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Pakistan's Water Challenges: A Systemic Functional Analysis of Dawn and The News International Editorials





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Abstract

This paper draws a comparison between *Dawn* and *The News* through Systemic functional linguistics (SFL) in an attempt to identify how linguistic decisions used frame the water scarcity problems faced by Pakistan. The paper will be based on the metafunction framework developed by Halliday (1994) to analyze theme-rheme structures and transitivity processes in 10 editorials published between 2024 to 2025. A mixed-method approach was used, with a qualitative textual analysis being used alongside quantitative frequencies of marked and unmarked themes and process types. The results indicate that *Dawn* focuses on systemic change and institutional accountability, whereas *The News* accentuates human agency and accountability. Such language patterns show how grammatical forms encode ideology and the means through which the public can be informed about national matters, which can be applied to the study of media literacy, journalism, and discourse.

Keywords: Thematic Analysis, Transitivity, Ideological Framing, Systemic Functional Linguistics, Media Discourse.

1. Introduction

A combination of hydrological stress and macroeconomic instability, which have been increasingly experienced in Pakistan in 2024-2025, is a national crisis. The chronic water scarcity in both urban and agricultural regions, declining per-capita access to water, and ineffective irrigation techniques that put food production and livelihoods under threat were repeatedly mentioned in the media reporting in 2024 and 2025 (Dawn, "Water for some; Dawn, Agriculture: Water scarcity - an irrigation crisis). Meanwhile, the release of the Pakistan Economic Survey 2024-25 and media reports on the topic were indicative of a slow growth rate, elevated inflation in previous years, and limited fiscal room - all of which make them susceptible to environmental shocks and diminish adaptive capacity (Dawn, "Economic Survey 2024-25: Growth stumbles...). These similar strands of thread water infrastructure lack and poor macroeconomic future position, these two join forces establish the empirical phase of analysis of how national newspapers framed responsibility and urgency, and potential solutions.

SFL would be specifically apt for this research since it makes the connection between

clause grammar and social meaning through three interrelated metafunctions: ideational (who does what to whom), interpersonal (stance, modality), and textual (information flow in terms of Theme and Rhyme). The SFL tools' transitivity analysis to categorize material, mental processes, relational processes, verbal processes, behavioral processes, existential process; theme analysis to distinguish between marked and unmarked Themes; close attention to nominalization and agency help researchers to pass beyond the surface wording in their research to claims about ideological orientation (Hallidayian tradition). Published in 2024-2025, the empirical SFL research proves the usefulness of these techniques when it comes to the news discourse in Pakistan, which offers methodological precedents and coding strategies that can be easily applied to the Dawn vs. The News comparison.

Media discourse analysis is important since newspapers are not merely reporting events that take place but create social realities through what actors, processes, and circumstances they foreground. During crises, the word choices (whether the state of the economy is the kind of thing that fell or the bundle of policy choices that resulted in contraction) can determine what the reader attributes to agency and blame, and it can impact what kind of policy discussion will ensue. Studies based on critical discourse and SFL indicate explicitly that strategies such as thematic organization (Theme-Rheme), types of processes (Transitivity), and nominalization can either bring to the forefront human/institutional actors or mislead agency to the advantage of the abstract processes, and such a shift has a definite political effect. These framing decisions, hence, are important to the citizen comprehension and democratic responsibility in the turbulent 2024-25 episode in Pakistan.

Although much has been said about the water shortages in Pakistan, as well as economic indicators in 2024-25, very little clause-level comparative analysis has been done, indicating how two of the most popular English-language newspapers, Dawn and The News, linguistically make these crises. Namely: Have the newspapers grounded human agency (which may depoliticize accountability) in marked Themes and inanimate nominalizations, or do they use agentic material processes and interpersonal modalities that directly place responsibility and demand action? What

are the agency distributions in their transitivity decisions between government bodies, market actors, forces of nature, and the victims? The responses to these questions through SFL tools will demonstrate how the media discourse leads to the formation of people's awareness - and policy pathways - in the face of the 2024-25 water and economic crisis in Pakistan.

1.1. Research objectives

- 1. To analyze the linguistic choices that represent the water scarcity issue in Pakistani newspapers.
- 2. To determine the foregrounded and backgrounded agencies on the issue of water scarcity.

1.2. Research Questions

- 1. How do two Pakistani newspapers represent the issue of water scarcity through linguistic choices?
- 2. What is foregrounded and backgrounded on the issue of water scarcity?

2. Literature Review

Pakistani scholars have been progressively using the framework of linguistics to interpolate how media discourse operates in constructing social reality in the last few years. The research article by Fatima et al. (2024) is also noteworthy as they performed a systemic functional linguistic (SFL) analysis of the nominalization in the Pakistani English news articles. They discovered that nominalizations of processes (e.g., development, reduction, implementation, etc.) are the most common, and thus transformed dynamic processes into abstract objects, and agentic actors remain obscured. Their data showed that these transformations enable journalists to report events more neutrally or detachedly, with less overt blaming of responsibility and, as such, moderate ideological positioning. This paper highlights the fact that grammar as a meaning-making in news discourse is itself a meaning-making. Simultaneously, Habib and Zahra (2024) carried out an eco-linguistic study on the representations of floods in the selected Pakistani print media and discussed the semiotics of climate change and disaster through the semiotics of linguistic and visual articulation of disasters. Even though they did not strictly apply the SFL methodology of the metafunctional analysis of media discourse, their contribution proves that the lexical

and thematic strategies of the discourse about the environmental crisis generate emotional responses, foreground vulnerability, and influence the population in their perceptions of environmental threat. Faraz and Saleem (2024) are another relevant study that investigated the organization of the discourse on the topic of the China-Pakistan Economic Corridor (CPEC) in relation to the Eco linguistics approach to the issue; the corpus analysis showed that the concept of development was often organized using nominalization, passive constructions, and unmarked themes - thus, putting the reader in a passive posture instead of an active participant of the process. All these studies point to one pattern: the discourse of Pakistani media is inclined to make use of the linguistic strategies (nominalization, unmarked themes, passive agency) that predetermine the positioning of readers and the ideological meaning.

