



DESIDOC

Defence Scientific Information & Documentation Centre



DESIDOC

DRDO soon after its inception in 1958, envisaged to set up an information centre, the Scientific Information Bureau (SIB) to meet the information requirements of the scientists. With the increased needs and requirements of information, SIB was made an independent establishment with a wider scope and responsibility on 29 July 1970 and rechristened as Defence Scientific Information & Documentation Centre (DESIDOC). Since then DESIDOC is supporting DRDO's academic pursuit and fulfilling the information needs of its scientists working in DRDO labs/estts located across the country. During the last 50 years, DESIDOC has upgraded its services and products keeping pace with international standards of information dissemination. Today DESIDOC is a central resource centre for scientific information, documentation, IT-based services, multimedia services, e-pub services, publishing services provided on anticipation and demand at the desk of scientists at DRDO HQ/ labs/estts and other establishments of Ministry of Defence.



Defence Science Library

Defence Science Library (DSL) is nerve centre of DESIDOC and fulfills knowledge requirements of research community of DRDO. DSL has a specialized collection of books on various disciplines and defence science and technology. It subscribes top scientific journals, print as well as their e-version, scientific reports, conference proceedings and CD ROM databases. It also has special collection of Jane's publication, SPIE proceedings, IEE/IEEE publications and databases on specialized subjects.



DSL is fully automated and provides the following services:

- ▶ Online Public Access Catalogue (OPAC): Users can know the holdings of DSL
- ▶ Digital Reference Service: For Defence Science Library pin-pointed information in least possible time
- ▶ Infowatch Service: Fortnightly compilation of news/recent developments in military S&T from Jane's publications
- ▶ Newspaper Clippings Service: Daily service compiled from 17 newspapers
- ▶ Monthly News Digest Service: Monthly compilations of news items
- ▶ Translation Service: English translation of foreign language documents on demand.
- ▶ Provides Internet searching facility to users to facilitate browsing/ searching of electronic resources.

DRDO E-Journal service

Defence Science Library (DSL) is nerve centre of DESIDOC and fulfills knowledge requirements of research community of DRDO. DSL has a specialized collection of books on various disciplines and defence science and technology. It subscribes top scientific journals, print as well as their e-version, scientific reports, conference proceedings and CD ROM databases. It also has special collection of Jane's publication, SPIE proceedings, IEE/IEEE publications and databases on specialized subjects.



DRDO Library Management System

DESIDOC has developed DRDO Union OPAC (<https://catalog.drdolibrary.in>) where the library holdings of all DRDO labs can be accessed in real time, through a common gateway. Users at various DRDO labs can access the platform and search for the books/standards/patents. This union catalog is integrated with the DRDO e-library platform, so that users can search for all the e-resources as well as physical resources through a single platform.

DRDO E-Library Services

DRDO e-Library of DESIDOC that serves users on-the go access on mobile of a massive collection of over 5 Lakh+ e-resources and information feeds including e-journals, eBooks, open source resources, expert talks, etc. anywhere-anytime without worrying about IP-based authentication.

Integrated Library Management Service

DSL provides a cloud-based open source integrated library management service to all DRDO labs to automate their libraries uniformly using customised Koha—an open source integrated library management software. This has helped all DRDO libraries in developing a Union OPAC for DRDO where resources available in any library can be searched by the DRDO users.

