

Bilaspuri Kahluri
Parallel Text Corpus:
Linguistic Structures and Grammatical Features

BILASHPURI KAHLURI PARALLEL TEXT CORPUS: LINGUISTIC FEATURES AND STRUCTURES



34

Annotated, quality language data (both-text & speech) and tools in Indian Languages to Individuals, Institutions and Industry for Research & Development - Created in-house, through outsourcing and acquisition.

Authors:

Dr. Shalinder Singh

Dr. Rejitha K. S.

Dr. Narayan Choudhary

Prof. Shailendra Mohan

**Linguistic Data Consortium for Indian Languages
Central Institute of Indian Language
Mysuru, India-570006**

भारतीय भाषा संस्थान

उच्चतर शिक्षा विभाग, शिक्षा मंत्रालय, भारत सरकार, मानसगंगोत्री, हुन्सूर रोड, मैसूरु-570006, कर्नाटक

CENTRAL INSTITUTE OF INDIAN LANGUAGES

Department of Higher Education, Ministry of Education, Government of India
Manasagangotri, Hunsur Road, Mysuru-570006, Karnataka

www.ciil.gov.in :: e-✉ ciil.publication@gmail.com :: ☎ +91-821-234-5182

Bilashpuri Kahluri Parallel Text Corpus: Linguistic Features and Structures

Authors: Dr. Shalinder Singh, Dr. Rejitha K. S., Dr. Narayan Choudhary, Prof. Shailendra Mohan

Contributors: Ajay Kumar, Monika Kumari

e-ISBN: 978-81-69099-05-9

CIIL Publication No.: 1672

First published: AD 2026 March :: Phalguna 1947 Śaka

© Central Institute of Indian Languages, Mysuru 2026

Publisher: Prof. Shailendra Mohan, Director, CIIL

Printing & Publication Unit

Aleendra Brahma, Officer-in-Charge, Printing Press & Publication Unit
B Manju Bhargavi, Unit-in-Charge, Printing Press & Publication Unit
M.N. Chandrashekar, Compositor, Printing Press & Publication Unit

Cover design: Shalinder Singh

Table of Contents

Bilashpuri Kahluri Parallel Text Corpus.....	1
1.1 LDC-IL Parallel Text Corpus.....	1
1.2 Challenges in Creating A Parallel Corpus.....	2
1.3 Bilashpuri Kahluri: A Brief Introduction	2
1.4 Bilashpuri Kahluri parallel Corpus	3
1.5 Summary of Bilashpuri Kahluri parallel Corpus.....	3
1.6 Reference.....	4

BILASHPURI KAHLURI PARALLEL TEXT CORPUS

Shalinder Singh

1.1 LDC-IL PARALLEL TEXT CORPUS

LDC-IL has developed parallel corpus in Indian mother tongues. India has 270 mother tongues as per 2011 census. Most of these mother tongues have no written text readily available and they are mostly oral languages. Most of them do not have any script of their own or use one or more than one dominant script used in that region. Following the requirements of the NEP-2020, LDC-IL initiated to collect sentences from different mother tongues that could give an idea about the basic structure of these 270 mother tongues.

A parallel corpus is a collection of texts in two or more languages that are carefully aligned sentence wise in pairs and placed either side by side or matched with a common sentence/phrase identification number. It is widely used in linguistics, translation studies, and Natural Language Processing. Researchers use it to compare vocabulary, grammar, and meaning across languages, while computational systems rely on it to train statistical and neural machine translation models. Parallel corpora also support language learning by providing real translation examples and enable cross-language information retrieval, allowing users to access information in multiple languages efficiently.

LDC-IL developed a framework to accommodate all the linguistic features of mother tongues. The sentences were collected from Indian scheduled languages especially from descriptive grammar books. The sentences cover the general grammatical and structural types like adjectival phrases, adverbial phrases, compounding, Interrogative sentences, Imperative sentences, different speech types, statements, structural question, coordination, subordination and so on. Moreover, it includes linguistic features such as use of adposition, anaphora, derivational morphology, inflectional morphology and language specific features like emphasis, equative, possession, reciprocation, reflexive expression and so on. For more details on the source collection for this parallel corpus, please refer to the [LDC-IL Corpus Insights \(2025\)](#).

