. The other argument of the sentence "اُن کي=una khy=it" is the object of the sentence. This is the argument which undergoes the action (of maintaining) of the sentence. It does not do an action but undergoes an action of the sentence. Thus, we can say that it is the theme of the sentence and has the theme theta role in the sentence.

The verb phrase "ڪندو هوس=kando hos=used to do" in the sentence (02) has two arguments to discuss about. It is a transitive verb which takes two arguments to pass action from one argument "آء=aaon=I" (subject) to the other "اسيسمنت=assessment" (object). This is the argument which performs an action of doing assessment in the sentence. We can therefore say that this argument is subject or agent of the sentence. On the other hand, the second argument of the sentence "اسيسمنت=assessment" is the one which undergoes an action (of being done) of the sentence. The context shows that subject of the sentence "I" is doing an "assessment" of something in the sentence. We can therefore say that it is the object or the theme of the sentence with theme theta relation in the sentence (02).

3.1.2. Experiencer Theta Role

Experiencer or perceiver of the event is called an experiencer (Carnie, 2006). It is the one who experiences something in the sentence.

هڪڙو توهان کي خواب آيو. Example 03.

S. NO/ coding	Sentence Description	Sentence
M159	Sindhi in Arabic	هڪڙو توهان کي خواب آيو.
	Sindhi in Roman	Hikro tahan khy khuwab ayo.
	Transliteration	Hikro=one; tahan=you; khy=have; khuwab=dream; ayo=came.
	Translation	You saw a dream.
	Syntactic Analysis	(Subject: توهان کي=tawhan khy=you, Object: خواب=khuwab= dream, Verb Phrase: آيو=aayo=came, Adjective Phrase: هڪڙو=hikro=one)

ء توهان جي هي ذندگي جي ء هن ذندگيء جي جاڪوڙ ٻڌي مونکي ڏاڍي خوشي ٿي. Example 04.

S. NO/ coding	Sentence Description	Sentence
N546	Sindhi in Arabic	ء توهان جي هي ذندگي جي ء هن ذندگيء جي جاڪوڙ ٻڌي مونکي ڏاڍي خوشي ٿي.
	Sindhi in Roman	Ain tahan ji he zindgi ji ain hin zindgi ji jakhor budhi mokhy dadhi khushi thee.
	Transliteration	Ain=and; tahan=you; ji=of; hee=this; zindgi=life; ji=of; ain=and; hin=this; zindgi=life; ji=of; jakhor=struggle; budhi=heard; mokhy=I; dadhi=very; khushi=happiness; thee=agreement.
	Translation	I felt very happy after hearing your life and your life's struggle. Or Having heard your life and your life's struggle I felt happiness.
	Syntactic Analysis	(Subject: مونکي=monkhy=I, Object complement: خوشي=khushi=happiness, Verb Phrase: ٿي=thee=felt, Adverbial Phrase: ڏاڍي=dadhi=very, Having Clause: ذندگيء جي جاڪوڙ ٻڌي=Zindgiiء جي جاڪوڙ ٻڌي=Ain tahan ji he zindgi ji ain hin zindgi ji jakhor budhi=having heard your life and your life's struggle)

The verb phrase “أیو=aayo=came” of the sentence (03) has two arguments. The arguments are “توهان=tawhan=you” and “خواب=khuwab=dream”. The first argument is second person singular and it has capability to do an action in the sentence. The second person singular pronoun either does an action (agent) in the sentence or sometimes gets benefit (beneficiary) in the sentence. It is usually used either as a subject (Agent) which performs an action or as an indirect object which gets benefit in the sentence. None of the case is here; it neither does an action nor gets benefit in the sentence, but it experiences something which we cannot see (he sees a dream). In this case thus, it can be said that it is experiencer in the sentence (03), which experiences something, and it has the experiencer theta role in the sentence. The second argument “خواب=khuwab=dream” is the object or the theme of the sentence, and it has the theme theta role in the sentence.

We have two arguments (noun phrases) and a complement phrase with the verb “هي thee=felt” of the sentence (04). The arguments/noun phrases are: “مونکي=monkhy=I/me” and “خوشی=khushi=happiness”. The first noun phrase does not do an action in the sentence but it just feels or experiences an action (of feeling) in the sentence; it feels ‘happiness’ in the sentence. We can therefore say that the argument “مونکي=monkhy=I/me” is the experiencer of the sentence, and it has an experiencer theta relation in the sentence. The second argument “خوشی=khushi=happiness” is an abstract noun which cannot be seen or touched but just felt. It is object of the sentence and it has an accusative case, because it is used as an object of the sentence. Thus, it can be said that this argument is theme or object of the sentence.

3.1.3 Theme Theta Role

Carnie (2006) defines theme as the entity that undergoes actions, are moved, experienced or perceived by someone or something.

Example 05. مان توهان جي بولي رکارڈ کندس

S. NO/ coding	Sentence Description	Sentence
N11	Sindhi in Arabic	مان توهان جي بولي رکارڈ کندس.
	Sindhi in Roman	Maan tahan ji boli record kandus.
	Transliteration	Maan=I; tahan=you; ji=of; boli=language; record; kandus=do will.
	Translation	I will record your language.
	Syntactic Analysis	(Subject: توهان جي بولي =maan=I, Object: رکارڈ کندس=tahan ji boli=your language, Verb: کندس=record kandus=will record)

Example 06. ته آئے انهی شيء کی ہی فالو کندس

S. NO/ coding	Sentence Description	Sentence
M830	Sindhi in Arabic	ته آئے انهی شيء کی ہی فالو کندس
	Sindhi in Roman	Ta aaon unhe shae khy he follow kandus.
	Transliteration	Ta=that; aaon=I; unhe=that; shae=thing; khy=have; hee=also; follow; kandus=will do.
	Translation	I will follow only that thing.
	Syntactic Analysis	(Subject: آئے = aaon=I, Object: انهی شيء =unhe shae=that thing, Verb Phrase: فالو کندس=follow kandus=will follow, Conjunction: ته=ta=that, Adverbial Phrase: کی ہی =khy hee=also/too)

