

Sarma's Solutions and Products

Behind the Development:

[Sarma's Solutions & Products](#) belongs to Sarma Group of concerns in Pudukkottai. From 1920 onwards, our Family has been running a Publishing house called Nature-Cure Publishing House.

In the past 85 years, several books and several editions of these books have been published. Between 1946 and 1948, we had our own printing press. In 1973, we again started Sarma's Sanatorium Press.

Unlike many printers, we were specializing in undertaking book printing rather than small job works like invitations, forms etc. Book printing involved proof correction of huge number of pages at every stage before strike order for final printing was given. Thus from our young age we had a solid grounding in proof correction. Our press had facility for printing in English, Tamil, Sanskrit and Hindi. In 1987 we were the first Printers to introduce Desktop Publishing in Tamil Nadu. We first introduced Indian Languages Software in DTP (P.C Based) in 1988. Largely our press has been continuing our traditional specialization in book publishing in all the four languages mentioned earlier. A few years back we have also introduced Grantham fonts for composing Sanskrit text. Further, the owner of this concern himself has authored 10 books and various articles. We felt the absence of a standard Spell checking tool for Indian Languages very badly. This prompted us to venture and develop a tool. Initially our Tamil Spell Checking tool named Sorpizhai Chutti (சொற்பிழைச் சுட்டி) is being launched. We hope to follow suit with Hindi and Sanskrit Spell Checking Tools shortly. The salient features of our tool are listed below.

OS:

This tool is a versatile one as it has been developed keeping in mind the general usage of OS (Operating System) like:

1. Microsoft Windows 98SE
2. Microsoft Windows ME
3. Microsoft Windows 2000 (Prof with Sp4)
4. Microsoft Windows 2002(Windows XP)
5. Microsoft Windows Vista(Beta)

Microsoft Office:

1. Microsoft Office 97.
2. Microsoft Office 2000.
3. Microsoft Office 2002(Office XP).
4. Microsoft Office 2003 (Sp1).

IE Version:

1. Microsoft Internet Explorer 6.0 (Display of English to Tamil Dictionary for the Browsed words in the Panel it self of Microsoft Internet Explorer).

For End-Users:

We welcome suggestions and comments to improve the contents and facilities of our tool. We will be happy to undertake and develop utilities for language-based programs / font conversion / or any other services applicable in this field/products.

Contents:

1. Tamil Spell Checking Utility.
2. Tamil Basic Grammar Checking Utility.
3. Unicode Font Conversion for 35 types of Tamil Fonts.
4. Reverse conversion of Unicode font to 34 types of fonts.
5. English – Tamil Dictionary.
6. Tamil – Tamil Dictionary.
7. Suggestion of apt Tamil Words for colloquial usages.
8. In-built Picture Browser Utility for Microsoft Word.
9. In-built Calculator, Basic Scientific Calculation and Formulae.
10. Small Dictionary for six Languages (Tamil-Hindi-English-Kannada-Telugu-Sanskrit).
11. Language Transliteration Utility (Hindi – Telugu – Kannada – Malayalam - Tamil)
(For Unicode Fonts Only).
 12. National Pin code and STD Code look up utility (Usage Optional).

Product Technical Info:

1. Tamil Spell Checking Utility:

Standard English Spell Checking Utilities have come to be used only since early 1990s. This tool is helping every End-User to produce mostly error free documents. Tamil, which is one of the classical languages, has some unique features like conjunctions of letters (Called Sandhi-சந்தி and புணர்ச்சி). This unique feature is governed by rules of Grammar as enunciated by early treatise on grammar like Agatthiyam, Tholkappiyam and Nannool. Most of the Tamil Spell checking tools available now do not encompass this unique feature of Tamil Grammar but only restrict them to word by word checking. Hence, they are not comprehensive. As our tool has been developed taking into account this unique feature, Spell Checking word by word with conjunctions (சந்தி and புணர்ச்சி) will be possible in real time.

Vocabulary Information	
Vocabulary Capacity.	Approx 4,20,000
Vocabulary Capacity (Common Pro-Nouns).	Approx 1,60,000
Working Environment	
Internal Mode	MS Word. MS Excel. MS PowerPoint. MS Publisher.
External Mode	TF Checker(Text File) Tool for Spell Checking Text Files (supports also Batch mode- Check entire selected Directory)(Both Ansi and Unicode)
For Desktop Publishing(Under Development)	
1. Adobe PageMaker.	
2. Quark Express.	
3. Adobe In-Design.	

