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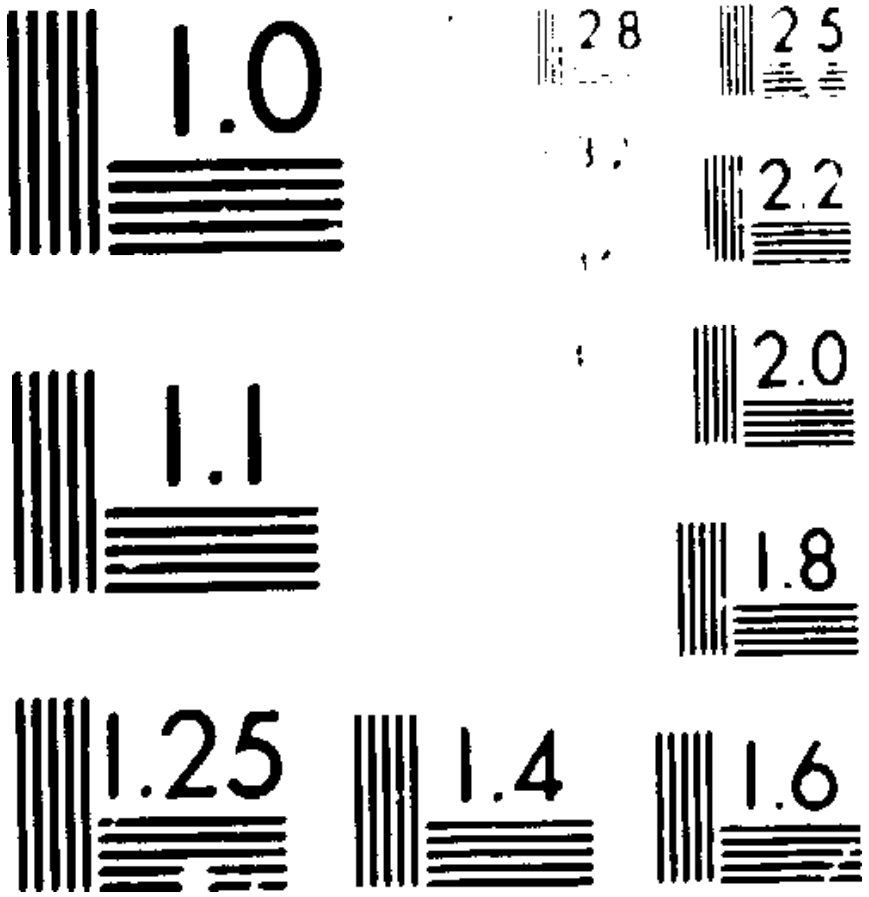
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EXPERIENCES OF THE AGENCY FOR INDUSTRIAL RESEARCH AND DEVELOPMENT OF INDONESIA IN THE TECHNOLOGY SERVICES DELIVERY SYSTEM (TSDS) FOR BATIK AND HANDICRAFT INDUSTRIES *

by

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I.INTRODUCTION.

In delivering technology services to S M I, at first the Indonesian Government pointed out the Agency for Industrial Research and Development to undertake all the responsibilities in carrying out the activities through the Institutes for R & D .
The Institute for R & D of Handicraft and Batik (IRDHB) has been carrying out this activities since its early years of coming into existence.

In 1974 , the Indonesian Government through the Directorate General for Small Industries started a pro - ject to enhance the development os Small Industries (The BIPIK project).

This project has been implemented with the co-operation of the Agency of Industrial R & D, Banks and other bodies, either governmental or private.

Before the BIPIK project was started the IRDHB was the only governmental institution which was responsible in carrying out all the technology service delivery activities for Handicraft & Batik Industries. In this case the institute worked together with regional authorities

where the Handicraft and Batik are situated, especially in organizing the people from those industries.

After the HIPIK project was started, the technology services has been delivered not only by the IRDHB, but also by the Directorate General for Small Industries, employing its own experts, or with the assistance of experts from the IRDHB.

II. T S D S IMPLEMENTED BY THE I R D H B .

The Proposals for technology services to the IRDHB may come from Handicraft and Batik Co-operatives, Directorate General for Small Industries, The Ministry of Culture & Education, The Ministry of Health, The Ministry of Commerce (diagram 2) and also in certain cases proposed by the entrepreneurs themselves

The T S D S is concerned with five activities, namely :

1. Information Dissemination
2. Implementation
3. Training

   (Trainings carried out at the Institute)
4. Technical Assistance
5. Consultancy

Information Dissemination.