This parallel corpus can be used in AI development by enabling the creation of Indic multilingual foundation models, develop cross-lingual knowledge graphs and create low-resource language adapters. By providing high-quality linguistic data, it strengthens natural language understanding and generation. As India rapidly advances in the digital age, it is essential to preserve and promote undocumented mother tongues by bringing them onto digital platforms, ensuring they are sustained and able to thrive for future generations.

Low-resource languages have a significant impact on both AI development and digital world. When AI systems are trained mostly on high-resource languages, they become biased toward those linguistic and cultural contexts. Including low-resource languages helps build stronger multilingual foundational models. Exposure to diverse grammar structures, vocabulary, and linguistic patterns improves cross-lingual learning and generalization. Language carries cultural knowledge. Incorporating low-resource languages enriches AI systems with diverse worldviews, idioms, and traditional knowledge systems. If a language is not supported digitally, its speakers

may be excluded from online education, e-governance, healthcare services, and digital commerce. When digital tools support local languages, more people can participate in the economy. Local languages often contain indigenous knowledge about agriculture, medicine, environment, and culture and therefore bringing them into digital ecosystem safeguards the linguistic treasures that language might contain.

Supporting low-resource languages makes AI more inclusive, intelligent, and representative of linguistic diversity. In India, where hundreds of mother tongues co-exist, investing in low-resource language technologies is essential for equitable digital growth.

1.2 CHALLENGES IN CREATING A PARALLEL CORPUS

Creating a Parallel Corpus for mother tongues in India involves several linguistic, technical, and socio-cultural challenges. The major difficulty is the lack of standardized orthography in many regional and tribal mother tongues. Most of the mother tongues use the prominent script used in their region. Some mother tongues may use multiple scripts or even a newly created writing system, which complicates the corpus development. Another challenge is the scarcity of written and digitized resources. Many mother tongues are used for daily communication only.

Dialectal variation is another serious issue, as a single mother tongue may have numerous regional varieties with differences in vocabulary, pronunciation, and grammar. This makes it difficult to ensure consistency and representativeness in the corpus. Accurate translation is a concerned matter. Proficient bilingual speakers may be limited for low-resource languages. Maintaining semantic equivalence across mother tongues with different cultural contexts can be challenging. Sometimes equivalent words are not available due to the socio-cultural differences. These factors affect large-scale parallel corpus development in Indian mother tongues. The creation of reliable and balanced parallel corpora for Indian mother tongues is a complex and resource-intensive task.

1.3 BILASHPURI KAHLURI: A BRIEF INTRODUCTION

Bilaspuri is an Indo-Aryan language spoken primarily in the Bilaspur region of Himachal Pradesh. It derives its alternative name ‘Kahulari’ from the former princely state of Kahlur, reflecting its historical roots. Linguistically, Bilaspuri Kahulari is often classified within the Western Pahari group of the Indo-Aryan languages, and it shares similarities with neighboring dialects such as Mandeali and Kangri. The language is mainly used in everyday communication, folk traditions, and oral literature, including songs, proverbs, and local narratives.

It is typically written in the Devanagari script, although historically it may have been transmitted primarily through oral means. Despite its cultural richness, the language faces challenges from the increasing dominance of other languages in education and administration. According to the 2011 Census report, approximately 60,000 people speak the Bilaspuri Kahluri language in India.

1.4 BILASPURI KAHLURI PARALLEL CORPUS

Bilaspuri Kahulari belongs to the Western Pahari subgroup of the Indo-Aryan languages. From a grammatical perspective, Bilaspuri Kahulari follows a Subject–Object–Verb (SOV) word order and relies on postpositions rather than prepositions. The nominal system marks gender (masculine and feminine), number (singular and plural), and case, often expressed through suffixation.

