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**Indonesian Centre For Scientific Documentation And Information
(PDII-LIPI) : Activities And Services**

By

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**INDONESIAN CENTRE FOR SCIENTIFIC DOCUMENTATION
AND INFORMATION (PDII-LIPI):
ACTIVITIES AND SERVICES**

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The Dissemination of Scientific Information Division

Centre for Scientific Documentation & Information

I. INTRODUCTION

Information in general and scientific and technological information (STI) in particular is an important resources for national development. Its provision, access, conservation, management, storage and dissemination must be properly planned and supported with the necessary financial, human, physical and other resources.

At present Indonesia is in the middle stage of its Fifth Five-Year Development Plan 1989/90 - 1993/94 (Repelita V). The priority of the Fifth Five-Year Development Plan is directed towards supporting the development of the process of industrialization within the framework of national development.

In the following chapters, the author will discuss the link of STI communication with users in Indonesia based on PDII experiences.

**INDONESIAN CENTRE FOR SCIENTIFIC DOCUMENTATION AND
INFORMATION OF INDONESIAN INSTITUTE OF SCIENCES (PDII-LIPI)**

PDII-LIPI, formerly known as the Indonesian National Scientific Documentation Centre (PDIN) was established on June 1, 1965. PDII is the documentation and information center among other research centres under the Indonesian Institute of Sciences.

The main tasks of PDII are to provide and develop library, documentation and information services in science and technology (S & T) to support research communities as well as public in general. PDII is responsible for the provision of literature based on STI services.

PDII carries out the above tasks, through the following range of activities:

II. Science and technology documentation activities

Efforts have been made over the period of the Fourth and Fifth Five-Year Development Plans for collection building in order to improve library collections to support the STI needs. They are:

- documentation of S & T literature published in Indonesia and abroad
- the collection of Indonesian S & T publications.

PDII has a strong collection of Indonesian S & T journals, dissertations, and conference papers. The collection of research reports is still far from satisfactory, since the authors and research institutions issuing the publications are still do not automatically submit their publications to PDII.

Since the beginning of 1985, the collections have been organised into an information storage and retrieval system as a national science and technology bibliographic database.

As the output of the database, PDII published indexes, abstracts and special bibliographies. The purpose of these publications is to widely disseminate information using printed media.

Since last year, PDII enjoys the increased budget to be able to continue the subscription of foreign S & T journals and the key abstracting and indexing periodicals, to support its activity. Selected foreign book publications have also been purchased to improve library collections.

The whole documentation activities which are based on PDII library collections is considered as an information sources needed to support Indonesian scientific works. Details of PDII's collections is given in Appendix 1.

III Science and technology information activities

Many efforts have been made in order to meet the users information needs. The type of services provided is varied from library services in general until special information services.

The fast development of S & T gives big influences in the provision of STI services. The explosion of information has made it difficult for the users to keep track the development of their subject interest. Special information package which consist of the state of the art review is undoubtedly needed.

STI services provided by PDII such as:

- Library Services

These services are especially offered to those who visit the library personally or by correspondence. University students represent the biggest users group.

- Dissemination of STI Services

These include :

1. The current awareness services has several components such as, Informasi Kilat (Current Awareness Service), Jasa Informasi Anda (Your Information Service), Paket Kesiagaan Informasi Teknologi Industri (Current Industrial Technology Information Package), Jasa Penyebaran Informasi Terseleksi (Selected

Dissemination of Information), Jasa Informasi Paten Terseleksi (Selected Patent Information Service).

2. Information retrieval service both manually and computerized are provided by PDII. It covers retrospective retrieval searches of published articles using foreign and local sources. Manual search is offered based on secondary literature available in the library. University students are the major users of these services. Request of manual information retrieval services is given in Appendix 1.

3. Online information retrieval services

Since 1986, PDII provides online services through DIALOG Information Services using Package Switching Data Network provided by The State Owned Telecommunication Company P.T. Perumtel. Within the framework of BISTINFOS Project (British-Indonesian Science and Technology Information Services) sponsored by the British Council and PDII-LIPI, offers an online information services through data hosts in Europe and U.S., i.e.

- a. European Space Agency - Information Retrieval Services (ESA - IRS) in Frascati, Italy;
- b. British Library Automated Information Services (BLAISE-LINE and BLAISE-LINK) in London, UK;
- c. Pergamon Financial Data Services (PFDS) in London, UK;
- d. ORBIT in US.