The verb phrase “رکارڈ کندس=record kandus=will record” of the sentence (05) has two arguments to discuss about. The first argument “مان=maan=I” is the subject or agent of the sentence which performs an action of recording somebody’s language in future, and it has nominative case in the sentence. The other argument “توهان جي بولي=tahan ji boli=your language” is an object of the sentence which undergoes an action of the sentence in the future. This is the argument that undergoes an action of the sentence (will be recorded by the subject) in the future. This is the argument that is focus or theme of the sentence and it has an accusative case in the sentence, because it is used as an object of the sentence. Therefore; we can say that this argument is the theme of the sentence and has theme theta role in the sentence.

The verb phrase “فالو کندس=follow kandus=will follow” of the sentence (06) has two arguments to discuss “آئے =aaon=I” and “انھی شيء=unhe shae=that thing”. The argument “آئے =aaon=I” is the subject or the agent of the sentence with nominative case, and it has an agent theta relation in the sentence. On the other hand, the other argument “انھی شيء=unhe shae=that thing” is an NP used as an object of the sentence, as it has capability of undergoing an action of something/ somebody rather than doing any action. A thing cannot do any action on its own, but it can undergo an

action of the sentence. The context of the sentence shows that it is the object or theme of the sentence and it has an accusative case. This is the argument which is focus or theme of the sentence, and it has theme thematic relation.

3.1.4 Goal Theta Role/Relation

Carnie (2006) defines goal as the entity towards which motion takes place in the sentence. Goals may also involve abstract motion.

Example 07. أَنْهِيَءُ كَانْ پُوءُ وَرِي هَلْيَا وَيَنْدَاهُونْ آفِيسْ ڇ.

S. NO/ coding	Sentence Description	Sentence
M55	Sindhi in Arabic	أنْهِيَءُ كَانْ پُوءُ وَرِي هَلْيَا وَيَنْدَاهُونْ آفِيسْ ڇ.
	Sindhi in Roman	Unhe khan poi wari halya wenda hon office mei.
	Transliteration	Unhe=that; khan=from; poi=then; wari=then; halya=go; wenda=will go; hyon=are; aafice=office; mei=in.
	Translation	Then (we) go back to the office. Or After that (we) get back in the office.
	Syntactic Analysis	(Subject: zero subject, Object: zero object, Verb Phrase: هَلْيَا أنْهِيَءُ كَانْ =halya wenda hon=go, Adverbial Phrase: وَيَنْدَاهُونْ =unhe kahn poi wari=then/ after that, Prepositional Phrase: آفِيسْ ڇ =affice mei=in office)

Example 08. تَهْ أَتَى اَجِي وَيَنْدَاهُونْ گَهْرْ پَنْهَنْجِي.

S. NO/ coding	Sentence Description	Sentence
N107	Sindhi in Arabic	تَهْ أَتَى اَجِي وَيَنْدَاهُونْ گَهْرْ پَنْهَنْجِي.
	Sindhi in Roman	Ta uty achi wenda aahyon ghar pahinje.
	Transliteration	Ta=that; uty=there; achi=come; wenda=will go; aahyon=are; ghar=home; pahinje=our/own.
	Translation	Then (we) come (back) there our home.
	Syntactic Analysis	(Subject: hidden subject, Object: zero object, Verb Phrase: اَجِي وَيَنْدَاهُونْ =achi wenda aahyon=come, Adverbial Phrase: تَهْ أَتَى =ta uty= then, گَهْرْ پَنْهَنْجِي =ghar pahinje=our home)

The verb phrase “هَلْيَا وَيَنْدَاهُونْ=halya wenda hon=go” in the sentence (07) has only one argument to discuss about. Its argument is in the prepositional phrase “آفِيسْ ڇ=aaffice mei=in office”. The word “آفِيسْ=aaffice=office” shows the destination point of the action of the subject. It shows that the action of “going/getting back” ends at the common noun “office”. We can thus say that this argument is goal having goal theta role in the sentence. It also shows the place or location of the subject in the sentence.

The verb phrase “اَجِي وَيَنْدَاهُونْ=achi wenda aahyon=come/ come back/ arrive” in the sentence (08) has only one argument. The argument is the noun phrase “گَهْرْ پَنْهَنْجِي=ghar pahinje=our home”. The common noun “گَهْرْ=ghar=home” shows the destination of the action of “coming” of the subject (we). The subject is hidden in the surface structure of the sentence; however, deep structure of the sentence shows that it has a subject which first person plural pronoun “we”, which can be identified through verbal inflections. The subject (we) comes from somewhere (may be office) to the home. Thus, it can be said that the common noun “گَهْرْ=ghar=home” is goal having goal theta role in the sentence. It also shows the location or place of the subject in the sentence.

3.1.5 Recipient Theta Role

Carnie (2006) defines recipient as a special kind of goal that involves a change of possession in the sentence.

Example 09. اِيميل ڪئي ٿن مونکي

S. NO/ coding	Sentence Description	Sentence
N525	Sindhi in Arabic	اِيميل ڪئي ٿن مونکي.
	Sindhi in Roman	Email kai thun monkhy.
	Transliteration	Email; kai=did; thun=they/them; monkhy=I.
	Translation	They sent me an email.
	Syntactic Analysis	(Subject: (they) hidden subject, Object: اِيميل=email=email, Object complement: مونکي=monkhy=me, Verb Phrase: ڪئي ٿن=kai than=did/sent)

هُنی مونکی ایدمیشن هُنن ڏنی چوئین ڪلاس ۾.