This picture is expanded to encompass more general media framing research in other areas, not necessarily environmental or economic. As an illustration, Salahuddin (2024) examined the Pakistani politics as framed by the media and perceived by the audience and pointed out the central role of language in mediating the attitudes of people and supporting the dominant narratives. Her approach was not necessarily SFL, but the study demonstrates the role of linguistic framing in the ideology and opinions of people. In addition, Naveed et al. (2025) investigated gender neutrality in Pakistani-based newspapers concerning a critical discourse approach and discovered that even though gender neutrality is superficially employed in the newspapers, hidden gender hierarchies and biases in representing the gender issue prevail in the news language. Although this is not explicitly SFL-based, it is another example that language decisions in media communication are ideologically charged.

There are still great gaps in spite of the progress in these spheres. Numerous studies concentrate on single genres (e.g., flood reporting, textbooks, gender in media) or on single outlets; few studies adopt a comparative analysis of SFL in major national newspapers in multiple issues, particularly in relation to such fundamental issues of the country as water scarcity or economic instability in 2024-2025. Especially, the two-fold emphasis on the thematic (marked vs unmarked theme) and transitivity (process type and participant role) analysis in leading English newspapers is not well examined. It is an acute gap in the light of the conditions of water crisis

and economic instability in Pakistan, in which the media framing would be a potent tool of creating the perception of a reader and policy discourse.

Considering such a situation, the current research is aimed at elaborating upon these previous studies by using a hybrid SFL thematic-transitivity system to conduct a comparative study of two large English newspapers - Dawn and The News - to discuss Pakistan's water scarcity issues in 2024-2025. In this way, it builds upon the past studies (Fatima et al., 2024; Habib and Zahra, 2024; Faraz and Saleem, 2024), providing not only individual-genre and individual-outlet perspectives but a crosspaper comparative perspective with a clause-level detail. This comes at an opportune time since the way language constitutes agency, responsibility, and topical focus is important in bringing out how the media discourse can influence socio-political realities in the crisis facing Pakistan.

3. Methodology

3.1. Research Design

The current research design is a mixed-method research that incorporates both qualitative and quantitative aspects in order to have a comprehensive picture of the linguistic patterns in Pakistani English newspapers. The qualitative aspect is based on the explanation of the Systemic Functional Linguistics (SFL) model by Halliday (1994) that enables an elaborate analysis of how meaning-making was conducted in the news discourse. This method is appropriate in the analysis of the process of newspaper construction of agency, responsibility, and ideology as it focuses on the interdependence of the structure of language and social action. The quantitative element, however, entails descriptive statistics calculation of the occurrence and distribution of the linguistic characteristics, namely, thematic and transitive structures, in the two sampled newspapers. Such a qualitative and quantitative approach not only enables increased validity of the findings but also offers a more realistic picture of both interpretive sense and visible linguistic patterns. This type of mixed-method methodology corresponds to the suggestions of Creswell and Plano Clark (2018), who state that a combination of interpretative and statistical analyses allows deepening, improving reliability, and analytical triangulation in discourse-based research.

3.2. Data Source and Sampling

The resources used in this study include editorials that were published in two Englishlanguage Pakistan-based newspapers, which are considered the top two: Dawn and The News International, between April 2024 and May 2025. These newspapers have been chosen according to the large circulation of these papers, the integrity of their editorials, and the impact they have on the discussion in Pakistan. The sampling technique applied was a purposive sample in the sense that it was relevant and topically coherent to the research questions of the study. They were concerned with the water scarcity problem, the crisis of the Indus Basin, and economic reformsthemes of national discussions of 2024-2025 years. Every newspaper provided five editorials, which were chosen, and a corpus of about 270 clauses was formed. The selection criteria were as follows: (1) the article had to contain explicit mention of the water crisis or economic development; (2) it had to be published within the set timeframe; and (3) it had to be written by an editorial staff member and not by an opinion contributor to provide uniformity in the style and institutional language. Such a corpus size makes it possible to have both the depth of qualitative analysis and a certain amount of quantitative descriptive frequency comparison, as suggested by Fairclough (2010) when conducting critical discourse studies.

3.3. Analytical Framework

The analytical model is based on two key dimensions of the SFL model developed by Halliday (1994), that is, the thematic structure and the transitivity system.

3.3.1. Analytical Structure: Thematic Structure Analysis:

At the level of clauses, marked and unmarked themes were identified and characterized by thematic analysis. The theme in SFL is that of the departure of the message, which is the psychological subject of the clause. Unmarked themes are usually seen when the grammatical subject is the same as the theme, whereas marked themes are seen when another element (adverbial or complement) has been placed in the first position to emphasize or contrast (Eggins, 2004). This paper will examine how each of the newspapers previews some idea, actors, or circumstances by establishing whether a clause starts with a marked or unmarked theme and thus the subtle presentation of ideological standpoints.

3.3.2. Transitivity System Analysis:

The transitivity system was analyzed to discover the representations of actions, participants, and circumstances in the texts. The six types of processes proposed by Halliday (1994) were used: material (actions/events), mental (perception, cognition), relational(state/identity), verbal (Speech acts), behavioral (physiological/psychological behavior), and existential (Existence statements). Each clause was studied in terms of the type of process and the roles of the participants (Actor, Goal, Sensor, Carrier, Sayer, and so on), which, combined, demonstrate how the linguistic construction of agency and responsibility is made. This dimension shows the attribution of blame or responsibility of the water crisis to particular actors (e.g., government, farmers, or external factors) by the media or the concealment of agency through passive constructions or nominalization.

3.4. Procedure

The analysis was done in a number of systematic steps.

