

Portable Reading Machine for Blind

Laboratory Name	CSIR-Central Scientific Instruments Organisation, Chandigarh
Brief Profile of Technology/Product	<ul style="list-style-type: none"> • Portable Reading Machine (PRM) is an assistive device for visually impaired that helps them reading printed documents, e-books, or recorded speech. It is based on the principle of contact scanning of a printed document and converting it into speech. • The device is stand-alone, portable, completely wireless and uses open source hardware and software. The device can analyze a multi-column document and provide seamless reading. It is capable of page, sentence and word level navigation while reading.
Returns/Benefits	<ul style="list-style-type: none"> • It helps visually impaired to read print media as well as electronic files such as eBooks. • It has support for speaking Hindi, English and is further compatible for other Indian languages such as Bengali, Kannada, Malayalam, Marathi, Punjabi, Tamil, Telugu, etc. The device may also be readily configured for major foreign languages.
Validation Level	Prototype of the Reading Machine has been tested at Institute for the Blind Sec 26, Chandigarh and Saksham, New Delhi.
IPR Status [also indicating the status of the patent (if any)]	Copyright under process
End product price (if not available, estimated price)	Rs. 10,000/ (approx.)
Technology/Product Collaborator	BEL, Panchkula under Corporate Social Responsibility
Relevance of Technology in present times	Available technologies are very expensive and does not cater multi-functionality as available in this developed technology. Also similar technology is not available in Indian market, hence not cater the need for Indian users.
Similar technology/product developed	Commercial available technology: SARA ReadEasy+

**Picture of the
technology/product
(if any, with good
resolution)**