Example 10.

S. NO/ coding	Sentence Description	Sentence
M331	Sindhi in Arabic	هُنی مونکی ایدمیشن هُنن ڏنی چوئین ڪلاس ۾.
	Sindhi in Roman	Huty mokhy admission hunan dini chothei class mei.
	Transliteration	Huty=there; mokhy=I/me; admission; hunan=they/them; dini=gave; chothei=fourth; class; mei=in.
	Translation	They gave me admission there in fourth class.
	Syntactic Analysis	(Subject: هُنن=hunan=they, Object: ایدمیشن=admission, Object complement: مونکی=monkhy=me, Verb Phrase: ڏنی=dini=gave, Adverbial Phrase: هُنی=huty=there, Prepositional Phrase: چوئین ڪلاس =chothein class mei= in fourth class)

The verb phrase “ڪئی ٿن=kai than=did” in the sentence (09) takes two arguments to discuss about. The first argument “ايميل=email” is a common noun which can be any email. It is a direct object with an accusative case in the sentence. Hence; we can say that the argument “ايميل=email” is the internal argument or direct object or the theme of the sentence. The second argument “مونکی=monkhy=me” is indirect object having a dative case, because it shows possession of something (an email). It does not do action in the sentence too, but it is the one which receives the argument “ايميل=email” in the sentence. Therefore; it can be said that the argument “مونکی=monkhy=me” is the receiver of “ايميل=email”, and it has recipient theta role in the sentence.

The verb phrase “ڏنی=dini=gave” in the sentence (10) takes three arguments with itself. The arguments are: “هُنن=hunan=they”, “ايدمیشن=admission” and “مونکی=monkhy=me”. The first argument is subject or agent of the sentence and it has an agent theta role. The second argument “ايدمیشن=admission” is the internal argument or the direct object having an accusative case or the theme of the sentence, because it is with verbal group, and it has the theme theta role. The third argument is “مونکی=monkhy=me”, it is an indirect object having dative case. However, it neither does an action nor undergoes an action of the sentence, but this is the argument which receives an admission in the sentence. It can be therefore said that the argument “مونکی=monkhy=me” is the recipient of the sentence and it has recipient thematic relation.

3.1.6 Source Theta Role

Source theta role as the opposite of goal; the entity from which movement occurs or something happens in a sentence, is called a source theta role (Carnie, 2006).

تہ جڏهن مان مدرسی کان ڪجهه ٿائیم جي لاءِ موڪل تي آيس ڳوٽ آيس موڪل تي

S. NO/ coding	Sentence Description	Sentence
N765	Sindhi in Arabic	تہ جڏهن مان مدرسی کان ڪجهه ٿائیم جي لاءِ موڪل تي آيس ڳوٽ آيس موڪل تي.
	Sindhi in Roman	Ta jadahin maan maderse khan kujh time je lai mokal ty ahyus ghoth aayus mokal ty.
	Transliteration	Ta=that; jadahin=when; maan=I; maderse=school; khan=from; kujh=some; time; je= of; lai=for; mokal=leave; ty=on; ahyus=came; ghoth=village; aayus=came; mokal=leave; ty= on.
	Translation	That when I came to village from the madersah for some time on vacation.
	Syntactic Analysis	(Subject: مان=maan=I, Object complement: ڳوٽ=goth=Village, Verb Phrase: آيس=aayus=came, Adverbial Phrase: تہ=ta jadahin=that when, Prepositional Phrase: ڪجهه ٿائیم=maderse khan=from Madersah, ڦائیم=کان=madrasi, ڳوٽ=کوچھ جي لاءِ=kujh time lai=for some time, موڪل=موڪل تي=mokal ty=on vacation)

مڙس جي گهر مان صير夫 هن کي ڪپڙو لئي ء ماني معنا جيڪي هن جون ضرورت جون شيون آهن اهي ملنديون آهن Example 12.

S. NO/ coding	Sentence Description	Sentence
N656	Sindhi in Arabic	مڙس جي گهر مان صير夫 هن کي ڪپڙو لئي ء ماني معنا جيڪي هن جون ضرورت جون شيون آهن اهي ملنديون آهن.
	Sindhi in Roman	Murs je ghar maan srif hun khy kapro lati ain maani mana jeke hun jon zaroorat jon shayon hin uhy milandion hin.
	Transliteration	Murs=husband; je=of; ghar=house; maan=from; srif=only; hun=her; khy=have; kapro=cloth; lati=cloth; ain=and; maani=bread; mana=means; jeke=that; hun=her; jon=of; zaroorat=need; jon=of; shayon=things; hin=are; uhy=those; milandion=will meet; hin=are.
	Translation	She gets only clothing and food from her husband's house means she gets only those (things) of her needs.
	Syntactic Analysis	(Subject: zero subject, Object complement: هن کي =hun khy=she, Object: ڪپڙو لئي ء ماني =kapro lati ain maani=clothing and food, Theme: جيڪي هن جون ضرورت جون شيون آهن =jeke hun jon zaroorat jon shayoon aahin= those things of her need, Verb Phrase: ملنديون آهن =uhy= those, Verb Phrase: مڙس جي گهر =milandion aahin= get/ have, Prepositional Phrase: مان=murs je ghar maan=from her husband's house, Adverbial Phrase: صيرف=srif=only)

The verb phrase “آئيں=aayus=came” of the sentence (11) has two noun phrases and three prepositional phrases. The noun phrases are: “مان=maan=I” and “گوٹ=goth=Village”. The first noun phrase “مان=maan=I” is the subject or the agent having a nominative case in the sentence, and it has an agent theta role in the sentence. The second argument “گوٹ=goth=Village” is the goal of the sentence, and it has the goal theta role in the sentence. This argument also shows the place or location of the subject (the village where subject is coming to). The common noun “مدرسي=maderse=religious school” in the first prepositional phrase “کان=maderse khan=from religious school” shows the “source” of action of the sentence, thus it has an ablative case in the sentence, because it shows source in the sentence. Therefore; we can say that this common noun is source of the action, and it has source theta role in the sentence.

