Indira Gandhi Centre for Atomic Research

Annual Report 2022

Government of India
Department of Atomic Energy
Indira Gandhi Centre for Atomic Research
Kalpakkam - 603 102

VI.15   Advanced Digital Library & Services

Scientific Information Resource Division (SIRD) is a research library that provides a comprehensive platform to access resources across the IGCAR Campus and uses the latest technologies to offer information services on a 24x7 basis.

SIRD has created an instance for IGCAR in Indian Research Information Network System (IRINS) https://igcar.irins.org/. The IRINS is the premier database of profiles of scientists, researchers and other faculty members working at leading academic institutions and other R & D organizations in India. The database would be instrumental in the selection of panels of experts for various committees and taskforce established by the Ministries / Government establishments for monitoring and evaluation purposes. It is a powerful tool to increase the exposure of Indian research to the International community.

A book titled "Butterflies of Kalpakkam" (Fig. 1) was published in 2022 by SIRD with information on butterflies like Common name, Scientific name, Family, Larval host plant, Wingspan, and Spotted area. Seventy-eight butterfly species are covered in this book. The book was published on the Foundation Day Celebrations on April 30, 2022 by former Director, Dr. S.A.V. Satya Murty.

Foundation Day of IGCAR was celebrated on April 30, 2022. For the foundation day, a video on DFRP fuel chopping and a short film on Butterflies of Kalpakkam was filmed by SIRD. On that occasion, few books were released by former Directors of IGCAR. SIRD edited and printed the booklet on Hindi, FBTR ahead, and the Butterfly book. The video and photo shoot of the entire event inauguration of Integrated Radiation Monitoring Facility (IRMF) covered by SIRD. SIRD also designed the display on the video wall erected for the foundation day.

SIRD regularly provides IGCAR Publication data and other metrics to NAAC, Audit and PRIS Committees. The Publications of IGCAR in peer-reviewed journals during 2022 is 445 plus; the H-index is 126 in Google Scholar, 116 in Scopus and 109 in Web of Science. As part of such activity, SIRD subscribes to Scispace (formerly known as Typeset) tool used for scientific proof reading of research articles, citation databases Scopus and Sci-Finder and research assistance tools like Grammarly, and Ithenticate. Further resource subscriptions include Springer LB materials database, ICDD, IEEE/IEL databases and 450 journals pertaining to 70 publishers belonging to the core area of research at IGCAR. SIRD has 65,000 books. This year we have added 400 more books to our collection. Stock verification was done in the Chemistry discipline using RFID gadgets.

The video streaming infrastructure (Fig. 2) of Sarabhai Auditorium was upgraded to latest streaming facility with HD-cameras, option to connect HDMI output to virtual platform and enhanced storage & networking facilities.

The security gadgets to SIRD were enhanced by the commissioning of IP based CCTV system with 60 number of fixed dome camera, 6 bullet cameras and 3 PTZ cameras covering the entire SIRD premises. 12 KW cooling rack with more advanced features like automotive gaseous fire suppression, finger print based authentication and automatic alert was added to our Datacenter.

This year, ASTM International (Fig. 3) honored SIRD for the extensive usage of its databases. IGCAR is the first Library in DAE to be honored this way by ASTM International.

SIRD was awarded the Certificate of Appreciation under Best Office Premises during the Swatchatha campaign in 2022.

Video coverage is an activity of SIRD that includes dignitaries visits, every event, selection committee skill tests, awareness programs for Journalists visit, Foundation day, Amrit ka Mahotsav Anu Yatra at Chennai, etc.

In-house publication activity includes editing to printing the IGC newsletters, IGC Reports, IGC annual reports, brochures, booklets, etc.

Preprints server, Auditorium facility, interlibrary loans, archiving IGCAR publications, news clips on FBRs, digitizing old print copy standards, content creation activities are other value added services from SIRD.
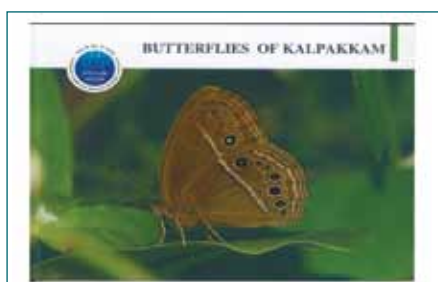

Fig. 1: Butterflies of Kalpakkam

Fig. 2: Video streaming Facility

Fig. 3: ASTM International Honour to IGCAR