Pronouns exhibit distinctions in person, number, and sometimes honorificity, reflecting social hierarchy. Verbal morphology is relatively rich, with verbs inflecting for tense (past, present, future), aspect (perfective, imperfective), and mood (indicative, imperative, subjunctive). Phonologically, Bilaspuri Kahulari displays a complex system of vowels and consonants, including aspirated and unaspirated stops, retroflex sounds, and, in some varieties, tonal or pitch-accent distinctions influenced by neighboring Punjab and Punjabi speech patterns. The language also shows lexical borrowing from Hindi and Punjabi, especially in modern contexts.

Reduplication and compound formation are commonly used for emphasis and semantic nuance. Traditionally, Bilaspuri Kahulari has been an oral language rich in folklore, ballads, and proverbs, though it is written in the Gurumkhi and Devanagari script in contemporary usage. The above mentioned features contribute to Bilaspuri Kahluri's uniqueness among the languages of India and highlight its importance in the study of linguistics.

Bilaspuri Kahluri is a valuable resource for developing parallel text corpora with other Indian mother tongues. This parallel text corpus can serve as a valuable research resource for studying syntactic divergence, morphological richness, code-mixing phenomena, and script variation, which are particularly relevant in multilingual contexts such as India.

1.5 SUMMARY OF BILASPURI KAHLURI PARALLEL CORPUS

The Bilaspuri Kahluri parallel text corpus connected with English and 146 mother tongues of India. Those mother tongues are Anal, Angami, Are, Assamese, Awadhi, Bagheli/Baghel Khandi, Bilaspuri Kahluri Rajasthani, Balti, Bengali, Bhadrawahi, Bharmauri/Gaddi, Bhojpuri, Bilaspuri Kahluri, Bodo, Brajbhasha, Bundeli/Bundel khandi, Chakru/Chokri, Chambeali/Chamrali, Chang, Chhattisgarhi, Chirr, Chungli, Churahi, Coorgi/Kodagu, Deori, Dhundhari, Dimasa, Dogri, Gangte, Garhwali, Garo, Gojri/Gujjari/Gujar, Gujarati, Gujar, Halabi, Handuri, Hara/Harauti, Haryanvi, Hindi Multani, Hindi, Irula/Irular Mozhi, Kabui, Kachchhi, Kangri, Kannada, Karbi/Mikir, Kashmiri, Khandeshi, Khari Boli, Khasi, Khezha, Khiemnungan, Khortha/Khotta, Kisan, Kodava, Kokbarak, Kolami, Koli, Kom, Konda, Konkani, Konyak, Koya, Kudubi/Kudumbi, Kuki, Kurmali Thar, Ladakhi, Lepcha, Liangmei, Limbu, Lotha, Lyngngam, Magadhi/Magahi, Maithili, Malayalam, Malvi, Manipuri, Mao, Mara, Maram, Marathi, Maring, Mech/Mechhia, Mewari, Mewati, Miri/Mising, Mishmi, Mizo, Mongsen, Monpa, Mundari, Muwasi, Nawait, Nepali, Nimadi, Nissi, Nocte, Odia, Pahari, Paite, Palmuha, Pania, Pawari/Powari, Phom, Pnar/Synteng, Pochury, Poula, Punjabi, Purkhi, Rai, Rajasthani, Reang, Rengma, Rongmei, Sadan/Sadri, Sambalpuri, Sangtam, Sanskrit, Santali, Saurashtra/Saurashtri, Sema, Shina, Sindhi, Sirmauri, Sugali, Surjapuri, Talgalo, Tamil,

Tangkhul, Telugu, Thado, Tibetan, Tikhir, Tripuri, Tulu, Urdu, Vaiphei, Wagdi, Wancho, Yerava, Yerukala/Yerukula, Yimchungre, Zeliang, Zemi, Zou.

There are 5,332 sentences/phrases in Bilashpuri Kahluri which are systematically structured based on 159 grammatical categories. Bilashpuri Kahluri has 32915 word count and 148180 character count. The corpus is aligned with 146 mother tongues and English, comprising 4,404,845 words (over 4.4 million tokens) and 23,374,289 characters (approximately 23.3 million).

1.6 REFERENCE

- [1] Rejitha K. S. and Narayan Kumar Choudhary. (ed.). (2025). LDC-IL Corpus Insights. CIIL, Mysore. 978-93- 48633-33-0.