- a) Data Preparation: The downloaded editorials were in the form of text, and each article was given a different code (e.g., D1-D5 to Dawn and N1-N5 to The News). Unrelated textual information, like advertisements, captions, and photo credits, were removed.
- **b)** *Clause Segmentation*: Each editorial was divided into clauses according to Halliday's and Matthiessen's (2014) clause-complex framework in order to make sure that each unit corresponded to one process or event.
- c) Thematic Coding: The thematic coding was performed with the help of manual coding when the themes were detected at the very start of every clause. All the themes were marked or unmarked. The frequencies were estimated in both types of themes in the two newspapers, and this should have allowed comparison in the scope of the quantitative picture.
- d) *Transitivity Coding:* Clause coding involved coding of the process type and participant role. This was the step in accordance with the functional categorization principles developed by Halliday (1994) and Eggins (2004). To be consistent in classification, there was a codebook that was kept, and the unclear points were resolved through peer review.

- e) Analysis of Numbers: After the coding was done, the descriptive statistics (frequencies and percentages) were performed to demonstrate the frequency of the process type and thematic structure used in each newspaper. Comparative charts and tables were drawn to indicate the disparities in the linguistic performance of agency and topical emphasis.
- f) Interpretation: The results of the thematic and transitivity analysis were combined and analyzed qualitatively. The grammatical decisions were considered as the expression of ideological position, editorial framing, and socio-political orientation in the Pakistani context of 2024-2025.

4. Results and Discussion

Using Halliday's SFL model, a total of 270 clauses from two Pakistani newspapers, Dawn and The News International, were analyzed into theme-rheme structures. Each newspaper contributed 135 clauses from five editorials published between 2024-2025 on Water Crisis. Table 1. shows the number of editorials selected from each respective month in 2024 and 2025. For the analysis purpose, first twenty-seven clauses were selected from each editorial. The selection of twenty-seven clauses was based on the editorial that had lowest number of clauses i.e. 27 clauses in Dawn newspaper. To maintain consistency, same number of clauses were selected from each editorial. Each theme was further categorized into textual, marked topical (Circumstantial + participle), unmarked topical, and interpersonal themes following Halliday's framework.

Table 1: Number of Editorials selected from each month in 2024 and 2025

Month	No. of Dawn Editorials	No. The News International
		Editorials
April (2024)	1	1
Aug (2024)	0	1
March (2025)	2	2
April (2025)	1	1
May (2025)	1	0
Total Articles	5	5

4.1. Textual Metafunction

Findings reveal that *Dawn* newspaper shows a higher degree of unmarked themes with a total of 98 out of 135 themes, in comparison to *The News International* which had a frequency of 90 unmarked themes out of total 135 clauses. The percentage difference between both the newspapers is recorded as 5%. Similarly, the distribution of marked themes is dominant in The News International with a frequency of 45 out of 135. The percentage difference was noted as 5%. The dominant marked theme in the majority of the clauses is circumstantial, which begins the clause with a focus on location and time rather than the subject.

 Table 2:
 Total number of marked and unmarked themes

Newspaper	Total	Marked	Unmarked	%	Dominant
	Clauses	Themes	Themes	Marked	marked Type
Dawn	135	37	98	27.4%	Circumstantial
The News	135	45	90	33.3%	Circumstantial

According to Halliday (1994), theme can further be categorized into four major types. These types include textual, marked topical, unmarked topical and interpersonal. Table 3 shows the percentages of sub-types of theme analyzed in Dawn newspaper. Unmarked topical themes stood the highest with a total of 77 out of 135 themes followed by marked topical themes which includes circumstantial and participle themes with a total of 37 themes. Additionally, textual themes were also analyzed with a frequency of 21 showing connections between clauses that results in the creation of compound and complex sentences. Least employed themes were interpersonal showing direct and objective mode of reporting.

 Table 3:
 Percentage of Theme Sub-types in Dawn newspaper

Theme sub-types	Total	Percentage (%)
	Number	
Textual	21	15.5%
Marked Topical (Circumstantial + participle)	34	25.1%
Unmarked topical	77	57%
Interpersonal	3	2.2%

Table 4 shows the frequency and percentage of theme subtypes in The News International editorials. Highly used theme is unmarked topical with a number of 65 out of 135 themes, which is, however, less than unmarked themes seen in Dawn editorials. In contrast, the number of marked topical themes in The News International is higher than Dawn newspaper with a total of 44 themes. Similarly, the number of textual themes in The News exceeded the Dawn editorials by 4.5%. However, interpersonal themes ranked lowest, with only 1 occurrence showing the objective nature of editorials.

Table 4: Percentage of Theme Sub-types in The News International newspaper

Theme sub-types		Number	Percentage (%)
Textual		25	18.51%
Marked	Topical	44	32.5%
(Circumstantial + pa	(Circumstantial + participle)		
Unmarked topical		65	48.1%
Interpersonal		1	0.7%

4.1.1. Unmarked topical Themes

Analysis of the textual metafunction revealed a dominant use of unmarked topical Themes in both newspapers, showing that the text adheres to conventional English clause organisation and maintains informational clarity.

The examination of the clauses from *Dawn*'s editorials in Table 5 shows a clear dominance of unmarked topical Themes, as majority of the clause in the sample begins with the grammatical subject (e.g., *These words*, *The signs*, *Chashma reservoir*, *Pakistan*, *we*, *Climate disasters*). This thematic choice suggests that the newspaper follows a typical, subject-initial structure commonly employed in hard news and editorial writing. The text foregrounds actors and entities involved in the water crisis by maintaining unmarked themes, while presenting information in a direct and easily processable manner. A reputable newspaper is expected to maintain an objective and authoritative tone. This aim is achieved by the usage of marked themes in selected clauses that enhance textual clarity, stability, and cohesion.