#NOTE: This is an Un-Decorated Documentation. Complete Documentation & Package will be available @ our Website shortly.

2. Tamil Basic Grammar Checking Utility:

Agasthiyar and Tholkappiyar the earliest grammarians have laid rules of Grammar under the following categories Viz.

- Letter (எழுத்து).
- Word (சொல்).
- Meaning (பொருள்).

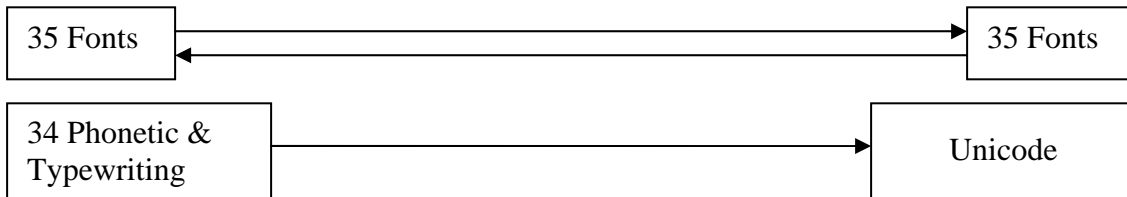
At present, our tool covers 1 and 2 and in future 3 also will be covered. Some of the current and common usages in Tamil Language are out-side Tholkappiyar's Basic Grammar rules. At present standard Tamil Texts, mostly follow the Grammar structure of **Nannool** a later Tamil Grammar treatise. Our tool is based on the basics of Tholkappiyam and Nannool. Grammar check is available **only for Prose** and **Poetry** has not been attempted.

Working Environment	
Internal Mode	MS Word. MS Excel. MS PowerPoint. MS Publisher.
External Mode	TG Checker (Text File) Tool for Spell Checking Text Files (supports also Batch mode- check entire selected Directory) (Both Ansi and Unicode).
For Desktop Publishing(Under Development)	
1. Adobe PageMaker.	
2. Quark Express.	
3. Adobe In-Design.	

3 & 4 Unicode Font Conversion Utility:

Unicode Font Conversion tool Works under the following

Working Environment	
Internal Mode	MS Word. MS Excel. MS PowerPoint. MS Publisher. MS Internet Explorer.
External Mode	UF Converter (Text File) Tool for Spell checking Text Files (also supports batch mode-checking of entire selected Directory) (in both Ansi and Unicode).
Speed Internal & External for 1 kb Text	0.027 Seconds. (Depending upon your system capacity).
For Desktop Publishing(Under Development)	
1. Quark Express.	
2. Adobe In-Design.	



1. The Unicode font converter works within the MS Internet Explorer. Therefore, you can view the Web Document without installing fonts.
2. It also works under the MS Office Products. Therefore, you can easily convert any or all type of fonts. (With Paragraph settings intact.)
3. External Program (UF Converter) helps you to convert existing text matters to Unicode font.
4. UF Converter also processes in batch conversion mode.
5. UF Converter also supports reverse font conversion from any one font to any other font. I.e. you can import data/Text in other fonts to your own choice of font.

5. English to Tamil Dictionary

Many a time English words or sentences are used in Tamil texts. Most of the solutions available do have the feature of English to Tamil Dictionary. The user can have this benefit only outside the MS Office Programs in stand-alone mode or through Select & Click concept. We offer this feature while typing in any MS Office Program or Surfing through MS Internet Explorer. We also offer stand-alone mode Program called **Dic-Display**.

Vocabulary Capacity	Approx. 80,000
Working Environment	
Internal Mode(on the fly mechanism)	MS Word. MS Excel. MS PowerPoint. MS Publisher. MS Internet Explorer.
External Mode(usual Dictionary Lookup)	Dic-Display (Both Ansi and Unicode).
Speed - Internal & External	
Fast Read Mode	0.001 Seconds. (Depending upon your system capacity).
Normal Mode	0.387 Seconds. (Depending upon your system capacity).
For Desktop Publishing(Under Development)	
1. Quark Express.	
2. Adobe In-Design.	

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- **6. Tamil to Tamil Dictionary**

Any Spell Checking tool should have a substantial vocabulary in that language. Our tool will give solutions to not only the individual word but also its clusters.

Vocabulary Capacity	Currently about 1,12,000
Working Environment	
Internal Mode(on the fly mechanism)	MS Word. MS Excel. MS PowerPoint. MS Publisher. MS Internet Explorer.(Unicode Only)
External Mode(usual Dictionary Lookup)	Dic-Display (Both Ansi and Unicode).
Speed - Internal & External	
Fast Read Mode	0.003 Seconds. (Depending upon your System capacity).
Normal Mode	0.480 Seconds. (Depending upon your System capacity).
For Desktop Publishing(Under Development)	
1. Quark Express.	
2. Adobe In-Design.	