The technical information disseminated by the institute is set up to assist the Handicraft & Batik

entrepreneurs by dealing with two types of information, namely :

1. Information on the Institute for R & D of Handicraft and Batik Industries (IRDHB).

This will explain the institute's function and services and how such services be instrumental in improving the operations of Handicraft and Batik Industries.

2. Information on Opportunities for improvement.

This will be in the form of techniques for quality improvement, cost reduction, product diversification, quality control, etc.

Information will be disseminated in the form of concise technical bulletins or through meetings and demonstrations.

Implementation subsystem.

This subsystem covers two major activities in the form of in-plant technical trainings.

1. A group of Handicraft and Batik firms discuss problems being faced with the Institute expert. This will lead toward the identification of specific training needs. Then the institute put up a training program which will be conducted in the regions.

After a training program has been implemented, the institute itself will monitor its effects on the firms involved in the program.

2. The implementation of the Institute's new inven tions on new tools, new processings or new product de - signs should be made known to the Handicraft and Batik Industries.

This can be done by directly implement those inven-tions to the regions through a series of in-plant training. The member of the Federation of Indonesian Batik Coope-ratives has made good use of this, and this subsystem proved to be one of the best ways to improve their abi-lity.

T r a i n i n g .

Beside the in-plant training, the institute also conducted trainings which are held at the institute. This consists of :

- The routine Handicraft and Batik courses.
- Trainings for instructors.
- Trainings for operators, foremen and supervisory personnel. (intermediate executives)

Technical Assistance.

For example :

A single Handicraft and Batik firm ask for assis - tance to the institute in implementing techniques for improving its product or identify the problems being faced by the firm that brings down its production rate. The institute will send an expert to undertake all the necessary action to overcome the problems.

C o n s u l t a n c y .

The problem faced by a single firm are discussed at the institute between the institute's expert and the Handicraft and Batik entrepreneur.
For Batik, most problems faced by entrepreneurs are how to produce certain colour shade, certain wax composition recipes, and improving fastnees of certain batik dyes.

Assistance in the form of technical advices will be provided by the institute through coresprondence after some series of experiments has been carried out in the institute's laboratory.

III. PROBLEMS IN THE IMPLEMENTATION OF THE TSDS.

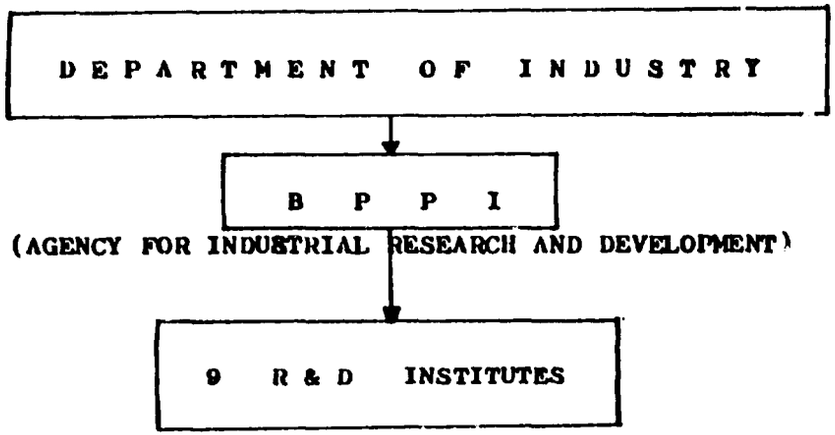
1. Technical Assistance Fee and Consultancy Fee.

The institute's finds difficulties in charging the clients, since most of them can not afford to pay the fee, this make the institute incapable of putting up a standard for technical assistance and consultancy fee, Other variable which must be put into account, namely:

a. the kind and volume of assistance given.
b. the location of the firm.
c. man-hour requirements for consultancy services and specealized research.
d. additional profits resultant from the technical assistance or consultance provided.