Reader's perception is also created on the basis of the usage of unmarked themes. The

repetitive use of phrases such as *Pakistan*, we, the water scarcity, and the danger, the article subtly reinforces a collective national narrative, portraying water scarcity as a shared threat affecting the entire country. In a similar vein, the editorial gives environmental causes agency and urgency by emphasising entities like Chashma reservoir or climate disasters in Theme position, portraying them as pressing forces on Pakistan. Dawn's inclination towards unmarked themes reflects its adherence to coherence and informational neutrality while also making the reader focus on key actors and processes involved in shaping the water crisis narrative.

Dawn Newspaper			
Clause	Theme	Rheme	Type
These words by	These words by	ring especially	Unmarked
Benjamin Franklin	Benjamin Franklin	true for Pakistan	Topical
ring especially true		today	
for Pakistan today			
The signs are all	The signs	are all around us	Unmarked
around us			Topical
Chashma reservoir	Chashma reservoir	is near depletion	Unmarked
too is near depletion			Topical
The water scarcity is	The water scarcity	is predicted to	Unmarked
predicted to worsen		worsen going	Topical
going forward		forward	Theme
Pakistan has been	Pakistan	has been facing a	Unmarked
facing a severe		severe water crisis	Topical
water crisis			Theme
Pakistan is among	Pakistan	is among the most	Unmarked
the most water-		water-stressed	Topical
stressed countries in		countries in the	Theme
the world		world	
the country can	the country	can overcome	Unmarked
overcome increasing		increasing water	Topical
water insecurity		insecurity through	Theme

the efficient
management of its
water resources
are already Unmarked
experiencing Topical
Theme
were first hit by a Unmarked
heatwave and Topical
drought Theme
is very visible Unmarked
Topical
Theme
can severely Unmarked
stretch a country's Topical
resources Theme

Table 5. Clause with Unmarked theme in Dawn Newspaper

The thematic analysis of the selected clauses from *The News International* in Table 6 reveals a strong reliance on unmarked topical Themes, with all clauses beginning with the grammatical subject. This writing style underscores the newspaper's inclination for a direct and assertive reporting style, commonly seen in political and economic debates. Key institutional actors such as *Indus River Authority (IRSA)*, the government, *Water companies*, *Pakistan*, *Sindh*, and the federal government are foregrounded in the clause-initial position. This emphasis highlights the newspaper's approach of directing responsibility, accountability, and agency in water-scarcity issues.

The News International constructs a narrative of institutional failure and national urgency by continuously placing institutional and national actors in the Theme position. The Themes like the government, Pakistan, Water companies, and the federal government focus on the discussion around actors who control power and possess authority to exercise it. Similarly, Sindh and Water shortages are placed on

the front to emphasize the multiple regional implications of the crisis. The analysis suggests that the water issue is not simply an environmental crisis rather it is highly political in nature.

The usage of Themes such as 'we' reflects a collective voice, showing the public as part of the problem and solution. This pronoun depicts a failure on the part of institution on neglecting this issue while it also functions ideologically to encourage national unity and shared responsibility. Moreover, the clauses such as 'The consequences of such a shortage' shift attention to the urgency of the situation, demanding serious actions to be taken by the state.

The choice of unmarked themes in *The News International* reflects a desire for clarity and directness while also strategically foregrounding institutional actors, regional vulnerabilities, and national consequences, creating an implicit ideological message that the water crisis is deeply connected to governance issues and requires thorough accountability, suitable measures, and political will.

The News International			
Clause	Theme	Rheme	Type
Indus River Authority	Indus River Authority	Says	Unmarked
(IRSA) says	(IRSA)		Topical
			Theme
Water shortages mean	Water shortage	Mean	Unmarked
			Topical
			Theme
Water distribution is a	Water distribution	is a disputed	Unmarked
disputed issue		issue	Topical
			Theme
Pakistan can face huge	Pakistan	can face huge	Unmarked
challenges		challenges	Topical
			Theme
Pakistan cannot afford to	Pakistan	cannot afford to	Unmarked
commit avoidable		commit	Topical
mistakes			Theme

The country must	The country	must realize	Unmarked
realize			Topical
			Theme
the government is much	the government	is much more	Unmarked
more responsible		responsible	Topical
			Theme
Water companies in our	Water companies	have been given	Unmarked
country have been given		the licence to	Topical
the licence to exploit		exploit natural	Theme
natural resources against		resources	
a nominal fee and make		against a	
money.		nominal fee and	
		make money.	
we cannot lose this lone	we	cannot lose this	Unmarked
source of water		lone source	Topical
			Theme
Sindh is on the brink of a	Sindh	is on the brink	Unmarked
severe water crisis		of a severe	Topical
		water crisis	Theme
The consequences of such	The consequences of	are dire,	Unmarked
a shortage are dire,	such a shortage	threatening	Topical
threatening agricultural		agricultural	Theme
production and drinking		production and	
water supplies across the		drinking water	
region		supplies across	
		the region	
The federal government	The federal	must not take	Unmarked
must not take the	government	the growing	Topical
growing protests in Sindh		protests in	Theme
lightly		Sindh lightly	

Table 6. Clause with Unmarked theme in The News International Newspaper

While both *Dawn* and *The News International* primarily use unmarked topical Themes, the focus of their Themes varies significantly, disclosing contrasting editorial preferences. *Dawn emphasizes structural and long-term causes of the problem, especially climate change and ecological vulnerability. The News International, on the other hand, emphasizes political and institutional players, portraying the situation as an issue of poor administration, accountability, and governance. As a result, The News employs an argumentative, actor-focused approach while Dawn takes a descriptive, analytical attitude emphasizing vulnerability.*

4.1.2. Marked topical Themes

To guide reader interpretation, the newspaper deliberately uses circumstantial and evaluative information in the spotlight. Before introducing the main clause, initial clauses such as "Ranking as we do among the top 10 countries...", "This year we may have averted any significant damage...", and "Yet, despite these alarming signals..." use temporal and evaluative adverbials as Themes, placing the information contextually. Likewise, spatial and situational elements like "At the urban level..." and "In large parts of Karachi..." serve as circumstantial marked Themes, stressing place or scope before presenting the main action.