The verb phrase “ملنديون آهن=milandion aahin=get” in the sentence (12) has four arguments and a complement phrase to discuss about. The first noun phrase “هن کي=hun khy=she” is an object complement/indirect object having a dative case. This is the argument which takes benefit in the sentence; thus, we can say that this argument is beneficiary of the sentence. The second argument “ڪپڙو لئي ء ماني =kapro lati ain maani=clothing and food” is the theme of the sentence, and it has the theme thematic relation in the sentence. The noun phrase “مان=murs je ghar=husband's house” prepositional phrase shows source of the things that she gets. Therefore; it can be said that the noun phrase “مان=murs je ghar=husband's house” is the source of getting food and clothing in the sentence, and it has the source theta role.

3.1.7 Locative Theta Role

Carnie (2006) defines locative to be the place where action occurs.

هٽي آء یونیورسٽی ملایا ۾ پي ایچ دي ڪري رهيو آهيان. Example 13.

S. NO/ coding	Sentence Description	Sentence
M16	Sindhi in Arabic	هٽي آء یونیورسٽی ملایا ۾ پي ایچ دي ڪري رهيو آهيان.
	Sindhi in Roman	Hity aaon University Malaya mei PhD kary rahyo aahiyan.
	Transliteration	Hity=here; aaon=I; University; Malaya; mei=in; PhD; kary=do; rahyo=agreement (ing form); aahiyan=am.
	Translation	I am doing PhD here in University Malay.
	Syntactic Analysis	(Subject: آء=aaon=I, Object: پي ایچ دي=PhD, Verb Phrase: ڪري رهيو=ahyan=am doing, Prepositional Phrase: یونیورسٽی ملایا ۾=University Malaya mei=in University Malaya, Adverbial Phrase: هٽي=hity=here)

جي فرست پئر ۾ مون ايديشن ورتی گورمینٹ بوائز بگري ڪاليج عمر ڪوٽ 14..

S. NO/ coding	Sentence Description	Sentence
M460	Sindhi in Arabic	جي فرست پئر ۾ مون ايديشن ورتی گورمینٹ بوائز بگري ڪاليج عمر ڪوٽ.
	Sindhi in Roman	Ji, first year mei moon admission warti Government Boys Degree College Umar Kot mei.
	Transliteration	Ji=yes; first; year; mei=in; moon=I; admission; warti=took; government; boys; degree; college; Umar Kot; mei= in.
	Translation	Yes, I got admission in first year in Government Boys Degree College Umar Kot.
	Syntactic Analysis	(Subject: مون=moon=I, Object complement: admission, Verb Phrase: ورتی=warti=got, Prepositional Phrase: first year mei = in first year, گورمینٹ بوائز بگري ڪاليج عمر ڪوٽ=government boys degree college Umar Kot in= in Government Boys Degree College Umar Kot, Adverbial Phrase: جي=ji=yes)

The verb phrase in the sentence (13) has two noun phrases, a prepositional and an adverbial phrase. The first argument “اء=aaon=I” is agent of the sentence with an agent thematic relation (theta role). The second argument “پي ايچ دي=PhD” is a proper noun, a name of a higher degree. It is object or theme of the sentence, and it has theme theta role in the sentence. The prepositional phrase “يونيورستي ملايا=University Malaya mei=in University Malaya” shows the place where the argument “اء=aaon= I” is doing PhD. The proper noun in the above prepositional phrase is “يونيورستي ملايا=University Malaya”. It is also a name of the institution, the place as well as the location. Therefore; it can be said that it is locative of the sentence and it has locative theta role.

The verb phrase in the sentence (14) is “ورتی=warti=got”. It has two noun phrases, two prepositional phrases. The first argument “مون=moon=I” is the subject having nominative case (because it performs action in the sentence) or the agent of the sentence. The second argument is “ايديشن=admission” the theme of the sentence and it has theme theta role in the sentence. The proper noun “گورمینٹ بوائز بگري ڪاليج عمر ڪوٽ=government boys degree college Umar Kot=Government Boys Degree College Umar Kot” shows the place or location of the action (where admission was got). Therefore; it can be said that this argument is locative of the sentence, and it has locative thematic relation.

3.1.8 Instrument Theta Role

Carnie (2006) gives a brief definition of instrument as the entity with which action occurs or with which subject does an action in the sentence.

ان جو اسان کي جواب ڏيو ايميل جي ذريعي. 15.

S. NO/ coding	Sentence Description	Sentence
N530	Sindhi in Arabic	ان جو اسان کي جواب ڏيو ايميل جي ذريعي.
	Sindhi in Roman	Una jo assan khy jawab dio email je zarie.
	Transliteration	Una=that; jo=of; assan=we; khy=have; jawab=answer; dio=give; email; je=of; zarie= through.
	Translation	Give us its reply through an email.
	Syntactic Analysis	(Subject: zero subject, Object: جواب=jawab=its answer/reply, Object complement: اسان کي=assan khy=us, Verb Phrase: ڏيو=dio=give, Prepositional Phrase: ايميل جي ذريعي=email je zarie=through an email)

بانيءَ تي ويندا ها سين بابا سان گڈ سڌتو اسڪول. 16.