The purpose of BISTINFOS project is to support university communities and government organization in getting information by charging a minimum flat fee and free of charge to postgraduate students in the country. The private sector should pay at full cost. Through those data hosts, the users can access information either bibliographic, numeric, or full texts data, from various subjects in different types of information such as references to books, journal articles, conference proceedings, research reports, theses, patents and standards, industrial statistics, company profiles, current affairs, etc. The BISTINFOS requests statistic is given in Appendix 1.

4. CD-ROM Search Services

To familiarise users with the computerized search services, PDII provides computerized search service using CD-ROM. In 1988, PDII received both CD-ROM and its drives from UNESCO for promotional campaign. PDII received ERIC (1965-1975); Dissertation Abstracts (July 1984-Dec. 1986); MEDLINE (1986) and Life Science (1986-1987). Now, PDII develops its CD-ROM Collections by purchasing other products such as NTIS (1985-1988), CIRR (1979-April 1989), AGRICOLA (1970-July 1989) and

Life Science (1988-June 1989). Sociofile (1974-April 1991) is purchased under The Royal Netherlands Embassy, Jakarta for Women in development Project, whereas CAB (1990 - 1992) is purchased under the BISTINFOS project.

By using CD-ROM, the users can easily learn and use without telecommunication charge. Records can be downloaded or print out in a short time.

5. Industrial Technology Information Package (PITI)

PITI has been so far utilized by many researchers and engineers in industries as well as by consultants. PITI covers a comprehensive technical and engineering information which includes research reports, standards, patents, journal articles, paper conferences both in the country and foreign sources. This service helps the users to study the state of the art review of a certain topics, get a new idea, process, market, equipment and other technology, etc.

6. Document Delivery Services

Document delivery services provided is as the back up of the previous services. Since Indonesian document repositories is limited and can only supply few such documents, the requests have to be send abroad which is very costly and takes time. The statistic of document delivery services provided by PDII is given in Appendix 1.

IV. The Development of documentation and information system

This activity covers all effort to improve the system available at PDII or at other institution. The priority is to improve the capability of PDII staffs by sending them for training courses, and/or opportunities to study at postgraduate level and workshop, either in Indonesia or abroad.

PDII has also provided consultation services, training course or in service training for librarians, documentalists, information specialists, and also provided users education. The capability of PDII staff has improved by organize this services. Other activities related to documentation and information system development are interlibrary cooperations with other institutes both national and international; developing STI network system, institutional cooperation and system of infrastructure support; carrying out documentation and information studies; the overall planning for the development and provision on documentation and information services; and evaluation of the development and provision science and technology documentation and information services.

All PDII-LIPI activities is facilitated by technical and administrative support system. Technical facilities available are reprographic unit, micrographic unit and



computer unit.

V. Development of S & T database

PDII has the responsibility to provide documentation and information services. The development of S & T database is one major activity. Until now there are about 61.500 bibliographic records available in the computer (HP/3000) using MINISIS software. IDRC has given assistance in the areas of manpower training, consultancies, and MINISIS software. The same organization has also assisted PDII with equipment and system to store microforms in hermetically sealed aluminium pouches.

Main target of database development are:

- the establishment of framework for an Indonesian publication database
- the improvement of standardized keywords for information storage and retrieval
- the continuation of database outputs such as special bibliographies, abstracts, indexes, manual, etc.

VI. Professional manpower

The new challenges and demands in science and technology information will require qualified library and information manpower with background training in subjects such as physics, chemistry, technology, computer science and management. PDII faces great difficulty in its ability to compete with private and public enterprises, banks and industries to recruit information specialists. PDII has actively pursued a policy of developing its manpower potentials. This has been done through:

- recruitment
- opportunities for study at master's level
- sending staff for training courses and to workshops, both in Indonesia and abroad

The present distribution of 236 PDII's staff and their educational background i.e. 13 masters, 55 undergraduates, 26 bachelors, 116 senior high school and others.

It can be seen that PDII still short of qualified professional staff to face future challenges in the field STI.

VII. Special activities

1. PDII receives additional task to develop and maintain Documentation and Information Centre for Women in Development (PIWP) since 1979, with guidance and direction of the State Minister for the Role of Women and financially supported by UNICEF. Since the last couple of years, PIWP has also received funds from The Royal Netherlands Embassy, Jakarta for Women in Development project and Swiss Development Corporation in the field of Women project.
2. On September 1990, PDII also received additional task to develop and maintain Documentation and Information Centre for Environmental Impact Analysis research reports from The

State Minister for Population and Environment.