This style contradicts the earlier usage of unmarked topical Themes, reflecting that *Dawn* deliberately uses marked themes to signal shifts in perspective, emphasis, or evaluative stance. The major purpose of using marked themes is to make provide the context by adding temporal or spatial orientation and frame urgency of the matter, while also making the text engaging. Phrases such as "despite these alarming signals" or "On this World Water Day" direct the attention towards the specific occasions and deadlines helping readers to interpret the importance of propositions and related actions.

Dawn			
Clause	Theme	Rheme	Type
Ranking as we do	Ranking as we	we must urgently	Marked Theme
among the top 10	do	prepare ourselves	
countries			
This year we may have	This year	we may have averted	Marked Theme

averted any significant significant any damage... damage... to Marked theme despite these alarming despite these we continue signals, we continue to alarming signals squander what little water we have squander what little water we have At the urban level, At the should be mandatory Marked theme urban water metering, leak level, water components of detection, and metering, leak municipal planning detection... wastewater recycling should be mandatory components municipal planning On this World Water On this World Pakistan must Marked theme Day, Pakistan must Water Day, recognise recognise On the face of it, the On the face of it the schemes... do Marked theme not appear to have schemes for new irrigation channels, any linkage water conservation and recycling in the urban areas and investments in water storages do not appear to have any

linkage

IN large parts of IN large parts of there is no water to Marked

Karachi, there is no Karachi be had Circumstantial

water to be had

Table 7. Clause with marked theme in Dawn Newspaper

The News International, as displayed in table 8, shows a strategic foregrounding of temporal, locational, and structural elements guiding reader's interpretation of events

and their significance. Before presenting the main information, clauses such as "that from April 1 to June 10, there will be no water available", "This year, particularly, the lack of snow... has resulted in a dip...", and "On Monday, Adviser to the Prime Minister... had assured Sindh Senior Minister Sharjeel Memon" employ temporal adverbials as Themes, building a clear chronological context. Likewise, space bound Themes, such as "In Karachi" and "From urban centres like Karachi", highlight the spatial scope of the issue, highlighting affected areas before explaining the consequences.

Additionally, conditional Themes such as "Had the government been quick..." frame conditionality, providing rhetorical cues about causality or possibility. Topical elements such as "people" and "the government" are often embedded within these marked Themes, combining situational or temporal framing with agent focus.

The News			
Clause	Theme	Rheme	Type
April 1 to June 10, there will	from April 1 to June 10 +	will be no water	marked
be no water available	there	available	
This year, particularly, the	This year (Theme Time)	has resulted in a dip	
lack of snow has resulted in	+ the lack of snow		marked
a dip			
At a time when other	At a time (Theme Time)	other countries are	
countries are ever-ready		ever-ready	marked
in a world of technological	in a world (Theme	can act independently	marked
advancements, Pakistan can	Location) + Pakistan		
act independently.			
In Karachi, water shortages	In Karachi (Theme	are a norm, with	marked
are a norm	Location)	people relying on	
		private tankers to meet	
		their water needs	
Now that people have been	Now that (Theme Time)	have been left on their	marked
left on their own	+ people (Topical)	own	
(Conditional) Had the	Had (Structural/Finite) +	been quick at meeting	marked

government been quick	the government (Topical)	people's domestic
		water needs
From urban centres like	From urban centres like	where taps run dry for marked
Karachi, where taps run dry	Karachi	days
for days		
On Monday, Adviser to the	On Monday	Adviser to the Prime marked
Prime Minister on Political		Minister had assured
and Public Affairs Rana		Sindh Senior Minister
Sanaullah had assured Sindh		Sharjeel Memon
Senior Minister Sharjeel		
Memon		

Table 8. Clause with marked theme in The News International Newspaper

While both *Dawn* and *The News International* employ marked Themes to provide context, the nature of these Themes differs according to their editorial focus. In *Dawn*, marked Themes frequently take the form of evaluative, temporal, or circumstantial adverbials, such as "*This year*", "despite these alarming signals", and "In large parts of Karachi", which frame information with emphasis on urgency, context, or moral evaluation. This thematic choice reflects climate-related processes and systemic risks, strengthening *Dawn's* analytical and cautionary stance. On the other hand, *The News International* foregrounds time-bound, space-bound, and condition-bound elements often coupled with institutional or human actors, such as "On Monday", "In Karachi", and "Had the government been quick". These Themes serve to situate events in context while emphasizing responsibility and accountability altogether, reflecting the newspaper's governance- and policy-oriented stance.

4.1.3. Textual and Interpersonal Themes

Textual Themes such as *and*, *but*, *that*, and *however* are used in both *Dawn* and *The News International* to create unity and guide readers through the flow of information; however, their purposes and frequency varies. Textual Themes in Dawn such as "that the water crisis confronting us," "and the matter," or "However, water regulator Irsa…" functions to connect arguments logically, build extended commentary, and sustain a formal, editorial tone. They help the writer in developing a cohesive

explanation of reasons, effects, and solutions within a particular context. In contrast, *The News* uses textual Themes like "and it's all about water," "that all concerns regarding the controversial canals project...", and "but also pose a significant ecological threat" in a more event-oriented, report-like manner, guiding the text move swiftly between problem description, ongoing events, and policy controversies.

Themes	Examples from Dawn	Examples from The News
Textual	• that the water crisis	• and it's all about
	confronting us	water
	• and the matter	• that all concerns
	 and the crisis persisted 	regarding the
	and profiteers	controversial canals
	However, water regulator Irsa	project
	• that is putting millions of lives	• and yet no final
	at risk	decision has been made
		• but also pose a
		significant ecological
		threat
Interpersonal	• Unfortunately, no material good	• To be fair, their fears
	came from any of it	are neither new nor
		unfounded

Table 9. Textual and interpersonal themes in Dawn and The News

Interpersonal Themes appear in *Dawn more*, as seen in expressions such as "*Unfortunately*," and "*To be fair*" than *The News. In both the newspapers*, these themes foreground the writer's judgment, stance, and evaluative attitude, signaling an editorial voice that interprets events rather than merely reporting them.