S. NO/ coding	Sentence Description	Sentence
M371	Sindhi in Arabic	بانيءَ تي ويندا ها سين بابا سان گڈ سڌتو اسڪول.
	Sindhi in Roman	Bike ty wenda haa sein baba saan gad sidho iskool.
	Transliteration	Bike; ty=on; wenda=will go; haa=were; sein=agreement; baba=father; saan=with; gad=together; sidho=direct; iskool=school.
	Translation	(We) used to go direct to the school on the bike with father.
	Syntactic Analysis	(Subject: zero subject, Object complement: اسڪول=iskool=school, Verb phrase: ويندا ها سين=weend ahaa sein=used to go, Prepositional Phrase: تي=bike ty=on the bike, بابا سان=baba saan=with father, Adverbial Phrase: گڈ=gad=together, Adjective Phrase: سڌتو=sidho=direct)

The verb phrase “ذیو=dio=give” of the sentence (15) has four arguments (two noun phrases and one prepositional phrase) to talk about. The first argument “ان جو اب=una jo jawab=its answer reply” is the direct object or the theme of the sentence, and it has the theme theta role. The second argument “اسان کی=assan khy=us” is the goal of the sentence, because it tells the destination of answer to go (from the second person to first). The common noun “ایمیل=email” does not any action in the sentence except to be used as an instrument to do an action of “giving” the answer/reply to the argument “اسان کی=assan khy=us”. Therefore; we can say that the common noun “ایمیل=email” is used as an instrument to do action of replying, and it has the instrument theta role.

The verb phrase “ویندا ها سین=weend ahaa sein=used to go” in the sentence (16) has one noun phrase and two prepositional phrases. The first noun phrase or the argument “اسکول=iskool=school” is the goal of the sentence, and it has the GOAL theta role. The common noun “بائیک=bike=bike” in the prepositional phrase “بائیک تی=bike ty=on the bike” shows that it is an instrument of the sentence. It neither does an action nor undergoes an action of the sentence. It is used just as a means to go to school. We can therefore say that it is instrument having instrument theta role in the sentence.

3.1.9 Beneficiary

The entity for whom the action occurs in the sentence. (Carnie, 2006)

Example 17. انٹرویو اسان جو سندی بولی جی باری ۾ آهي.

S. NO/ coding	Sentence Description	Sentence
N9	Sindhi in Arabic	ء انٹرویو اسان جو سندی بولی جی باری ۾ آهي.
	Sindhi in Roman	Ain interview assan jo Sindhi boli je bary mei aahy.
	Transliteration	Ain=and; interview; assan=we; jo=of; Sindhi; boli=language; je=of; bary=about; mei=in; aahy=is.
	Translation	And our interview is about Sindhi Langauge.
	Syntactic Analysis	(Subject: zero, Object Complement: جو interview assan jo=our interview, Prepositional Phrase: سندی بولی جی باری ۾ =Sindhi boli je bary mei= about Sindhi language)

Example 18. ته اتی هُو مونکی گڏ وٺي ويو.

S. NO/ coding	Sentence Description	Sentence
N383	Sindhi in Arabic	ته اتی هُو مونکی گڏ وٺي ويو.
	Sindhi in Roman	Ta uty hoo monkhy gad wathee wayo.
	Transliteration	Ta=that; uty=there; hoo=he; monkhy=I/me; gad=together; wathee=take; wayo=went.
	Translation	That he took me there together with himself.
	Syntactic Analysis	(Subject: هُو=hoo=he, Object complement: مونکی=monkhy=me, Verb Phrase: وٺي ويو=wathee wayo=took, Conjunction: ته=ta=that, Adverbial Phrase: اتی=uty=there, گڏ=gad=together)

The verb phrase of the sentence (17) is “آهي=aahy=have/has”, and it has two arguments to discuss about. The first argument is a noun phrase: “انٹرویو اسان جو=interview assan jo=our interview”. It is used at the place of subject, but it is not subject of the sentence, because it does not perform any function; in fact it is something which is talked about in the sentence. Thus, we can say it is theme of the sentence with theme thematic relation. The second argument is the proper noun “سندی بولی=Sindhi boli=Sindhi language”. It is neither subject which does an action nor object which undergoes an action of the sentence, but it is the noun phrase (argument) which takes benefit from the sentence. This argument takes benefit of being interviewed; meaning that someone interviews someone about the Sindhi language; Sindhi language takes benefit without doing anything in the sentence. We can therefore say that it is beneficiary of the sentence (17), and it has a beneficiary theta role.

The verb phrase “وٺي ويو=wathee wayo=took” in the sentence (18) has two arguments to discuss about. Its arguments are: “هُو=hoo=he” and “مونکی=monkhy=me”. The argument “هُو=hoo=he” is agent of the sentence which is performing an action of taking someone to somewhere in the sentence, and it has an agent theta role. The second argument “مونکی=monkhy=me” is an indirect object of the sentence which is used at the place of object. This argument neither performs an action nor undergoes an action of the subject. However, this is the argument which takes benefit from the

action of the agent of the sentence. We can therefore say that this argument is the beneficiary of the sentence and it has beneficiary theta role.

3.2 Prominent Theta-roles in the Sindhi language

There is no fixed or permanent hierarchy of the theta roles (Dowty, 1991). Linguists are just trying their best to study theta roles according to their languages and their perspectives. However, they agree that Agent theta role is structurally and thematically higher (prominent and frequent in use) than other theta roles. In this chapter, it is therefore analysed to see the most prominent theta roles used in the Sindhi language. Our data show that there are six prominent theta roles in Sindhi language, which are discussed below.

3.2.1 Agent Theta Role

Example 19. ته اُن جي ڪري معنا مان هتي جوب ڪندو آهيان.

