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PROGRESS REPORT
RURAL SANITATION MANPOWER DEVELOPMENT
INDONESIA - JAKARTA, JULY- 1977

THE TERM SANITATION PERSONNEL IN INDONESIA

8p.

The term sanitation personnel in hystorical perpective may be defined in several ways, depending upon the stage of development of the Indonesian Government.

The same as any other countries in the world, the general definition, however, may be stated as : "A professional practitioner of Hygiene and sanitation, who works within the administrative framework of a community hygiene-sanitation program and the positions held may be high or low in the hierarchy of administrative responsibility.

The special definition of sanitation personnel in Indonesia is more restricted in scope than the general definition and may be stated as para-medical personnel non medical practitioner of sanitation , who works within the administrative framework of a community environmental health program.

In the perspective of the historical process, the stages of development of sanitation personnel in Indonesia are transitional shaded in the successive stages of social growth. It must also be understood that the title : "sanitarian" and "Sanitation Technologist" come into use relatively recently, early in 1976, and that in the various stages of development of administration, various designations were given to those functionaries whose duties fell within the meaning of the definitions of sanitation personnel.

Before this time, Indonesia have approximately 12 catagories of sanitation personnel, who work in the community environmental hygiene program, and for this reason there were difficulties in defining the job description of each of these catagories.

The increase in scope in the field of environmental sanitation and in administrative procedures has created a demand for skillfull sanitarians with a B.S and M.S degree in public health and the sciences. Consequence to the above stated, the 12 catagories of sanitation personnel has been symplified into two catagories : "Sanitarian or sanitation technician" (1 year sanitation training after senior high school) and "Sanitation Technologist" (3 year sanitation training after Senior high school). Both catagories of sanitation personnel are trained as professionals and due to the demand for professional trained sanitation personnel, more educational institutions will include sanitary sciences and technology in their curricula.

The sanitarian is rapidly assuming a more responsible position in the field of public health, not only in public service but also in the armed services, in business and in industries in Indonesia. Rapid advancement has taken place during the last decade in research and administrative procedures and can be mentioned the "President decree" regarding the "rural water supply and excreta disposal" (Sami-jaga) as a national sanitation program, in more effective practical application.

The Rural Sanitation Manpower Development (R.S.M.D.) program contribute the development of technological powers, which is the determining factor to reach the desired goal.

RURAL SANITATION MANPOWER DEVELOPMENT (R.S.M.D.).

The R.S.M.D. LOAN AGREEMENT has been signed in September 1976
The project focuses its activities on 4 main programs :

1. Construction of school buildings.
2. Training of Trainers.
3. Institutional training :
 - a. Sanitarian
 - b. Sanitation Technologist.
4. Retraining :
 - a. Assistant Sanitarian.
 - b. Sanitarian (old style)
 - c. Health Controllers (old style sanitation technologist).

I. C O N S T R U C T I O N.

1. Location.

After a survey has been made to determine the suitability of the sites, it has been defined as follows :

- a. The regional sanitarian schools will be on 9 locations in Medan, Lampung, Bandung, Purwokerto, Surabaya, Denpasar, (Bali), Banjarmasin, Manado and Ujung Pandang.
- b. The Academy Sanitation Technologists will be in Jakarta and Surabaya.

2. Land Ownership.

The land available for the construction are owned by either the local Government, ministry of health or buying from private agencies.

A land-certificate for each site is required.

In processing the required land-certificates steps have been taken in corresponding and taking contacts with the provincial health officer, the local public works etc.

It is expected that every site will have the certificate concerned at least in the month of August 1977.

3. Block Drawings.

Construction block drawings of all sites have been prepared by the division of Engineering M.O.H. together with the bureau architecture "P.T. HARIMURTI" and almost of the drawings are approved by the US.AID Engineering Division in Jakarta.

4. Construction design.

The design of the construction follows the Bappenas (National Planning Bureau) standard and RSMD Project Paper.

Almost of the construction design has been finished and submitted to US.AID Engineering Division for approval.

It is planned that the construction will be divided into three phases adjusted to the budget allocation in the DIP (Project Budget Allocation).