4.2. Ideational Metafunction (Transitivity)

The ideational metafunction highlights the experiential meaning of the text, revealing how processes, participants, and circumstances construct the water crisis as a material, political, and ecological reality. Table 10 shows the frequency of process types in the selected clauses from Dawn and The News. Both newspapers use higher frequency of material process in comparison to other process types with Dawn leading by a margin

of 3.4%. This proportion of materials processes is same as found by Qoriah (2018). Same is the case with relational processes where Dawn leads by a margin of 1.8%. On the other hands, The News International uses verbal and mental processes more than Dawn newspaper, with a total of 13% and 6.6% respectively. The number of existential processes showed little difference in both newspapers, with only occurring once or twice out of 135 clauses showing inevitability of crisis.

Newspaper	Material	Mental	Relational	Verbal	Existential	Total
Dawn	71	6	43	13	2	135
The News	66	9	41	18	1	135

Table 10. Frequency of process types in Dawn and The News

Participants in ideational metafunctions positionalize the roles performed by different agents and construct a narrative of scarcity and conflict. This analysis helps in examining the time, cause, and extent, which leads to contextualizing events by creating a link between governmental bodies, public, and water crisis.

4.2.1. Material Processes

Both *Dawn* and *The News* rely heavily on Material processes to depict the water crisis as an unfolding chain of concrete actions and consequences, but the two newspapers differ in how they construct agency and responsibility.

Newspaper	Process	Participants	Examples from Text
	Type		
Dawn	Material	Actor: A UN	A UN report had placed Pakistan
	(placed)	report	
		Goal: Pakistan	
	Material	Actor: political	political instability continue to
	(impede)	instability	impede water sector reforms
		Goal: water	
		sector reforms	
	Material	Actor: We	we must urgently prepare ourselves
	(prepare)	Goal: impacts	for the impacts
	Material	Actor: Sindh	Sindh is facing a 50pc water shortage

	(facing)	Goal: water	
	(moning)	shortage	
	Material	Actor: profiteers	and profiteers have gradually taken
	(taken over)	Goal: the	
	(taken over)	provision	over the provision
The News	Material	Actor: The	The simmering political fault lines
THE NEWS	(floated up)		have floated right up
	(Hoated up)	C	nave noated right up
		political fault	
	36 / 11	lines	
	Material		if the federal government failed to
		federal	resolve the matter
	resolve)	government	
		Goal: the matter	
	Material	Actor: one that	one that has fueled nationalist
	(fueled)	(issue)	movements
		Goal: nationalist	
		movements	
	Material	Actor: Public	Public awareness campaigns could
	(improve)	awareness	significantly improve water
		campaigns on	management
		water	
		conservation	
		Goal: water	
		management	
	Material:	Actor: people	people look for alternatives
	(look for)	Goal:	
		alternatives	

Table 11. Material Processes Examples in Dawn and The News

Dawn consistently assigns clear, identifiable Actors such as UN reports, political instability, we, Sindh, or profiteers, which creates a sense of direct accountability. These processes—placed, impede, prepare, facing, taken over—frame the crisis as the

outcome of institutional failures, human actions, and governance gaps, emphasizing structural causes and the need for proactive management. The recurrent use of human or institutional Actors reflects an editorial stance that foregrounds responsibility and the urgency of corrective action.

The News, on the other hand, frequently emphasises situational or systemic events rather than overt human agency. Instead of placing direct responsibility, actors like political fault lines, the concerning situation, or public awareness efforts highlight the causes and circumstances producing the problem. Processes like "floated up," "fuelled," and "improve" depict dynamic movement and growing tensions, but they typically describe events as emerging phenomena rather than intentional institutional failings. Human agents are portrayed as reactive, reacting to circumstances rather than promoting change, even when they do appear, such as when people search for alternatives.

4.2.2. Relational Processes

Both *Dawn* and *The News* make extensive use of Relational processes to classify, describe, and evaluate the state of Pakistan's water crisis. However, they differ in how they frame responsibility, severity, and the nature of the problem.

Newspaper	Process Type	Participants	Examples from Text
Dawn	Relational:	Carrier: water	water regulator IRSA is hopeful
	Attributive (is)	regulator IRSA	
		Attribute: hopeful	
	Relational:	Carrier: the	As the factors are likely to get
	Inceptive (get)	factors	worse
		Attribute: worse	
	Relational:	Carrier: growing	since growing water
	Attributive	water shortages	shortages have become the
	(become)	Attribute: the	'new normal'
		'new normal'	
	Relational:	Carrier: a country	when a country like Pakistan is
	Attributive (is)	like Pakistan	prone to multiple events
		Attribute: prone	

		to multiple	
		events	
	Relational	Carrier:	and Pakistan's future water
	Attributive	Pakistan's future	outlook grows even more
	(grows/becomes)	water outlook	precarious
		Attribute: even	
		more precarious	
The News	Relational	Possessor: Any	Any dip could have a huge
	Possessive	dip in agricultural	impact
	(have)	output	
		Possessed: a huge	
		impact	
	Relational	Carrier: the	the country's two major water
	Attributive (are)	country's two	reservoirs are still not available
		major water	
		reservoirs	
		Attribute: still not	
		available	
	Relational	Carrier: Water	Water distribution is a
	Attributive (is)	distribution	disputed issue
		across the	
		country	
		Attribute: a	
		disputed issue	
	Relational	Carrier: water	In Karachi, water shortages
	Attributive (are)	shortage	are a norm
		Attribute: a norm	
	Relational	Token: The	The government's response
	Identifying (has	government's	has been silence
	been)	response to this	
		Value: silence	