S. NO/ coding	Sentence Description	Sentence
N176	Sindhi in Arabic	ته اُن جي ڪري معنا مان هتي جوب ڪندو آهيان.
	Sindhi in Roman	Ta una je kary mana maan hity job kando ahyan.
	Transliteration	Ta=that; una=that; je=of; kary=do; mana=means; maan=I; hity=here; job; kando=will; ahyan=am.
	Translation	That is why I do job here.
	Syntactic Analysis	(Subject: مان=maan=I, Object: جوب=job=job, Verb Phrase: ڪندو آهيان=kando aahiyani=do, Adverbial Phrase: ته اُن جي ڪري معنا = ta una je kary mana = that is why, هتي=hity=here)

The verb phrase of the sentence (19) is “=ڪندو آهيان=kando aahiyani=do”. The verb “=ڪندو آهيان=kando aahiyani=do” is a transitive verb in the Sindhi language, and it requires a subject and object to give complete meaning of the sentence. It shows that who is doing what in the sentence. It is an action verb which requires an agent to do something in the sentence. It shows that someone does a job somewhere; meaning that an agent/a subject does a job that is why speaker uses this verb to show agent theta role prominently used in the sentence. The argument “مان=maan=I” is subject or an agent of the sentence that performs action of doing a job. The context of the sentence shows that there can be three reasons behind using Agent theta role prominently. Firstly, the verb phrase “=ڪندو آهيان=kando aahiyani=do” is a transitive verb which needs minimum two arguments (subject and object) to give complete meaning of the sentence. Thus, in this way, verb phrase of the sentence (19) makes speaker use subject/agent prominently to show action in the sentence. Secondly, this verb is an action verb which requires an agent to do action that is why speaker uses Agent prominently. Thirdly, it is the context of the sentence which makes speaker use Agent prominently to show action of the sentence. Thus, it can be said that it is context of the sentence which pushes the speaker to use agent theta role prominently in the sentence.

3.2.2 Theme Theta Role

Example 20. اسان کي بابا اسکول مو ڪليندو هو.

S. NO/ coding	Sentence Description	Sentence
231	Sindhi in Arabic	اسان کي بابا اسکول مو ڪليندو هو.
	Sindhi in Roman	Assan khy baba iskool mokleendo ho.
	Transliteration	Assan=we; khy=have; baba=father; iskool=school; mokleendo=will send; ho=was.
	Translation	Father would send us to school. Or Father used to send us to school.
	Syntactic Analysis	(Subject: بابا=baba=father, Object Complement: کي=Assan khy=us, Verb Phrase: مو ڪليندو هو=mokleendo ho=would send, Prepositional Phrase: اسکول=iskool=to school)

The verb phrase of the sentence (20) is “مو ڪليندو هو=mokleendo ho=would send/used to send”. The morpheme “مو ڪليندو=mokleendo=will send” is a transitive verb which requires a subject and object to give complete meaning of a sentence. It is an action verb which needs an agent to do action in the sentence. The speaker is compelled (because of the context) to use Agent and Theme theta roles prominently in order to show the action of sending something from someone to someone else. However, in this sentence, the speaker focuses on the Theme in order to show the thing that undergoes the action of the sentence. The context of the verb phrase (being transitive verb and an action verb) makes

the speaker use subject/agent and object/theme prominently. The speaker is trying to show that his father would not send them; where ‘father’ is the agent/subject of the sentence and ‘us’ is theme of the sentence. Therefore; it can be said that it is context of the sentence which makes the speaker to use a verb which uses prominently the theme theta role in the sentence.

3.2.3 Recipient Theta Role

تقریبن صبح تائین مونکی انهن جو میسیج اچی ویو موبائل تی Example 21.

S. NO/ coding	Sentence Description	Sentence
N495	Sindhi in Arabic	تقریبن صبح تائین مونکی انهن جو میسیج اچی ویو موبائل تی.
	Sindhi in Roman	Taqreeban subho taien monkhy unhan jo message achi wayo mobile ty.
	Transliteration	Taqreeban=almost; subho=morning; taien=till; monkhy=I/me; unhan=them; jo=of; message; achi=come; wayo=received/got; mobile ty=on mobile, Adverbial Phrase: تقریبن=taqreeban=almost, صبح=subho taien=till morning)
	Translation	I got their message on my mobile by in the morning. Or I received their message on mobile very soon.
	Syntactic Analysis	(Subject: انهن جو میسیج =monkhy=I, Object: مونکی =unhan jo message=their message, Verb Phrase: اچی ویو =achi wayo=received/got, Prepositional Phrase: موبائل تی =mobile ty=on mobile, Adverbial Phrase: تقریبن =taqreeban=almost, صبح تائین =subho taien=till morning)

The verb phrase of the sentence (21) is اچی ویو “=achi wayo=received/got”. This verb phrase has been used as a transitive verb which requires minimum two arguments (subject and object) to show complete action of the sentence. The verb shows action of coming something to someone; it shows something (a message/ an sms) comes to someone from someone else that is why the verb needs a person (a recipient) who receives the message in the sentence, which makes speaker to use the recipient theta role prominently. The context of the sentence shows that the speaker tries to show that someone sent him a message on his mobile phone number. It shows that they (subject/agent) sent a message (object/theme) to him (recipient); where ‘they’ is an agent; ‘a message’ is a theme and ‘him’ is a recipient of the message. It is context of the situation which makes the speaker use such verb which shows recipient theta role prominently in the sentence.

3.2.4 Locative Theta Role

ء اسان رهون پیا پنٹائی ہلپار ک . Example 22.