- a. First

- a. First phase (GOI fiscal year 1976/1977) Constructing : Offices, Classrooms, workshops and laboratories, for the Production Technologist in Jakarta and Surabaya.
 - b. Second phase (GOI fiscal year 1977/1978), Constructing : Offices, Classrooms, workshops and directors housing for the 9 regional Sanitarian schools.
 - c. Third phase (GOI fiscal year 1978/1979) Constructing : dormitories, auditoriums and other staff housing.
5. "X" Factors.
It must be noted that in the Project Paper for all sites, no budget allocation is available for the following :
- a. Fence
 - b. Electricity
 - c. Water supply and sewage disposal
 - d. Road within the campus and also from the school to the main roads
 - e. Land fill required in some of the sites.

With regard to above mentioned a review of arrangement of construction and budget allocation should be made.

6. Contractors Prequalification.
Through the Provincial Health Officer a list of ten considered qualified Contractors is acquired.
- Prequalification of the contractors (selecting contractors according to the requirement of the project) will be done by M.O.H. and approval in writing will be given by US.AID.
7. Bid Contract.
Bid contract will be conducted in each school sites and arrange by the provincial health officer together with the local division of public works, approximately at the end of August 1977.
3. Control Teams.
- a. A central government team located in Jakarta, consisting of representatives within the ministry of health and the ministry of public works and electric power, has been assigned to perform administrative control which regard the construction of the school buildings.
 - b. A local team located in the provinces, consisting of representatives within the provincial health Department and the local division of public works, has been assigned to perform direct control to the implementation of the construction.

II. TRAINING OF TRAINERS.

1. Short course training of trainers.
Purpose :
 - a. Involvement of the new full staff trainers in the methodology of the new style curriculum.
 - b. Improvement of the trainers ability to teach.

It is

It is planned that the short course training of trainers will be conducted in the month of Desember 1977 until January 1978 for approximately 1½ months.

At that time it is expected that the US technical consultants can be involved in this kind of training.

2. Incountry Fellowship.

In accordance to the P.P., it is planned that a number of 37 full time instructors will be trained at the Faculty of Public Health University of Indonesia in Jakarta for two years to take M.S. degree in environmental health.

The training will be divided into two batches.

The first batch (1978) will consists of 18 participants, while the second batch will consists of 19 participants.

Note :

It has been decided that starting from February 1978, the M.S. curriculum of the Faculty of Public Health University of Indonesia will be implemented.

3. Overseas Fellowship (U.S.A.).

In accordance to the P.P., it is planned that a number of 26 full time instructors will be trained at Universities in the U.S.A., for one year non degree program.

The training will be divided into two batches, each batch consisting of 13 participants.

The first batch will be in Sept.1977 if it is still possible not too late for the Academic enrollment, while the second batch is planned in 1978.

Preparation has been made in having contact with instructors from various sanitation schools to take their ALIGU-English Test arranged by the division of foreign relations of the M.O.H. together with the US.AID training division in Jakarta.

4. Sanitary Engineering Fellowship.

Grant is given by US.AID to full time school's instructors complying the necessary requirements to have their training in sanitary Engineering for two years degree program in the U.S.A.

Three participants passing the TOEFL-TEST and considered qualified in mathematics are required for this 1978 enrollment.

Selection of instructors in various school has been made and a list of selected participants has been submitted to US.AID for the TOE FL-TEST.

III. INSTITUTIONAL TRAINING.

A. REGIONAL SCHOOL FOR SANITARIANS.

1. Staffing.

It is required that every school for sanitarians has at least 5 (five) full time instructors, included the director of the school.

Preparation of

Preparation of recruitment through the provincial health officers has been made in getting the required manpower.

Almost of all regional sanitarian schools have completed the required full time staff, except Banjarmasin seems to have problems because of limited manpower at that region.

Especially Banjarmasin, will get manpower supply from any other provinces and is now still in process.

2. Curriculum.

a. Preparation.