Relati	ional	Carrier:	Greater	Greater	transparency	and
Attrib	outive (are)	transparency		improved	infrastructure	are
		and	improved	also essen	tial	
		infrastru	cture.			
		Attribut	e:			
		essential				
Relati	ional	Token:	The main	The main	offending issue	is
Identi	ifying (is)	offendin	g issue	the federa	l government's pl	an
		for Sind	h			
		Value: the federal				
		government's				
		plan	[[to			
		construc	t]]			

Table 12. Relational Processes Examples in Dawn and The News

Dawn predominantly employs Attributive relational processes (e.g., is hopeful, are likely to get worse, have become the "new normal"). These constructions assign qualities, conditions, and tendencies to entities such as water regulator IRSA, growing water shortages, and Pakistan's future water outlook. The attributes frequently signal escalation and inevitability ("even more precarious", "new normal"), which constructs the crisis as a deepening structural condition. Dawn's frequent use of relational processes to characterize national vulnerability places the issue as systemic and long-term, requiring strategic intervention. This creates a discourse of danger, warning and structural urgency.

Contrastingly, *The News* employs a combination of Attributive, Possessive, and Identifying relational processes, but with a more predictive and evaluative orientation. Possessive clauses such as *Any dip... could have a huge impact* illuminate the economic effects of water shortages. Attributive relations like *water shortages are a norm* and *water distribution... is a disputed issue* define the crisis through institutional dysfunction and routine scarcity, emphasizing governance failures. The Identifying relational process "*The government's response... has been silence*" directly assigns institutional blame, making the actor explicit in ways Dawn rarely

does.

4.2.3. Verbal Processes

Both newspapers use Verbal processes to foreground voices and institutional stances within the water crisis discourse, but they differ significantly in who speaks, who is silenced, and what kinds of messages are circulated. These differences shape each paper's ideological positioning.

Newspaper	Process Type	Participants	Examples from Text
Dawn	Verbal	Sayer: [ellipsed	(Dependent) despite initially
	(promising)	KWSC]	promising to resume supply
		Verbiage: to	
		resume supply	
	Verbal (ordered)	Sayer: He (Lahore	He has ordered the urban
		High Court judge)	planners
		Receiver: the	
		urban planners	
	Verbal (warn)	Sayer: Experts	Experts warn
	Verbal (serve to	Sayer: World	World Water Day should serve
	remind)	Water Day	to remind
		Receiver: the	
		country's rulers	
	Verbal (has	Sayer: THE Indus	THE Indus River System
	warned)	•	Authority has warned Punjab
		Authority	and Sindh
		Receiver: Punjab	
		and Sindh	
	Verbal (has told)	•	the water regulator has told the
		regulator	provinces
		Receiver: the	
		provinces	

The News	Verbal (says)	Sayer: Indus	Indus River Authority (IRSA)
		River Authority	says
		(IRSA)	
		Receiver: Pakistan	
	Verbal (says)	Sayer: An official	An official also says
		of the Sindh	
		irrigation	
		department	
		Receiver: Pakistan	
	Verbal (ask for)	Sayer: privately	As privately run water tankers
		run water tankers	ask for whatever prices
		Verbiage:	
		whatever prices	
	Verbal	Sayer: the Sindh	the Sindh High Court Bar
	(condemned)	High Court Bar	Association (SHCBA) has
		Association	strongly condemned Irsa's
		(SHCBA)	approval
		Target: Irsa's	
		approval	
	Verbal	Sayer: [ellipsed	and [has] demanded an
	(demanded)	SHCBA]	immediate withdrawal
		Verbiage: an	
		immediate	
		withdrawal of all	
		such canal	
		projects	
	Verbal (called	Sayer: Pakistan	Pakistan has called for global
	for)	Target: global	action
		action	
	Verbal (assured)	Sayer: Adviser	Adviser Rana Sanaullah had
		Rana Sanaullah	assured Sindh Senior Minister

Receiver: Sindh Sharjeel Memon
Senior Minister
Sharjeel Memon
Verbal Sayer: The PPP The PPP is reported to have
(reported/raised) Verbiage: the initially raised the issue
issue

Table 13. Verbal Processes Examples in Dawn and The News

In *Dawn*, Verbal processes often highlight institutional caution, expert warnings, and reminders to the state. The Sayers include *experts*, *the water regulator*, *IRSA*, and symbolic entities like *World Water Day*. The verbs (warn, remind, tell, ordered) emphasize alerts, guidance, and accountability pressure. Dawn uses these processes to construct the crisis as something repeatedly communicated to the authorities, yet still inadequately addressed. Institutional distance is created through ellipsis (e.g., "despite initially promising..."), implying bureaucratic inefficiency without directly naming actors.

Generally, Dawn's verbal choices form a discourse where expert authority and institutional warnings are central, stressing the idea that the state has long been informed but insufficiently responsive. In comparison to this, *The News* uses Verbal processes to foreground disagreement, confrontation, and political conflict. Choice of sayers indicate a much more politically crowded landscape of voices. The verbs such as condemned, demanded, assured, raised the issue, ask for indicate activism, opposition, and political pressure. *The News* magnify direct criticism and formal objection, particularly through SHCBA and PPP, portraying the crisis as deeply rooted in institutional disagreements and political struggle. The narrative is more confrontational and politically charged than Dawn's because of the heavy presence of conflict-driven verbal processes.

4.2.4. Mental Processes

Mental processes reveal how each newspaper constructs ways of thinking, perceiving, and experiencing the water crisis. The patterns show clear ideological differences in how responsibility, awareness, and perception are framed.