S. NO/ coding	Sentence Description	Sentence
106	Sindhi in Arabic	ء اسان رهون پیا پنٹائی ہلپار ک .
	Sindhi in Roman	Ain assan rahon paya pantai hillpark mei.
	Transliteration	Ain=and; assan=we; rahon=living; paya=are; pantai hillpark; mei=in.
	Translation	and we are living in Pantai Hill park.
	Syntactic Analysis	(Subject: اسان=assan=we, Object: zero object, Verb Phrase: رهون پیا=rahon paya=are living, Prepositional Phrase: پنٹائی ہلپار ک=pantai hillpark mei=in Pantai Hill park, Conjunction: ء=ain=and)

The verb phrase of the sentence (22) is رهون پیا “=rahoon paya=are living”. This verb is an intransitive verb whose action does not pass from subject to the object rather it remains only to the subject of the sentence. It is an action verb which requires an agent to do action in the sentence. The verb shows action of living somewhere by someone; it shows someone (the speaker) is living somewhere called Pantai hillpark that is why speaker uses a verb that needs an argument (an area) to be shown as location of living in the sentence. It is the context of the sentence which makes the speaker to prominently use the locative theta role in order to show location of living in the sentence. Therefore; it can be said that it is context of the sentence which makes the speaker to use a verb which shows prominently the locative theta role in the sentence.

3.2.5 Beneficiary Theta Role

پوءِ هُن جیکو آهي سو مونکي پاڻ سان گڏ کنيو. Example 23.

S. NO/ coding	Sentence Description	Sentence
N381	Sindhi in Arabic	پوءِ هُن جیکو آهي سو مونکي پاڻ سان گڏ کنيو.
	Sindhi in Roman	Poi hun jeko aahy so monkhy pan saan gad kanyo.
	Transliteration	Poi=then; hun=him; jeko=that; aahy=is; so=that; monkhy=me; pan=himself; saan=with; gad=together; kanyo=took.
	Translation	Then he took me together with himself.
Syntactic Analysis	(Subject: هُن=hun=he, Object Complement: کنيو=kanyo=took, Verb Phrase: جيڪو آهي سو=poi=then/after that, Adverbial Phrase: پاڻ سان گڏ=jeko aahy so= that, =pan saan gad=together with himself)	

The verb phrase of the sentence (23) is کنيو=kanyo=took". It is a transitive verb (Rashidi, 2007) which needs two arguments subject and object to show complete action in the sentence. It is an action verb which requires an agent to do action in the sentence. The verb shows some action of an Agent; it shows someone is taking someone else to some place that is why the verb needs two persons (an Agent and a beneficiary) to show action of the sentence, which makes speaker to use Beneficiary theta roles prominently. It is context of the situation which makes the speaker use such verb which shows beneficiary theta role prominently in the sentence. The context of the sentence shows that the argument having beneficiary theta role (me) has been used prominently in order to show the beneficiary of the sentence.

3.2.6 Goal Theta Role

أن وقت اسان جيڪو آهي سو گهوتڪي هليا وياسين. Example 24.

S. NO/ coding	Sentence Description	Sentence
N298	Sindhi in Arabic	أن وقت اسان جيڪو آهي سو گهوتڪي هليا وياسين.
	Sindhi in Roman	Una waqt assan jeko aahy so Ghotki halya wayasein.
	Transliteration	Una=that; waqt=time; assan=we; jeko=that; aahy=is; so=that Ghotki; halya=went; wayasein=went/gone.
	Translation	We went to Ghotki at that time.
Syntactic Analysis	(Subject: اسان=assan=we, Object complement: هليا وياسين=Ghotki, Verb Phrase: هليا وياسين=halya wayasein=went, Adverbial Phrase: أن وقت=una waqt=at that time, جيڪو آهي سو=jeko aahy so=that is that)	

The verb phrase of the sentence (24) is هليا وياسين=halya wayasein=went". The verb shows action of going somewhere by someone; it shows someone (the speaker) is going somewhere called Ghotki which makes speaker to use a verb that needs an argument (a place: Ghotki) to be shown as destination or goal of action in the sentence. Thus, speaker does not have any option but to use an argument prominently which shows goal of action in the sentence. This verb is an intransitive verb in Sindhi language, and it does not require an object or a theme to be used at the object position in the sentence. However, such verb does need an argument which shows goal of action in the sentence. The speaker is trying to show that he along with his friend went to Ghotiki; where 'we/they' is the agent/subject of the sentence and 'Ghotiki' is goal of the sentence. Therefore; it can be said that it is context of the sentence which pushes the speaker to use a verb which uses prominently goal theta role in the sentence.

4. Conclusion

The number of theta roles differs from language to language; every language has certain number of theta roles and thematic relations assigned to their arguments in sentences. This study tried to analyse and investigate the prominent theta roles with the help of the theoretical framework proposed by Carnie (2006). It has been found from the data that the Sindhi language has all the theta roles which are proposed by Carnie (2006). The data (1,649 sentences) in this research study show that the Sindhi language has all (09) theta roles (what Carnie has proposed) and some strange cases. Carnie's nine proposed theta roles are: *agent, experiencer, theme, goal, recipient, locative, source, instrument and beneficiary*. Out of these nine, six theta roles have been found prominent in the Sindhi language. The six prominent theta roles assigned by the verbs to their arguments are: *agent, theme, beneficiary, recipient, locative and goal*. Sindhi language is one of the languages which are known as agreement language languages (Chomsky, 1995). The verbs of the

Sindhi language are mostly action verbs which need an agent to do an action in sentences. An agent needs mostly a theme to undergo its action in a sentence. The Sindhi verbs have beneficiaries which benefit from the action of the agent and theme in a sentence. The Sindhi verbs also have recipient which are recipients of something in a sentence. According to the study of Hovav M. R. (2004), the hierarchy of the prominent theta roles in the Sindhi language is: *Agent > theme > beneficiary > recipient > locative > goal*. However; this is not the final one; broader study is to be carried out to find exact hierarchy of the theta roles in Sindhi.