Preparation for the design of the new style sanitarian school's curriculum has been made by collecting data, regarding :

- 1). The existing sanitation program in Indonesia
- 2). The educational program implemented in the existing sanitation schools.
- 3). The policy of training program determined by the center of education and training M.O.H.

b. Design.

The curriculum design is now still in process. The old style curriculum which is "Teachers centered" is change into a new style curriculum focusing on "students & community centered" philosophy.

Review of technical skill and knowledge of the sanitarians should be relevant to their task as professionals in the field of rural sanitation.

3. Workshop.

The concept of the renewal of the curriculum of the regional sanitarian schools will be discussed on a meeting of the directors of the regional sanitarian schools at the end of July 1977.

It is expected that by that time at least one of the us technical assistants (sanitation educator) can be involved in this meeting.

4. Training Facilities.

In accordance to the facilities list stated in the P.P., it is very important taken into consideration that the training facilities mentioned are not relevant with the real needs, although not for Indonesia.

For this reason the facilities list is necessary to be reviewed.

Preparation has been made in reviewing the list according to the needs.

B. ACADEMY SANITATION TECHNOLOGIST.

1. Staffing :

It is required that every academy Sanitation Technologist has at least 9 (nine) full time instructors, included the Director of the school.

The Academy Sanitation Technologist in Jakarta and Surabaya, each has already 9 full time existing staff/instructors. Of the nine full time instructors, 4 (four) will be trained in the USA and the other 5 (five) will be trained at the Faculty of Public Health in Jakarta.

Preparation of recruitment has been made in getting more other teaching staff to a number of 15 for each school

2. Curriculum.

a. Preparation, design and implementation.

Preparation for the design of the new professional curriculum of the Academy Sanitation Technologists has been made by a team.

The concept of the new style curriculum has been forwarded to the Director of center education & training M.O.H. and discussed in a meeting of directors and technical staff of both Academy. The old style curriculum, which is non professional has been converted into a more specific professional curriculum, based on the educational policy and philosophy of the M.O.H.

b. The new style curriculum has been implemented since February 1975.

c. Periodical evaluation of the implemented curriculum of both Academies for Sanitation Technologists is conducted at the end of every semester.
For this semester the evaluation will be done early July 1977.

3. Workshop :

A workshop for discussing the renewal of the curriculum Academy Sanitation Technologists will be conducted at the end of October 1977.

It is expected that by that time US technical consultants can be involved in this meeting.

4. Training Facilities.

The list of facilities for the training of sanitation technologists should be revised, because it is not relevant to the real needs.

It is considered necessary the involvement of the US technical consultants in this matter.

Preparation has been made in reviewing the list of training facilities in accordance to the real needs.

IV. RETRAINING.

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1. Objectives.

- a. The purpose of retraining is promoting the skill and knowledge of the existing sanitation manpower relevant with the renewal of the curriculum of the sanitation schools.
- b. Equal recognition of the old style to the new style professional graduates.

2. Retraining course.

a. Participants.

At present there are three categories of sanitation personnel working in the hygiene & sanitation program of the M.O.H. :

- 1). Assistant Sanitarian (Pengamat Kesehatan A/B).
- 2). Assistant health controllers (old style category of sanitarian).
- 3). Health controllers (old style category of sanitation technologists).

The retraining course is more focused on the retraining of Assistant Sanitarian (PK. A/B).

3. Curriculum.

a. Preparation of the Curriculum by collecting data regarding :

- 1). Existing Sanitation Program.
- 2). Existing old style curriculum comparing with the new professional Curriculum in the institutions.
- 3). Policy of retraining program by Center of Education and Training M.O.H.

b. Curriculum design still in process and will be determined after the new style professional curriculum is finished.

4. Conduction of Retraining.

a. The retraining is planned to be conducted starting in the year 1978 and continuously done until finished.

b. Location of retraining :

- 1). Assistant Sanitarian and Sanitarian retraining will be conducted in each regional Sanitarian schools (Medan, Lampung, Bandung, Purwokerto, Surabaya, Denpasar, Ujung Pandang, Manado, Banjarmasin).
- 2). Health Controllers retraining in each Academy Sanitation Technologist (Jakarta and Surabaya).

c. Duration