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7. Apt Tamil Words for Colloquial Usages

Vocabulary Capacity	Currently 800(to be increased).
Working Environment	
Internal Mode(on the fly mechanism)	MS Word. MS Excel. MS PowerPoint. MS Publisher. MS Internet Explorer.(Unicode Only)
External Mode(usual Dictionary Lookup)	Dic-Display (Both Ansi and Unicode).
Speed - Internal & External	
Fast Read Mode	0.001 Seconds. (Depending upon your System capacity).
Normal Mode	0.020 Seconds. (Depending upon your System capacity).
For Desktop Publishing(Under Development)	
1. Quark Express.	
2. Adobe In-Design.	

Many of the typesetters are not proficient in Standard Tamil vocabulary. Hence, they use colloquial words even in Standard Tamil text works.

To enable even such typesetters to improve their proficiency in standard Tamil vocabulary, and improve the standard of such texts, our tool displays standard Tamil words in the fly.

Further, in Tamil Nadu, certain Tamil usages are peculiar to that particular geographical area & community. Equivalent standard words for such usages are also displayed in the fly.

8. Built-in Picture Browser

Working Environment	
Internal Mode	MS Word.

Normally to import / insert a picture file into the word document, the users have to execute the menu command **Insert > Picture > From File** or using Templates. This process involves some time. The whole process has been simplified, as all the pictures will be displayed inside Microsoft Word Panel and the user can select the required picture just while typing.

Thus importing / inserting pictures into the document have been made totally hassle free. This facility is not available at present in MS Publisher or MS Word.

6. Built-in Scientific Formulae & Calculator

Working Environment	
Internal Mode	MS Word.

MS Word is the commonly used Microsoft Office Product. If the document typed by such users involve Scientific formulae/ Mathematical / Financial / General Calculations, the user instead of accessing MS Excel or Microsoft Calculator, can incorporate all or any of the above calculations like Scientific formulae/ Mathematical / Financial / General calculations within the Document using commands as in Excel or using In-built calculation Panel.

9. Small Dictionary for Six-Language

Vocabulary Capacity	Currently 800(to be increased).
Working Environment(Unicode Only)	
Internal Mode(on the fly mechanism)	MS Word. MS Excel. MS PowerPoint. MS Publisher. MS Internet Explorer.
External Mode(usual Dictionary Lookup)	Dic-Display (Unicode Only).
Speed - Internal & External	
Fast Read Mode	0.001 Seconds. (Depending upon your System capacity).
Normal Mode	0.020 Seconds. (Depending upon your System capacity).

This Dictionary contains at present most of the commonly used words in six languages Viz. Tamil, English, Hindi, Telugu, Kannada and Sanskrit. The display will be in all/ any language typed.

11. Language Transliteration Utility

Many people live in places where their mother tongue is not commonly spoken. There are also many who learn language/s other than their mother tongue by frequent either traveling or coming across people who speak other languages. Their proficiency is mostly confined to the spoken language and not the script. Hence, written texts will not convey any meaning to them. If the written text in other language/s known to them is transliterated into their mother tongue or known script, they will be able to understand and even enjoy the contents of the text in other language. Our attempt is in that direction.

Initially we have covered the following languages namely.

1. Hindi.
2. Sanskrit.
3. Telugu.
4. Kannada.
5. Malayalam.
6. Tamil.
7. English (Roman Format).

We will try to expand the canvas of languages.

Under Development Area

1. South Indian Languages Translation.
2. Input Interface for Indian Languages.(IME & Writing Pad)
3. Pure Artificial Intelligence & Data Warehousing using Indian Languages.
4. Spell Checking and Grammar Checking Utility for Indian Languages.
5. Text to Speech for Indian Language.
6. Speech Reorganization.
7. Programming Translator For Indian Languages (Develop program in their Language)

Contact Information:

L.T.VijayaGopalan,
#1 Ganesh Nagar,
Pudukkottai- 622 001,
Tamil Nadu,
India.

Phone: 91-04322-221659

Mobile: 094433-85186, 094433-81857

Fax: 91-04322-225049

E-Mail: Sarma-Solution-Products@Hotmail.com

Website: [Http://www.Sarma.co.in](http://www.Sarma.co.in) (Site under Construction)