4.1 Contribution

The primary aim of this study is to apply the theta role theory on the Sindhi language verbs using the framework proposed by Carnie (2006). This study has successfully applied the theory on the verbs of Sindhi language. As we know from the literature, in Sindhi, thematic roles have not yet been analysed and investigated using the theory applied to the current study. Thus, this study serves as a preliminary in the area; it gives way for conducting similar research on the area in future. The same research can be replicated in the syntax of other languages in the world. This research work can be used as base to conduct research in syntax especially in theta roles and prominent theta roles in any languages.

References

- Adwani, B. (1985). *وڈو سندی ویاکرڻ*. Jamshoro.: Institute of Sindhalogy, Jamshoro, Sindh.
- Allana, G. A. (2010). *سنڌيڪا سندی گرامر*. Karachi.: Sindhica Academy, Karachi, Pakistan.
- Arshad, A. (1986). *فیق گرامر*. Hala.: International Academy, Hala, Sindh, Pakistan.al.,.
- Baker, M. C. (1996). Thematic Roles and Syntactic Structure. *Liliane Haegeman (ed)*. In *Elements of Grammar*, 73-137.
- Be, M. Q. (2006). *سندی ویاکرڻ*. Hyderabad: Qaleech, M. (2006) (J. Sindhi Adabi Board Ed.). Hyderabad.: Sindhi Adabi Board, Jamshoro, Sindh, Pakistan.
- Bierwisch, M. (2006). Thematic Roles- Universal, Particular, and Ideosyncratic Aspects. *Ina Bornkessel, Matthias Schlesewsky, Bernard Comrie, Angela D. Friederici (Eds. Semantic Role Universals and Argument Linking, Walter de Gruyter, Berlin*, 89-126.
- Carnie, A. (2006). *A general Introduction* (Second ed.). USA.: Blackwell Publishers Ltd.
- Chano, M. I. (2011). *اسان سندی گرامر* Mehrabpur, Sindh, Pakistan.: M. Sindhi Sahat Ghar, Sindh, Pakistan. Ed.
- Devis, A. R. (2009). Thematic Roles. *online 1 (202) 449-1315*.
- Dowty, D. (1991). Thematic Proto-Roles and Argument Selection. *Language*, 67(3), 547-619.
- Ezeizabarrena, M. J. (2012). The (in)consistent ergative marking in early Basque: L 1 vs child L 2. *Lingua*(122), 303-317.
- Grimshaw, J. (1990). *Argument Structure*: Cambridge, Massachusetts: MIT Press.
- Hackl, M. (2013). The Syntax-semantics interface. *Lingua*(130), 66-87.
- Harley, H. (2013). External Arguments and the Mirror Principle: On the distinctness of Voice and v. *Lingua*(125), 34-57.
- Holmberg, A. R., I. (2013). The syntax-morphology relation. *Lingua*(130), 111-131.
- Jokhio, A. H. (2011). *ویاکرڻ جي اهم جُز فعل جو مختصر اپیاس*. *Sindhi Boli Tahqeeqi Journal, Sindhi Language Authority, Hyderabad, Sindh, Pakistan*, , 2, 78-100., 78-100.
- Jokhio, A. H. (2012). *جزم جي ڈرست استعمال جو مسلفو*. *Sindhi Boli Tahqeeqi Journal, Sindhi Language Authority, Hyderabad, Sindh, Pakistan*, 68-90.
- Jokhio, A. H. (2013a). *فعل لازمي ئ فعل متعدى جو مختصر اپیاس*. *Sindhi Boli Tahqeeqi Journal, Sindhi Language Authority, Hyderabad, Sindh, Pakistan*, ., 4175.
- Jokhio, A. H. (2013b). *وضاحت در وضاحت*. *Sindhi Boli Tahqeeqi Journal, Sindhi Language Authority, Hyderabad, Sindh, Pakistan*, ., 160-162.
- Lehman, C. (2005). *Participant roles, thematic roles and syntactic relations*. Paper presented at the SKY Conference on 'Syntactic Functions-Focus on the Periphery', Helsinki, 14-15. 11. 2003.
- Luuk, E. (2009). The Noun/Verb and Predicate/Argument Structure. *Lingua*, 119, 1707-1727.
- Marantz, A. (2013). Verbal argument structure: Evidents and participants. *Lingua*(130), 152-168.
- Radford, A. (2009). *Introduction to English Sentence Structure*.: Cambridge: Cambridge University Press.
- Rappaport, M. H. L., B. (2004). Deconstructing Thematic Hierarchies. *Architectures, Rules, and Preferences: Afrestschrift for Joan Bresnan* (pp. 451-468): Stanford, CA: CSIL Publications.
- Rashidi, M. (2007). *سوچھرو*. Kandyaro: Roshini Publication Kandyaro, Sindh, Pakistan.
- Sindhi, D. (2010). *سنڌيڪا سندی گرامر*. Karachi: Sindhica Academy, Karachi, Sindh, Pakisan.
- Swart, P. d. e. a. (2008). Animacy, argument structure, and argument encoding. *Lingua*(118), 131-140.
- Verhoeven, E. (2014). Thematic Prominence and animacy asymmetries. Evidence from a cross-linguistic production study. *Lingua*, 143, 129-161.
- Wechsler, S. (2005). Thematic Structure *The Encyclopedic of language and Linguistics* (Second ed.): Elsevier.
- Williams, E. (1987). NP Trace in Theat Theory. *Linguistics and Philosophy. Topics in Syntax and Semantics: NP, Non-A Binding*, 10(4), 433-447.
- Willits, J. A. e. a. (2007). *Distributional Statistics and Thematic Role Relationship*. Paper presented at the Proceedings of the 29th Annual Meeting of the Cognitive Science Society.