

Churahi Parallel Text Corpus: Linguistic Features and Structures



CHURAH I PARALLEL TEXT CORPUS: LINGUISTIC FEATURES AND STRUCTURES



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*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. Mansoor Khan

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

Bharmauri/Gaddi Parallel Text Corpus: Linguistic Features and Structures

Authors: Dr. Mansoor Khan, Dr. Rejitha K. S., Dr. Narayan Choudhary, Prof. Shailendra Mohan

Contributors: Hasina, Fazal Deen, Mubarak Mohd

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Table of Contents

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

CHURAHİ PARALLEL TEXT CORPUS

Dr. Mansoor Khan

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 CHURAHİ: A BRIEF INTRODUCTION

Churahi (Devanagari: चुराही, Takri) is an Indo-Aryan language belonging to the Western Pahari group, spoken primarily in the Himachal Pradesh state of northern India. It is indigenous to the Chaurah and Saluni tehsils of the Chamba district, a part of the Himalayan hill region where diverse Pahari languages thrive.

The language forms part of India’s extraordinarily multilingual profile, where hundreds of languages and mother tongues are recorded in census data across states and districts. These census records (such as those summarized on LangLex’s Indian Language Profile) highlight how India’s language ecology includes many smaller, regional languages beyond the major scheduled languages.

Churahi is considered a Western Pahari language, a subgroup within the larger Indo-Aryan branch of the Indo-European family. This branch also includes Hindi, Punjabi, Dogri, and other

northern Indian languages. Within this grouping, Churahi shares structural affinities and some vocabulary with related Pahari languages like Bhateali, Gaddiyali, and Pangwali, yet it remains distinct in its phonology and local identity.

While Devanagari script is increasingly used for writing Churahi today, traditionally the language was written in the Takri script — an abugida of the Brahmic family once widespread in Himachal Pradesh and the surrounding Himalayan regions. Takri has historical importance and cultural value but now survives largely in manuscripts and community memory rather than in formal education.

As per the detailed 2011 census linguistic data, there were approximately 75,552 speakers of Churahi across India.

In the Census 2011, languages with smaller speaker populations—like Churahi—are often grouped under broader categories such as “Hindi” or “Pahari/Hindi” in summary tables, which is why Churahi does not appear as a separate major entry in the primary language lists.

1.4 CHURAHİ PARALLEL CORPUS

Churahi is a highly agglutinative language with rich morphophonemic features. It exhibits complex morphophonemic alternations, extensive case marking, productive compounding, and relatively flexible word order. Churahi language is written in Takri script Takri script was traditionally used. Takri was widely employed across the hill states for administrative records and literary works. In modern times, Devanagari script is commonly used for writing Churahi, especially in educational and documentation contexts. It has an extensive set of consonant and vowel symbols that precisely capture its phonemic distinctions. It generally follows Subject-Object-Verb pattern but it is linguistically rich and structurally complex language. These features contribute to Churahi’s uniqueness among the languages of India and highlight its importance in the study of linguistics.

Churahi 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. It is to be noted that for the development of Churahi Parallel Corpus, Hindi was used as the source language which was translated into Churahi.

1.5 SUMMARY OF CHURAHİ PARALLEL CORPUS

The Churahi parallel text corpus connected with English and 146 mother tongues of India. Those mother tongues are Anal, Angami, Apatani, Are, Assamese, Awadhi, Bagheli/Baghel Khandi, Bagri Rajasthani, Bagri, Balti, Bengali, Bhadrawahi, Bharmauri/Gaddi, Bhojpuri, Bilaspuri Kahluri, Bodo, Brajbhasha, Bundeli/Bundel khandi, Chakru/Chokri, Chambeali/Chamrali, Chang, Chhattisgarhi, Chirri, Chungli, 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 Churahi which are systematically structured based on 159 grammatical categories. Churahi has 29,579 word count and 144,939 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

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