Discovery Service

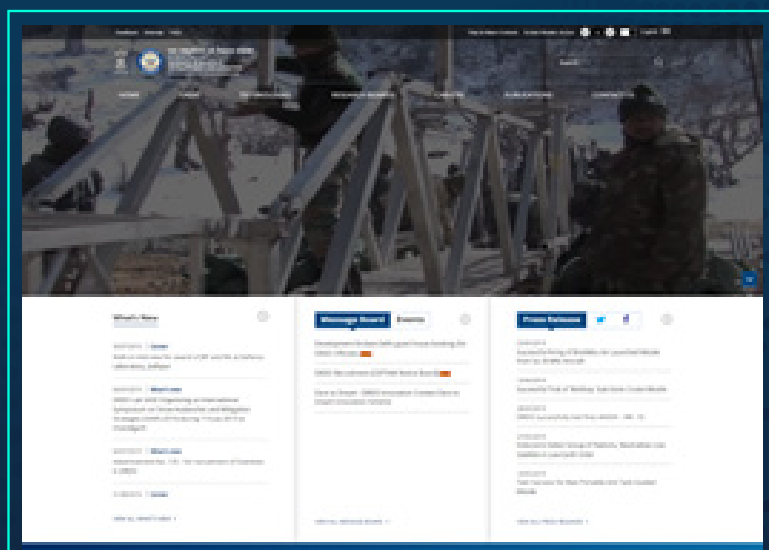
Discovery service provides all DESIDOC resources on a single window service platform, Koha OPAC and OJS-based journals. The new web application searches all types of DESIDOC resources in a unified index and presents the search results on a single interface using open source software VuFind.

Network Services

DESIDOC caters to the variety of users and provides access to various DRDO activities through Internet and Intranet. DESIDOC is Sub-Main Routing Centre of DRDO Intranet and is responsible for taking care of Intranet network for all DRDO labs in Metcalfe House complex. It is also responsible for live webcasting of all major events of DRDO. DESIDOC is responsible for design, development, hosting, and maintaining DRDO website on Internet.

DRDO Internet Website

As the Internet website of DRDO is viewed globally, maintaining its smooth operation, timely updation and above all, its security from imminent cyber attacks, have been a responsibility of utmost importance and is well taken care by DESIDOC.



All the latest news, events like DRDO@60 celebrations, Dare to Dream contest, DRDO's participation in international events like Aero India, DefExpo, along with recruitment related information are being maintained bilingually by DESIDOC through the DRDO website. It remains one of the most visited government websites. The website recorded around 3 million hits in 2019. The average visit per day is 78,082. The website maintain more than 99.85 per cent uptime annually.

DRDO Intranet Services

DESIDOC is also a Main Routing Centre for DRDO Intranet. It is responsible for taking care of local Intranet network in the Metcalfe House based DRDO labs. It is also responsible for live webcasting of all major events through Intranet. Besides this, DESIDOC also upkeeps and maintains all Intranet equipment ISG-D, Routers and leased lines at all the labs in the Metcalfe House campus and provide DESIDOC has developed a new search engine for searching information on the DRDO Intranet with quick and precise results. support and modifications in the firewall entries of labs. DESIDOC also hosts various information and knowledge services placed under a single window service page on DESIDOC website on local Intranet for DRDO users. All the repository-based services are available on a common DSpace platform and not only provides a single search and retrieval facility to the users but also helps service admin to upload and manage their content directly.

DRDO Publications

DESIDOC brings a number of primary research journals, DRDO Newsletter, Technology Focus, DRDO Monographs and other scholarly publications to give platform to DRDO scientists to publish their research & tacit knowledge for the civil society. These publications highlight DRDO's achievements in a proper perspective thereby helping in image building of the organization.



DESIDOC Journal of Library & Information Technology

pISSN: 0974-0643 eISSN: 0976-4658

<https://publications.drdo.gov.in>

Started in 1981, DESIDOC Journal of Library and Information Technology (formerly known as DESIDOC Bulletin of Information Technology) is a peer-reviewed, open access, bimonthly journal that publishes original research and review papers related to library science and IT applied to library activities, services, and products. It is meant for librarians, documentation and information professionals, researchers, students and others interested in the field. The readers get user experience on the application of IT in libraries and information centers, and analysis of underlying trends and their potential effects. The Journal is indexed by all major social science indexing/abstracting national/international databases (Scopus, Web of Science–Emerging Source Citation Index, LISA, LISTA, ProQuest, etc.). The Journal's Impact is: by Scopus [SJR-2018: 0.27, h-index: 8, Category-Q2]; by Web of Science [IF2019: 0.492, h-index: 10].