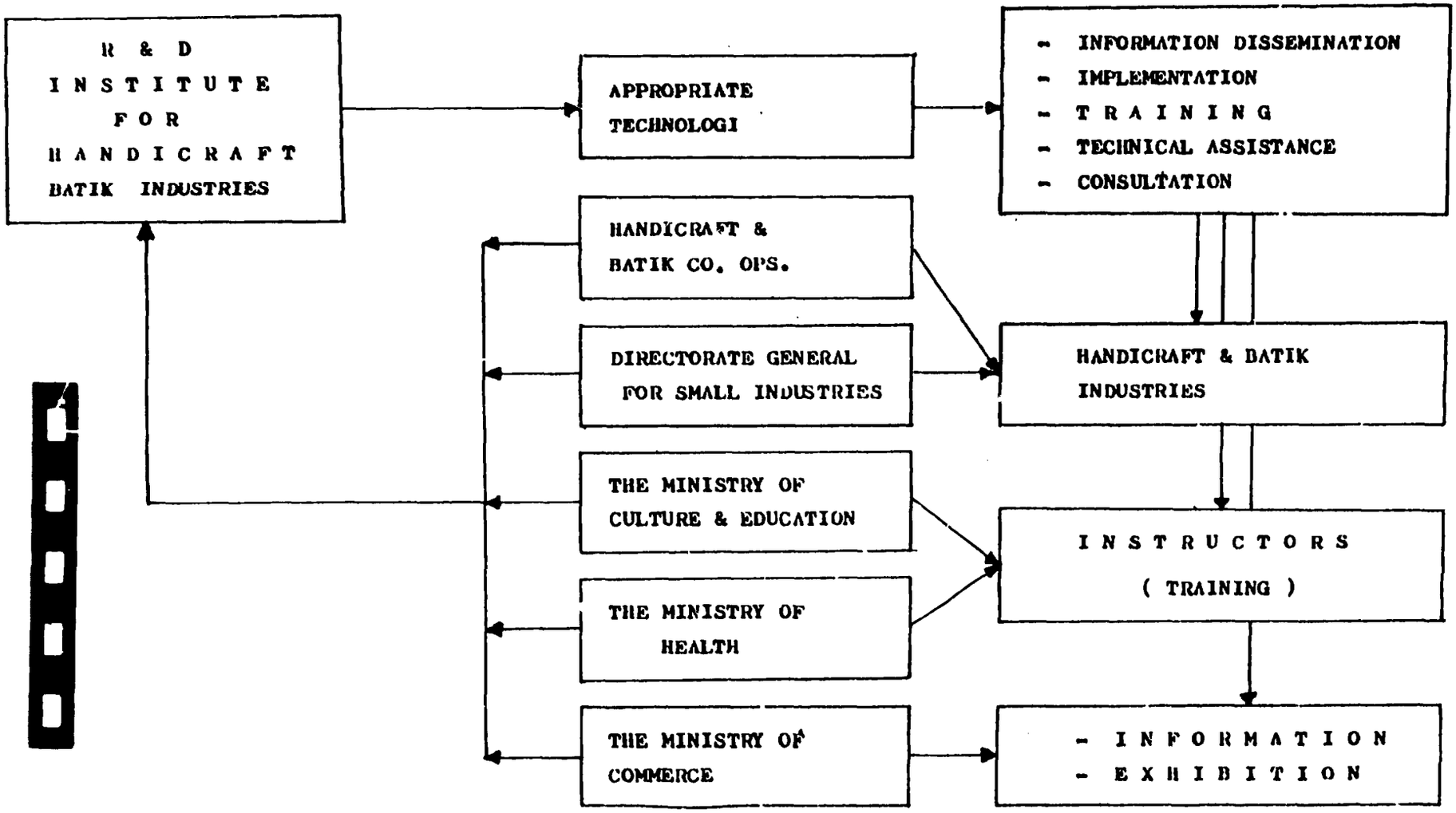
2. Lack of expert.

It is obvious from the T S D S applied, that experts employed by the institute should be of many fields since it covers the task of both the T R I ' s and the S B A C of the Philippines simultaneously.



1. INSTITUTE FOR R & D OF CHEMICAL INDUSTRIES
2. --,,-- ,, ,, OF AGRO BASED INDUSTRIES
3. DEVELOPMENT of METAL and MACHINERY INDUSTRIES
4. INSTITUTE FOR R & D OF MATERIAL & TECHNICAL PRODUCT INDUSTRIES
5. --,,-- ,, ,, OF TEXTILE INDUSTRIES
6. --,,-- ,, ,, OF CERAMIC INDUSTRIES
7. --,,-- ,, ,, OF CELLULOSE INDUSTRIES
8. --,,-- ,, ,, OF LEATHER and ALLIED INDUSTRIES
9. --,,-- ,, ,, OF HANDICRAFT & BATIK INDUSTRIES

IV. Diagram 1.


R & D
INSTITUTE
FOR
HANDICRAFT
BATIK INDUSTRIES
APPROPRIATE
TECHNOLOGI
- INFORMATION DISSEMINATION
- IMPLEMENTATION
- TRAINING
- TECHNICAL ASSISTANCE
- CONSULTATION
HANDICRAFT &
BATIK CO. OPS.
DIRECTORATE GENERAL
FOR SMALL INDUSTRIES
THE MINISTRY OF
CULTURE & EDUCATION
THE MINISTRY OF
HEALTH
THE MINISTRY OF
COMMERCE
HANDICRAFT & BATIK
INDUSTRIES
INSTRUCTORS
(TRAINING)
- INFORMATION
- EXHIBITION

V. Diagram 2.