Newspaper	Process Type	Participants	Examples from Text
Dawn	Mental	Senser: we	we know the worth of water
	Cognition	Phenomenon: the	
	(know)	worth of water	
	Mental	Senser: Desperate	Desperate residents have
	Cognition	residents	found themselves
	(found)	Phenomenon:	
		themselves [being]	
		forced	
	Mental	Senser: we	that we are already
	(experiencing)	Phenomenon: post-	experiencing post-climate
		climate change	change conditions
		conditions	
The News	Mental	Senser: [ellipsed	(Non-finite) seeing it as a
	Cognition	parties]	direct threat
	(seeing)	Phenomenon: it [as] a	
		direct threat to	
		Sindh's water	
		supply	
	Mental	Senser: this reading	(Main) this reading ignores
	Cognition	Phenomenon: the	the historical context
	(ignores)	historical context and	
		political realities	
	Mental	Senser: [ellipsed	(Non-finite) Recognising
	Cognition	Pakistan]	the urgency of the issue
	(Recognising)	Phenomenon: the	
		urgency of the issue	
	Mental	Senser: people	people have figured out a
	Cognition	Phenomenon: a way	way
	(figured out)		
	Mental	Senser: Financially	(Main) Financially weak

Perception	weak Pakistan	Pakistan now finds itself
(finds)	Phenomenon: itself	entangled
	entangled in another	
	web	

Table 14. Mental Processes Examples in Dawn and The News

In *Dawn*, Mental processes centre on collective awareness, lived experience, and public realization. The Sensers are mainly "we", residents, and the wider population, signalling a shared consciousness of the crisis. Verbs such as know, found, experiencing foreground emotional and experiential closeness, presenting the crisis as something directly affecting ordinary people. Dawn emphasizes that citizens already understand, feel, and live through climate-induced water insecurity. This choice constructs a narrative of public awareness being high, implying that authorities must respond to needs already well-understood by the population.

The News uses Mental processes to foreground political perception, ideological framing, and cognitive misalignment. Sensers include political parties (ellipsed), "this reading", Pakistan (ellipsed), people, and the state. Verbs like seeing, ignores, recognizing, finds show conflicting interpretations and political judgments. Mental processes often expose conceptual differences such as Sindh seeing the project as a threat, or certain readings "ignoring" political realities. The News portrays the crisis as not only material, but also deeply discursive and political through the use of cognition, conflict of perspectives, and strategic calculation.

4.2.5. Existential Processes

Existential processes work to bring phenomena into existence in discourse. These processes signal *what* is present, absent, emerging, *or* threatening. The patterns in Dawn and The News show differences in how each paper builds the *urgency and nature* of the water crisis.

Newspaper	Process	Participants	Examples from Text
	Type		
Dawn	Existential	Existent no	IN large parts of Karachi, there is no
	(is)	water [[to be	water
		had]]	

	Existential	Existent: a	There is a likelihood
	(is)	likelihood	
The News	Existential	Existent:	Although there are some discrepancies in
	(are)	some	data
		discrepancies	
		in data	

Table 15. Existential Processes Examples in Dawn and The News

Dawn emphasizes absolute scarcity and looming threats through the use of existential processes. Expressions such as "there is no water" and "there is a likelihood" foreground conditions of absolute shortage and probability of future danger. By presenting deficiency as already existing and unavoidable, Dawn places the crisis as immediate, visible, and undeniable. The existential structure frames water scarcity as a material reality, not a political claim. This reinforces a narrative of urgency and points out the severity of conditions on the ground.

The News uses existential processes rarely to highlight administrative or informational issues rather than physical or total absence. For example, "there are some discrepancies in data" draws attention to institutional inconsistency instead of material scarcity. This places the crisis within an administrative and governance framework, suggesting that part of the problem lies in flawed data, bureaucratic gaps, or questionable information. The News, unlike Dawn, does not highlight physical absence but rather the presence of disagreement, confusion, or structural disorder.

Conclusion

The fused analysis of ideational and textual metafunctions demonstrates that *Dawn* and *The News* construct opposing ideological positions in their reporting on Pakistan's water crisis. Textually, *Dawn's* preference for unmarked topical themes and straightforward thematic progression supports a discourse of unbiasness and factual reporting. *The News*, meanwhile, uses more marked themes that foreground evaluative stances and highlight conflict or urgency. Conclusively, while both newspapers use marked Themes to structure discourse and foreground key information, *Dawn* leans toward critical and systemic contexts, whereas *The News* features political, institutional, and situational contexts. These results substantiate the

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applicability of Systemic Functional Linguistics (SFL) as a powerful analytical tool in

revealing the manner in which language constructions and mediations of social reality

are created in media discourses. The analysis of the experiential, interpersonal, and

textual metafunctions of news reporting showed that grammatical and thematic

decisions are not neutral but are used to influence the views of the readers concerning

economic and environmental problems.

Limitations

The current study offers valuable insights into the textual and ideational

metafunctions; however, the sample selected for analysis is small and purposive. It

only focuses on editorials of two English newspapers that limit its generalizability to a

broader media context. Moreover, the editorials are selected from a specific time

frame which may not account for the variation in discourse over time. Further studies

are required incorporating multiple newspapers from different timeframes for a better

understanding and generalizability of the findings.

Recommendations

A last recommendation of the study is that future studies should extend this line of

investigation with multimodal SFL studies of how newspapers include visual and

graphical elements, or by using comparative regional studies to find out how

linguistic framing can be different across the South Asian media contexts. These

extensions would give a better insight into the way language still influences social

consciousness, policy discussions, and communal reaction to national disasters.

Second, the findings indicate that media discourse is actively involved in the

development of the shared meaning of national crises. The material processes are

frequently used in Dawn that may lead the readers to believe in the power of solutions

provided by the state, creating confidence in the mechanisms of institutions. Contrary,

the mental and relationship processes of The News provoke civic scrutiny and

emotion, which might drive civic awareness and increase distrust in the government.

Both of the newspapers, using different linguistic resources, are part of the social

semiotics of the Pakistani developmental discourse in 2025.

Ethical Considerations

The research involves no human participants as the newspaper's data is publicly

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available, and hence no formal ethical approval was needed. Ethical rigor was, however, observed through proper citation of data sources, use of proper textual content, and objective presentation of results without the use of any ideology.

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