Defence Science Journal

pISSN: 0011-748X eISSN: 0976-464X

<https://publications.drdo.gov.in>

Defence Science Journal (DSJ) is a peer-reviewed, bimonthly, research journal in the area of defence science, engineering, and technology. It publishes research articles in the disciplines of aeronautics, armaments, combat vehicles and engineering, biomedical sciences, computer sciences, electronics, material sciences, missiles, naval systems, etc. DSJ is indexed by 20 major S&T International Databases. Editorial Board of DSJ is represented by eminent academicians, scientist from India, Russia, USA, Netherlands, New Zealand, Sydney, Australia. DSJ has a specially designed reader-friendly layout in the form of dynamic HTML. Publishing process is reassuringly rigorous, with a minimum of three experts reviewer. The Journal's Impact is: by Scopus [SJR-2018: 0.27, h-index: 8, Category-Q2]; by Web of Science [IF2019: 0.492, h-index: 10].



Defence Life Science Journal

pISSN: 2456-379X eISSN: 2456-0537

<https://publications.drdo.gov.in>

Defence Life Science Journal (DLSJ), as a quarterly publication, caters to the needs of scientists, researchers, academicians of life sciences and allied disciplines like: biotechnology, bio-medicine, bioengineering, bio-electronics, noninvasive life imaging, pharmacology and toxicology, physiology, NBC warfare, food technology, and psychology. DLSJ is successfully indexed in the UGC-CARE List (formerly UGC approved list of Journals), Indian Science Abstract, Indian Citation Index and NAAS (ICAR). DLSJ has received h-index and I5-index as 6 and 3, respectively according to Google Scholar metrics (2016-2019).



DRDO Newsletter

DRDO Newsletter, a monthly house bulletin of DRDO, is an avenue to synergise important developments, events, visits and related activities of the DRDO laboratories across India. The publication is in 40 years of publishing. DRDO Newsletter is an important tool for building 'Brand DRDO' among services, bureaucrats, political leadership, academic institutes, public sector undertaking, S&T organizations, industry and general public at large. Newsletter is also brought in Video version in both English & Hindi and also in E-book, Flip book format. An initiative has been taken recently and Newsletter will also be brought out with more interactive and user-friendly features and format.



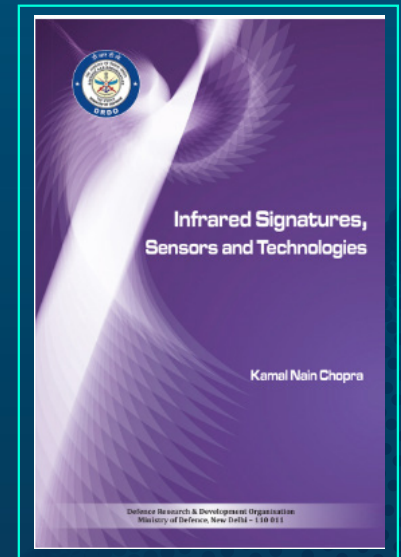
Technology Focus

Technology Focus is a bimonthly S&T publication which projects the products/technologies/processes developed by DRDO labs. The magazine is circulated to the three Services, Indian Missions in Foreign countries, S&T institutes, universities, industry, and students of AICTE approved engineering and technical colleges. Besides regular PDF format, all the issues also available in Flip Book (E-mag) format available on both Intranet and Internet.



DRDO Monographs/ Special Publications

DESIDOC publishes monographs/special publications and treatises authored by eminent retired scientists of DRDO. The aim is to capture the tacit knowledge of senior scientists gained through their life-long research in their area of work. Each monograph deals with specialised literature in areas that have direct relevance to defence, military science and technology. The authors are chosen based on their expertise in a specific field.



Printing Services

DESIDOC handles printing of both the regular and adhoc DRDO publications and other materials like classified reports, booklets, pamphlets, brochures, posters, etc., of DRDO HQ/labs/estts. DESIDOC has facilities for preparation of positives, PreSensitised (PS) & Metijet printing plates, offset and digital printing. DESIDOC has installed new Computer-to-Plate (CtP) system for preparation of CtP plates. For digital and offset printing, the laboratory is equipped with high-end digital and offset printing machines, dampening auto roller cleaning machine for washing and cleaning of dampening rollers, perfect binding machine, auto creasing cum perforation machine, lamination machine, paper folding machine, programmable paper cutting machine and stitching machine for binding and finishing of in-house printing jobs.