3. PDII took part in joint program with National Library, National Archives, Library Development Centre, and Directorate of Museum to organize the conservation program of library collection and archives funded by Ford Foundation.
4. Co-operation between the US-Library of Congress and PDII (since 1979) and between PDII and Koninklijk Instituut voor Taal-, Land- en Volkenkunde---(KITLV) through literature exchange, especially microfiches.
5. PDII was appointed as an agent of US-NTIS (National Technical Information Services) publications since 1977 and from OECD publications in Indonesia.
6. PDII has appointed as National Focal Point for information on environment INFOTERRA - UNEP, ENSICNET (Environmental Sanitation Information Center, and for Asean Technology Information Network.
7. PDII took part in the establishment and development of the information network in the country such as Family Planning, Food and Nutrition, Water Supply and Sanitation, etc.
8. PDII is appointed as the national focal point to provide input to the Centre of ISDS (International Serial Data System) of Indonesian serials.

VIII. Conclusion

1. Efforts have been done since middle 60's. However, the fast development S & T especially the explosion of S & T information prove the needs of strengthening and enhancing system and resources within PDII.
2. Cooperation among the libraries and information centres both national and international undoubtedly important.
3. Special link among libraries and information centre in Asian Countries have to be a priority within this regions.

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Appendix 1

LIBRARY COLLECTIONS

TYPE COLLECTIONS	! 86/87	! 87/88	! 88/89	! 89/90	! 90/91
BOOKS & PERIODICALS,	! 114.503!	! 118.989!	! 122.433!	! 127.980!	! 136.046
REPORTS	!	!	!	!	!
MICRO FILMS	! 1.545!	! 1.625!	! 1.625!	! 1.625!	! 1.625
MICRO FICHE	! 46.168!	! 47.713!	! 47.922!	! 55.092!	! 57.966
STANDARDS	! 11.346!	! 11.346!	! 11.444!	! 11.450!	! 11.548
CLIPPINGS	! 5.548!	! 6.309!	! 7.177!	! 7.745!	! 7.891
PATENTS	! - !	! - !	! - !	! 1.313!	! 1.715
TOTAL	! 179.110!	! 185.982!	! 190.601!	! 205.205!	! 216.791

MANUAL SEARCH SERVICES

TYPE OF USERS	! 86/87	! 87/88	! 88/89	! 89/90	! 90/91
RESEARCHERS/LECTURERS	! 127	! 109	! 63	! 86	! 169
UNIVERSITY STUDENTS	! 498	! 567	! 466	! 635	! 727
POST GRADUATE STUDENTS	! 39	! 44	! 30	! 40	! 203
INDUSTRIES	! -	! -	! -	! 45	! 47
ADMINISTRATORS	! 53	! 64	! 28	! 19	! 14
PUBLIC/STUDENTS	! 122	! 180	! 63	! 30	! 57
TOTAL	! 839	! 964	! 650	! 855	! 1.217

ONLINE SEARCH SERVICE (BISTINFO Project)

TYPE OF USERS	! 89/90	! 90/91
RESEARCHERS/LECTURERS	! 18	! 106
ADMINISTRATORS	! 3	! 10
UNIVERSITY STUDENTS	! 18	! 28
POSTGRADUATE STUDENTS	! 52	! 183
INDUSTRIES	! 13	! 24
TOTAL	! 104	! 351
DEMO IN GROUP	! 253	! 543

DOCUMENT DELIVERY SERVICES

TYPE OF DOCUMENTS	! 86/87	! 87/88	! 88/89	! 89/90	! 90/91
ARTICLES	! 20.639	! 10.852	! 3.688	! 3.917!	! 4.825
REPORTS	! 1.399	! 2.111	! 1.303	! 1.291!	! 2.190
STANDARDS & PATENTS	! 1.853	! 2.003	! 285	! 249!	! 413
BOOKS (CHAPTER OF BOOKS)	! 3.325	! 3.411	! 10.517	! 11.170!	! 12.955
OTHERS	! 1.731	! 1.643	! 75	! 81!	! 443
TOTAL	! 28.947	! 20.020	! 15.868	! 16.708!	! 20.826