Multimedia Services

In the area of media coverage, video and photographic coverages, audio-visual production, archival of photographs, audio, videos, creation of multimedia programmes, digital preservation of photo, audio and video resources. DESIDOC provides its services to DRDO HQ/ labs/estt. and other defence units. It maintains the photo bank which has huge collection of more than 1,00,000 digital images of DRDO's products & technologies, events, portraits, heritage photographs and large number of videos of DRDO events. The photo bank caters the demands of photos and video for various publications, exhibitions, web designing, video productions and presentations. DESIDOC is actively involved in production of short institutional films and documentaries on various subject related to Defence R&D. Initiatives has been taken to develop photo and video galley with enhanced search and retrieval features.

Knowledge Management Services **Knowledge Repository of DRDO Technical Reports**

The Repository contains Full text of technical and annual reports of DRDO labs/estts. These technical reports/project reports are primary source of vital information. Usually information contained in these reports are not available in any other document. It's a tool for literature search. It helps in avoiding duplication of efforts. Research output is more visible through these reports. This repository provides an online archive for long term availability of technical project reports. These project reports indicate evolution of DRDO research and development. This institutional repository can be accessed over DRDO Intranet single window services.

Institutional Repository of Research Papers/ Articles

Institutional Repository (IR) of research papers/articles is a digital archive of the knowledge capital of DRDO which is accessible to the R&D community of the organization on DRDO Intranet. The Repository aims to capture, store, preserve and provide centralized access mechanism of the research output, i.e., intellectual content of DRDO. This includes all published material like research papers, articles, orations, biographies, books, chapters, etc. This institutional repository facilitates full-text access of all the documents archived in it. The repository also provides data search on the basis of Year, Title, Author, Keywords and Citation.

DRDO Shodhkosh: Digital Repository of Theses and Dissertations

This repository is one of the recent initiatives of DESIDOC. The objective of this repository is to collect, collate, index and archive all theses and dissertations submitted by DRDO scholars on a central online platform for access across DRDO. Theses and dissertations are one of the rich and unique source of R&D information. DRDO encourages its employees to pursue higher studies (PhD and M. Tech.) to upgrade and update their knowledge. A good number of scientists are sponsored every year by DRDO to pursue higher education. On completion of their courses, the theses/dissertations are submitted in partial fulfillment of their doctoral and postgraduate degrees. Keeping in view the importance of such intellectually rich scholarly documents, DESIDOC has established a “DRDO Shodhkosh: Repository of Theses & Dissertations”. This will help in creating wider visibility and usability of research work done by DRDO researchers in pursuance of their academic pursuit. The other objective is to preserve/ archive these vital knowledge assets for better use in future.

DESIDOC: The Way Ahead

DESIDOC has always been a pioneer in the field of documentation & information dissemination. The Centre has not only developed new ICT tools but has kept pace with the technology by adopting new tools and techniques to serve its users. The Centre is working towards the following:

- ▶ Automation of various activities done by HQ/labs. Online applications are being developed for enabling Vendor registration, acquisition of research proposals, receiving test facility booking requests and many more. All these applications will be linked with Internet website.
- ▶ AI-based Knowledge Management Portal for DRDO: This will be a collaborative platform for all DRDO technical manpower where they can share and discuss various technical subjects to develop and manage new technical knowledge.
- ▶ As required by DRDO HQ, DESIDOC is documenting successful projects/products of DRDO. Each project document will include complete details since inception till completion/ induction.
- ▶ DESIDOC has a vast and ever-growing photo-gallery consisting of images for last many decades. To organize these images based on similarity and make the retrieval of desired images easy and quick, the process will be automated by use of image recognition techniques.



DESIDOC

Defence Scientific Information & Documentation Centre

Metcalfe House, Delhi-110054